

6. Weed Management

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Weeds reduce the aesthetic qualities of landscape plantings and compete with nursery crops for nutrients, water, and light. Root systems compete for nitrogen and water. Even seemingly non-competitive weeds like bittercress (*Cardamine* spp.) have been shown to reduce growth of container-grown plants. Tall weeds and vines shade crops, reducing photosynthesis and growth. Vining weeds such as morningglory (*Ipomoea* spp.) are particularly damaging because they disfigure stems and new growth. In landscape plantings, weeds must be controlled or removed to maintain quality aesthetics. Weeds may also need to be removed for health and safety reasons. For example, poison ivy (*Toxicodendron radicans*) contains a toxin that causes skin rashes in most people. Weeds with thorns, such as horsenettle (*Solanum carolinense*) and wild blackberry (*Rubus* spp.) are a nuisance to workers and customers. Flowering weeds such as white clover may attract bees, which is a concern if insecticides are being applied or if site users are allergic to bee stings. Additionally, weeds harbor insect pests, disease pathogens, and rodents that can damage nursery crops. For these reasons and more, weed management is a crucial component of crop production and landscape maintenance.

Integrated weed management programs should include assessments of the weed populations (and the necessity of control), cultural practices that can reduce weed populations, and the judicious use of preemergence and/or postemergence herbicides.

Weed Scouting

The first step in any pest management program is to identify the pest(s). Scouting fields for weeds will enable the grower to determine which weeds are present and to plan appropriate management strategies. Weed scouting differs from traditional insect pest scouting programs because most weed control practices are preventative. Thus, weed management decisions are based on field histories rather than on current population densities. Field nurseries and landscape plantings should be scouted at least twice a year, in late summer or early fall, and again in late spring or early summer. In late summer, most summer annual, perennial, and biennial weeds are in bloom and thus easier to identify. In late spring/early summer, winter annuals are in bloom, while perennials and summer annuals that escaped control procedures can be identified. In container nurseries, weed scouting is a continuous process and should be integrated with other production practices. Weed scouting involves assembling an inventory of the weeds in each block. This is done by simply walking each field and recording the species encountered. Then, highlight the most important species – those that are new to the field, most prevalent, or those requiring specialized control programs. Infestations of perennial weeds should be mapped so maintenance staff can return to these locations when weed control treatments are needed. With this information, the grower or landscape professional can better plan a weed management program that matches the needs of each crop and field.

Cultural Practices that Reduce Weed Populations

Sanitation practices that exclude weed introductions and prevent spread are cornerstones of an integrated weed management plan. Sanitation, in particular, is an under-recognized and under-utilized component of nursery and landscape weed management plans and programs. This includes a commitment to weed prevention and management throughout the site and throughout the crop production cycles. In container nurseries, this begins with weed-free substrates. Store pots and flats where they will not be contaminated with weed seeds, keep liners and liner production areas as weed free as possible, and prevent the introduction and spread of weeds into production systems. In field nurseries and landscapes, be sure to control perennial and other hard-to-kill weeds before planting. After planting, monitor fields regularly for introduced weeds or hard-to-control species. Control these species before they can spread. It's much easier to prevent weeds from getting out of hand than it is to clean up a weedy site.

In landscape plantings, mulches can suppress most small-seeded annual weeds. Many types of mulches are available, including barks, pine straw, municipal composts, crushed rocks, and others. All such mulches suppress annual weeds by excluding light and by being a physical barrier.

When mulches are too fine, too thick, or begin to decompose, they stay wet between rain events, allowing weeds to germinate and grow directly in the mulch. Therefore, for weed control, a fairly coarse-textured mulch with a low water-holding capacity would be preferable. To effectively suppress weeds, the depth of organic mulches should be about 3 to 4 inches. Plan for periodic replenishment. When used alone, mulches rarely provide 100% weed control. Supplemental hand weeding or herbicide applications will generally be necessary.

Preemergence and Postemergence Herbicides

Herbicides are relatively inexpensive and effective means of controlling weeds. Yet, these tools must be used with care and understanding to control weeds without risking damage to your crops, nearby plantings, or the environment.

Preemergence herbicides are important components of most nursery and landscape weed management plans. They work by forming a residual barrier in the soil surface that prevents weed seedling emergence. Thus, application timing is critical to ensure the herbicide barrier is present before weeds germinate, and herbicides must be re-applied to maintain control throughout the growing season. In container nurseries, three to six applications are required per year. In field nurseries or landscapes, two to three applications are required. The reapplication timings will depend on the herbicide used, the application rate, the watering frequency/daily amount, and local environmental conditions. Perhaps more importantly, the need for reapplication will depend on weed populations. Sites with a history of heavy weed infestations will need more frequent herbicide applications than will sites with a history of few weeds.

When weeds escape the preemergence herbicide application, postemergence herbicides are often used. Postemergence herbicides control weeds after they have emerged. They may be selective or non-selective, contact action or systemic. Diquat, glufosinate, and glyphosate are examples of non-selective postemergence herbicides, injuring any vegetation contacted. Clethodim, fluazifop-p, and sethoxydim are examples of selective postemergence herbicides that control grass weeds but not broadleaf weeds. Selective herbicides may sometimes be used as broadcast treatments over the top of some ornamental crops, but one cannot assume these products can be safely applied to all ornamental plants. Non-selective herbicides may be used in many production and landscape settings as “directed sprays,” avoiding contact with desirable plants. Postemergence herbicides may also be categorized as contact or systemic. For example, glyphosate is systemic, translocating to the roots, thereby killing the entire plant. It is effective on annual and perennial weeds. Diquat and paraquat are contact-type herbicides, controlling small annual weeds but only “burning-back” perennial or large annual weeds since these herbicides do not directly affect underground plant parts.

Resistance Management

Herbicide-resistant weeds are common in most agronomic crops in the United States. While not currently widespread in nursery crops, herbicide-resistant weeds are becoming an increasing threat to nursery crops. Rotating herbicide modes of action and using multiple control tactics will delay or prevent the development and spread of herbicide-resistant weeds. The Weed Science Society of America (www.wssa.net) has grouped herbicides into MOA categories, which are listed in this guide to aid in the development of resistance management programs.

Alternatives to Herbicides

Alternatives to herbicides do exist. Weeds can be controlled by thermal devices – flame, steam, or hot foam weeders. These devices function similarly to non-selective, contact herbicides, controlling the above-ground vegetation contacted by the treatment. Effective control of seedling annual weeds may be obtained, but larger annual weeds and perennials will grow back rapidly, necessitating multiple treatments.

Mechanical control, using hand-held or tractor-mounted cultivators, may also be used to control weeds. Mechanical cultivation works best when weeds are very small. Soil cultivation can be effective, but it will also increase soil erosion and may damage shallow-rooted crops. Thus, reliance on cultivation for annual weed control in field nurseries is discouraged. Hand removal will always be a part of weed management plans for landscape plantings and container nurseries. When hand weeding, remove weeds when they are young, before they have a chance to establish an extensive root system and before they flower. String trimmers may be used to cut weeds off at the ground. If this trimming is done at the right time, it can prevent reproduction by seed. Mowing will reduce the height of weeds, improving site aesthetics, but mowed weeds are nearly as competitive as unmowed weeds in field nurseries.

In landscape plantings, alternative “natural” chemical treatments are sometimes preferred over synthetic herbicides. Several such products are available in retail markets and some are certified organic by the Organic Materials Review Institute (OMRI). These products generally include vinegar (acetic acid) along with one or more natural oils (such as clove oil, oregano oil, citrus oil, and others). All of these products provide non-selective, contact-type weed control. Seedling annual broadleaf weeds may be well controlled but grasses, large broadleaf weeds, and perennial weeds will exhibit foliar injury then plants will re-grow, necessitating repeated treatments. Additionally, users should be aware that “natural” is not synonymous with “safe.” Many of these “natural” products have higher acute toxicities to the user than synthetic herbicides.

Field Nursery Weed Control Calendar

There is no single weed control plan that fits all fields, but the generic calendar below can provide a starting point to develop your weed management plan.

Table 6-1. Generic Weed Control Calendar

Task	Late Winter	Early Spring	Late Spring	Early Summer	Mid-Summer	Late Summer	Early Fall
Weed scouting			X	X			X
Preemergence herbicides	X		X			X	
Postemergence herbicide applications			spot treat	spot treat	spot treat	spot treat	treat perennial weeds
Sprayer maintenance	X						
Nutsedge control	PRE	PRE	PRE	POST	POST	POST	

Many herbicides are available for each of the timings listed above. Product selection is based on safety to crop species and the target weeds, and some weed species will “drive” your choices. A few examples include the following:

- If yellow nutsedge is present in the field, the late-winter, early-spring or late-spring preemergence herbicide application should include a residual herbicide such as dimethenamid-p or s-metolachlor that specifically targets yellow nutsedge. These products would typically be combined with simazine, flumioxazin, or isoxaben for improved broadleaf weed control, depending on the crop species. A second preemergence application of a yellow nutsedge control product will be needed about 2 months later for longer-term suppression. You may also need a postemergence yellow nutsedge herbicide at that time.
- Morningglory is particularly difficult to control in field nurseries. When present, the late winter preemergence herbicide application is often supplemented with a late spring or early summer application of flumioxazin or simazine.
- If eclipta is present in the field, you might select indaziflam or simazine for the late spring application.

Emerged weeds should be removed when they are small, before they can compete with the crop and before they can spread. Creeping perennial weeds like bindweed and horsenettle should be aggressively managed to locally eradicate them. Sometimes, this may require leaving fields fallow for a season.

Suggested Preemergence Herbicide Rotational Regimens for Container-Grown Woody Plants

Weed control in container nursery crops requires a 12-month plan, and it relies upon multiple applications of preemergence herbicides, supplemented with hand weeding and other sanitation practices. Our research evaluating the longevity of residual weed control in southeastern container nurseries has demonstrated that preemergence herbicides typically provide less than 8 weeks of residual weed control. Additionally, year-round weed control is required for woody perennial crops. Thus, three to six applications of preemergence herbicides are necessary to maintain residual weed control in container nurseries. The most cost-effective weed control program will optimize preemergence herbicide selection based on the crops being grown and weeds present (or expected). For example, bittercress is dominant in late fall, winter, and spring. Therefore, you should make sure that the preemergence herbicide selected at those times of year will provide control of bittercress. Likewise, in the summer months when spotted spurge is the dominant broadleaf weed, herbicides chosen for use in the summer should be effective on this species and other target summer annual weeds of importance at your site.

An example: Granular herbicides for shrub roses, spring potted for fall sales.

While no single herbicide program will fit all nursery sites, the following are some suggested starting points for granular herbicide rotations. Common groundsel and bittercress are dominant weeds in spring and fall, while spotted spurge, eclipta, sedges, and doveweed are dominant weeds in the summer. At the time of the second application, there will be mixtures of summer and winter annuals present, such as bittercress

Table 6-2. Suggestions for Granular Herbicide Rotations

Timing	Primary weeds of concern			
	Bittercress and Spotted spurge	Eclipta, Common groundsel	Bittercress, Annual sedges, Doveweed	Flexuous bittercress, Annual grasses
Appl. 1. At spring potting	Oxyfluorfen combination granule (Biathlon, HGH, OH2, Rout, or Regal OO)	Oxyfluorfen combination granule	Oxyfluorfen combination granule	Ronstar G
Appl. 2. 8-10 weeks, late spring	Freehand	Marengo	FreeHand	Oxyfluorfen combination granule
Appl. 3 ~16 weeks, mid-summer	Snapshot	BroadStar	BroadStar	Marengo
Appl. 4. ~24 weeks, late summer	Marengo	Oxyfluorfen combination granule	Marengo	Snapshot

and spotted spurge. As you can see, the options can be diverse. Select from herbicides with which you have had experience and success. Re-treatments should be on a regular schedule. We recommend every 8 to 10 weeks.

These are only four possibilities — many other rotational programs are possible and necessary. Modify these options into a strategy that addresses your particular situation. Longer-term crops will require additional treatments. Here are a few important points to consider.

- Some herbicides should not be applied immediately after potting. In this example, we avoid applications of Broadstar, Freehand, or Marengo on newly potted rooted cuttings of several crop species to ensure the new plants are off to a good start.
- Some herbicides should not be applied sequentially. We have found that “back to back” applications of some herbicides will stunt crops. It is better to rotate to different modes of action.
- Optimize herbicide selections based on the field history of weed species. If you had long-stalked phyllanthus in the field last year, it will likely be back again this year. So, you should select your herbicide for the summer months with this in mind. In this case, summer treatments should include products that are effective on both spotted spurge and long-stalked phyllanthus. Other species, such as eclipta or doveweed, may necessitate different herbicide selections.
- The last application in the fall should be made 2 to 3 weeks before winter covers are in place, and it should include an herbicide for bittercress control. Other winter weeds that may affect your product choices include groundsel, marsh parsley, willowherb, pearlwort, or sowthistle.
- Avoid treatments during and shortly after bud break for both spray and granular herbicides. The potential for injury is greatest at this time and least when plants are dormant.
- Apply herbicides uniformly and accurately.
- Hand weed frequently to prevent “escaped” weeds from reproducing and spreading.

Selecting the Right Herbicides

If you decide to use an herbicide, consider the following selection criteria:

1. Herbicide selection starts with determining which are safe on the ornamental species. Use the charts contained herein to guide these selections.
2. From that list of products, select one that controls most of the weeds present (no herbicide will control all weeds). Combination treatments are sometimes needed to control a diversity of weeds.
3. Consider the proximity of susceptible species and the likelihood of exposure, including potential residual effects on subsequent plantings (such as an annual flower bed).
4. Apply the herbicide(s) accurately and uniformly.

More detailed guidelines on nursery and landscape weed management are available from your local Cooperative Extension Service and in the Southern Nursery IPM manuals listed below.

IPM for Select Deciduous Trees in Southeastern US Nursery Production

https://wiki.bugwood.org/IPM_book

IPM for Shrubs in Southeastern US Nursery Production: Vol. I

https://wiki.bugwood.org/IPM_Shrub_Book

IPM for Shrubs in Southeastern US Nursery Production: Vol. II (coming soon)

<https://wiki.bugwood.org/SNIPM>

Additional resources:

Weed Management in Nurseries, Landscapes and Christmas trees. <https://weeds.ces.ncsu.edu/>

Table 6-3. Chemical Weed Control in Ornamentals

More detailed information about herbicides labeled for use in nursery crops and landscape plantings is available at the NCSU Extension Portal:

"Weed Management in Nurseries, Landscapes and Christmas Trees," <https://weeds.ces.ncsu.edu/>

Weed	Herbicide and Formulation	Mode of Action	Amount Formulation Per Acre	Pounds Active Ingredient Per Acre	Precautions and Remarks
Preplant to all Ornamentals					
Most annuals and perennials	dazomet MOA 27 (Basamid granular)	27	218 to 525 lb	216 to 520	Preplant soil fumigant. Dazomet is a restricted-use pesticide. Follow label directions and restrictions. Incorporate to 8 inches deep. Drench with water or cover with plastic for best results. Planting must be delayed until fumigant has dissipated from the soil. This may take a month or more.
	diquat dibromide MOA 22 (Reward) 2 L	22	1 to 2 qt	0.5 to 1	Non-selective, contact-type, postemergence control of seedling weeds. A nonionic surfactant should be added to the spray solution. Apply for full coverage and thorough weed contact. Retreatment will be necessary for established weeds. May be used in landscapes, nurseries, and greenhouses.
	glufosinate MOA 10 (Finale) 1 L	10	3 to 6 qt	0.75 to 1.5	Non-selective postemergence control of weeds. Thorough coverage is essential. Apply in a minimum of 20 gallons of water per acre. No residual control. Repeat applications may be necessary for control of perennial weeds.
	glyphosate MOA 9 (Roundup Pro, Touchdown Pro, and many others)	9	1 to 5 qt	1 to 5	Non-selective, systemic herbicide. Apply to emerged weeds prior to planting ornamentals.
	paraquat MOA 22 (Gramoxone Extra) 2.5 L	22	2 to 3 pt	0.6 to 0.9	Non-selective, contact herbicide. Apply when grass and weeds are 1 to 6 inches high and succulent for best results. Direct spray with low pressure to avoid contact with foliage or bark of crop less than 1 year old. Add nonionic surfactant, 0.25% by volume (2 pints per 100 gallons of water). Not for use in landscapes or greenhouses.
Post-plant Preemergence Weed Control					
Annual grasses and broadleaf weeds (preemergence) See label for susceptible species	benefin + oryzalin MOA 3 (XL) 1 + 1 G	3	200 to 300 lb	2 to 3 + 2 to 3	Apply preemergence to weeds. May be applied in spring and fall to ornamental plants.
	dichlobenil MOA 20 (Casoron) 4 G	20	100 to 150 lb	4 to 6	Do not use on fir, hemlock, <i>Ilex crenata</i> , <i>I. rotunda</i> , or <i>I. vomitoria</i> . Do not use more than 6 pounds per acre on azalea, rhododendron, boxwood, holly, euonymus, forsythia, leucothoe, ivy, lilac, heather, or any plantings less than 1 year old. Do not use in seedbeds, cutting, or transplant beds. Do not apply until 4 weeks after transplanting any plants. Apply in winter. http://content.ces.ncsu.edu/casoron-dichlobenil
	dithiopyr MOA 4 (Dimension) 2 EW 40 WP	4	2 pt 20 oz	0.5	Preemergence control of annual grasses and some small seeded broadleaf weeds in turf, landscape plantings, and nurseries. Use as a directed application around ornamental plants unless specified otherwise on the product label. See label for tolerant species and restrictions. http://content.ces.ncsu.edu/dimension-dithiopyr
	dimethenamid-p MOA 15 (Tower) 6 EC	15	21 to 36 oz	1 to 1.5	Preemergence control of annual sedges, annual grasses, and many annual broadleaf weeds in woody landscape plantings and field and container nurseries. Suppression of yellow nutsedge. Avoid foliar treatments over the top of early spring growth flushes as injury to ornamental plants can occur. http://content.ces.ncsu.edu/tower-dimethenamid-p
	dimethenamid-p + pendimethalin MOA 15 + 3 (Freehand) 1.75 (0.75 + 1) G	15 + 3	100 to 200 lb	1.75 to 3.5	Preemergence control of annual grasses and many broadleaf weeds from seed as well as suppression of yellow nutsedge in container and field nurseries and woody landscape plantings. http://content.ces.ncsu.edu/freehand-dimethenamid-p-pendimethalin
	flumioxazin MOA 14 (Broadstar) G	14	150	0.375	Preemergence control of most annual broadleaf and annual grasses in container and field-grown woody nursery crops. Not for use in landscape plantings. See label for species and precautions. Do not apply to wet foliage or newly potted liners. http://content.ces.ncsu.edu/broadstar-flumioxazin
	flumioxazin MOA 14 (Sureguard) DG	14	0.75 lb	0.375	Preemergence control of most annual broadleaf and annual grasses, and early postemergence control of seedling broadleaf weeds in field and container-grown woody nursery crops and certain landscape plantings. See label for species and precautions. https://content.ces.ncsu.edu/sureguard-flumioxazin
	imazaquin MOA 2 (Image) 1.5 LC	2	1 to 1.3 qt	0.4 to 0.5	Apply as a directed spray away from rooting zone. Labeled for over-the-top sprays on a few species.

Table 6-3. Chemical Weed Control in Ornamentals (continued)

Weed	Herbicide and Formulation	Mode of Action	Amount Formulation Per Acre	Pounds Active Ingredient Per Acre	Precautions and Remarks
Post-plant Preemergence Weed Control (continued)					
Annual grasses and broadleaf weeds (preemergence) See label for susceptible species (continued)	Indaziflam MOA 21 (Marengo) 0.0224% G	29	100 to 200 lb	0.022 to 0.044	Preemergence control of many annual weeds in container or field grown nursery crops. Not labeled for use in landscape plantings. See label for specific species. http://content.ces.ncsu.edu/marengo-indaziflam
	(Marengo) 0.622 SC		7.5 to 15.5 fl oz	0.036 to 0.075	Preemergence weed control in field grown nursery crops Use as a directed spray. Also for use as a ground treatment in container nurseries and greenhouses (and similar covered structures). When treating inside covered houses, structures should have no crop present at the time of treatment. See label for full details.
	Indaziflam MOA 21 (Specticle) 0.0224% G	29	100 to 200 lb	0.022 to 0.044	Preemergence control of many annual weeds in established woody landscape plantings. Do not use in areas planted to or to be planted to bedding plants. Labeled for use on a limited number of herbaceous perennials. The GR formulation is less injurious to ornamental plants than the SC formulation. The SC formulation should be applied as a directed spray, avoiding contact with the foliage of ornamental plants. Check labels for details.
	(Specticle) 0.622 SC		6 to 12 fl oz	0.029 to 0.058	
	isoxaben MOA 21 (Gallery) 75 DF (Gallery) 4.16 SC	21	0.66 to 1.33 lb 16 to 31 fl oz	0.5 to 1	Use as preemergence control of broadleaf weeds in many field and container grown ornamentals, turf, and landscape plantings. Generally used in combination with another herbicide for broader spectrum weed control. http://content.ces.ncsu.edu/gallery-isoxaben
	isoxaben + prodiamine MOA 21 + 3 (Gemini) 3.7 SC (1.5 + 2.2)	21 + 3	43.5 to 87 fl oz	1.25 (0.5 + 0.75) to 2.5 (1 + 1.5)	Preemergence control of weeds in field- and container-grown ornamentals and landscape plantings. See label for specific species.
	isoxaben + trifluralin MOA 21 + 3 (Snapshot TG) 2.5 G	21 + 3	100 to 200 lb	2.5 to 5	Preemergence control of weeds in field- and container-grown ornamentals and landscape plantings. See label for specific species. https://content.ces.ncsu.edu/snapshot-tg-isoxaben-trifluralin
	S-metolachlor MOA 15 (Pennant Magnum) 7.62 EC	15	1.3 to 2.6 pt	1.2 to 2.5	Preemergence control of annual grasses, annual sedges, and some annual broadleaf weeds including doveweed, as well as suppression of yellow nutsedge. Apply to soil surface immediately after planting. Avoid foliar treatments over the top of early spring growth flushes as injury to ornamental plants can occur. https://content.ces.ncsu.edu/pennant-magnum-s-metolachlor
	napropamide MOA 15 (Devrinol) 50 DF	15	8 to 12 lb	4 to 6	Apply preemergence to weeds and as a directed spray in ornamentals. Can be used in field or container nurseries or landscape plantings. If broadcast over top of ornamentals, irrigate soon after application to reduce risk of foliar injury. https://content.ces.ncsu.edu/devrinol-napropamide
	oryzalin MOA 3(Surflan) 4 AS	3	2 to 4 qt	2 to 4	Preemergence to weeds in field or container nurseries or landscape plantings. Apply only to established plantings. Do not use in seedbeds or transplant beds. Not recommended for use on soils containing more than 3% organic matter. Use higher rate for longer term control. Do not apply on hemlock. http://content.ces.ncsu.edu/surflan-oryzalin
	oxadiazon MOA 14 (Ronstar) 2 G	14	100 to 200 lb	2 to 4	Apply preemergence to weeds. Can be used on container- and field-grown ornamentals. Repeat applications are labeled for some species. Injury has been observed on ajuga, liriope, mondo, and fig. Granules may burn tender foliage of several species if irrigation is not used to wash them off. Caution: Plants that trap granules in leaf axil can be injured.
	oxyfluorfen MOA 14 (Goal) 2 XL (Galigan) 2E	14	5 to 10 pt	1 to 2	Preemergence and postemergence control of many broadleaf and grass weeds in conifers and dormant deciduous trees. Do not apply when conifers have young tender growth. Lower rates are used in conifer seedbeds and for postemergence treatments. https://content.ces.ncsu.edu/goal-goaltender-oxyfluorfen
	oxyfluorfen + oryzalin MOA 14 + 3 (Rout) 3 (2+1) G	14 + 3	100 lb	3 (2 + 1)	Apply preemergence to weeds. Can be used on container and field-grown ornamentals. Repeat applications are labeled. Injury is to be expected to herbaceous plants or to plants with leaf orientation that might trap granules. Check label for genera of plants on which it can be used.
	oxyfluorfen + oxadiazon MOA 14 (Regal OO) 3 (2 + 1) G	14 + 14	100 lb	3 (2 + 1)	Apply preemergence to weeds. May be used on container- or field-grown woody ornamentals, including liner production. Injury is to be expected to herbaceous plants or to plants with leaf orientation that might trap granules. Check label for genera of plants on which it can be used. https://content.ces.ncsu.edu/regal-o-o-oxyfluorfen-oxadiazon
	oxyfluorfen + pendimethalin MOA 14 + 3 (Ornamental Herbicide 2) 3 (2+1) G	14 + 3	100 lb	3 (2 + 1)	Apply preemergence to weeds. Can be used on container- and field-grown ornamentals. Repeat applications are labeled. Injury is to be expected to herbaceous plants or to plants with leaf orientation that might trap granules. Check label for genera of plants on which it can be used. https://content.ces.ncsu.edu/regal-o-o-oxyfluorfen-oxadiazon

Table 6-3. Chemical Weed Control in Ornamentals (continued)

Weed	Herbicide and Formulation	Mode of Action	Amount Formulation Per Acre	Pounds Active Ingredient Per Acre	Precautions and Remarks
Post-plant Preemergence Weed Control (continued)					
Annual grasses and broadleaf weeds (preemergence)	oxyfluorfen + prodiamine MOA 14 + 3 (Biathlon) 2.75 G	14 + 3	100 lb	2.75 (2 + 0.75)	Apply preemergence to weeds. Can be used on container- and field-grown ornamentals. Repeat applications are labeled. Injury is to be expected to herbaceous plants or to plants with leaf orientation that might trap granules. Check label for genera of plants on which it can be used. https://content.ces.ncsu.edu/biathlon-oxyfluorfen-prodiamine
See label for susceptible species (continued)	oxyfluorfen + trifluralin MOA 14 + 3 (HGH 75) 5 (2 + 3) G	14 + 3	100 lb	5 (2 + 3)	Preemergence control of annual grasses and broadleaf weeds in container- and field-grown woody ornamentals and landscape beds. Injury is to be expected to herbaceous ornamentals or plants with leaf orientation that might trap granules. https://content.ces.ncsu.edu/hgh-75-oxyfluorfen-trifluralin
	pendimethalin MOA 3 (Corral, Pendulum) several formulations	3	See label	2 to 4	Preemergence control of annual grasses and some broadleaf weeds in turf, landscape plantings, container and field-grown nursery crops, and Christmas trees. Pendulum Aqua Cap is labeled only for turf and landscape uses. See labels for details. https://content.ces.ncsu.edu/pendulum-aquacap-corral-pendimethalin
	prodiamine MOA 3 (Barricade) 65 WG, 4 FL (Regalkade) 0.5 G	3	1 to 1.15 lb 21 to 48 oz 150 lb	0.65 to 0.75	Apply preemergence to weeds. Labeled for use in turf, landscape plantings, and nurseries. See label for tolerant species and restrictions. https://content.ces.ncsu.edu/barricade-prodiamine-regalkade-g-prodiamine
	pronamide MOA 3 (Kerb) 50 WP	3	2 to 4 lb	1 to 2	Pre- and postemergence control of cool-season grasses and some annual broadleaf weeds from seed. Apply in late winter just before rain or snowfall. Not recommended for soils that are high in muck or peat. Check label for use restrictions.
	simazine MOA 5 (Princep) 4 L	5	2 to 3 qt	2 to 3	Apply preemergence to weeds in field nurseries and Christmas trees. Injury has occurred on azaleas, Japanese holly, euonymus, lilac, privet, pittosporum, mock orange, hemlock, boxwood, and several other broadleaf species. High rates will injure Fraser fir. https://content.ces.ncsu.edu/princep-simazine-simazine
	trifluralin MOA 3 (Preen) 1.47G (Treflan) 5 G	3	136 to 272 lb 80 lb	2 to 4 4	Preemergence to weeds. Irrigate after application. May injure some azalea cultivars.
Post-Plant, Postemergence Selective Grass Control					
Annual and perennial grasses (postemergence) See label for tolerant species	clethodim MOA 1 (Envoy and others)	1	8 to 34 fl oz	0.06 to 0.25	Postemergent grass control. Annuals 2 to 6 inches tall, perennials at 4 to 12 inches new growth. Add nonionic surfactant at 0.25% v/v (2 pints per 100 gallons) to final spray. https://content.ces.ncsu.edu/envoy-plus-clethodim
	fenoxaprop-P MOA 1 (Acclaim Extra) .57EC	1	13 to 39 oz	0.06 to 0.17	Apply to emerged grass using at least 40 gpa. Can be used overtop of many flowers and woody ornamentals. Check label. Injury has been observed on Bar Harbor juniper, philodendron, Salvia, Podocarpus, and Pittosporum when sprayed with this product.
	fluazifop-P MOA 1 (Fusilade II) 2 EC	1	2 to 3 pt	0.25 to 0.4	Postemergence grass control. Annuals not over 2 to 8 inches tall, perennials at 4 to 12 inches new growth. Consult label for tolerant species. Use nonionic surfactant and no oil. https://content.ces.ncsu.edu/fusilade-ii-fluazifop-p-butyl
	sethoxydim MOA 1 (Segment, Sethoxydim) 1 EC	1	36 to 60 oz	0.3 to 0.5	Postemergence grass control. Annuals up to 12 inches tall and 6 to 10 inches new growth on perennials. https://content.ces.ncsu.edu/segment-sethoxydim
Post-Plant, Postemergence Weed Control					
Annual grasses and broadleaf weeds (postemergence)	asulam MOA 18 (Asulox) 3.34 L	18	77 to 128 oz	2 to 7	Apply postemergence to weeds in many conifers.
	bentazon MOA 6 (Basagran TO) 4 L	6	1.5 to 2 pt	0.75 to 1	Postemergent directed to many established ornamentals for yellow nutsedge and seedling broadleaf weed control.
	clopyralid MOA 4 (Lontrel) 3 L	4	4 to 11 oz	0.09 to 0.25	Postemergence control of legume and many aster weeds. Can be used as a directed spray around on several field-grown woody ornamentals. Can be applied overtop of actively growing conifers transplanted 1 year or more. Apply when weeds are young and actively growing. https://content.ces.ncsu.edu/lontrel-clopyralid
	dichlobenil MOA 20 (Casoron) 4 G	20	100 to 150 lb	4 to 6	Pre- and postemergence control of many annual and perennial weeds. Do not use on fir, hemlock, Ilex crenata, I. rotunda, or I. vomitoria. Do not use more than 6 pounds per acre on azalea, rhododendron, boxwood, holly, euonymus, forsythia, leucothoe, ivy, lilac, heather, or any plantings less than 1 year old. Do not use in seedbeds, cutting, or transplant beds. Do not apply until 4 weeks after transplanting any plants. Winter applications are best. https://content.ces.ncsu.edu/casoron-dichlobenil

Table 6-3. Chemical Weed Control in Ornamentals (continued)

Weed	Herbicide and Formulation	Mode of Action	Amount Formulation Per Acre	Pounds Active Ingredient Per Acre	Precautions and Remarks
Post-Plant, Postemergence Weed Control (continued)					
Annual grasses and broadleaf weeds (postemergence) (continued)	diquat dibromide (Reward) 2 L	22	1 to 2 qt	0.5 to 1	Non-selective, contact-type, postemergence control of seedling weeds. A nonionic surfactant should be added to the spray solution. Apply for full coverage and thorough weed contact. Retreatment will be necessary for established weeds. May be used in landscapes, nurseries, and greenhouses.
	flumioxazin (Sureguard) DG	14	0.75 lb	0.375	Early-postemergence and residual control of many seedling annual broadleaf weeds in field and container-grown woody nursery crops and certain landscape plantings. See label for species and precautions. https://content.ces.ncsu.edu/sureguard-flumioxazin
	glufosinate (Finale) 1 L	10	3 to 6 qt	0.75 to 1.5	Non-selective postemergence control of weeds. Thorough coverage is essential. Apply in a minimum of 20 gallons of water per acre. No residual control. Repeat applications may be necessary for control of perennial weeds.
	glyphosate (Many formulations are available including Roundup-Pro Max, Touchdown Pro, and others)	9	1 to 5 qt	1 to 5	Non-selective postemergence, systemic control of weeds. DO NOT SPRAY GREEN BARK OR FOLIAGE of crop. Exercise extreme caution in applications near small plants. Use of a shielded sprayer can increase crop safety. Apply in 20 to 30 gallons of water per acre as a directed spray under shrubs or trees. No residual control. Repeat applications may be necessary for control of perennial weeds. https://content.ces.ncsu.edu/glyphosate-1
	imazaquin (Image) 1.5 LC	2	1 to 1.3 qt	0.4 to 0.5	Apply as a directed spray away from rooting zone. May injure landscape plants through foliar or root absorption. Read the label carefully before use.
	oxyfluorfen (Goal) 2 EC	14	1 to 2 pt	0.25 to 0.5	Pre- and postemergence control. Apply 1 to 2 pints of Goal 2 EC per acre as a postemergence application on some conifers. Add 0.25% (v/v) nonionic surfactant.
	paraquat (Gramoxone Extra) 2.8 L	20	2 to 3 pt	0.6 to 0.9	Non-selective postemergence control of weeds. Apply when grass and weeds are 1 to 6 inches high and succulent for best results. Direct spray with low pressure to avoid contact with foliage or bark of crop less than 1 year old. Add wetting agent to make 0.25% (2 pints per 100 gallons) by volume of spray for best results. Not for use in landscapes.
	pelargonic acid (Scythe)	27	3 to 10% by volume	na	Non-selective, contact-type control of seedling broadleaf and grass weeds. Use as a directed spray avoiding contact with foliage and stems of desirable plants. Thorough spray coverage is required. Use the lower concentration for small, succulent seedling weeds. Higher concentrations are needed for larger weeds. Repeated applications are generally required. May be used in landscapes, nurseries, and greenhouses.
Sedges (postemergence)	bentazon (Basagran T/O) 4 L	6	1.5 to 2 pt	0.75 to 1	Postemergence directed spray. For best results add 1 quart per acre crop oil concentrate. For yellow nutsedge and annual sedges; does not control purple nutsedge. May be used in nurseries or landscape plantings.
	halosulfuron (Sledgehammer) 75 DF	2	0.67 to 1.33 oz	0.031 to 0.062	Early postemergence control of yellow and purple nutsedge. Use only as a directed spray around established woody plants. Add 0.25% nonionic surfactant. For use in landscape plantings only. Not labeled for use in nurseries. https://content.ces.ncsu.edu/sledgehammer-halosulfuron
	imazaquin (Image) 1.5 LC	2	1 to 1.3 pt	0.4 to 0.5	Pre- or early postemergence control of purple nutsedge. Use as a directed spray. Labeled as an over the top spray on a few species. Add a nonionic surfactant. For use in landscape plantings only. Read label carefully before use.
	sulfentrazone (Dismiss) 4L	14	6 oz	0.188	Postemergence suppression of yellow and purple nutsedge, as well as several broadleaf weeds. Apply as a directed spray avoiding contact with foliage of desirable plants. Reapply when regrowth of treated weeds is observed. Do not exceed 12 ounces per acre per year. May be used in landscape plantings, as well as field and container nurseries.

Table 6-4. Weed Susceptibilities to Preemergence Herbicides

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Genus	Barricade/Regalkade	Biathlon	Broadstar/Sureguard	Casoron	Dacthal	Devrinol	Dimension	Freehand	Eptam	Gallery	Gemini	Goal	HGH 75	Marengo / Specticle	OH2	Pendulum	Pennant Magnum	Princep	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Tower	Trifluralin	XL
Broadleaf weeds																											
Ageratum, tropic	Ageratum														G												
Allysum, hoary	Berteroa	p	f	g	g	p	p		p	p	g	g	f	f	g	f	p	p	p	g	g	f	g	p	p	p	p
Artilleryweed	Pilea	g	g	g					g		f	g			g	g	g	p-f		g	g	g	f		g	p	
Aster	Aster				G						G	G										G					
Bedstraw	Galium												G	G					g								
Beggarweed, Florida	Desmodium																							F			
Bindweed, field (from roots)	Convolvulus	p	p	p	f	p	p	p	p	p	P		p	p	p	p	p	p	p	p	p	p	P	p	p	p	p
Bindweed, hedge (from roots)	Calystegia	p	p	p	f	p	p	p	p	p	p		p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
Bittercress	Cardamine	f	G	G	g	p		G	G		G	G	g	G	G	G	f	P	f	G	G	G	G	G	G	p	f
Bristly oxtongue	Picris											G															
Buckwheat, wild	Polygonum												G	G	G				g								
Burclover	Medicago			G							F	G	G	G	G							F					
Burnweed, American	Erechtites	p	g	G					g		p		g	g	G	g	p					g	p		g	p	
Bursage, Annual	Ambrosia											G															
Burweed, lawn	Soliva								F			G		G	G												
Buttercup	Ranunculus																										
Camphorweed	Heterotheca				G														g								
Carpetweed	Mollugo	G	g	G	G		G	G	G		F	G	G	G		g	G	F	G		G	g	F	G	G	G	G
Carrot, wild	Daucus				G		p				G	G			F				p				G	p			F
Catsear dandelion	Hypochoeris														G												
Chamberbitter	Phyllanthus	p	f	G	p			p	f		p	G	f-g	f	f	f	p	p		g	g	f	p-f	f	f-g	p	
Chamomile, false	Matricaria														F												
Chamomile, mayweed	Anthemis								G			G															
Chickweed, common	Stellaria	G	G	G	G		G	G	G	G	G	G	f	G	G	G	G	f	G	f	p	G	G	G	G	G	G
Chickweed, mouseear	Cerastium	g	g	G	G		p	G	G		G	G		g	G	g	G		p	f	p	g	G	p	G	g	g
Clover, hop	Trifolium								F																		
Clover, white (from seed)	Trifolium				g		p				G	G	G	G	G		p		f			G	G	p			

Table 6-4. Weed Susceptibilities to Preemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Genus	Barricade/Regalkade	Biathlon	Broadstar/Sureguard	Casoron	Dacthal	Devrinol	Dimension	Freehand	Eptam	Gallery	Gemini	Goal	HGH 75	Marengo / Specticle	OH2	Pendulum	Pennant Magnum	Princep	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Tower	Trifluralin	XL
Broadleaf weeds (continued)																											
Cocklebur, common	Xanthium				p		p						G	G			p	p	f							p	
Coffeeweed	Senna			G	G																						
Copperleaf	Acalypha																										
Cudweed	Gnaphalium		G		G		G		G		G	G		G	G	G	G	p	g	G			G	p			
Dandelion (seedling)	Taraxacum		G	G	G		p				G	G		G	G	G	p	p	f	G		G	G	g			f
Dandelion, false	Pyrrhopappus				G																						
Deadnettle, purple	Lamium				G					G									G	g							
Dock, curly or broadleaf	Rumex				G						P	f/c			G								P				
Dodder	Cuscuta						p																p	p			
Dogfennel	Eupatorium	p	g	G	G			p-f	f		F	G		g	g	g	p		g			f	g	G	p	f	
Evening primrose	Oenothera	p	g		G		p		G		f	P	G		G	g	G	f	g		F	G	G	g			
Eclipta	Eclipta	p	p	f	p			p	F		p	P	p	p	G	p	p	p		p	p	f	p	p-f	F	p	
Fiddleneck	Amsinckia								F			G															
Filaree, redstem	Erodium			G	g		G		F		G	G	G	G	G		G		G			g	G	G			
Filaree, whitestem	Erodium											G															
Fleabane	Erigeron		G		g						G	G			G	G			g				G	g			
Flixweed	Descurainia												G	G					g								
Florida Betony	Stachys	p	p	p	G	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
Galinsoga, hairy	Galinsoga	f		G	p		g		g	p	G	G	g	g			p	G	g		F		G	f	F	p	
Galinsoga, smallflower	Galinsoga																								F		
Geranium, Carolina	Geranium			G	g		g	G			G	G	G						f				G	g			
Goosefoot	Chenopodium										F	G		G									G				
Groundcherry	Physalis										G	G	G	G									G				
Groundsel, common	Sencio	p-f	G	G	G		G	p	f		f	f	G	G	G	G	p	p	G	G	p-f	G	F-G	F	F	p	F
Henbit	Lamium	G		G	G		g	G	G	G	G	F	G	G	G		f		G				G	G	f	g	G
Horseweed (marestail)	Conyza	f	G	G	G		f	F	g		G	G	F	g	G	G	p	f	g	G	f	G	G	F			
Jimsonweed	Datura		p	G	p		p				F	G	G	G		p	p	p	g			p	G	p		p	

Table 6-4. Weed Susceptibilities to Preemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Genus	Barricade/Regalkade	Biathlon	Broadstar/Sureguard	Casoron	Dacthal	Devrinol	Dimension	Freehand	Eptam	Gallery	Gemini	Goal	HGH 75	Marengo / Specticle	OH2	Pendulum	Pennant Magnum	Princep	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Tower	Trifluralin	XL
Broadleaf weeds (continued)																											
Knapweed, Russian or spotted	Centaurea				G																						
Knawel	Scleranthus																										
Knotweed, prostrate	Polygonum	f			G		G	p	G		F	F	G	G	G		G	g	f		g	g	G	G		G	G
Kochia	Kochia			G					F			F		G	G												
Ladysthumb	Polygonum			G							f	F	G	G					g				G				
Lambsquarters	Chenopodium	G		G	G		G	f	f	G	F	G	G	G	G		G	f	G		G	G	G	G	F	G	
Lettuce, prickly	Lactuca		g		g		G				G	G	G	G		g			G				G	F			
Liverwort (from spores)	Marchantia			G	p		p		F		p		p						p		P				G		
London rocket	Sysimbrium											G		G	F												
Mallow	Malva			G	p		F				F	P	G	G	G				p				F	F		p	
Marsh parsley	Cyclospermum	p	p	f					g		p	p	p	p	p	p	p	p		p	p	p	p	p	g	p	p
Maypops	Passiflora				G								G														
Mayweed (chamomile)	Anthemis			G							G			G					g				G		G		
Medic, black	Medicago							G			F	F			F							G	F				
Milkweed	Asclepias										P												P				
Morningglory, annual	Ipomoea			G	f		p		p		p	p	G	f			f	p	G		f		F	F		f	
Mugwort (from rhizome)	Artemesia	p	p	p	G	p	p	p	p	f	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
Mulberryweed	Fatoua	f-g	g	G			p		g		g	g	g	g		g	f	p-f		g	f	g	f-g	g	f	p	
Mullein, common	Verbascum																						F				
Mustard, black	Brassica											G			F												
Mustard, wild	Brassica, others			G	G		f	G			G	G	G	G	G			p	G		g	g	G	F			
Nettle, stinging	Urtica										F	G	G	G									F			G	
Nightshade, black	Solanum			G	g		p		G	G	G	G	G	G	G		p	G	G				G	F	G	f	
Nightshade, hairy	Solanum								G						G										G		
Parsley-piert	Aphanes			G																							
Parthenium	Parthenium	p-f	g	g					f		f-g	f-g	g		G	g	p	p-f		g		g	f-g		g		
Pearlwort	Sagina	g	G	f	p		p		G		g			G		G	g	g	p	G		G			p		

Table 6-4. Weed Susceptibilities to Preemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Genus	Barricade/Regalkade	Biathlon	Broadstar/Sureguard	Casoron	Dacthal	Devrinol	Dimension	Freehand	Eptam	Gallery	Gemini	Goal	HGH 75	Marengo / Specticle	OH2	Pendulum	Pennant Magnum	Princep	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Tower	Trifluralin	XL
Broadleaf weeds (continued)																											
Pennywort (from seed)	Hydrocotyle										G	G							g				G				
Pepperweed	Lepidium		G		g		g		F		G	G	G	G	f	G	g		G	G	f		G	g			g
Phyllanthus, long stalked	Phyllanthus	p	g	G				p-f	f		p	p-f	f-g	f-g	G	g	p	p		g	f-g	g	p-f	f	p-f	p	
Pigweed spp.	Amaranthus	G	G	G	G		G	p	f-g	f	p-f	G	G	G	f	G	G	f	G	G	G	G	G	G	G	G	
Pimpernel, scarlet	Anagallis										F	G	G	G							G		F				
Pineappleweed	Matricaria			G	G		G	F			G	G					p	f	G		g		G	g			
Plantain	Plantago			G	G		p	p			G	G			G			g	p				G	g			
Poinsettia, wild	Euphorbia			G																							
Pokeweed, common	Phytolacca	g									G	G	g				g	p	f		p	g		g			
Puncturevine	Tribulus			G					F						G		G									G	G
Purslane, common	Portulaca	G	g	G	G		G	F	G	G	G	G	G	G	G	g	G	f	G		G	G	G	G	G	G	G
Pusley, Florida	Richardia	G		G	G		p		G	G	F	G	G	G	G		G	G	G				F	G	G	G	
Radish, wild	Raphanus			g	G						G	G											G				
Ragweed, common	Ambrosia	f		G	G		F	p	F		f		f		F		p	p	G		g		G	F	F	p	
Redmaids	Calandrinia			G								G		G	G												
Redweed	Melochia			G																							
Rocket, London	Sysimbrium								F						G												
Sesbania, hemp	Sesbania			G											F												
Shepherdspurse	Capsella	G	G	G	G		g	G	G		G	G	G	G	G	G	G		G	G	G	G	G	G	G		
Sida, prickly	Sida	p		G			p				G	G	G	G	G		g	p	g		g		G	F			
Smartweed	Polygonum			G	G		g		F		f	F	G	G			f	f	G		G		G	F		f	
Sorrel, red	Rumex				g		p				G	G	F	G					p				G				
Southern waterbuttons	Cotula											G			F												
Sowthistle, annual	Sonchus	p	G	G	g		G		f		G	G	G	G	G	G	g		f		G	G	f-g	F	f		
Spanishneedles	Bidens				G							F							g								
Speedwell spp.	Veronica			G	g		p	F	G		G	G	G		G		G		G		G		G				
Spurge, garden	Chamaesyce	g	f	g				f-g	g		f	g	f	f	g	f	f-g	f		f-g	f	f	f-g	g	g	f	g

Table 6-4. Weed Susceptibilities to Preemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Genus	Barricade/Regalkade	Biathlon	Broadstar/Sureguard	Casoron	Dacthal	Devrinol	Dimension	Freehand	Eptam	Gallery	Gemini	Goal	HGH 75	Marengo / Specticle	OH2	Pendulum	Pennant Magnum	Princep	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Tower	Trifluralin	XL
Broadleaf weeds (continued)																											
Spurge, hyssop	Chamaesyce	g	f	g				f	G		f	F	f	f	g	f	f	p-f		f	p-f	f-g	f	g	g		
Spurge, petty	Euphorbia	p	g	G					f		f	F			p-f	g	p	p			p-f	g	p	p-f	f	p	
Spurge, spotted	Chamaesyce	g	f-g	G	G	f	p	G	G		f	G	f	f	G	f-g	f	p	f	f	p-f	f-g	f	g	G	p	f
Spurry, corn	Spergula				p		p			G			G	G					p								
Spurry, sand	Spurgularia	g									g		G						g					g			
Sweetclover, yellow	Melilotus											G															
Sunflower	Helianthus											G			F												
Swinecress	Corronopus										F	G			G								F				
Tansymustard, green	Descurainia											G															
Tassleflower	Emilia	p	f	G					G		p	p		f	G	f	p	p				f	p		f		
Telegraphplant	Heterotheca											G															
Thickhead	Crassocephalum		g	G					f-g					g	g	g	p	p		f	f	g	p				
Thistle, Bull	Cirsium				G						G		G	G													
Thistle, Canada (from seed)	Cirsium			G	G		p								G				p							G	
Thistle, Musk	Carduus										F	G											G				
Thistle, Russian	Salsola			G	G						G	G	G	G					G				G			G	
Turkey mullein	Croton											G															
Velvetleaf	Abutilon	f		G	p		p	p	F		F		G	G	F		G	g	f		g		G	F		p	p
Venice mallow	Hibiscus											P															
Vetch	Vicia											f			F												
Virginia winged rockcress	Sibara											G															
Yellow cress, annual	Rorippa			g					g		g	g			g		g	p					g		p		
Yellow Rocket	Barabea			G	G																						
Waterhemp, common	Amaranthus																								G		
Waterhemp, tall	Amaranthus																								G		
Willowherb	Epilobium	p	f	G					g		p	p	f	f	G	f	p	p		g	g	f	p	g	f	p	f
Woodsorrel (Oxalis)	Oxalis	G	G	G	G		p	g	G		G	F	G	G	F	G	G	p	p	G	G	G	G	G	g	f	F

Table 6-4. Weed Susceptibilities to Preemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

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Grasses																											
Barley, mouse	Hordeum														G												
Barnyardgrass	Echinochloa	G	G	f			G	G	G	G	p	G	F	G	G	G	G	G	f	G	G	G	G	G	G	G	G
Bermudagrass (from rhizomes)	Cynodon	p	p	p	f	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
Bluegrass, annual	Poa	G	G	f	G		G	G	G	G	p	G	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Bluegrass, roughstalk	Poa								G																G		
Brome, California	Bromus								G																G		
Brome, downy	Bromus						G	G	G	G	p			G					G			G	g	G	G		
Brome, foxtail	Bromus														G												
Cheat	Bromus														G												
Crabgrass, large	Digitaria	G	G	F	G	f	G	G	G	G	p	G	F	G	G	G	G	G	p-f	G	G	G	G	G	G	G	G
Crabgrass, smooth	Digitaria	G	g	F	G	f	G	G	G	G	p	G	f	G	G	g	G	G	p-f	G	G	g	G	G	G	G	G
Crowfootgrass	Dactyloctenium							G	F		p	G					G	G	p					G			G
Cupgrass, Southwestern	Eriochloa								G																G		
Cupgrass, wooly	Eriochloa								F			G													G		
Fescue, ratttail	Vulpia											G													G		
Fescue, tall (from seed)	Festuca (=Schedonorus)	g			G		f	g			p						g		f		g		g	g		f	
Foxtail (yellow, green)	Setaria	G	g	F	G		G	G	G	G	p	G		G	G	g	G	G	f		G	G	F	G	G	G	G
Foxtail, giant	Setaria	G	g	F	G		G	G	G	G	p	G	F	G	G	g	G	G	f			g	G	G	G	G	G
Goosegrass	Eleusine	G	g	F	p	p	G	G	G	G	p	G	F	G	G	g	G	G	G	G	G	G	G	G	G	G	G
Guineagrass	Panicum														G												
Itchgrass	Rottboellia								F		p	G					G		p								
Johnsongrass (rhizome)	Sorghum	p	p	p	f	p	p	p	p	p	p		p	p		p	p	p	p	p	p	p	p	p	p	p	p
Johnsongrass (seedling)	Sorghum	G	g				F		G	F	p	G	f	G		g	G	f	p		f	g	F	G	F	f	G
Junglerice	Echinochloa								F			F															

Table 6-4. Weed Susceptibilities to Preemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Genus	Barricade/Regalkade	Biathlon	Broadstar/Sureguard	Casoron	Dacthal	Devrinol	Dimension	Freehand	Eptam	Gallery	Gemini	Goal	HGH 75	Marengo / Specticle	OH2	Pendulum	Pennant Magnum	Princep	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Tower	Trifluralin	XL
Lovegrass	Eragrostis			F					F			G		G	G												
Grasses (continued)																											
Millet, wild	Panicum																								F		
Orchardgrass	Dactylis				G						p							p	f					g			
Panicum, browntop	Panicum								F			G															
Panicum, fall	Panicum			F			G		F	g	p	G		G			G	G	G		G	G	G	G	G		
Panicum, Texas	Panicum	G		F			G		F		p	G		G			G					F	F	G	F	G	
Quackgrass (from rhizome)	Elymus	p	p	p	G	p	p	p	p	G	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
Quackgrass (from seed)	Elymus				g						p																
Red rice	Oryza								G																G		
Rescuegrass	Bromus											G															
Ryegrass, annual	Lolium	g	g		g		G	G	G	G	p		f		G	g		g	G		g	g	G	G	G		
Ryegrass, perennial	Lolium														G												
Sandbur	Cenchrus						G		G	G	p			G	G		G	f	p			g	G		G	G	G
Shattercane	Sorghum									G	p								p				p		F	G	
Signalgrass, broadleaf	Brachiaria	G							G		p	G		G			G	G	G					G	F		
Smutgrass	Sporobolus							G			p								p								
Sprangletop	Leptochloa						G		F		p	G					G		p				G				G
Stiltgrass, Japanese	Microstegium	g					f	g	p		p				f-g		g	p			f		f	g	p-f	f	
Witchgrass	Panicum						G		G		p	G	F	G			G	G	G				G	G	G		
Sedges and other monocots																											
Kyllinga (from seed)	Kyllinga			G					F						G										g		
Nutsedge, purple	Cyperus	p	p	p	f	p	p	p	p	F	p		p	p	p	p	p	p	p	p	p	p	p	p	f	p	p
Nutsedge, yellow	Cyperus	p	p	p	G	p	p-f	p	F	f	p		p	p	p	p	p	F	p	p	p	p	p	p	F	p	p
Sedge, annual	Cyperus		f						g		p				F	f	f	g				f	p		G		
Sedge, rice flat-	Cyperus	p	f	p				f	G		p	f-p			F	f-g	f	g				f-g	p-f		G	p	
Doveweed	Murdannia		f-p	g					G			p		f-p	G	f-p		f-g				f-p			G		

Table 6-4. Weed Susceptibilities to Preemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Genus	Barricade/Regalkade	Biathlon	Broadstar/Sureguard	Casoron	Dacthal	Devrinol	Dimension	Freehand	Eptam	Gallery	Gemini	Goal	HGH 75	Marengo / Specticle	OH2	Pendulum	Pennant Magnum	Princep	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Tower	Trifluralin	XL
Onion or garlic, wild	Allium	p	p	p		p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	
Non-flowering plants																											
Bracken Fern	Pteridium				G															p							
Horsetail (Equisetum) (from rhizomes)	Equisetum	p	p	p	G	p	p	p	p		p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	

Table 6-5. Weed Susceptibilities to Postemergence Herbicides

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on other research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Acclaim Extra	Envoy	Fusilade II	Segment	Asulox	Basagran TO	Casoron	Dismiss	Garlon	Goal	Image	Kerb	Lontrel	Sedgehammer	Sureguard	Gramoxone	Finale	Reward	Glyphosate	Scythe
Broadleaf weeds																				
American Burnweed	P	P	P	P										p	f	f	f	f	g	f
Artichoke	P	P	P	P									G							F
Aster	P	P	P	P			G										G		g	F
Bedstraw	P	P	P	P				f		F									f	F
Betony, Florida	P	P	P	P			G		p				p						F	
Bindweed, field	P	P	P	P					G								G		f	P
Bindweed, hedge	P	P	P	P					G								G		f	P
Bittercress	P	P	P	P				f			G					g		g	G	F
Blackberry	P	P	P	P					G							f	F	f	G	P
Buckwheat, wild	P	P	P	P						F									g	F
Burclover	P	P	P	P						G							g	f	f	F
Buttercup	P	P	P	P				f			G						f	f	G	F
Camphorweed	P	P	P	P			G										f	f	g	F
Carpetweed	P	P	P	P			G	f		G						g	g	g	g	G
Carrot, wild	P	P	P	P			G									g	f	f	g	F
Chamberbitter	P	P	P	P													g	g	g	
Chickweed, common	P	P	P	P		f	G	f		f	G	G		p		g	G	g	G	G
Chickweed, mouseear	P	P	P	P			G	f			G	G				g	G	g	G	F
Clematis	P	P	P	P												f		f	f	P
Clover, white	P	P	P	P		p		f		F	G					f	G	f	G	P
Cocklebur, common	P	P	P	P						G			G			g	G	g	G	F
Coffeeweed	P	P	P	P			G						G							F
Copperleaf	P	P	P	P				f					p	p	f	G	g	f	g	f
Cudweed	P	P	P	P			G	f			F					g	g	g	g	F
Dandelion	P	P	P	P			G	F	G	f	F		G			g	G	g	G	F
Deadnettle, purple	P	P	P	P			G				G						g	f	g	G
Dock, curly or broadleaf	P	P	P	P			G	F	G				G				G	p	g	P
Dodder	P	P	P	P												g		g		G
Dogfennel	P	P	P	P			G									f	f	f	g	P
Dollarweed (Hydrocotyle)	P	P	P	P		p	p	f	p	p	G		p	p	p	p	f	p	f	p
Eclipta	P	P	P	P		f		f					g	f			f	f	G	F
Evening primrose	P	P	P	P			G	f		f	G					g	g	g	f	F
Falsedandelion	P	P	P	P			G										f	p	G	F
Filaree, redstem	P	P	P	P				f		F						g	f	g	G	F
Fleabane	P	P	P	P									g			g	G	g	G	F
Flixweed	P	P	P	P						F										G
Galinsoga, hairy	P	P	P	P				f		f			g			g	g	g	g	F
Geranium, Carolina	P	P	P	P				f			G					g	f	g	g	F
Goosefoot	p	p	p	p			G						p				g		g	
Groundsel, common	P	P	P	P		p	G			F			G	g		g	g	g	G	F
Ground ivy	P	P	P	P		p	g	f	f	p			p	p			f	f	g	f
Henbit	P	P	P	P		p	G			G	G					g	g	g	G	G
Honeysuckle	P	P	P	P												f	p	p	G	P

Table 6-5. Weed Susceptibilities to Postemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on other research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Acclaim Extra	Envoy	Fusilade II	Segment	Asulox	Basagran T0	Casoron	Dismiss	Garlon	Goal	Image	Kerb	Lontrel	Sedgemoor	Sureguard	Gramoxone	Finale	Reward	Glyphosate	Scythe
Broadleaf weeds (continued)																				
Horseweed (marestail)	P	P	P	P	g								G	f		f	G	f	G	F
Jimsonweed	P	P	P	P						F			G			g	G	g	g	F
Knapweed, Russian	P	P	P	P			G						G							F
Knawel	P	P	P	P				f			G						g	g	g	G
Knotweed, prostrate	P	P	P	P			G	f		F						g		g	G	F
Ladysthumb	P	P	P	P		F				F			G				g	f	g	F
Lambsquarters	P	P	P	P		G	G		G	G				f		f	G	f	G	P
Lespedeza	P	P	P	P				f								f		f	G	F
Lettuce, prickly	P	P	P	P					G	F			G			g	G	g	G	G
Liverwort	P	P	P	P						p						g		f	P	F
Locust	P	P	P	P					G							f	p	p	G	P
Loosestrife	P	P	P	P			G												g	F
Mallow	P	P	P	P				f		F						g	G	g	g	F
Maypops	P	P	P	P			G										p	p	f	P
Mayweed (chamomile)	P	P	P	P						G			G						G	F
Medic, black	P	P	P	P							G								g	F
Morningglory, annual	P	P	P	P				g		F						g	f	f	f	F
Mugwort	P	P	P	P			G		f				f			f	f	p	f	p
Mulberryweed	p	p	p	p		p			f	p			p			g	g	f	g	f
Mustard, wild	P	P	P	P		G				G						g	G	g	G	F
Nettle, stinging	P	P	P	P						F							G			F
Nightshade, black	P	P	P	P						F			G			g	G	g	G	F
Parsley-piert	P	P	P	P				f			G									F
Pearlwort	P	P	P	P		p								p		g		g	g	G
Pennywort (=dollarweed)	P	P	P	P		p	p	f	p	p	G		p	p	p	p	f	p	f	p
Pepperweed	P	P	P	P			G			F						g	g	g	g	F
Pigweed spp.	P	P	P	P		p	G	F		F						g	G	g	G	G
Pimpernel, scarlet	P	P	P	P						F									g	G
Pineappleweed	P	P	P	P			G	f					G			f		f	g	F
Plantain	P	P	P	P			G	F	G				p			g	f	p	g	F
Poison ivy (oak)	P	P	P	P					G							f	G	f	G	P
Broadleaf weeds, cont.																				
Pokeweed, common	P	P	P	P													f	f	f	F
Puncturevine	P	P	P	P				f								f	f	f	g	f
Purslane, common	P	P	P	P			G	f		G				g		g	G	g	g	G
Pusley, Florida	P	P	P	P			G	f								g		f	G	G
Radish, wild	P	P	P	P			G												g	G
Ragweed, common	P	P	P	P		F	G		G	f			G			g	G	g	G	G
Sandspurry	P	P	P	P						G									g	G
Shepherdspurse	P	P	P	P			G	f		F						g	G	g	G	G
Sida, prickly	P	P	P	P						F						f		f	g	F
Smartweed	P	P	P	P			G	f	G	F			G			f	G	f	G	F
Sorrel, red	P	P	P	P			G	F		F	G		G			f		f	g	F
Spanishneedles	P	P	P	P			G												G	G

Table 6-5. Weed Susceptibilities to Postemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on other research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Acclaim Extra	Envoy	Fusilade II	Segment	Asulox	Basagran TO	Casoron	Dismiss	Garlon	Goal	Image	Kerb	Lontrel	Sedgehammer	Sureguard	Granoxone	Finale	Reward	Glyphosate	Scythe
Broadleaf weeds (continued)																				
Speedwell spp.	P	P	P	P			G	G	f	F			p			g		g	G	G
Spurge, prostrate	P	P	P	P			G				p			f		g		g	G	F
Spurge, spotted	P	P	P	P		p	G	f						f		g		g	G	F
Spurry, corn	P	P	P	P						F						g		g	g	G
Thistle, bull	P	P	P	P		g							f			p	f	p	f	F
Thistle, Canada	P	P	P	P			G		G				G			f	G	f	G	p
Thistle, musk	p	p	p	P									G				F	p	g	p
Thistle, Russian	p	p	P	P			G			F							G	p	g	p
Trumpet creeper	P	P	P	P												f	p	p	F	P
Vetch	P	P	P	P		p			G							f	f	f	p	F
Virginia creeper	P	P	P	P					g							f	f	p	g	P
Violet, annual	P	P	P	P			F	f	F				p	p	f	g	f	f	f	f
Willowherb	P	P	P	P													g	g	g	f
Woodsorrel, yellow	P	P	P	P		p	G	f					p	f		g	G	g	g	F
Yellow, Rocket	P	P	P	P			G										G	f	G	F
Grasses																				
Barnyardgrass	G	G	G	G		p			P	F			p			g	G	f	G	P
Bermudagrass	F	G	G	G		p		p	P				p	p		f	G	p	G	P
Bluegrass, annual	P	G				p		p	P	F	F	G	p	p		g	G	p	G	f
Brome, downy			G			p			P			G	p				G	f	G	
Crabgrass, large	G	G	G	G		p			P	G			p	p		g	G	f	G	f
Crabgrass, smooth	G	G	G	G		p			P				p			g	G	f	G	f
Crowfootgrass		G				p							p							
Fescue, tall	P	F	f	F		p	G	p	P		F	G	p	p		g	f	p	G	P
Foxtail (yellow, green)	G	G	G	G		p	G		P				p			g	G	f	G	f
Foxtail, giant	G	G	G	G		p	G		P	F			p			g	G	f	G	f
Goosegrass	G	G	G	G		F	p		F	P	F		p			g	G	f	G	f
Johnsongrass (mature)	F	F	G	G		p		p	P				p	p		f	p	p	G	P
Orchardgrass	p	F	f	F		p	G	p	P			G	p	p		p	p	p	G	P
Panicum, fall	G	G	G	G		p			P	f			p			p	G	f	G	f
Panicum, Texas		G	G	f		p	G						p				f	f	G	
Quackgrass	p	G	G	G		p	G		P			G	p	p		p	f	p	G	P
Ryegrass, annual	P	G	G	G		p		p	P			G	p	p		f	f	p	G	p
Sandbur	G	G	G	G					P		G		p			f	G	f	G	
Shattercane		G	G	G									p				G		G	
Signalgrass, broadleaf		G	G	G					P				p			f	G	f	G	
Sprangletop	G	G		G									p						G	
Stiltgrass, Japanese	G	g	g	g												f	g	f	g	
Witchgrass		G					G			F			p						G	
Other grass-like monocots																				
Dayflower	P	P	P	P			f										f		f	F
Doveweed	P	P	P	P				p		p			p	p	p-f	p	p	p	p	p
Nutsedge, purple	p	p	p	p		p	p	f	F	p	p	G	p	p	G		f	g	f	g
Nutsedge, yellow	p	p	p	p		p	f	G	G		G		p	G		f	G	f	g	P

Table 6-5. Weed Susceptibilities to Postemergence Herbicides (continued)

Based on label: G = good control (80-100%); F = fair control (50-80%); P = poor control (0-50%); Based on other research: g = good control (80-100%); f = fair control (50-80%); p = poor control (0-50%)

Weed Species	Acciaim Extra	Envoy	Fusilade II	Segment	Asulox	Basagran TO	Casoron	Dismiss	Garlon	Goal	Image	Kerb	Lontrel	Sedgehammer	Sureguard	Gramoxone	Finale	Reward	Glyphosate	Scythe
Other grass-like monocots (continued)																				
Onion or garlic, wild	P	P	P	P				f			G						G		f	P
Sedge, annual	p	p	p	p	p	G	p	G	p	p	g	p	p	g	p	f	g	f	g	f
Non-flowering plants																				
Bracken fern	P	P	P	P			G												p	P
Horsetail (Equisetum)	p	p	p	p	F	p	G						p	f		p		p	f	P
Moss	P	P	P	P												f		f	P	F

Table 6-6. Preemergence Herbicides Registered for Use on Woody Ornamentals

F = registered for use in the field (or landscape)

C = registered for use in containers

f/c = registered for both field and container use

d = registered for directed applications only

Ø = label prohibits use on this species

F*, C*, or f/c* = registered for some species or cultivars; consult label for details

Ø* = prohibited for some cultivars within a species; consult label for details

Genus and species (Index of common names, by genus, is available in Table 6-9.)	Barricade	Biathlon	Broadstar	Casoron	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Goal	HGH 75	Image	Kerb	Marengo/Specticle G	Marengo/Specticle SC	OH2	Pendulum (EC)	Pendulum (granule)	Pennant Magnum	Princep	Regalkade	Regal 00	Ronstar G	Rout	Snapshot TG	Surflan	Sureguard	Tower	Treflan	XL	
Abelia spp.					F	f/c							Ø							F			f/c						f/c			
<i>Abelia x grandiflora</i>	f/c*	f/c*	f/c		F	f/c	F*	f/c	f/c*	f/c*		f/c*	Ø			d	f/c	f/c	f/c	f/c		f/c*	f/c		f/c	f/c	F			f/c*	F	
<i>Abeliophyllum distichum</i>			f/c											F																		
Abies spp.	F				F	f/c								F						F		F							f/c*			
<i>Abies balsamea</i>	F		f/c		F	f/c			f/c	f/c		f/c		F				f/c	f/c	F	F	F				f/c	F			f/c	F	
<i>Abies bommuelleriana</i>	F				F	f/c						f/c		F						F		F						f/c		f/c		
<i>Abies concolor</i>	F				F	f/c			F	f/c				F				f/c	f/c	F	F	F				F	F	f/c			F	
<i>Abies fraseri</i>	F		f/c		F	f/c	F	f/c			F			F		d		f/c	f/c	F	F	F					F	f/c	f/c		F	
<i>Abies grandis</i>	F		f/c		F	f/c					F			F						F		F					F	f/c			F	
<i>Abies koreana</i>	F		f/c		F	f/c								F						F		F										
<i>Abies lasiocarpa</i>	F				F	f/c								F						F		F					F	f/c			F	
<i>Abies procera</i>	F		f/c		F	f/c					F			F						F		F						f/c				
<i>Abies veitchi</i>	F				F	f/c								F						F		F					F				F	
Acacia spp			f/c						f/c*	f/c*		f/c*					f/c*		f/c*				f/c	f/c		f/c*	F			f/c*	F*	
Acer spp.				F	F	F		f/c*						F						F			f/c	f/c			F	f/c			F	
<i>Acer ginnala</i>			f/c	F	F	F	f/c*		f/c			f/c		F						F			f/c	f/c		f/c	F	f/c		f/c	F	
<i>Acer griseum</i>				F	F	F								F					f/c	F			f/c	f/c			F	f/c			F	
<i>Acer negundo</i>				F	F	F		f/c						F						F	F		f/c	f/c			F	f/c	f/c		F	
<i>Acer nigrum</i>				F	F	F					F			F						F			f/c	f/c			F	f/c			F	
<i>Acer palmatum</i>	f/c		f/c	F	F	F	F	f/c	f/c			f/c*		F	f/c	d	f/c*	f/c	f/c	F		f/c	f/c	f/c	f/c	f/c*	f/c*	F	f/c	f/c	f/c*	F
<i>Acer pensylvanicum</i>			f/c	F	F	F								F						F			f/c	f/c			F	f/c			F	
<i>Acer platanoides</i>	f/c			F	F	F	F					f/c		F				f/c	f/c	F		f/c	f/c	f/c			F	f/c		f/c	F	
<i>Acer rubrum</i>			f/c	F	F	F	f/c*	f/c	F*		F	f/c*		F	f/c	d		f/c	f/c	f/c			f/c	f/c		F	F	f/c	f/c	f/c*	F	
<i>Acer saccharinum</i>				F	F	F	F		f/c			f/c		F						F			f/c	f/c		f/c	F	f/c		f/c	F	

Table 6-6. Preemergence Herbicides Registered for Use on Woody Ornamentals (continued)

F = registered for use in the field (or landscape)

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<i>Acer saccharum</i>				F	F	F	F	f/c			F	f/c		F		d		f/c	f/c	F			f/c	f/c			F	f/c	f/c	f/c	F
<i>Actinidia</i> spp.									F	f/c															F	F				f/c	F
<i>Actinidia arguta</i>															f/c																
<i>Actinidia chinensis</i>	f/c																					f/c								f/c	F
<i>Aesculus</i> spp.																												f/c			
<i>Aesculus glabra</i>														F		d												f/c			
<i>Aesculus pavia</i>																		f/c	f/c									f/c			
<i>Agave</i> americana									F			f/c													F	F			f/c	f/c	F
<i>Akebia</i> quinata	f/c									f/c																					
<i>Albizia</i> julibrissin									f/c	f/c																					
<i>Alnus glutinosa</i>						F												f/c	f/c												
<i>Amelanchier</i> spp.						F		f/c																							
<i>Amelanchier alnifolia</i>									f/c	f/c														f/c							
<i>Amelanchier canadensis</i>															f/c																
<i>Amelanchier laevis</i>																		f/c	f/c												
<i>Andromeda</i> polifolia							F*		f/c	f/c															f/c						
<i>Anisodonte</i> hypomandarum										f/c																					
<i>Arbutus</i> spp.																		f/c	f/c												
<i>Arctostaphylos</i> spp.										f/c																	F*				F*
<i>Arctostaphylos densiflora</i>										f/c																					

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<i>Arctostaphylos uva-ursi</i>				F			F		f/c										f/c					f/c	f/c						
<i>Arctostaphylos stanfordiana</i>																															F
<i>Ardisia japonica</i>									f/c	f/c																f/c					
<i>Aronia spp.</i>																d															
<i>Aucuba spp.</i>					F	F														F											
<i>Aucuba japonica</i>	f/c				F	F			f/c*	f/c*					f/c	d		f/c	f/c	f/c*		f/c									
<i>Baccharis pilularis</i>										f/c																					
<i>Bauhinia galpinii</i>										f/c																					
<i>Berberis spp.</i>				F	F			f/c						F		d				F	F		f/c	f/c					f/c		
<i>Berberis julianae</i>	f/c			F	F									F						F	F	f/c	f/c	f/c							
<i>Berberis thunbergii</i>	f/c	f/c	f/c	F	F		F*		f/c*	f/c*		f/c*		F			f/c*	f/c	f/c	F	F	f/c	f/c	f/c	f/c*	f/c*	f/c*		f/c	f/c*	f/c*
<i>Berberis verruculosa</i>	f/c			F	F									F						F	F	f/c	f/c	f/c							
<i>Berberis x gladwynensis</i>	f/c		f/c	F	F				f/c			f/c		F				f/c	f/c	F	F	f/c	f/c	f/c		f/c				f/c	
<i>Berberis x mentorensis</i>	f/c			F	F				f/c			f/c		F						F	F	f/c	f/c	f/c		f/c				f/c	
<i>Betula spp.</i>			f/c	F	F			f/c						F		d				F			f/c					f/c	f/c		
<i>Betula nigra</i>			f/c	F	F		F		f/c	f/c	F	f/c		F		d		f/c	f/c	f/c			f/c			f/c	F	f/c		f/c	F
<i>Betula papyrifera</i>			f/c	F	F				F	f/c		f/c		F			f/c			F			f/c	f/c		F	F	f/c		f/c	F
<i>Betula pendula</i>			f/c	F	F	F			f/c	f/c		f/c		F				f/c	f/c	F			f/c				F	f/c		f/c	F
<i>Bougainvillea spp.</i>	f/c					f/c	f/c*		f/c*			f/c			f/c					F		f/c		f/c*	f/c*	f/c*	F*			f/c*	F*
<i>Brachychiton populneus</i>									f/c	f/c		f/c																		f/c	

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<i>Bucida buceras</i>										f/c																						
<i>Buddlieia davidii</i>	f/c*	f/c	Ø					f/c		f/c*					f/c	d			f/c			f/c*		f/c			f/c		f/c			
<i>Butia spp.</i>																		f/c	f/c													
<i>Buxus spp.</i>				F	F	f/c		f/c						F						f/c			f/c						f/c*			
<i>Buxus harlandii</i>				F	F	f/c								F						f/c			f/c									
<i>Buxus microphylla</i>	f/c	f/c*	f/c	F	F	f/c	f/c*	f/c*	f/c*	f/c*		f/c		F	f/c	d	f/c*	f/c	f/c	f/c	f/c		f/c	f/c	f/c	f/c*	f/c*	f/c*		f/c*	f/c*	
<i>Buxus sempervirens</i>				F	F	f/c	f/c*	f/c	f/c	f/c		f/c		F			f/c*	f/c	f/c	f/c			f/c	f/c	f/c*	f/c	f/c		f/c	f/c	f/c	
<i>Buxus sinica</i>		f/c*																														
<i>Callicarpa spp.</i>																																
<i>Callistemon spp.</i>	f/c		f/c			f/c															F		f/c						f/c			
<i>Callistemon citrinus</i>	f/c		f/c			f/c	f/c*	f/c	f/c*			f/c			f/c		f/c	f/c	f/c		F	f/c	f/c			F	f/c			f/c	f/c	
<i>Callistemon lanceolatus</i>	f/c		f/c			f/c															F		f/c									
<i>Callistemon viminalis</i>	f/c		f/c			f/c			f/c			f/c									F	f/c	f/c			f/c				f/c		
<i>Calluna spp.</i>						f/c											Ø*															
<i>Calluna vulgaris</i>	f/c			F		f/c			f/c	f/c*		f/c						f/c	f/c			f/c		f/c		f/c					f/c	
<i>Camellia spp.</i>				F	F	f/c		f/c												F			f/c						f/c			
<i>Camellia japonica</i>			f/c	F	F	f/c	f/c*		f/c	f/c		f/c			f/c	d	f/c*	f/c	f/c	F			f/c	f/c	f/c*	f/c					f/c	
<i>Camellia sasanqua</i>				F	F	f/c	f/c*					f/c			f/c	d	f/c			F			f/c	f/c							f/c	
<i>Campsis x tagliabuana</i>										f/c*																						
<i>Caragana arborescens</i>																					F											
<i>Carissa spp.</i>						F*																		f/c*								
<i>Carissa grandiflora</i>																		f/c	f/c						f/c*							

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<i>Carya illinoensis</i>			f/c	F		F			F		F							f/c	f/c							F	f/c	f/c		f/c	f/c
<i>Caryopteris spp.</i>																d													f/c		
<i>Caryopteris x clandonensis</i>								f/c	f/c*						f/c											f/c*					
<i>Castanea spp.</i>			f/c								F																	f/c			
<i>Castanea mollissima</i>			f/c								F	f/c																f/c		f/c	
<i>Catalpa bignoniaceae</i>																d															
<i>Ceanothus spp.</i>				F				f/c	F			f/c			Ø*		f/c	f/c	f/c			f/c*				F	f/c		f/c	f/c	f/c
<i>Ceanothus americanus</i>				F					F			f/c					f/c	f/c	f/c					f/c		F	f/c			f/c	f/c
<i>Ceanothus prostratus</i>				F					F			f/c					f/c	f/c	f/c							F	f/c			f/c	f/c
<i>Cedrus spp.</i>						f/c								F																	
<i>Cedrus atlantica</i>						f/c								F										f/c			f/c				
<i>Cedrus deodara</i>			f/c			f/c								F													f/c				
<i>Celtis occidentalis</i>				F																				f/c							
<i>Cephalanthus occidentalis</i>																			f/c												
<i>Cephalotaxus spp.</i>																														f/c	
<i>Cephalotaxus harringtonia</i>									f/c*	f/c					f/c											f/c*				f/c	
<i>Ceratonia siliqua</i>									F	f/c											F					F	F			f/c	F
<i>Cercidiphyllum</i>																															
<i>Cercis canadensis</i>		f/c*	f/c		F			f/c	f/c	f/c	F	f/c		F		d	f/c						f/c		f/c	f/c	f/c	f/c		f/c	f/c

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Chaenomeles spp.				F				f/c*						F																	
<i>Chaenomeles japonica</i>				F			F		f/c	f/c				F				f/c	f/c								f/c		f/c		
<i>Chaenomeles speciosa</i>				F				f/c						F										f/c					f/c		
Chamaecyparis spp.								f/c		f/c*						d							f/c								
<i>Chamaecyparis lawsoniana</i>																	f/c*						f/c				F				F
<i>Chamaecyparis obtusa</i>							F*		f/c*	f/c*		f/c*					f/c						f/c	f/c	f/c*	f/c*	F*			f/c*	F*
<i>Chamaecyparis pisifera</i>	f/c								f/c*	f/c*		f/c*					f/c*	f/c	f/c				f/c	f/c	f/c*	f/c*	F*			f/c*	F*
<i>Chamaecyparis thyoides</i>															f/c	d															
<i>Chamaedorea cataractarum</i>									f/c	f/c		f/c			f/c	d							f/c				f/c	F		f/c	F
<i>Chamaedorea costaricana</i>										f/c																					
<i>Chamaedorea elegans</i>									f/c	f/c		f/c					f/c				F		f/c			f/c	F			f/c	F
<i>Chamaedorea humilis</i>										f/c																					
Cheirodendron spp.																															
Chionanthus																															
Choisya ternata																								f/c							
Cistus spp.				F																				f/c*							
Citrus spp.	f/c		f/c			F			F									f/c	f/c	F				f/c*		F*	f/c*	f/c		f/c	f/c*
Cladrastis spp.								f/c										f/c*	f/c*												
Clethra spp.								Ø							Ø*	Ø*											f/c			f/c	

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<i>Clethra alnifolia</i>		f/c*	Ø*					Ø		f/c		f/c			Ø*	Ø*										f/c	f/c			f/c	
<i>Cleyera japonica</i> (See <i>Ternstroemia</i> spp.)										f/c		f/c			f/c	d						f/c		f/c		f/c	f/c			f/c	f/c
<i>Colonema pulchrum</i>									f/c	f/c																f/c	f/c				
<i>Convolvulus cneorum</i>										f/c*																					
<i>Cornus</i> spp.				F	F	f/c		f/c*						F						f/c	F		f/c					f/c	f/c*		
<i>Cornus alba</i>				F	F	f/c			f/c			f/c		F				f/c	f/c	f/c	F		f/c			f/c	F	f/c	f/c	f/c	F
<i>Cornus amomum</i>				F	F	f/c								F				f/c	f/c	f/c	F		f/c				f/c				
<i>Cornus florida</i>	f/c		f/c	F	F	f/c	F	f/c	f/c*	f/c*	F	f/c*		F			f/c	f/c	f/c	f/c	F	f/c	f/c	f/c	f/c	f/c	F	f/c	f/c	f/c*	F
<i>Cornus kousa</i>				F	F	f/c			f/c	f/c				F		d		f/c	f/c	f/c	F		f/c	f/c			f/c	f/c		f/c	f/c
<i>Cornus sericea</i> (= <i>stolonifera</i> or <i>baileyi</i>)	f/c	f/c*			F	f/c	F*		F*			f/c		F				f/c	f/c	f/c	F	f/c	f/c	f/c	f/c	F*	F	f/c		f/c	F*
<i>Correa</i> spp.																		f/c	f/c												
<i>Corylus</i> spp. (Filbert)				F		F			F		F																			f/c	F
<i>Corylus americana</i>									f/c*																						
<i>Corylus maxima</i>			f/c																												
<i>Cotinus</i> spp.																															
<i>Cotinus coggygria</i>							F*		f/c	f/c*		f/c			f/c											f/c*				f/c*	
<i>Cotinus dammeri</i>										f/c*		f/c*														f/c*					
<i>Cotoneaster</i> spp.				F	F	f/c								F						f/c	F		f/c	f/c*					f/c	f/c*	
<i>Cotoneaster adpressus</i>				F	F	f/c		f/c	f/c	f/c		f/c		F						f/c	F		f/c	f/c*		f/c	F			f/c*	F
<i>Cotoneaster apiculatus</i>	f/c			F	F	f/c	F		f/c	f/c		f/c		F			f/c	f/c	f/c	f/c	F	f/c	f/c	f/c*		f/c	f/c		f/c	f/c	f/c

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<i>Cotoneaster buxifolius</i>	f/c			F	F	f/c								F						f/c	F	f/c	f/c	f/c*			F			f/c	F
<i>Cotoneaster congestus</i>				F	F	f/c			f/c	f/c				F						f/c	F		f/c	f/c*		f/c	F			f/c	F
<i>Cotoneaster dammeri</i>	f/c	f/c	f/c	F	F	f/c			f/c	f/c		f/c		F	f/c	d	f/c*	f/c	f/c	f/c	F	f/c	f/c	f/c*	f/c*	f/c	f/c			f/c	f/c
<i>Cotoneaster himalayan</i>				F	F	f/c			f/c	f/c		f/c		F						f/c	F		f/c	f/c*		f/c	F			f/c	F
<i>Cotoneaster horizontalis</i>				F	F	f/c			f/c	f/c		f/c		F				f/c	f/c	f/c	F		f/c	f/c*		f/c	f/c			f/c	f/c
<i>Cotoneaster lacteus</i>				F	F	f/c								F						F			f/c	f/c*						f/c	f/c
<i>Cotoneaster microphyllus</i>	f/c			F	F	f/c				f/c				F						f/c	F	f/c	f/c	f/c*			F			f/c	F
<i>Cotoneaster salicifolius</i>				F	F	f/c								F						f/c	F		f/c	f/c*	f/c*		f/c			f/c	
<i>Crataegus aaspp.</i>	f/c				F	F	F*	f/c	F*	f/c*		f/c*		F		d	f/c	f/c	f/c			f/c				F*		f/c		f/c*	
<i>Crataegus douglasii</i>															f/c																
<i>Cryptomeria japonica</i>		f/c*						f/c	f/c	f/c					f/c	d		f/c	f/c							f/c	f/c		f/c		f/c
<i>Cupaniopsis anacardioides</i>									F	f/c		f/c														F	F			f/c	F
<i>Cupressus spp.</i>					F	f/c																	f/c	f/c							
<i>Cupressus arizonica</i> var. <i>glabra</i>					F				f/c*	f/c*													f/c	f/c		f/c*	f/c			f/c	f/c
<i>Cupressus sempervirens</i>	f/c		f/c		F	f/c	F*		f/c	f/c*					f/c	d	f/c	f/c	f/c			f/c	f/c	f/c	f/c*	f/c	f/c				f/c

Table 6-6. Preemergence Herbicides Registered for Use on Woody Ornamentals (continued)

F = registered for use in the field (or landscape)

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<i>xCupressocyparis leylandii</i> (=Cupresses leylandii)							F	f/c	f/c*	f/c*					f/c	d		f/c	f/c				f/c	f/c		f/c*	f/c				
Cycas revoluta							F		f/c	f/c		f/c														f/c				f/c	
Cytisus spp.									f/c*											F*			f/c			F					
<i>Cytisus praecox</i>									f/c	f/c		f/c											f/c			f/c	F			f/c*	F
<i>Cytisus scoparius</i>							F*		f/c	f/c		f/c			f/c		f/c*						f/c	f/c		f/c	F			f/c*	F
Daphne spp.																d															
<i>Daphne caucasica</i>															f/c																
<i>Daphne cneorum</i>									f/c	f/c																					
<i>Daphne odora</i>									f/c	f/c		f/c												f/c		f/c				f/c	
Dasyliirion wheeleri																											F				F
Deutzia aaspp.			Ø*	F	F							f/c					f/c*								f/c*					f/c	F*
<i>Deutzia crenata</i>				F	F				f/c			f/c														f/c	F			f/c	F*
<i>Deutzia gracilis</i>		f/c*		F	F			f/c	f/c			f/c			f/c			f/c	f/c					f/c		f/c	Ø		f/c	f/c	
Diervilla spp.																		f/c*	f/c*												
Diospyros spp.																															
Dodonaea viscosa	f/c								F	f/c		f/c							f/c			f/c				F	F			f/c	F
Dypsis lutescens										f/c						d															
Elaeagnus spp.			f/c		F															F											
<i>Elaeagnus angustifolia</i>			f/c	F	F				f/c		F	f/c			f/c					F	F			f/c		f/c	f/c			f/c	f/c
<i>Elaeagnus pungens</i>	f/c		f/c		F				f/c	f/c		f/c								F		f/c			f/c*	f/c					
<i>Elaeagnus x ebbengei</i>			f/c		F				f/c	f/c								f/c	f/c	F						f/c*					

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<i>Encelia farinosa</i>																			f/c												
<i>Enkianthus campanulatus</i>									f/c*	f/c																					
<i>Epimedium x rubrum</i>		f/c*																													
<i>Erica spp.</i>		Ø*		F	F*																			f/c*							
Erica cinerea			f/c	F			F*			f/c		f/c															f/c				f/c*
Erica vagans				F					f/c	f/c		f/c															f/c				f/c
Erica x darleyensis				F					f/c	f/c							Ø										f/c				f/c
<i>Eriobotrya japonica</i>																								f/c	f/c						
<i>Escallonia spp</i>									f/c	f/c							f/c*	f/c*	f/c*	F*			f/c	f/c	f/c*		f/c*				f/c*
<i>Eucalyptus spp.</i>					F	f/c	F*														F			f/c				f/c			
<i>Eucalyptus camaldulensis</i>					F	f/c				f/c	F																				
<i>Eucalyptus cinerea</i>			f/c		F	f/c			F*	f/c		f/c									F			f/c		F	F	f/c		f/c	F*
<i>Eucalyptus microtheca</i>					F	f/c			f/c	f/c		f/c									F			f/c		f/c		f/c			
<i>Eucalyptus nicholii</i>					F	f/c															F			f/c			F	f/c			F
<i>Eucalyptus pulverulenta</i>					F	f/c					F																				
<i>Eucalyptus polyanthemos</i>																d															
<i>Eucalyptus sideroxylon</i>					F	f/c			F	f/c		f/c						f/c*	f/c*		F			f/c		F	F	f/c		f/c	F
<i>Eucalyptus viminalis</i>					F	f/c					F										F			f/c				f/c			
<i>Eugenia myrtifolia</i>									f/c	f/c*											F						f/c				
<i>Euonymus spp.</i>				F	F	f/c		f/c						F		d				F			f/c*							f/c	

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<i>Euonymus alatus</i>		Ø*	f/c*	F	F	f/c		f/c	Ø*	Ø*				F			Ø*	f/c	f/c	F			f/c*		f/c*	Ø*	F		f/c	f/c	F	
<i>Euonymus fortunei</i>	f/c	f/c*		F	F	f/c	f/c*	f/c	f/c*	f/c*		f/c*		F			f/c*	f/c	f/c	f/c		f/c	f/c*	f/c	f/c*	f/c*	f/c*			f/c	f/c*	
<i>Euonymus japonicus</i>	f/c	f/c*		F	F	f/c	F*	f/c	f/c*	f/c*		f/c*		F	Ø*	Ø*	f/c*	f/c	f/c	F		f/c	f/c*		Ø*	f/c*	f/c*			f/c	f/c*	
<i>Euonymus vegetus</i>				F	F	f/c		f/c	f/c					F						F			f/c*			f/c	f/c					
<i>Euonymus x kiautschovica</i>	f/c			F	F	f/c		f/c	f/c			f/c		F			f/c*			f/c		f/c	f/c*	f/c	f/c*	f/c	F			f/c	F	
Fagus spp.														F																		
<i>Fagus sylvatica</i>									f/c	f/c				F										f/c								
Fatshedera lizei										f/c																f/c	f/c				f/c	
Fatsia japonica	f/c								f/c	f/c												f/c				f/c	f/c				F	
Ficus benjamina										f/c																						
<i>Ficus carica</i>									F									f/c		F										f/c		
<i>Ficus pumilla</i>																				F					Ø					f/c		
Forsythia spp.				F	F	f/c						f/c		F						f/c			f/c						f/c			
<i>Forsythia suspensa</i>	f/c		f/c	F	F	f/c	F*			f/c		f/c		F						f/c		f/c	f/c									
<i>Forsythia viridissima</i>	f/c			F	F	f/c	F*			f/c		f/c		F						f/c		f/c	f/c									
<i>Forsythia x intermedia</i>	f/c		f/c	F	F	f/c	f/c*	f/c	f/c	f/c*		f/c		F	f/c	d	f/c*	f/c	f/c	f/c		f/c	f/c	f/c	f/c*	f/c	F			f/c	F	
Fothergilla spp.								f/c																								
<i>Fothergilla gardenii</i>															f/c		f/c*								f/c*							
Franklinia spp.																		f/c	f/c													
Fraxinus spp.				F	F	F		f/c		f/c*				F						F							f/c*	F	f/c	f/c	f/c*	F
<i>Fraxinus americana</i>			f/c	F	F	F	F*				F	f/c		F				f/c	f/c	F							F	f/c		f/c	F	
<i>Fraxinus pennsylvanica</i>			f/c	F	F	F	F				F			F		d		f/c	f/c	F				f/c			F	f/c			F	

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Gardenia spp.				F		f/c																	f/c								
<i>Gardenia jasminoides</i>	f/c	f/c*	f/c	F		f/c	f/c*	f/c	f/c*	f/c*		f/c*	F		f/c	d	f/c*	f/c	f/c	f/c		f/c	f/c	f/c	f/c*	f/c*	f/c			f/c*	f/c
<i>Gardenia radicans</i>																d															
<i>Gelsemium sempervirens</i>							F		f/c	f/c		f/c							f/c	F					f/c	f/c				f/c	
Genista spp.																														f/c	
<i>Genista pilosa</i>							F*		f/c	f/c		f/c														f/c	F			f/c	F
<i>Genista tinctoria</i>																								f/c						f/c	
Ginkgo biloba			f/c						F	f/c		f/c		F				f/c	f/c	F				f/c		F	f/c	f/c		f/c	f/c
Gleditsia triacanthos						F		f/c	F*	f/c		f/c		F		d		f/c	f/c	F	F					F	F	f/c	f/c	f/c	F
Hamamelis virginiana									f/c	f/c														f/c					?		
Hardenbergia violacea										f/c																					
Hebe buxifolia									f/c	f/c																					
Hedera spp.						f/c														F											
<i>Hedera canariensis</i>						f/c			F	f/c										F				f/c		F	F			f/c	F
<i>Hedera helix</i>	f/c		f/c	F	F	f/c	F*		f/c	f/c								f/c	f/c	f/c		f/c		f/c		f/c	F			f/c	F
Hemigraphis alternata																															
Hesperaloe parviflora										f/c*																					
Heteromeles arbutifolia									F			f/c														F	F			f/c	F
Hibiscus spp.						f/c	F*	f/c*		f/c*										F				f/c*					f/c		
<i>Hibiscus rosa-sinensis</i>	F*					f/c	F*		f/c*			f/c			f/c	d				F		f/c		f/c	f/c*	f/c*	F		f/c	f/c	F*

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<i>Hibiscus syriacus</i>	F*	f/c*				f/c	F*	f/c	f/c*	f/c*		f/c*			f/c	d		f/c	f/c	F		F		f/c*		f/c*	F*		f/c	f/c	F*
Hydrangea spp.		Ø*	Ø		F				Ø	Ø										F			f/c			Ø			f/c		
<i>Hydrangea arborescens</i>			Ø		F				Ø								Ø*			F			f/c		Ø*	Ø					
<i>Hydrangea macrophylla</i>	f/c		Ø		F			f/c	Ø						Ø*	Ø*	f/c*		f/c	F		f/c	f/c			Ø	f/c				
<i>Hydrangea paniculata</i>			Ø		F				Ø											F			f/c		Ø*	Ø					
<i>Hydrangea quercifolia</i>			Ø		F				Ø											F			f/c			Ø	f/c				
Hypericum spp.						F			f/c										f/c*	F			f/c		f/c	f/c	f/c			f/c	F
<i>Hypericum frondosum</i>																								f/c	f/c		f/c			f/c	F
<i>Hypericum patulum</i>						F			f/c								f/c*			F			f/c	f/c	f/c	f/c	f/c			f/c	F
Ilex spp.				F*	F	f/c		f/c*				f/c		F						F	F		f/c*	f/c					f/c*	f/c	
<i>Ilex aquifolium</i>				F	F	f/c		f/c	F*	f/c*		f/c		F						F	F		f/c	f/c		F*	F*			f/c	F*
<i>Ilex cassine</i>				F	F	f/c	f/c	f/c	f/c	f/c		f/c		F						F	F		f/c	f/c						f/c	
<i>Ilex cornuta</i>	F	f/c*	f/c	F*	F	f/c	F*	f/c	f/c*	f/c*		f/c	F*	F	f/c	d	f/c*	f/c	f/c	f/c	F	f/c	f/c	f/c	f/c*	f/c*	f/c*		f/c	f/c	f/c*
<i>Ilex crenata</i>	f/c		f/c	Ø	F	f/c	f/c*	f/c	f/c*	f/c*		f/c	F*	F	f/c	d	f/c*	f/c	f/c	f/c	F	f/c	f/c	f/c	f/c*	f/c*	f/c*		f/c	f/c	f/c*
<i>Ilex glabra</i>			f/c	F	F	f/c		f/c	f/c*	f/c*		f/c		F	f/c	d				F	F		f/c	f/c		f/c*	F			f/c	F
<i>Ilex latifolia</i>				F	F	f/c		f/c				f/c		F						F	F		f/c	f/c						f/c	
<i>Ilex opaca</i>	f/c			F	F	f/c		f/c	f/c			f/c		F		d	f/c	f/c	f/c	F	F	f/c	f/c	f/c	f/c				f/c	f/c	
<i>Ilex pernyi</i>	f/c			F	F	f/c		f/c		f/c		f/c		F						F	F	f/c	f/c	f/c						f/c	
<i>Ilex verticillata</i>			Ø	F	F	f/c		f/c				f/c		F		d				F	F		f/c	f/c					F	f/c	
<i>Ilex vomitoria</i>	f/c			Ø	F	f/c	F*	f/c	f/c*	f/c*		f/c	F*	F			f/c*	f/c	f/c	F	F	f/c	f/c	f/c	f/c*	f/c	f/c			f/c	f/c
<i>Ilex x aquipernyi</i>				F	F	f/c		f/c	f/c	f/c		f/c		F		d				F	F		f/c	f/c	f/c*	f/c	f/c		F*	f/c	f/c
<i>Ilex x attenuata</i>		f/c*		F	F	f/c	f/c*	f/c	f/c	f/c*		f/c		F		d		f/c*	f/c*	f/c	F		f/c	f/c		f/c*				f/c	

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<i>Ilex x meserveae</i>		f/c*	f/c	F	F	f/c	F*	f/c	f/c*	f/c*		f/c		F	f/c	d	f/c*			F	F		f/c	f/c	f/c*	f/c*	F*			f/c	F*
<i>Ilex x Nellie R. Stevens</i>			f/c	F	F	f/c	f/c	f/c	f/c	f/c		f/c		F		d	f/c			F	F		f/c	f/c						f/c	
<i>Illicium spp.</i>																				F											
<i>Illicium annisatum</i>									f/c	f/c		f/c								F						f/c					
<i>Illicium floridanum</i>			f/c						f/c			f/c			f/c					F						f/c				f/c	
<i>Illicium parviflorum</i>		f/c*																f/c	f/c	F											
<i>Itea spp.</i>																															
<i>Itea ilicifolia</i>												f/c														f/c*				f/c*	
<i>Itea virginica</i>			f/c					f/c	f/c*	f/c*					f/c																
<i>Ixora coccinea</i>										f/c						Ø															
<i>Jasminum spp.</i>	f/c*									f/c										F			f/c			f/c*					
<i>Jasminum flordium</i>																								f/c							
<i>Jasminum nudiflorum</i>										f/c					f/c					F		f/c	f/c								
<i>Juglans spp.</i>	f/c		f/c											F								f/c									
<i>Juglans nigra</i>			f/c			F		f/c	F		F			F				f/c	f/c			f/c				F	F	f/c	f/c	f/c	F
<i>Juglans regia</i>			f/c	F		F			F					F				f/c	f/c			f/c				F	F			f/c	F
<i>Juniperus spp.</i>				F	F	f/c		f/c				f/c		F				f/c	f/c*	F	F		f/c	f/c			f/c		f/c	f/c	f/c
<i>Juniperus chinensis</i>	f/c	f/c*		F	F	f/c	f/c*	f/c	f/c*	f/c*	f/c	f/c	F*	F	f/c	d	f/c*	f/c	f/c*	f/c	F	F	f/c	f/c	f/c	f/c*	f/c*	f/c*	f/c	f/c	f/c
<i>Juniperus conferta</i>	f/c	f/c*	f/c	F	F	f/c	f/c*	f/c	f/c*			f/c	F	F	f/c	d	f/c	f/c	f/c	F	F	f/c	f/c	f/c		f/c*	F		f/c	f/c	f/c
<i>Juniperus davurica</i>	f/c	f/c*		F	F	f/c	f/c*	f/c	f/c	f/c*		f/c		F				f/c	f/c*	F	F	f/c	f/c	f/c			f/c			f/c	f/c
<i>Juniperus excelsa</i>				F	F	f/c		f/c				f/c		F				f/c	f/c*	F	F		f/c	f/c			f/c			f/c	f/c
<i>Juniperus horizontalis</i>	f/c	f/c	f/c	F	F	f/c	f/c*	f/c	f/c*	Ø*	f/c	f/c	F*	F	f/c	d	f/c*	f/c	f/c	f/c	F	F	f/c	f/c	f/c*		f/c*	f/c	f/c	f/c	f/c

Table 6-6. Preemergence Herbicides Registered for Use on Woody Ornamentals (continued)

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<i>Juniperus procumbens</i>				F	F	f/c	f/c*	f/c	f/c*	f/c	f/c	f/c		F				f/c	f/c*	F	F		f/c	f/c		f/c*	f/c*			f/c	f/c
<i>Juniperus sabina</i>				F	F	f/c	f/c*	f/c	f/c*	f/c*	f/c	f/c		F			f/c*	f/c	f/c*	f/c	F		f/c	f/c	f/c*	f/c*	F*	f/c		f/c	f/c
<i>Juniperus scopulorum</i>				F	F	f/c	f/c*	f/c	f/c*	f/c*	f/c	f/c		F				f/c	f/c*	F	F		f/c	f/c		F*	F	f/c		f/c	f/c
<i>Juniperus squamata</i>			f/c	F	F	f/c	f/c	f/c	f/c*	f/c*		f/c	F*	F	f/c			f/c	f/c*	F	F		f/c	f/c	f/c*	f/c*	F*			f/c	f/c
<i>Juniperus virginiana</i>		f/c*	f/c	F	F	f/c	F	f/c	f/c	f/c	f/c	f/c		F	f/c	d		f/c	f/c	f/c	F		f/c	f/c		f/c	f/c			f/c	F
<i>Kalmia latifolia</i>					F		F		f/c	f/c		f/c		F				f/c	f/c	f/c						f/c	F			f/c	F
<i>Kerria japonica</i>								f/c																							
<i>Koeleruteria paniculata</i>				F		F																		f/c			F				F
<i>Kolkwitzia amabilis</i>				F											f/c																
<i>Laburnum anagyroides</i>						F																									
<i>Lagerstroemia indica</i>	f/c	f/c*	f/c*			f/c	F*	f/c	f/c	f/c*	F	f/c	F		f/c	d		f/c	f/c	F		f/c	Ø*	f/c*		f/c	f/c	f/c	f/c	f/c	f/c
<i>Lagerstroemia faurei</i>							F*																	f/c*						f/c	
<i>Lagerstroemia X (hybrids)</i>	f/c*	f/c*				f/c									f/c															f/c	
<i>Lantana spp.</i>					F	F		f/c				f/c		Ø*												f/c			f/c	f/c	
<i>Lantana camara</i>		f/c*													f/c																
<i>Lantana montevidensis</i>	f/c	f/c*			F	F						f/c							f/c			f/c		f/c	f/c*					f/c	
<i>Larix spp.</i>																												f/c			
<i>Larix decidua</i>																								f/c							
<i>Larix kaempferi</i>						F						f/c																f/c		f/c	
<i>Laurus nobilis</i>																		f/c	f/c												

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<i>Lavandula aspp.</i>	f/c*							f/c*							Ø*			f/c*	f/c*			f/c				f/c*	f/c*		f/c		
<i>Leptospermum scoparium</i>							f/c*		f/c*																	f/c					
<i>Leucophyllum spp.</i>																															
<i>Leucophyllum frutescens</i>									f/c	f/c								f/c	f/c												
<i>Leucophyllum laevegatum</i>									f/c	f/c																					
<i>Leucothoe spp.</i>				F		f/c		f/c												F									f/c		
<i>Leucothoe axillaris</i>				F		f/c			f/c	f/c		f/c						f/c	f/c	F				f/c		f/c	F			f/c	F
<i>Leucothoe fontanesiana</i>				F		f/c	F		f/c	f/c		f/c						f/c	f/c	f/c				f/c		f/c	F		f/c	f/c	F
<i>Leucothoe populifolia</i>															f/c	d															
<i>Ligustrum spp.</i>				F		f/c		f/c*				f/c	Ø	F		d				F			f/c	f/c					f/c*	f/c	
<i>Ligustrum amurense</i>	f/c			F	F	f/c				f/c		f/c	Ø	F						F		f/c	f/c	f/c			f/c			f/c	f/c
<i>Ligustrum japonicum</i>	f/c		f/c	F	F	f/c			f/c*			f/c	Ø	F	Ø*		f/c*	f/c	f/c	f/c		f/c	f/c	f/c	f/c*	f/c*	f/c*			f/c	f/c*
<i>Ligustrum lucidum</i>	f/c			F	F	f/c	F	f/c	f/c	f/c		f/c	Ø	F				f/c	f/c	F		f/c	f/c	f/c	f/c	f/c	f/c	f/c		f/c	f/c
<i>Ligustrum ovalifolium</i>				F	F	f/c			F	f/c		f/c	Ø	F				f/c	f/c	F			f/c	f/c		F	F		f/c	f/c	F
<i>Ligustrum sinense</i>	f/c	f/c*	f/c*	F	F	f/c				f/c		f/c	Ø	F			f/c	f/c	f/c*	F		f/c	f/c	f/c	f/c*					f/c	
<i>Ligustrum vulgare</i>				F	F	F			f/c*	f/c		f/c	Ø	F						F			f/c	f/c		f/c				f/c	
<i>Ligustrum x ibolium</i>				F	F	f/c				f/c*		f/c	Ø	F		f/c*				F			f/c	f/c						f/c	
<i>Ligustrum x vicaryi</i>				F	F	f/c	F		F	f/c		f/c	Ø	F	f/c		f/c			F			f/c	f/c	f/c	F*	f/c			f/c	f/c
<i>Liquidambar styraciflua</i>			f/c			F	F		F	f/c	F	f/c		F				f/c	f/c	F						F	f/c	f/c		f/c	f/c

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<i>Liriodendron tulipifera</i>					F	F					F	f/c		F				f/c	f/c	F										f/c	
<i>Lindera benzoin</i>																d															
<i>Lonicera</i> spp.				F	F	F														F			f/c	f/c							
<i>Lonicera fragrantissima</i>				F	F	F			f/c								f/c			F	F		f/c	f/c		f/c	F				F
<i>Lonicera japonica</i>	f/c		f/c	F	F	F	F*		F											F		f/c	f/c	f/c		F	F				F
<i>Lonicera periclymenum</i>				F	F	F			f/c			f/c			f/c					F			f/c	f/c		f/c	F				F
<i>Lonicera sempervirens</i>				F	F	F			f/c			f/c								F			f/c	f/c		f/c	F			f/c	F
<i>Lonicera tatarica</i>	f/c			F	F	F	F*													F	F	f/c	f/c	f/c							
<i>Lonicera x xylosteoides</i>				F	F	F														F			f/c	f/c	f/c*						
<i>Lonicera xylosteum</i>				F	F	F	F*													F			f/c	f/c							
<i>Loropetalum chinense</i>	f/c*	f/c*						f/c	f/c*	f/c*					f/c	d	f/c*						f/c			f/c*	f/c	f/c		f/c	
<i>Magnolia</i> spp.	F			F	F			f/c*				f/c		F						F		F	f/c	f/c			F				
<i>Magnolia grandiflora</i>	F	f/c*		F	F			f/c	f/c	f/c		f/c		F		d		f/c	f/c	F		F	f/c	f/c		f/c	F		f/c	f/c	F
<i>Magnolia liliflora</i>	F		f/c	F	F							f/c		F		d				F		F	f/c	f/c			F				
<i>Magnolia stellata</i> & hybrids	F			F	F				f/c	f/c*		f/c		F	f/c		Ø*	f/c	f/c	F		F	f/c	f/c	Ø*		F				
<i>Magnolia x soulangiana</i>	F			F	F			f/c	f/c	f/c		f/c		F			f/c	f/c	f/c	F		F	f/c	f/c			F				
<i>Mahonia</i> spp.			f/c					f/c*		f/c*											F		f/c								
<i>Mahonia aquifolium</i>			f/c					f/c	f/c	f/c								f/c	f/c		F		f/c	f/c	f/c	f/c*	F				F
<i>Mahonia bealei</i>			f/c						f/c			f/c					f/c				F		f/c			f/c				f/c	
<i>Mahonia repens</i>			f/c						f/c	f/c		f/c					f/c				F		f/c		f/c	f/c				f/c	

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Malus spp. (crabapple)	f/c		f/c	F		F		f/c			F	f/c				d		f/c	f/c	F		f/c		f/c			F		f/c	f/c	F
<i>Malus floribunda</i>	f/c		f/c	F		F					F	f/c						f/c	f/c	F		f/c		f/c			F			f/c	F
<i>Malus sargentii</i>		f/c*		F*		F			f/c		F	f/c						f/c	f/c	F		f/c		f/c						f/c	F
Malus pumila (apple)	f/c		f/c	F*		F	F		F		F							f/c	f/c	F						F	F			f/c	F
Malus x domestica (apple)	f/c		f/c	F*		F		f/c	F		F					d		f/c	f/c	F						F	F		f/c	f/c	F
Mandevilla splendens										f/c*																					
Meta-sequoia glyptostroboides																d		f/c	f/c					f/c							
Michelia figo									f/c	f/c																					
Microbiota decussata																									f/c						
Morus alba			f/c						F	f/c		f/c															F	F		f/c	F
Myoporum spp.																															
<i>Myoporum parvifolium</i>			f/c						f/c	f/c																		F			F
Myrica spp.			Ø*						f/c											F											
<i>Myrica californica</i>						F														F											
<i>Myrica cerifera</i>			Ø						f/c	f/c		f/c	F		f/c	d		f/c	f/c	f/c						f/c				f/c	
<i>Myrica pensylvanica</i>		f/c*	f/c						f/c	f/c										F											
Myrtus communis																		f/c	f/c					f/c			f/c				f/c
Nandina domestica	f/c	f/c*	Ø*	F		f/c	F*	Ø*	f/c*	f/c		f/c*			f/c	d	f/c*	f/c	f/c	F		f/c		f/c	f/c*	f/c	f/c		Ø*	f/c	f/c*

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Nerium spp.	f/c	f/c*	f/c			F															F	f/c	f/c							f/c	
<i>Nerium oleander</i>	f/c		f/c			F	F*		f/c			f/c*			f/c		f/c	f/c	f/c	F	F	f/c	f/c	f/c	f/c	f/c	f/c			f/c	f/c
Nyssa sylvatica												f/c				d		f/c	f/c											f/c	
Ochna serrulata																															
Olea spp.	F		f/c			F			F	f/c								f/c*	f/c*			f/c				F	F			f/c	F*
Osmanthus spp.				F		F		f/c*												F									f/c*		
<i>Osmanthus fragrans</i>			f/c	F		F		f/c	f/c	f/c					f/c	d		f/c	f/c	F					f/c				f/c		
<i>Osmanthus heterophyllus</i>	f/c			F		F				f/c										F		f/c		f/c	f/c*		F				F
<i>Osmanthus x fortunei</i>				F		F			f/c			f/c								F						f/c				f/c	
Oxydendrum arboreum	f/c						F	f/c	f/c			f/c						f/c	f/c			f/c				f/c				f/c	
Pachysandra terminalis			f/c		F	f/c	F		f/c	f/c			F				f/c	f/c	f/c	f/c			f/c	f/c	f/c	f/c	f/c			f/c	F
Parthenocissus tricuspidata					F																										
<i>Parthenocissus quinquefolia</i>									f/c																	f/c					
Paxistima canbyi				F	F																										
Philadelphus spp.				F	F		F					f/c		F										f/c*			f/c			f/c	f/c
Phoenix roebelenii										f/c																					
Photinia spp.				F		f/c														F			f/c								
<i>Photinia x fraseri</i>	f/c		f/c	F		f/c	F	f/c	f/c			f/c	F		f/c		f/c	f/c	f/c	F		f/c	f/c	f/c	f/c	f/c	f/c	f/c		f/c	f/c

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<i>Phyllostachys aurea</i>																d															
<i>Physocarpus opulifolius</i>									f/c	f/c					f/c					F											
<i>Picea spp.</i>	F		f/c*		F	F		f/c						F						F		F	f/c	f/c*					f/c	f/c	
<i>Picea abies</i>	F		f/c		F	F	F		f/c*	f/c*	F	f/c*		F		d		f/c	f/c	F	F	F	f/c	f/c*	f/c*	f/c	F	f/c	f/c	f/c*	F
<i>Picea engelmannii</i>	F				F	F								F					F		F	f/c	f/c			F					F
<i>Picea glauca</i>	F		f/c*		F	F	F*		f/c*	f/c*	F*	f/c		F		d	f/c*	f/c*	f/c*	F	F	F	f/c	Ø	f/c*	f/c*	F*	f/c*		f/c	F*
<i>Picea glauca conica</i>	F		f/c		F	F			F		F	f/c		F			f/c	f/c	f/c	F		F	f/c	f/c	f/c	F	f/c	f/c		f/c	F
<i>Picea mariana</i>	F				F	F								F						F		F	f/c	f/c							F
<i>Picea omorika</i>	F		f/c		F	F								F						F		F	f/c	f/c							
<i>Picea pungens</i>	F				F	F	f/c*		f/c*	f/c*	F	f/c*		F				f/c	f/c	F	F	F	f/c	f/c	f/c*	f/c*	F*	f/c	f/c	f/c*	F*
<i>Picea rubens</i>	F				F	F								F						F	F	F	f/c	f/c							
<i>Picea sitchensis</i>	F		f/c		F	F					F			F						F		F	f/c	f/c				f/c			
<i>Pieris spp.</i>					F								Ø								F		f/c	f/c*							
<i>Pieris japonica</i>	f/c		f/c		F		F*	f/c	f/c*	f/c*		f/c*	Ø		f/c	d	f/c	f/c	f/c	F	F	f/c	f/c	Ø	f/c*	f/c*	f/c*		f/c	f/c	f/c*
<i>Pieris taiwanensis</i>					F		F						Ø								F		f/c	f/c							
<i>Pinus spp.</i>				F*	F	f/c		f/c*						F						F			f/c	f/c			f/c		f/c*		f/c
<i>Pinus artistata</i>				F*	F*	f/c			F	f/c		f/c		F						F			f/c	f/c		F	F			f/c	f/c
<i>Pinus banksiana</i>			f/c	F*	F	f/c					F			F						F			f/c	f/c			f/c	f/c			f/c
<i>Pinus bungeana</i>			f/c	F*	F	f/c								F						F			f/c	f/c			f/c				f/c
<i>Pinus canariensis</i>										f/c						d															
<i>Pinus clausa</i>				F*	F*	f/c								F						F			f/c	f/c			f/c	f/c			f/c
<i>Pinus contorta</i>			f/c	F*	F	f/c			F	f/c	F	f/c		F						F	F		f/c	f/c		F	F	f/c		f/c	f/c
<i>Pinus echinata</i>			f/c	F*	F	f/c					F			F						F			f/c	f/c			f/c	f/c			f/c
<i>Pinus eldarica2</i>				F*	F	f/c	f/c			f/c		f/c		F	f/c					F			f/c	f/c		f/c	F			f/c	f/c
<i>Pinus elliotii</i>	f/c		f/c	F*	F	f/c	F			f/c	F			F				f/c		F		f/c	f/c	f/c	f/c		f/c	f/c			f/c

Table 6-6. Preemergence Herbicides Registered for Use on Woody Ornamentals (continued)

F = registered for use in the field (or landscape)

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<i>Pinus halepensis</i>	f/c			F*	F	f/c				f/c				F			f/c			F		f/c	f/c	f/c			f/c				f/c	
<i>Pinus leucodermis</i>				F*	F	f/c			f/c	f/c		f/c		F						F			f/c	f/c		f/c	f/c			f/c	f/c	
<i>Pinus mugo</i>			f/c	F*	F	f/c	F	f/c	f/c*	f/c	F	f/c		F				f/c	f/c	F	F		f/c	f/c	f/c	f/c	f/c	f/c	f/c	f/c	f/c	f/c
<i>Pinus nigra</i>	f/c			F*	F	f/c	f/c		f/c	f/c	F	f/c		F				f/c	f/c	F	F	f/c	f/c	f/c		f/c	f/c	f/c		f/c	f/c	
<i>Pinus palustris</i>	f/c		f/c	F*	F	f/c	F			f/c	F			F						F		f/c	f/c	f/c			f/c	f/c			f/c	
<i>Pinus pinea</i>				F*	F	f/c								F				f/c	f/c	F			f/c	f/c			f/c				f/c	
<i>Pinus ponderosa</i>			f/c	F*	F	f/c					F			F						F			f/c	f/c			f/c	f/c			f/c	
<i>Pinus radiata</i>	f/c			F*	F	f/c			F	f/c	F	f/c		F				f/c	f/c	F	F	f/c	f/c	f/c	f/c	F	F			f/c	f/c	
<i>Pinus resinosa</i>				F*	F	f/c						f/c		F				f/c	f/c	F	F		f/c	f/c			f/c			f/c	f/c	
<i>Pinus strobus</i>	f/c		f/c	F*	F	F	f/c	f/c	f/c	f/c	F	f/c		F	f/c	d		f/c	f/c	f/c	F	f/c	f/c	f/c	f/c	f/c	f/c	f/c	f/c		f/c	f/c
<i>Pinus sylvestris</i>	f/c	f/c	f/c	F*	F	f/c	F		f/c*	f/c*	F	f/c		F		d		f/c	f/c	F	F	f/c	f/c	f/c	f/c	f/c	f/c	f/c	f/c		f/c*	f/c
<i>Pinus taeda</i>	f/c		f/c	F*	F	f/c	F	f/c		f/c	F	f/c		F	f/c			f/c	f/c	F		f/c	f/c	f/c			f/c	f/c		f/c	f/c	
<i>Pinus thunbergiana</i>	f/c			F*	F	f/c	F		f/c	f/c		f/c		F			f/c			f/c		f/c	f/c	f/c	f/c	f/c	f/c	f/c		f/c	f/c	
<i>Pinus virginiana</i>	f/c		f/c	F*	F	f/c	F			f/c	F			F				f/c	f/c	F		f/c	f/c	f/c			f/c	f/c			f/c	
<i>Pinus wallichiana</i>				F*	F	f/c					F			F						F			f/c	f/c			f/c				f/c	
<i>Pistacia spp.</i>	f/c		f/c*			F			F		F					d		f/c	f/c			f/c				F	F			f/c	F	
<i>Pittosporum spp.</i>				F	F	f/c			f/c*														f/c				f/c				f/c	
<i>Pittosporum crassifolium</i>				F	F	f/c														F			f/c		f/c		f/c				f/c	
<i>Pittosporum rhombifolium</i>	f/c			F	F	f/c				f/c										F		f/c	f/c				f/c				f/c	
<i>Pittosporum tenuifolium</i>				F	F	f/c			f/c*	f/c*										F			f/c		f/c		f/c					f/c
<i>Pittosporum tobira</i>	f/c	f/c	f/c	F	F	f/c	f/c*	f/c	f/c*	f/c*		f/c*			f/c	d	f/c*	f/c	f/c	f/c		f/c	f/c	f/c	f/c*	f/c	F*			f/c	f/c	
<i>Platanus spp.</i>					F				F*																			f/c				
<i>Platanus occidentalis</i>			f/c				F		F	f/c	F	f/c		F				f/c	f/c							F	F	f/c		f/c	F	

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<i>Platanus racemosa</i>			f/c		F				F	f/c	F	f/c														F	F	f/c		f/c	F
<i>Platanus x acerifolia</i> (hybrida)												f/c		F		d												f/c		f/c	
Platycladus orientalis see: <i>Thuja orientalis</i>			f/c	F	F	C	f/c*	f/c	f/c*	f/c*	f/c	f/c		F						F	F		f/c	f/c	f/c*	f/c*	f/c*	f/c		f/c*	f/c*
Plumbago spp.	Ø*						f/c*		f/c*			f/c*			Ø*											f/c*	F*			f/c	F*
Podocarpus spp.	f/c*		f/c		F	f/c					F	f/c					f/c			F						F	F			f/c	f/c*
<i>Podocarpus macrophyllus</i>	f/c		f/c		F	f/c		f/c	F*	f/c	F	f/c			f/c	d	f/c	f/c	f/c	F		f/c		f/c		f/c	f/c			f/c	f/c*
Polygala fruticosa										f/c																					
Populus spp.			f/c	F	F	F			F*					F						F				f/c				f/c			
<i>Populus deltoids</i>			f/c	F	F	F			F	f/c	F	f/c		F		d		f/c	f/c	F				f/c		F	F	f/c		f/c	F
<i>Populus grandidentata</i>			f/c	F	F	F					F			F				f/c	f/c	F				f/c				f/c			
<i>Populus nigra</i>			f/c	F	F	F					F			F				f/c	f/c	F				f/c				f/c			
<i>Populus tremuloides</i>			f/c	F		F					F			F		d		f/c	f/c	F				f/c				f/c			
Potentilla spp.			f/c		F		F*		f/c*			f/c								F			f/c*						f/c	f/c	F*
<i>Potentilla fruticosa</i>		Ø*	f/c		F		F		f/c			f/c			f/c		f/c*		f/c	F			f/c*	f/c	f/c*	f/c*	f/c		f/c	f/c	f/c
Prosopis chilensis										f/c		f/c														f/c					
Prunus spp.						F		f/c			F									F			f/c					f/c			
Prunus americana																d															
Prunus avia			f/c	F		F			F		F							f/c	f/c	F			f/c			F	F	f/c		f/c	F
Prunus cerasus				F		F			F		F							f/c	f/c	F			f/c			F	F	f/c		f/c	F
<i>Prunus caroliniana</i>							f/c*		f/c	f/c*	F	f/c		F						F			f/c				F	f/c		f/c	F
<i>Prunus laurocerasus</i>				F*					f/c*	f/c*	F			F		d		f/c	f/c*	F			f/c	f/c			F	f/c			F

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<i>Prunus mahaleb</i>											F									F				f/c					f/c			F
<i>Prunus x incamp</i>																d																
<i>Prunus sargentii</i>											F			F		d				F				f/c	f/c				f/c			
<i>Prunus serotina</i>											F							f/c	f/c	F				f/c					f/c			
<i>Prunus serrulata</i>											F			F		d		f/c	f/c	F				f/c	f/c				f/c			
<i>Prunus subhirtella</i>											F			F						F				f/c					f/c			
<i>Prunus tomentosa</i>											F			F				f/c	f/c	F				f/c					f/c			
<i>Prunus virginiana</i>		f/c*									F			F				f/c	f/c	F				f/c					f/c			
<i>Prunus x cistena</i>											F			F		d	f/c*			F				f/c		f/c			f/c			
<i>Prunus yedoensis</i>									F	f/c	F	f/c		F		d				F				f/c			F	F	f/c		f/c	F
<i>Prunus armeniaca</i>	f/c		f/c			F		f/c	F		F							f/c	f/c	F			f/c	f/c			F	F	f/c		f/c	F
<i>Prunus persica</i>	f/c		f/c			F	F	f/c	F		F							f/c	f/c	F			f/c	f/c			F	F	f/c	f/c		F
<i>Prunus dulcis</i>	f/c		f/c			F			F		F							f/c	f/c	F			f/c	f/c			F	F	f/c			F
<i>Prunus glandulosa</i> (shrub)				F			F		f/c	f/c		f/c					Ø			F			f/c	f/c		Ø	f/c	f/c	f/c		f/c	F
<i>Prunus spp.</i> (plum, prune)	f/c		f/c			F		f/c	F		F							f/c	f/c	F			f/c	f/c			F	F	f/c			F
<i>Prunus cerasifera</i>	f/c															d		f/c	f/c	F			f/c	f/c			F	F	f/c			F
<i>Prunus maritima</i>	f/c		f/c			F														F			f/c	f/c			F	F	f/c			F
<i>Pseudotsuga menziesii</i>	F		f/c		F	f/c	F	f/c		f/c	F	f/c		F				f/c	f/c	F	F	F		f/c			Ø	f/c	f/c	f/c		
<i>Psidium cattleianum</i>										f/c																						
<i>Punica spp.</i>									F		F*													f/c*		F	F				f/c	F
<i>Pyracantha aasp.</i>			f/c	F		f/c	f/c*					f/c		F						F				f/c		f/c*					f/c	
<i>Pyracantha coccinea</i>	f/c		f/c	F		f/c	F*		f/c*	f/c*		f/c		F	f/c		f/c*	f/c	f/c	F			f/c	f/c	f/c			f/c			f/c	f/c

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<i>Pyracantha fortuneana</i>	f/c		f/c	F		f/c			f/c*	f/c*		f/c		F						F		f/c	f/c		f/c*	f/c*	f/c*			f/c	f/c*
<i>Pyracantha koidzumii</i>	f/c		f/c	F		f/c	f/c*			f/c*		f/c		F						F		f/c	f/c				f/c			f/c	f/c
<i>Pyrus spp.</i>	f/c*		f/c*	F		F			F		F			F*		d		f/c*	f/c*	F		f/c*				F	F			f/c	F
<i>Quercus spp.</i>				F	F			f/c						F								f/c	f/c	f/c			f/c	f/c	f/c		f/c
<i>Quercus acutissima</i>				F	F									F			f/c			F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus alba</i>				F	F									F				f/c	f/c	F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus coccinea</i>				F	F							f/c		F						F		f/c	f/c	f/c			f/c	f/c		f/c	f/c
<i>Quercus illicifolia</i>			f/c	F	F				F	f/c		f/c		F						F		f/c	f/c	f/c		F	f/c	f/c		f/c	f/c
<i>Quercus laurifolia</i>				F	F		F							F						F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus michauxii</i>				F	F									F				f/c	f/c	F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus muehlenbergii</i>				F	F						F			F				f/c	f/c	F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus nigra</i>				F	F						F			F				f/c	f/c	F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus nuttallii</i>				F	F						F			F		d				F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus pagoda</i>				F	F						F			F						F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus palustris</i>			f/c	F	F	F	F		F	f/c	F	f/c		F				f/c	f/c	F		f/c	f/c	f/c		F	f/c	f/c		f/c	f/c
<i>Quercus phellos</i>			f/c	F	F		F		f/c	f/c	F	f/c		F				f/c	f/c	f/c		f/c	f/c	f/c		f/c	f/c	f/c		f/c	f/c
<i>Quercus prinus</i>				F	F						F			F						F		f/c	f/c	f/c			f/c	f/c			f/c
<i>Quercus rubra</i>	f/c		f/c	F	F		F		f/c	f/c	F	f/c		F		d		f/c	f/c	F	F	f/c	f/c	f/c		f/c	f/c	f/c		f/c	f/c
<i>Quercus shumardii</i>	f/c			F	F					f/c				F		d	f/c			F		f/c	f/c	f/c	f/c		f/c	f/c			f/c
<i>Quercus virginiana</i>			f/c	F	F		F		f/c			f/c		F		d		f/c	f/c	F		f/c	f/c	f/c		f/c	f/c	f/c		f/c	f/c
<i>Raphiolepis spp.</i>			f/c*			f/c			f/c*											F			f/c								
<i>Raphiolepis indica</i>	f/c		f/c			f/c	f/c*	f/c	f/c*	f/c*		f/c*	F		f/c	d	f/c*	f/c	f/c	F		f/c	f/c	f/c*	f/c*	f/c*	f/c*		f/c		f/c*
<i>Raphiolepis ovata</i>						f/c			f/c	f/c		f/c								F			f/c			f/c	F			f/c	F

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Raphiolepis umbellata	f/c					f/c														F		f/c	f/c	f/c							
Ravenea rivularis										f/c																					
Rhapis excelsa																								f/c							
Rhododendron spp. (azalea)			f/c*		F	f/c		f/c	f/c*	f/c*		f/c	Ø	F	f/c*	d*	f/c*	f/c	f/c	F			f/c*	f/c*	f/c*		f/c		f/c	f/c	f/c
Rhododendron spp. (hardy deciduous azaleas)				F		f/c		f/c				f/c	Ø	F					f/c	F			f/c*				f/c		f/c	f/c	f/c
Rhododendron (az) calendulaceum			f/c*		F	f/c	F	f/c	f/c*			f/c	Ø	F			f/c*	f/c	f/c	F			f/c*	f/c	f/c*	f/c*	F*			f/c	f/c
Rhododendron (az) exbury			f/c		F	f/c	F	f/c	f/c*			f/c	Ø	F				f/c	f/c	F			f/c*	f/c	f/c	f/c*	f/c*			f/c	f/c
Rhododendron (az) indica	f/c*	f/c*	f/c*		F	f/c		f/c	f/c*			f/c	Ø	F	f/c	d		f/c	f/c	f/c		f/c*	f/c*	f/c	f/c*	f/c*	f/c*			f/c	f/c
Rhododendron (az) Girard Hybrids	f/c*		f/c		F	f/c		f/c	f/c*			f/c	Ø	F				f/c	f/c	F			f/c*	f/c*	f/c*	f/c*	f/c			f/c	f/c
Rhododendron (az) Glen Dale Hybrids					F	f/c		f/c				f/c	Ø	F									f/c*	f/c		f/c*				f/c	f/c
Rhododendron (az) obtusum	f/c*	f/c*	Ø	F	F	f/c	F	f/c	f/c*	f/c		f/c	Ø	F	f/c	d	f/c*	f/c	f/c	f/c		f/c*	f/c*	f/c*	f/c*	f/c*	f/c*			f/c	f/c
Rhododendron (az) Satzuki Hybrids	f/c*		f/c		F	f/c		f/c	f/c*			f/c	Ø	F			f/c	f/c	f/c	F			f/c*	f/c		f/c*	F*			f/c	f/c
Rhododendron spp. (rhodie)	f/c*		f/c*	F*	F	f/c	F*	f/c	f/c*	Ø*		f/c		F		d	f/c*	f/c	f/c	f/c*		f/c*	f/c*	f/c*	Ø*	f/c*	f/c*		f/c	f/c	f/c
Note: Some injury has been reported on certain cultivars / hybrids of R. carolinianum and catawbiense from Gallery, OH2, Rout and Snapshot TG. Check labels for details and precautions																															
Rhus spp.									f/c*																						
Rhus lancea									f/c			f/c														f/c	f/c			f/c	f/c

Table 6-6. Preemergence Herbicides Registered for Use on Woody Ornamentals (continued)

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<i>Rhus typhina</i>			f/c						f/c																						
<i>Ribes</i> spp.									F																	F	F			f/c	F
<i>Robinia</i> spp.				F	F						F*	f/c*								F										f/c*	
<i>Rosa</i> spp.		f/c*	f/c	F	F	f/c		f/c	f/c*		F								f/c	F				f/c					f/c		F
<i>Rosa banksiae</i>	f/c		f/c	F	F	f/c	F*	f/c		f/c	F								f/c	F		f/c		f/c							F
<i>Rosa</i> hybrids (Knockout)		f/c*	f/c	F	F	f/c	f/c	f/c	f/c		F				f/c	d			f/c	F				f/c							F
<i>Rosa rugosa</i>			f/c	F	F	f/c		f/c	f/c			f/c							f/c	F				f/c		f/c	F				F
<i>Rosa virginiana</i>															f/c	d															
<i>Rosa wichuriama</i>																d															
<i>Rosmarinus officinalis</i>	f/c						F		F			f/c							f/c			f/c				F	F			f/c	F
<i>Rubus</i> spp.			f/c	F					F																	F*	F*			f/c	F*
<i>Ruscus hypophyllum</i>										f/c																					
<i>Sabal minor</i>								f/c																							
<i>Salix</i> spp.				F	F							f/c		F						F								f/c		f/c	
<i>Salix babylonica</i>				F	F				F	f/c		f/c		F				f/c	f/c	F						F	F	f/c		f/c	F
<i>Salix matsudana</i>				F	F				F			f/c		F						F						F	F	f/c		f/c	F
<i>Samanea saman</i>																															
<i>Sambucus</i> spp.								Ø	F						Ø*																F
<i>Santolina virens</i>	f/c				F					f/c							f/c					f/c	f/c								
<i>Sarcococca hookeriana</i>		Ø*															Ø														
<i>Sequoia sempervirens</i>									f/c	f/c																	F				F
<i>Sequoiadendron giganteum</i>									F	f/c		f/c						f/c	f/c							F	F			f/c	F

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Skimmia spp.									f/c*																					f/c	
<i>Skimmia japonica</i>									f/c	f/c		f/c														f/c				f/c	
<i>Skimmia revesiana</i>									f/c	f/c		f/c														f/c				f/c	
Sorbus aspp.				F										F																	
<i>Sorbus aucuparia</i>				F			F							F																	
Spiraea spp.				F	F			f/c	f/c*					F						F			f/c						f/c*		
<i>Spiraea japonica</i>		f/c*	Ø	F	F			f/c	f/c*	f/c*		f/c*		F	Ø*			f/c	f/c	F			f/c			f/c*				f/c*	
<i>Spiraea nipponica</i>				F	F		F*	f/c						F						F			f/c								
<i>Spiraea x arguta</i>				F	F		F	f/c						F						F			f/c								
<i>Spiraea x bumalda</i>	f/c*			F	F		F*	f/c	f/c*	f/c*		f/c		F			f/c*	f/c*	f/c*	F		f/c*	f/c		f/c*	f/c*				f/c*	
<i>Spiraea x cinerea</i>				F	F			f/c	f/c*					F						F			f/c		F*	f/c*					
<i>Spiraea x vanhouttei</i>		f/c		F	F		F	f/c	f/c	f/c		f/c		F				f/c	f/c	F			f/c			f/c	F			f/c	F
Stewartia pseudocamellia								f/c																							
Styrax japonica																															
Swietenia mahogani									F	f/c		f/c														F	F			f/c	F
Syagrus romanzoffianum							f/c		f/c												F									f/c	
Symphoricarpos albus																d				F											
Syringa spp.				F	F			f/c						F						F			f/c	f/c				f/c	f/c		
<i>Syringa josikaea</i>			f/c	F	F									F						F			f/c	f/c				f/c			
<i>Syringa laciniata</i>				F	F									F				f/c	f/c	F			f/c	f/c				f/c			
<i>Syringa meyeri</i>				F	F									F			f/c*			F			f/c	f/c	f/c*			f/c			
<i>Syringa reticulata</i>				F	F									F				f/c	f/c	F			f/c	f/c				f/c			
<i>Syringa vulgaris</i>		f/c		F	F				F	f/c	F	f/c		F			f/c	f/c	f/c	F			f/c	f/c		F	f/c	f/c		f/c	F
<i>Syringa x (hybrids)</i>				F	F									F	f/c*	d*				F			f/c	f/c		f/c*		f/c		f/c	

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<i>Syzygium paniculatum</i>										f/c						d															
<i>Tamarix ramosissima</i>																d															
<i>Taxodium distichum</i>					F	f/c	F	f/c				f/c						f/c	f/c	F				f/c						f/c	
<i>Taxus spp.</i>				F	F	F		f/c			f/c			F						F	F		f/c	f/c					f/c		
<i>Taxus baccata</i>				F	F	F					f/c			F						F	F		f/c	f/c				f/c			
<i>Taxus canadensis</i>				F	F	F					f/c			F						F	F		f/c	f/c							
<i>Taxus cuspidata</i>	f/c		f/c	F	F	F	f/c*		F	f/c	f/c	f/c		F*		d	f/c*	f/c	f/c	f/c	F		f/c	f/c		F	F	f/c	f/c	f/c	F
<i>Taxus x media</i>	f/c	f/c*		F	F	F	F*			f/c	f/c	f/c		F	f/c	d		f/c	f/c	F	F	f/c	f/c	f/c	f/c*		F		f/c	f/c	F
<i>Tecomaria capensis</i>										f/c																					
<i>Ternstroemia gymnanthera</i>	f/c			F					f/c	f/c		f/c			f/c	d				F				f/c	f/c	f/c				f/c	
<i>Teucrium canadense</i>				Ø	Ø				f/c	f/c																					
<i>Thevitia neriifolia</i>										f/c																					
<i>Thuja spp.</i>				F		C	F*	f/c*						F	f/c	d				F	F		f/c	f/c					fc		
<i>Thuja occidentalis</i>	f/c	f/c*	f/c	F	F	C	F*	f/c	f/c*	f/c*	f/c	f/c*		F		d	f/c*	f/c	f/c	f/c	F	f/c	f/c	f/c	f/c*	f/c*	f/c*	f/c	f/c	f/c*	F
<i>Thuja orientalis</i> (<i>Platycladus orientalis</i>)			f/c	F	F	C	f/c*	f/c	f/c*	f/c*	f/c	f/c		F						F	F		f/c	f/c	f/c*	f/c*	f/c*	f/c		f/c*	f/c*
<i>Thuja plicata</i>			f/c	F	F	C		f/c						F				f/c	f/c	F	F		f/c	f/c			F		f/c		F
<i>Tibouchina urvilleana</i>																															
<i>Tilia spp.</i>				F		F						f/c		F				f/c	f/c												
<i>Tilia cordata</i>				F		F						f/c		F				f/c	f/c					f/c			f/c				f/c
<i>Trachelospermum spp.</i>																								f/c*							

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<i>Trachelospermum asiaticum</i>	f/c						F	f/c	f/c	f/c			F*		f/c				f/c							f/c				f/c	
<i>Trachelospermum jasminoides</i>						f/c	F						F				f/c							f/c	f/c		F				F
<i>Trachycarpus fortunei</i>							F		f/c	f/c									f/c												
<i>Tsuga spp.</i>						F		f/c*						F						F	F			f/c*					f/c		
<i>Tsuga canadensis</i>	f/c		f/c			F	F		f/c	f/c	F	f/c		F			f/c	f/c	f/c	f/c	F	f/c			f/c	f/c	Ø	f/c	f/c	f/c	
<i>Tsuga caroliniana</i>						F								F						F	F										
<i>Tsuga heterophylla</i>			f/c			F					f/c			F						F	F						f/c	f/c			
<i>Tsuga mertensiana</i>			f/c			F		f/c						F						F	F										
<i>Ulmus spp.</i>				F	F									F										f/c					f/c		
<i>Ulmus americana</i>				F	F									F		d					F			f/c							
<i>Ulmus japonica</i>				F	F			f/c						F				f/c	f/c					f/c							
<i>Ulmus parvifolia</i>			f/c	F	F		F*		F	f/c		f/c		F		d								f/c		F	F			f/c	F
<i>Ulmus pumila</i>				F	F	F								F							F			f/c							
<i>Vaccinium spp.</i>			f/c*	F			F*		F																f/c*	F	F				F
<i>Viburnum spp.</i>					F	F		f/c				f/c	Ø	F						f/c			f/c	f/c					f/c	f/c	
<i>Viburnum awabuki</i>																															
<i>Viburnum carlesii</i>					F	F		f/c	f/c	f/c		f/c	Ø	F						f/c			f/c	f/c	f/c	f/c	f/c			f/c	
<i>Viburnum davidii</i>					F	F		f/c	f/c	f/c		f/c	Ø	F			f/c			f/c			f/c	f/c*	f/c	f/c	F			f/c	F
<i>Viburnum dentatum</i>			f/c		F	F	F	f/c				f/c	Ø	F						f/c			f/c	f/c						f/c	
<i>Viburnum dilatatum</i>					F	F	F	f/c				f/c	Ø	F						f/c			f/c	f/c						f/c	
<i>Viburnum japonicum</i>	f/c	f/c*			F	F		f/c	F	f/c		f/c	Ø	F						f/c		f/c	f/c	f/c		F	F			f/c	F

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<i>Viburnum lantana</i>					F	F	F*	f/c	F	f/c		f/c	Ø	F		d				f/c			f/c	f/c		F				f/c	
<i>Viburnum macrocephalum</i>					F	F		f/c				f/c	Ø	F						f/c			f/c	f/c	f/c					f/c	
<i>Viburnum obovatum</i>		f/c																													
<i>Viburnum odoratissimum</i>	f/c		f/c*		F	F		f/c		f/c		f/c	Ø	F	Ø	Ø				f/c		f/c	f/c	f/c						f/c	
<i>Viburnum opulus</i>					F	F	f/c*	f/c	F	f/c		f/c	Ø	F						f/c			f/c	f/c		F	F*			f/c	F*
<i>Viburnum plicatum</i>	f/c				F	F		f/c*	F*	f/c		f/c	Ø	F	f/c	d				f/c		f/c	f/c	f/c	f/c*	f/c*	F*			f/c	F*
<i>Viburnum prunifolium</i>					F	F		f/c				f/c	Ø	F				f/c	f/c	f/c			f/c	f/c						f/c	
<i>Viburnum rufidulum</i>					F	F		f/c				f/c	Ø	F				f/c	f/c	f/c			f/c	f/c						f/c	
<i>Viburnum setigerum</i>					F	F		f/c	F	f/c		f/c	Ø	F						f/c			f/c	f/c		F	F			f/c	F
<i>Viburnum suspensum</i>	f/c				F	F		f/c		f/c		f/c	Ø	F				f/c	f/c	f/c		f/c	f/c	f/c			F			f/c	F
<i>Viburnum tinus</i>	f/c				F	F		f/c	F*	f/c*		f/c	Ø	F				f/c	f/c	f/c		f/c	f/c	f/c		F*	f/c*		f/c	f/c	f/c*
<i>Viburnum trilobium</i>	f/c	f/c*			F	F		f/c	f/c	f/c		f/c	Ø	F						f/c		f/c	f/c	f/c		f/c	F*			f/c	F
<i>Viburnum wrightii</i>	f/c				F	F	F	f/c		f/c		f/c	Ø	F						f/c		f/c	f/c	f/c						f/c	
<i>Viburnum x bodnanstense</i>			f/c		F	F		f/c	f/c			f/c	Ø	F						f/c			f/c	f/c		f/c				f/c	
<i>Viburnum x burkwoodii</i>															f/c	d															
<i>Viburnum x judd</i>					F	F		f/c	f/c			f/c	Ø	F						f/c			f/c	f/c		f/c	f/c			f/c	
<i>Viburnum x pragensense</i>					F	F		f/c	f/c	f/c		f/c	Ø	F						f/c			f/c	f/c		f/c	F			f/c	F
<i>Vinca major</i>	f/c								f/c	f/c							f/c*		f/c			f/c		f/c		f/c	F				F
<i>Vinca minor</i>	f/c	f/c					F	Ø	F	f/c					f/c							f/c		f/c	Ø	F	F			f/c	F

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F*, C*, or f/c* = registered for some species or cultivars; consult label for details

Ø* = prohibited for some cultivars within a species; consult label for details

Genus and species (Index of common names, by genus, is available in Table 6-9.)	Barricade	Biathlon	Broadstar	Casoron	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Goal	HGH 75	Image	Kerb	Marengo/Specticle G	Marengo/Specticle SC	OH2	Pendulum (EC)	Pendulum (granule)	Pennant Magnum	Princep	Regalkade	Regal OO	Ronstar G	Rout	Snapshot TG	Surflan	Sureguard	Tower	Treflan	XL
<i>Vitex spp.</i>															f/c*			f/c	f/c												
<i>Vitus spp.</i>	F		f/c	F		F			F*		F							f/c	f/c			f/c			f/c*	F*	F*			f/c	F*
<i>Washingtonia spp.</i>						f/c*	F		f/c*	f/c		f/c*						f/c	f/c	F*	F					F	F			f/c	F*
<i>Weigela spp.</i>				F	F			f/c	f/c*			f/c				d				F			f/c						f/c	f/c	
<i>Weigela florida</i>	f/c	f/c*	f/c	F	F				f/c*	f/c		f/c					f/c*	f/c	f/c	F		f/c	f/c			f/c*	F*		f/c	f/c	F*
<i>Wisteria aspp.</i>																		f/c											f/c		
<i>Wisteria sinensis</i>						F		f/c										f/c		F				f/c							
<i>Xylosma senticosa</i>										f/c																					
<i>Yucca spp.</i>									f/c											f/c										f/c	
<i>Yucca aloifolia</i>	f/c									f/c										f/c		f/c								f/c	
<i>Yucca elata</i>																				f/c							f/c			f/c	f/c
<i>Yucca filamentosa</i>	f/c								f/c	f/c		f/c						f/c	f/c	f/c		f/c				f/c				f/c	
<i>Yucca pendula</i>													F					f/c	f/c	f/c										f/c	
<i>Yucca recurvifolia</i>									Ø	Ø										f/c						Ø	F			f/c	F
<i>Zamia furfuracea</i>										f/c																					
<i>Zelkova spp.</i>								f/c																							

Note: The information in this table is intended as a guide only. Information was extracted from listed herbicide labels available at the time of publication. Label changes occur and despite the authors' best efforts, error do occur. The user is encouraged to consult the herbicide label before application. The use of brand names does not imply an endorsement of these products nor discrimination against similar products.

Table 6-7. Postemergence Herbicides Registered for Use on Woody Ornamentals

OT = registered for over-the-top use

D = registered for directed applications

O* = registered for over-the-top use on certain species within the genus; consult label for details

D* = registered for directed applications on certain species within the genus; consult label for details

	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Abelia x grandiflora</i>		OT	OT	OT	D		D			D	abelia, glossy
<i>Abies</i> spp.		OT	O*	O*	D			O*	O*	D	fir species
<i>Abies balsamea</i>		OT	OT	OT	D		D		OT	D	fir, balsam
<i>Abies concolor</i>		OT	OT	OT	D					D	fir, white (concolor)
<i>Abies fraseri</i>		OT	D	OT	D		D	OT	OT	D	fir, fraser
<i>Abies grandis</i>		OT		OT	D			OT	OT	D	fir, grand
<i>Abies magnifica</i>		OT		OT	D					D	fir, red
<i>Abies nordmanniana</i>		OT		OT	D					D	fir, Nordmann
<i>Abies procera</i>		OT	OT	OT	D			OT	OT	D	fir, Noble
<i>Acer</i> spp..	O*	OT	D*	O*	D	OT		D*	D*	D	maple species
<i>Acer ginnala</i>		OT	OT		D	OT				D	maple, Amur
<i>Acer negundo</i>		OT			D	OT				D	boxelder
<i>Acer nigrum</i>		OT			D	OT		D*		D	maple, black
<i>Acer palmatum</i>	OT	OT	OT	OT	D	OT				D	maple, Japanase
<i>Acer platanoides</i>		OT	OT		D	OT				D	maple, Norway
<i>Acer rubrum</i>	OT	OT	D	OT	D	OT		D*	D	D	maple, red
<i>Acer saccharinum</i>		OT	OT	OT	D	OT				D	maple, silver
<i>Acer saccharum</i>		OT	OT		D	OT		D		D	maple, sugar
<i>Aesculus</i> spp.					D					D	buckeye species
<i>Agave americana</i>			OT		D					D	century plant
<i>Albizia julibrissin</i>				OT	D					D	mimosa tree
<i>Alnus rubra</i>		OT			D					D	alder, red
<i>Arbutus unedo</i>			D	OT	D					D	strawberry tree
<i>Arctostaphylos uva-ursi</i>			OT		D	OT				D	bearberry (kinnikinnick)
<i>Ardisia crenata</i>		OT			D					D	coralberry
<i>Arecastum romanzoffianum</i>			OT	OT	D					D	palm, queen
<i>Aucuba</i> spp.		OT	O*		D					D	golddust species
<i>Aucuba japonica</i>		OT	O*		D					D	golddust, Japanese
<i>Baccharis pilularis</i>		OT			D					D	coyote brush
<i>Bambusa</i> spp.		OT			D					D	bamboo species
<i>Berberis</i> spp..	OT	O*	O*	O*	D	OT				D	barberry species
<i>Berberis buxifolia</i>		OT			D	OT				D	barberry, Magellan
<i>Berberis julianae</i>	OT				D	OT				D	barberry, wintergreen
<i>Berberis thunbergii</i>	OT	OT	OT	OT	D	OT				D	barberry, Japanese
<i>Berberis x mentorensis</i>	OT		OT	OT	D	OT				D	barberry, Mentor
<i>Betula</i> spp.		O*		OT	D	OT		D*		D	birch species
<i>Betula nigra</i>		OT		OT	D	OT		D		D	birch, river
<i>Betula papyrifera</i>		OT		OT	D	OT				D	birch, paper
<i>Betula pendula</i>		OT	OT	OT	D	OT				D	birch, European white
<i>Betula playtphylla</i>				OT	D	OT				D	birch, Asian white
<i>Bougainvillea</i> spp.			OT	OT	D					D	bougainvillea
<i>Buddleja</i> spp.							D			D	butterfly bush
<i>Buxus</i> spp.	O*	O*	O*	O*	D	OT	D			D	boxwood species
<i>Buxus harlandii</i>					D	OT	D			D	boxwood, harland

Table 6-7. Postemergence Herbicides Registered for Use on Woody Ornamentals (continued)

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D* = registered for directed applications on certain species within the genus; consult label for details

	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Buxus microphylla</i>	O*		O*	OT	OT	OT	D		OT	D	boxwood, littleleaf
<i>Buxus sempervirens</i>		OT	O*	OT	D	OT				D	boxwood, common
<i>Callistemon</i> spp.		O*	D*	O*	D					D	bottlebrush
<i>Callistemon lanceolatus</i>			OT	OT	D					D	bottlebrush,
<i>Calluna</i> spp.			O*		D	OT				D	heather species
<i>Camellia</i> spp.		O*	O*	O*	D	OT				D	camellia species
<i>Camellia japonica</i>		OT	OT	OT	D	OT				D	camellia, Japanese
<i>Camellia sasanqua</i>			OT	OT	D	OT				D	camellia, Sasanqua
<i>Caragana arborescens</i>					D	OT				D	pea-shrub, Siberian
<i>Carissa</i> spp.			O*	OT	D					D	carissa species
<i>Carissa grandiflora</i>			OT	OT	D					D	plum, Natal
<i>Carya illinoensis</i>		D		OT	D			D*		D	pecan
<i>Caryopteris clandonensis</i>				OT	D					D	bluebeard
<i>Cassia</i> spp.			D*	O*	D					D	senna
<i>Castanea mollissima</i>					D			D*		D	chestnut, Chinese
<i>Catalpa bignonioides</i>				OT	D					D	catalpa, southern
<i>Ceanothus americanus</i>					D	OT				D	redroot (squawcarpet)
<i>Ceanothus griseus</i>			D		D					D	ceanothus, Carmel
<i>Cedrus</i> spp.		OT			D					D	cedar species
<i>Cedrus atlantica</i>		OT			D					D	cedar, Atlas
<i>Cedrus deodara</i>		OT			D					D	cedar, deodar
<i>Celtis occidentalis</i>			OT	OT	D	OT				D	hackberry
<i>Ceratonia siliqua</i>				OT	D					D	carob tree
<i>Cercis canadensis</i>		OT	OT		D			D		D	redbud, eastern
<i>Chaenomeles speciosa</i>			OT		D	OT		D		D	quince, flowering
<i>Chamaecyparis</i> spp.	OT		O*	O*	D	O*				D	cypress, false
<i>Chamaecyparis lawsoniana</i>	OT		OT		D					D	cypress, Lawson
<i>Chamaecyparis obtusa</i>	OT		OT		D					D	cypress, Hinoki
<i>Chamaecyparis pisifera</i>	OT		D	OT	D					D	cypress, Japanese false
<i>Chamaerops humilis</i>			OT	OT	D					D	palm, Mediterranean fan
<i>Cistus</i> spp.			O*	O*	D	OT				D	rockrose
<i>Citrus</i> spp.		D	O*	OT	D			D		D	citrus, ornamental
<i>Cornus</i> spp.	O*	O*	O*	O*	D	OT		D*		D	dogwood species
<i>Cornus alternifolia</i>				OT	D	OT				D	dogwood, pagoda
<i>Cornus amomum</i>				OT	D	OT				D	dogwood, silky
<i>Cornus florida</i>	OT	OT	OT	OT	D	OT		D	D	D	dogwood, flowering
<i>Cornus kousa</i>					D	OT				D	dogwood, Korean
<i>Cornus mas</i>			OT		D	OT				D	dogwood, European
<i>Cornus sericea</i>			O*	OT	D	OT				D	dogwood, redosier
<i>Corylus</i> spp.		D*			D	OT		D*		D	filbert (hazelnut)
<i>Cotinus coggygia</i>					D					D	smokebush
<i>Cotoneaster</i> spp.	OT		O*	O*	D	OT				D	cotoneaster species
<i>Cotoneaster apiculatus</i>	OT		OT	OT	D	OT				D	cotoneaster, cranberry
<i>Cotoneaster dammeri</i>	OT		O*	OT	D	OT				D	cotoneaster, bearberry

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	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Cotoneaster horizontalis</i>	OT				D	OT				D	cotoneaster, rockspray
<i>Cotoneaster microphyllus</i>	OT		OT		D	OT				D	cotoneaster, littleleaf
<i>Cotoneaster salicifolius</i>	OT		O*		D	OT				D	cotoneaster, willowleaf
<i>Crataegus</i> spp.	OT				D					D	hawthorn species
<i>Cryptomeria japonica</i>					D					D	cedar, Japanese
<i>Cupressocyparis leylandii</i>			D	OT	D					D	cypress, Leyland
<i>Cupressus</i> spp.			O*	O*	D					D	cypress species
<i>Cupressus sempervirens</i>			OT	OT	D					D	cypress, Italian
<i>Cycas revoluta</i>			OT	OT	D					D	palm, sago
<i>Cytisus</i> spp.					D					D	broom species
<i>Deutzia</i> spp.			O*		D	OT				D	deutzia species
<i>Diervilla lonicera</i>			OT	OT	D					D	honeysuckle bush
<i>Diospyros virginiana</i>					D			D		D	persimmon
<i>Elaeagnus</i> spp.		O*	O*	O*	D	OT		D*		D	olive, elaeagnus species
<i>Elaeagnus angustifolia</i>		OT	OT	OT	D	OT		D		D	olive, Russian
<i>Elaeagnus pungens</i>			OT	OT	D	OT				D	olive elaeagnus, thorny
<i>Elaeagnus umbellata</i>				OT	D	OT				D	eleagnus, Autumn
<i>Erica</i> spp.					D					D	heath species
<i>Eriobotrya japonica</i>				OT	D			D		D	loquat
<i>Escallonia</i> spp.			O*	O*	D					D	escallonia species
<i>Escallonia rubra</i>			OT		D					D	escallonia, red
<i>Escallonia x exoniensis</i>				O*	D						escallonia, pink princess
<i>Eucalyptus</i> spp.		O*	D*	O*	D			D*		D	eucalyptus species
<i>Eucalyptus microtheca</i>			OT		D					D	eucalyptus, Coolibah
<i>Eucalyptus nicholii</i>			D	OT	D					D	eucalyptus, willow peppermint
<i>Eucalyptus rudis</i>			OT		D					D	eucalyptus, desert gum
<i>Eucalyptus viminalis</i>					D			D		D	eucalyptus, ribbon gum
<i>Euonymus</i> spp.	OT	OT	D*	O*	D	OT				D	euonymus species
<i>Euonymus alata</i>	OT	OT	D	O*	D	OT				D	euonymus, winged
<i>Euonymus fortunei</i>	OT	OT	OT		D	OT				D	euonymus, wintercreeper
<i>Euonymus japonica</i>	OT	OT	OT	O*	D	OT				D	euonymus, Japanese
<i>Euonymus kiautschovica</i>	OT	OT	OT	OT	D	OT				D	euonymus, spreading
<i>Fagus</i> spp.					D					D	beech species
<i>Fatsyhedera lizei</i>			OT		D					D	tree-ivy
<i>Ficus</i> spp.		O*			D			D*		D	fig species
<i>Forsythia</i> spp.	OT		OT	O*	D	OT				D*	forsythia species
<i>Forsythia intermedia</i>	OT		OT		D	OT				D*	forsythia, border
<i>Forsythia viridissima</i>	OT		OT	O*	D	OT				D	forsythia, greenstem
<i>Fraxinus</i> spp.		OT	O*	O*	D	OT		D*		D	ash species
<i>Fraxinus americana</i>		OT	OT	OT	D	OT		D		D	ash, white
<i>Fraxinus pennsylvanica</i>		OT	OT	OT	D	OT		D		D	ash, green
<i>Gardenia</i> spp.		OT	O*	O*	D	OT				D	jasmine species
<i>Gardenia jasminoides</i>		OT	OT	OT	D	OT				D	jasmine, cape
<i>Gelsemium sempervirens</i>			OT	OT	D					D	jessamine, Carolina

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	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Ginkgo biloba</i>					D					D	ginkgo
<i>Gleditsia triacanthos</i> var. <i>inermis</i>			OT	OT	D					D	honeylocust, thornless
<i>Grevillea robusta</i>		OT	OT		D	OT				D	oak, silk
<i>Gymnocladus dioica</i>				OT	D					D	coffee tree, Kentucky
<i>Hamamelis virginiana</i>					D					D	witchhazel
<i>Hedera canaiensis</i>			OT	OT	D					D	ivy, Algerian
<i>Hedera helix</i>	OT	OT	O*	OT	OT	OT				D	ivy, English
<i>Hemigraphis alternata</i>					D					D	red-ivy
<i>Hibiscus syriacus</i>			OT		D					D	rose-of-sharon (althea)
<i>Hydrangea</i> spp.	OT		O*	O*	D					D	hydrangea
<i>Hydrangea paniculata</i>	OT		OT		D					D	hydrangea, panicle
<i>Hydrangea quercifolia</i>	OT		OT		D					D	hydrangea, oakleaf
<i>Hypericum</i> spp.				O*	D					D	St. Johnswort
<i>Iberis sempervirens</i>		OT	OT	OT	D					D	candytuft
<i>Ilex</i> spp.	O*	OT	O*	O*	D	O*				D	holly species
<i>Ilex aquifolium</i>		OT			D	OT				D	holly, English
<i>Ilex aquifolium</i> x <i>comuta</i>		OT			D	OT				D	holly, English x Chinese
<i>Ilex cassine</i>		OT			D	OT				D	holly, dahoon
<i>Ilex comuta</i>		OT	OT	O*	O*		D*			D	holly, Chinese
<i>Ilex crenata</i>	OT	OT	O*	O*	OT					D	holly, Japanese
<i>Ilex glabra</i>		OT	OT		D					D	inkberry
<i>Ilex latifolia</i>		OT			D	OT				D	holly, lusterleaf
<i>Ilex meserveae</i>	OT	OT	OT		D	OT	D			D	holly, blue boy/girl
<i>Ilex opaca</i>	OT	OT	OT		D	OT				D	holly, American
<i>Ilex vomitoria</i>		OT	OT	OT	D	OT	D			D	holly, yaupon
<i>Ilex</i> x <i>attenuata</i>		OT	OT		D	OT				D	holly, Foster's hybrid
<i>Illicium</i> spp.		O*			D					D	anise tree
<i>Illicium floridanum</i>		OT			D					D	anise, Florida
<i>Jasminum</i> spp.		OT		O*	D					D	jasmine species
<i>Juglans nigra</i>		D		OT	D			D*		D	walnut, black
<i>Juglans</i> spp.		D		OT	D	O*		D*		D	walnut species
<i>Juniperus</i> spp.	O*	OT	D*	O*	D	OT	D	O*	OT*	D*	juniper species
<i>Juniperus chinensis</i>	O*	OT	D*	O*	D	OT	D	OT		D*	juniper, Chinese
<i>Juniperus conferta</i>	O*	OT	D*	O*	D	OT	D		OT	D*	juniper, shore
<i>Juniperus davurica</i> 'Parsoni'	OT	OT			D	OT	D			D	juniper, Parson
<i>Juniperus excelsa</i>		OT		OT	D	OT	D			D*	juniper, Greek
<i>Juniperus horizontalis</i>	O*	OT	D*	O*	D	OT	D	OT	OT	D*	juniper, creeping
<i>Juniperus procumbens</i>		OT		O*	D	OT	D	OT		D*	juniper, Japanese garden
<i>Juniperus sabina</i>		OT	D*	O*	D	OT	D	OT		D*	juniper, Savin
<i>Juniperus scopulorum</i>		OT	D*		D	OT	D	OT		D	juniper, Rocky Mountain
<i>Juniperus squamata</i>		OT		OT	D	OT	D		OT	D*	juniper, singleseed
<i>Juniperus virginiana</i>		OT	D*	O*	D	OT	D	OT		D	cedar, eastern red
<i>Justica</i> spp.		O*	D*	O*	D					D	shrimp species
<i>Justicia brandegeana</i>		OT	D	OT	D					D	shrimp plant

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	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Kalmia latifolia</i>					D	OT				D	laurel, mountain
<i>Koeleruteria paniculata</i>			OT	OT	D	OT				D	golden raintree
<i>Kolkwitzia amabilis</i>					D	OT				D	beautybush
<i>Laburnum anagyroides</i>		OT			D					D	laburnum (golden-chaintree)
<i>Lagerstroemia indica</i>		OT	OT	OT	D		D	D		D	myrtle, common crape
<i>Lantana spp.</i>		OT	D*	O*	D					D	lantana
<i>Larix spp.</i>				O*	D					D	larch species
<i>Lavendula spp.</i>				O*	D					D	lavender species
<i>Leucophyllum frutescens</i>			OT		D					D	sage, Texas
<i>Leucothoe spp.</i>			D*		D	OT				D	leucothoe species
<i>Leucothoe axillaris</i>			D		D	OT				D	leucothoe, coast
<i>Ligustrum spp.</i>	OT	OT	D*	O*	D	OT				D	privet species
<i>Ligustrum amurense</i>		OT	OT		D	OT				D	privet, Amur
<i>Ligustrum japonicum</i>	OT	OT	D*	OT	D	OT				D	privet, Japanese
<i>Ligustrum lucidum</i>	OT	OT	OT	OT	D	OT				D	privet, waxleaf
<i>Ligustrum ovalifolium</i>	OT	OT	OT		D	OT				D	privet, California
<i>Ligustrum sinense</i>	OT	OT			D	OT				D	privet, Chinese
<i>Ligustrum x vicaryi</i>	OT	OT	OT		D	OT				D	privet, golden
<i>Liquidambar styraciflua</i>		OT	OT	OT	D			D		D	sweetgum, American
<i>Liriodendron tulipifera</i>				OT	D	OT		D		D	poplar, tulip
<i>Livistona chinensis</i>			OT		D					D	palm, Chinese fan
<i>Lonicera spp.</i>		O*	D*	O*	D	OT				D	honeysuckle species
<i>Lonicera japonica</i>					D	OT				D	honeysuckle, Japanese
<i>Lonicera morrowii</i>			OT	OT	D	OT				D	honeysuckle, Morrow
<i>Lonicera pileata</i>		OT			D	OT				D	honeysuckle, privet
<i>Lonicera xylosteum</i>			OT		D	OT				D	honeysuckle, European fly
<i>Maclura pomifera</i>				OT	D					D	osage orange
<i>Magnolia spp.</i>	OT		D*	O*	D	OT				D	magnolia species
<i>Magnolia grandiflora</i>	OT		D*	OT	D	OT	D			D	magnolia, southern
<i>Magnolia stellata</i>	OT		OT		D					D	magnolia, star
<i>Mahonia spp.</i>		O*	O*	O*	D					D	mahonia species
<i>Mahonia aquifolium</i>		OT	OT	OT	D					D	grape-holly, Oregon
<i>Mahonia x wagneri</i>			OT		D					D	grape-holly
<i>Malus spp.</i>		O*	O*	OT	D	OT		D*		D	crabapple species
<i>Malus floribunda</i>			OT	OT	D	OT		D		D	crabapple, Japanese
<i>Malus halliana</i> var. <i>parkmanii</i>		OT		OT	D					D	crabapple, parkmanii
<i>Malus x domestica</i>		D		OT	D			D*		D	apple, common
<i>Morus alba</i>		OT			D	OT				D	mulberry, white
<i>Myoporum spp.</i>			O*	O*	D					D	myoporum species
<i>Myrica cerifera</i>			OT		D					D	myrtle, wax
<i>Myrica pensylvanica</i>		OT			D					D	myrtle (bayberry)
<i>Myrtus communis</i>				O*	D					D	myrtle, common
<i>Nandina domestica</i>	OT	OT	D	OT	D	OT				D	nandina (heavenly bamboo)
<i>Nerium oleander</i>	OT	OT	D*	OT	D					D	oleander

Table 6-7. Postemergence Herbicides Registered for Use on Woody Ornamentals (continued)

OT = registered for over-the-top use

D = registered for directed applications

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D* = registered for directed applications on certain species within the genus; consult label for details

	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Nyssa sylvatica</i>					D					D	tupelo, black
<i>Ochna serrulata</i>				OT	D					D	bird's-eye bush
<i>Olea spp.</i>		D	O*	OT	D			D*		D	olive
<i>Osmanthus spp.</i>		O*	O*	O*	D	OT				D	osmanthus species
<i>Osmanthus fragrans</i>		OT	OT	OT	D	OT				D	olive, fragrant tea
<i>Osmanthus heterophyllus</i>				OT	D	OT				D	osmanthus (false-holly)
<i>Oxydendrum arboreum</i>					D					D	sourwood
<i>Pachysandra terminalis</i>		OT	OT	OT	OT					D	pachysandra, Japanese
<i>Parkensonia aculeata</i>			OT	OT	D					D	palo verde, green
<i>Parthenocissus tricuspidata</i>				OT	D					D	ivy, Boston
<i>Paulownia tomentosa</i>				OT	D					D	princess tree
<i>Paxistima canbyi</i>					D	OT				D	paxistima (pachistima)
<i>Phellodendron amurense</i>					D	OT				D	corktree, Amur
<i>Philadelphus spp.</i>			O*	OT	D	OT				D	mockorange
<i>Phoenix roebelenii</i>			OT	OT	D					D	palm, pygmy date
<i>Photinia fraseri</i>	OT	OT	OT	OT	D	OT				D	photinia, fraser (red-tip)
<i>Photinia glabra</i>	OT	OT		OT	D	OT				D	photinia, smooth
<i>Phyllostachys aurea</i>			OT		D					D	bamboo, golden
<i>Physocarpus spp.</i>			O*	O*	D					D	ninebark species
<i>Physocarpus opulifolius</i>			OT	O*	D					D	ninebark
<i>Picea spp.</i>		OT	O*	O*	D			O*	O*	D*	spruce species
<i>Picea abies</i>		OT	OT	OT	D		D	OT	OT	D	spruce, Norway
<i>Picea glauca</i>		OT	OT	OT	D			O*	OT	D*	spruce, white
<i>Picea pungens</i>		OT	OT	OT	D			OT	OT	D	spruce, Colorado blue
<i>Picea rubens</i>		OT			D					D	spruce, red
<i>Picea sitchensis</i>		OT			D			OT		D	spruce, Sitka
<i>Pieris japonica</i>			OT	OT	D					D	andromeda, Japanese
<i>Pieris spp.</i>			O*	O*	D					D	andromeda species
<i>Pinus spp.</i>	O*	OT	O*	O*	D	O*		O*	O*	D*	pine species
<i>Pinus banksiana</i>		OT		OT	D	OT		OT		D	pine, Jack
<i>Pinus clausa</i>		OT			D						pine, sand
<i>Pinus contorta</i>		OT		OT*	D	OT		OT	OT	D	pine, Lodgepole
<i>Pinus echinata</i>		OT			D	OT		OT		D	pine, shortleaf
<i>Pinus elliotii</i>		OT	OT	OT	D	OT		OT		D	pine, slash
<i>Pinus mugo</i>		OT	OT	OT	OT	OT		OT	OT	D*	pine, mugo
<i>Pinus nigra</i>		OT	OT	OT	D	OT		OT		D	pine, Austrian
<i>Pinus omorika</i>		OT	OT		D						pine, Serbian
<i>Pinus palustris</i>		OT	OT	OT	D	OT		OT		D	pine, longleaf
<i>Pinus parviflora</i>		OT		OT	D	OT				D	pine, Japanese white
<i>Pinus pinea</i>		OT		OT	D	OT				D	pine, Italian stone
<i>Pinus ponderosa</i>		OT	OT	O*	D	OT		OT	OT	D	pine, Ponderosa
<i>Pinus pungens</i>		OT	OT		D						pine, table-mountain
<i>Pinus radiata</i>		OT	OT	OT	D	OT		OT		D	pine, Monterey
<i>Pinus resinosa</i>		OT	OT	OT	D	OT				D	pine, red (Norway)

Table 6-7. Postemergence Herbicides Registered for Use on Woody Ornamentals (continued)

OT = registered for over-the-top use

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D* = registered for directed applications on certain species within the genus; consult label for details

	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Pinus rigida</i>		OT	OT		D	OT					pine, pitch
<i>Pinus serotina</i>		OT	OT		D	OT					pine, pond
<i>Pinus strobiformis</i>		OT			D	OT					pine, Southwestern white
<i>Pinus strobus</i>	OT	OT	OT	OT	D	OT		OT	OT	D	pine, white
<i>Pinus sylvestris</i>		OT	OT	OT	D	OT		OT	OT	D	pine, Scotch
<i>Pinus taeda</i>		OT	OT	OT	D	OT		OT		D	pine, loblolly
<i>Pinus thunbergii</i>		OT		OT	D	OT				D	pine, Japanese black
<i>Pinus virginiana</i>		OT	OT	OT	D	OT		OT		D	pine, scrub (Virginia)
<i>Pinus wallichiana</i>		OT			D	OT		OT		D	pine, Himalayan white
<i>Pistacia</i> spp.		D*		OT	D			D*		D	pistachio
<i>Pittosporum</i> spp.		OT	O*	O*	D	OT				D	pittosporum
<i>Pittosporum tobira</i>		OT	OT	OT	D	OT				D	pittosporum, Tobira
<i>Platanus occidentalis</i>			OT	OT				D	D	D	sycamore
<i>Platanus x acerifolia</i>			OT							D	planetree, London
<i>Playtcladus orientalis</i>			OT	OT	D	OT		OT		D*	arborvitae, Oriental
<i>Plumbago</i> spp.			O*		D					D	plumbago
<i>Podocarpus gracilor</i>		OT	D		D					D	podocarpus species
<i>Podocarpus macrophyllus</i>			OT	OT	D						podocarpus, Chinese
<i>Populus alba</i>				OT	D			D*			poplar, white
<i>Populus</i> spp.				O*	D	OT		D		D	poplar species
<i>Populus deltoides</i>					D	OT		D		D	cottonwood, eastern
<i>Potentilla</i> spp.		OT	O*	O*	D				D*	D	potentilla (cinquefoil)
<i>Potentilla fruticosa</i>		OT	O*		D				D	D	potentilla, bush
<i>Potentilla verna</i>			OT	O*	D						potentilla (cinquefoil) verna
<i>Prosopis chilensis</i>			OT		D					D	mesquite, Chilean
<i>Prunus</i> spp.		D		OT	D			D		D	apricot (Stone)
<i>Prunus</i> spp.				OT	D			D		D	nectarine
<i>Prunus</i> spp.		D*	D*	OT	D			D*		D	cherry species
<i>Prunus avium</i>		D		OT	D						cherry, sweet
<i>Prunus caroliniana</i>			O*	O*	D					D	cherry-laurel, Carolina
<i>Prunus cerasifera</i>				OT	D			D		D	plum, cherry
<i>Prunus glandulosa</i>				OT	D	OT		D*		D	almond, flowering
<i>Prunus laurocerasus</i>				OT	D					D	cherry-laurel, common
<i>Prunus persica</i>		D		OT	D	OT		D*		D	peach, common
<i>Prunus sargentii</i>				OT	D			D		D	cherry, sargent
<i>Prunus serotina</i>				OT	D			D		D	cherry, black
<i>Prunus serrulata</i>				OT	D			D		D	cherry, Japanese
<i>Prunus</i> spp.		D		OT	D			D		D	prunes
<i>Prunus subhirtella pendulata</i>				OT	D			D		D	cherry, Higan
<i>Prunus tomentosa</i>				OT	D						cherry, Manchu
<i>Prunus triloba</i>		OT	OT	OT	D	OT		D*		D	almond
<i>Prunus x cistena</i>				OT	D			D		D	cherry, purpleleaf sand
<i>Prunus yedoensis</i>				OT	D			D		D	cherry, Yoshino
<i>Pseudotsuga menziesii</i>		OT	OT	OT	D		D	OT	OT	D*	fir, Douglas

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D* = registered for directed applications on certain species within the genus; consult label for details

	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran T0	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Pyracantha</i> spp.	OT	OT	O*	O*	D	OT				D	pyracantha species
<i>Pyracantha coccinea</i>	OT	OT	O*		D	OT				D	pyracantha, scarlet
<i>Pyracantha fortuneana</i>		OT		O*	D	OT				D	pyracantha, Chinese
<i>Pyracantha</i> 'Mohave'			OT		D	OT				D	pyracantha, Mohave
<i>Pyrus</i> spp.		D*	O*	OT	D			D*		D	pear species
<i>Pyrus calleryana</i> 'Bradford'			OT	OT	D			D		D	pear, Bradford
<i>Pyrus communis</i>		D		OT	D			D*		D	pears
<i>Quercus alba</i>		OT		OT	D	OT				D	oak, white
<i>Quercus</i> spp.		OT	O*	O*	O*	OT		D*	D*	D	oak species
<i>Quercus coccinea</i>		OT			D	OT				D	oak, scarlet
<i>Quercus nigra</i>		OT		OT	D	OT		D		D	oak, water
<i>Quercus pagoda</i>		OT			D	OT		D		D	oak, cherrybark
<i>Quercus palustris</i>		OT	OT		D	OT		D		D	oak, pin
<i>Quercus phellos</i>		OT		OT	D	OT		D	D	D	oak, willow
<i>Quercus prinus</i>		OT			D	OT		D		D	oak, Chestnut
<i>Quercus rubra</i>		OT		OT	OT	OT		D	D	D	oak, red
<i>Quercus virginiana</i>		OT	OT		D	OT				D	oak, live
<i>Raphiolepis indica</i>		OT	OT	OT	D					D	hawthorn, Indian
<i>Raphiolepis umbellata</i>			OT		D					D	hawthorn, Yedda
<i>Rhamnus frangula</i>				O*	D						buckthorn, tallhedge
<i>Rhamnus</i> spp.			OT	O*	D					D	buckthorn species
<i>Rhododendron</i> (spp.) (azalea)	OT	OT	D*	O*		O*	D			D	azalea spp.
<i>Rhododendron</i> (azalea) Gable hybrids	OT	OT	O*			OT	D				azalea, Gable hybrids
<i>Rhododendron</i> (azalea) Girard hybrids	OT	OT	O*			OT	D				azalea, Girard hybrids
<i>Rhododendron</i> (azalea) Glend Dale hybrids	OT	OT	OT			OT	D				azalea, Glend Dale hybrids
<i>Rhododendron</i> (azalea) Kurume hybrids	OT	OT	D	O*		OT	D				azalea, Kurume hybrids
<i>Rhododendron</i> (azalea) Northern Lights hybrid	OT	OT		O*		OT	D				azalea, Pericat hybrids
<i>Rhododendron</i> (azalea) Pericat hybrids	OT	OT	O*			OT	D				azalea, Northern Lights hybrid
<i>Rhododendron</i> (azalea) Ruthfordiana hybrids	OT	OT	O*			OT	D				azalea, Ruthfordiana hybrids
<i>Rhododendron</i> (azalea) Satsuki hybrids	OT	OT	O*			OT	D				azalea, Satsuki hybrids
<i>Rhododendron</i> (azalea) southern indica types	OT	OT	O*			OT	D				azalea, southern indica types
<i>Rhododendron</i> spp.	OT	OT	D*	O*		OT	D			D*	rhododendron species
<i>Rhododendron carolinianum</i>	OT	OT		O*		OT	D			D*	rhododendron, Carolina
<i>Rhododendron catawbiense</i>	OT	OT	O*	O*		OT	D		OT*	D*	rhododendron, Catawba
<i>Rhododendron indicum</i>	OT	OT	D*	O*		O*	D			D	azalea, Macranthum
<i>Rhododendron maximum</i>	OT	OT		O*		OT	D			D*	rhododendron, rosebay
<i>Rhododendron molle</i>	OT	OT		O*		O*	D			D	azalea, Chinese
<i>Rhododendron obtusum</i>	OT	OT	D*	O*		O*	D		OT*	D	azalea, Hiryu
<i>Rhododendron</i> PJM group	OT	OT	D*			OT	D			D	rhododendron, PJM
<i>Rhus</i> spp.			O*	O*	D					D	sumac
<i>Ribes alpinum</i>				OT	D					D	currant, alpine
<i>Robinia</i> spp.				O*	D	OT		D*		D	locust species
<i>Robinia pseudoacacia</i>				OT	D	OT		D			locust, black
<i>Rosa banksiae</i>			OT		D		D			D	rose, Banks

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	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Rosa</i> spp.	OT	OT	O*		D	OT	D			D	rose species
<i>Rosmarinus</i> spp			O*		D					D	rosemary
<i>Rubus</i> spp.		D		OT	D					D	blackberry, dewberry, raspberry
<i>Salix</i> spp.	OT		D*	O*	D	OT				D	willow species
<i>Salix alba</i>	OT		OT		D	OT				D	willow, white
<i>Salix babylonica</i>	OT		OT		D	OT				D	willow, weeping
<i>Salix babylonica</i>	OT		OT		D	OT				D	willow, Babylon weeping
<i>Salix matsudana</i>	OT			O*	D	OT				D	willow, Hankow
<i>Salix purpurea</i>	OT		OT		D	OT				D	willow, purpleosier
<i>Samanea saman</i>					D					D	rain-tree (ohai)
<i>Sambucus</i> spp.					D					D	elderberry species
<i>Santolina chamaecyparissus</i>			OT	OT	D					D	lavender, cotton
<i>Sequoia sempervirens</i>				OT	D					D	redwood, coast
<i>Sophora japonica</i>			OT		D					D	pagoda, Japanese
<i>Sorbus americana</i>				OT	D	OT					mountain-ash, American
<i>Sorbus</i> spp.			O*	O*	D	OT				D	mountain-ash species
<i>Sorbus aucuparia</i>				OT	D	OT				D	mountain-ash, European
<i>Sorbus decora</i>				OT	D	OT				D	mountain-ash showy
<i>Spiraea</i> spp.		O*	D*	O*	D	OT	D		D*	D	spirea species
<i>Spiraea japonica</i>			O*	O*	D	OT	D		D*	D	spirea, Japanese
<i>Spiraea nipponica</i>			OT	O*	D	OT	D			D	spirea, Snowmound
<i>Spiraea thunbergii</i>		O*	OT		D	OT	D			D	spirea, Thunburg
<i>Spiraea vanhouttei</i>			D*	OT	D	OT	D			D	spirea, Vanhoutte
<i>Spirea x bumalda</i>					D	OT	D			D	spirea,
<i>Symphoricarpos albus</i>					D					D	snowberry
<i>Syringa</i> spp.			O*	O*	D	OT		D*		D	lilac species
<i>Syringa chinensis</i>			D	OT	D	OT				D	lilac, Chinese
<i>Syringa meyeri</i>			OT	OT	D	OT				D	lilac, Meyer
<i>Syringa patula</i>					D	OT				O*	lilac, Korean
<i>Syringa pubescens</i> subsp. <i>patula</i>					D	OT				D	lilac, Manchurian
<i>Syringa villosa</i>			OT		D	OT				D	lilac, late
<i>Syringa vulgaris</i>				O*	D	OT		D		D	lilac, common
<i>Syringa x persica</i>					D	OT				D	lilac, Persian
<i>Syzygium paniculatum</i>			OT	OT	D					D	cherry, magenta
<i>Taxodium distichum</i>		OT			D					D	cypress, bald
<i>Taxus</i> spp.	OT	OT	O*	O*	O*	OT	D	OT	OT*	D*	yew species
<i>Taxus baccata</i>	OT	OT		OT	D	OT	D	OT			yew, English
<i>Taxus canadensis</i>	OT	OT			D	OT	D	OT		D*	yew, American
<i>Taxus cuspidata</i>	OT	OT	OT	O*	OT	OT	D	OT		D*	yew, Japanese
<i>Taxus x media</i>	OT	OT	O*		O*	OT	D	OT	OT	D*	yew, Anglojap
<i>Temstroemia gymnanthera</i> (<i>Cleyera japonica</i>)		OT	OT		D	OT				D	cleyera, Japanese
<i>Thuja</i> spp.		O*	O*	O*	O*	OT	D	O*		D*	arborvitae species
<i>Thuja occidentalis</i>		OT	O*	O*	OT	OT	D	OT	OT*	D*	arborvitae, American
<i>Tilia americana</i>		OT	OT	OT	D	OT					basswood (linden), American

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	Acclaim Extra	Envoy	Fusilade II	Segment	Basagran TO	Casoron	Dismiss	Goal	Lontrel	Sedge- hammer	Common Name
<i>Tilia</i> spp.		OT	OT	O*	D	OT				D	basswood (linden)
<i>Tilia cordata</i>		OT	OT	OT	D	OT					basswood (linden), littleleaf
<i>Trachelospermum asiaticum</i>		OT	OT	OT	D					D	jasmine, Asiatic
<i>Trachelospermum jasminoides</i>		OT	OT	OT	D					D	jasmine, star
<i>Trachycarpus fortunei</i> (<i>Chamaerops excelsa</i>)			OT	OT	D					D	palm, windmill
<i>Tsuga</i> spp.		O*	O*	O*	D			O*		D*	hemlock species
<i>Tsuga canadensis</i>		OT	OT	OT	D			OT		D*	hemlock, Canada
<i>Tsuga caroliniana</i>					D					D*	hemlock, Carolina
<i>Tsuga heterophylla</i>		OT			D			OT		D	hemlock, Western
<i>Ulmus americana</i>					D	OT				D	elm, American
<i>Ulmus</i> spp.				O*	D	OT				D	elm species
<i>Ulmus pumila</i>					D	OT				D	elm, Siberian
<i>Vaccinium</i> spp.		D	D*	OT	D					D	blueberry
<i>Viburnum</i> spp.	OT	O*	D*	O*	D					D	viburnum species
<i>Viburnum dentatum</i>	OT		OT	OT	D					D	viburnum, arrowwood
<i>Viburnum japonicum</i>	OT		OT	OT	D					D	viburnum, Japanese snowball
<i>Viburnum lantana</i>	OT		O*	OT	D					D	viburnum, Wayfaringtree
<i>Viburnum lentago</i>	OT		OT	OT	D					D	viburnum, nannyberry
<i>Viburnum opulus</i>	OT		OT	O*	D					D	viburnum, European cranberrybush
<i>Viburnum plicatum</i>	OT		OT		D					D	viburnum, doublefile
<i>Viburnum suspensum</i>	OT		OT	O*	D					D	viburnum, Sandankwa
<i>Viburnum tinus</i>	OT	OT		OT	D					D	viburnum, laurustinus
<i>Viburnum trilobum</i>	OT		OT	OT	D					D	viburnum, American cranberry bush
<i>Viburnum wrightii</i>	OT				D					D	viburnum, Wright
<i>Viburnum x juddi</i>	OT		OT		D					D	viburnum, Judd
<i>Viburnum x rhytidophylloides</i>	OT		OT		D					D	viburnum, Lantanaphyllum
<i>Vinca major</i>	OT				D					D	periwinkle, large
<i>Vinca minor</i>	OT	OT	O*	O*	D					D	periwinkle, common
<i>Vitis</i> spp.		D		OT	D			D*		D	grapes
<i>Weigela florida</i>	OT		OT		D	OT				D	weigela, old fashioned
<i>Weigela</i> spp.	OT		O*		D	OT				D	weigela species
<i>Wisteria</i> spp.		OT		O*	D					D	wisteria
<i>Yucca</i> spp.			O*		D					D	yucca species
<i>Yucca filamentosa</i>			OT		D					D	yucca, Adam's needle
<i>Yucca gloriosa</i>			OT		D					D	yucca, Spanish-dagger
<i>Yucca recurvifolia</i>			OT		D					D	yucca, curveleaf

Table 6-8. Herbicides registered for use on herbaceous ornamentals

y = registered for some species of this genus

e = registered for some species of this genus, apply only after established

d = registered for some species of this genus, directed application only

x = NOT registered/prohibited from use on some species

	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Post	Post	Post	Post	Post	Post	Post	
Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREEN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
<i>Acanthus mollis</i>																														
<i>Achillea</i>	y	y	y		d	y	y	y	e				e	y		e	e			y	e	e	e	e	d	y	y		d	y
<i>Acorus</i>		y			d								e									e			d	y			d	y
<i>Agapanthus</i>	y	y		y	d	y	y	y	e				e	e	y	e	e	e	y	y	e	e	e		d		y		d	y
<i>Agastache</i>						y							e												d				d	
<i>Ageratum</i>			y	y					e			x		e	y						y	e			d	y	y		d	
<i>Ajuga</i>		y	x	y	d		x	x	e				e	e	y	e		e		y		e	e	e	y	y	d		d	y
<i>Alcea</i>																				y				d		y		d		
<i>Allium</i>	y							y							y										d				d	
<i>Alstroemeria</i>				y													e								d				d	
<i>Alyssum (Lobularia)</i>			y											e	y				e	y	e			e	d	y	y		d	y
<i>Amaranthus</i>																									d				d	
<i>Ammophila</i>		y			d	x							e	e			e		x	y	e				d				d	
<i>Anagallis</i>																								e	d				d	
<i>Anemone</i>	y					y								e											d				d	
<i>Angelonia</i>						y													y											
<i>Antirrhinum</i>			y		d									e	y	e	e	e		y	e	e	e	e	y		y		d	y
<i>Aptenia</i>								y																						
<i>Aquilegia</i>	y		y		d	x	y		e		x			e	y				x			e		e	d		d		d	y
<i>Arctotheca</i>	y	y					y	y					e	e			e	e		y	e		e		d		y		d	y
<i>Arctotis</i>				y																y	e				d				d	
<i>Argyranthemum</i>								y																						
<i>Amsonia</i>						x																								
<i>Arenaria</i>																	x								d		y		d	
<i>Arisaema</i>																									d				d	y
<i>Armeria</i>						x		y						e							e				d				d	y
<i>Artemesia</i>	y		y					y	e					e	y		e			y					d				d	

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Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
Arundo		y											e	e					x	y					d				d	
Asclepias		y				x								e	y										d				d	y
Asparagus		y		y	d		y	y		y	d		e	e			e	e		y	e	e			d	y	y		d	y
Aspidistra							y	y						e											d				d	
Aster	y	y	y	y			y	y	e					e	y		e	e		y	e	e			d				d	y
Astilbe					d	y			e	x				e			e	e			e		e	e	d				d	
Athyrium	y			y														e			e	e		d				d		
Aurinia (Alyssum)																									d				d	
Baptisia									e					e											d				d	
Begonia	y				d	x	y		x					e			e		x	y	e	e	x	e	d		d		d	y
Bergenia	y						y		e					e											d				d	y
Bidens								y																						
Boltonia	y			y																					d	y			d	
Bougainvillea	y			y	y			y							y	e							e		d		y		d	y
Bouteloua																									d			e	d	
Brachyscome								y																						
Brassica							x	x						e			x	e							y				d	
Caladium						y								e				e	y				e		d				d	
Calamagrostis						x			e	x									x	y					d			e	d	
Calendula																				y	e				d		y		d	y
Callistephus					d		y							e			e	e	e						d				d	
Calluna	y			y					x				e	e		e					e	e			d		y		d	
Campanula	y		y	y		y			x					e	y			e		y	e		e	e	d		y		d	y
Canna						y			e				e	e	y										d				d	y
Capsicum																									d				d	
Carex					d		y	y	x	y	x			e	y		e		y	y	e	e			d				d	
Carpobrotus								y	e																					

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Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
<i>Catharanthus</i>						x	y	y		y				e			e			y					d		d		d	y
<i>Celosia</i>					d	x						x		e			x		y			e			d				d	y
<i>Centaurea</i>					d															y	e	e		e	d				d	y
<i>Cerastium</i>																	e			y	e			e	d	y	y		d	
<i>Ceratostigma</i>								y									e				e				d				d	y
<i>Chasmanthium</i>						x													x	y					d			e	d	
<i>Chelone</i>						y																								
<i>Chrysanthemum</i>			y	y		y			x			x		e	y	e	e	e	y	y	e		e	e	d	y			d	y
<i>Cirsium</i>																									d				d	
<i>Clarkia</i>																								e	d				d	
<i>Clematis</i>						y						x					e		y						d				d	
<i>Clivia</i>																														
<i>Codiaeum</i>										x	x																			
<i>Consolida</i>																									d				d	
<i>Convallaria</i>																									d				d	
<i>Coreopsis</i>	y		y		d	x	y		e	x	x	y		e	y	e	e	e		y	e	e	e	e	d	y	y		d	y
<i>Coronilla (Vicia)</i>														e						y	e				d				d	
<i>Cortaderia</i>	y	y			d	x	y					y	e	e	y		e	e	x	y	e	e	e		d			e	d	
<i>Cosmos</i>			y																	y	e			e	d				d	y
<i>Crococsmia</i>	y												e	e											d				d	
<i>Crocus</i>														e	y										d				d	
<i>Codiaeum</i>										x																				
<i>Cuphea</i>							y	y									e	e							d	y			d	y
<i>Cyperus</i>							y	y									e								d		d		d	
<i>Cyrtomium</i>								y																						
<i>Dahlia</i>			y	y			y							e		e	e		e	y	e				d	y			d	y
<i>Dalea greggii</i>								y																						

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Daucus															y										d				d	y	
Delosperma	y			y	y	y	y							e			e	e	y	y			e	e		d			d		
Delphinium	y				d				x						y								e			d			d		
Dennstaedtia				y																			e			d			d		
Deschampsia		y			d	x	y						e	e			e			x	y	e	e			d			e	d	
Dianthus	y		x			y	y			x	x	x				y					y	e	e			d			d	y	
Dianthus	y		x			y	y			x	x						e	e				e	e		e	d	y		d	y	
Dianthus			x		d	y	y		e	x	x			e	y	e		e			y	e	e	e	e	d			d	y	
Dicentra			y	y									e	e			x	e			y			e	e	d	y		d	y	
Dietes								y																							
Digitalis			y						e			x		e		e	x	e			y					d			d	y	
Dimorphotheca																		e		y	e		e		d				d		
Doronicum				y					e					e		y		e						e	d				d		
Drosanthemum																															
Dryopteris				y		y	y													y			e			d			d		
Duranta										x																					
Dymondia								y																							
Echinacea	y		y	y	y	y	x	x	x	x	x	x		e			x	e	x	y			e	e	d				d	y	
Ensete								y																							
Epilobium						x														x											
Epimedium									e																	d			d		
Equisetum							y										e									d			d		
Erianthus						x	y	y									e			x	y					d			d		
Erica					d			y				x										e				d			d		
Erigeron								y																							
Eryngium						x														x											
Erysimum				y													e							e	d				d		

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Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREEN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
<i>Eschscholzia</i>														e						y	e			e	d				d	y
<i>Eupatorium</i>						y			e					e											d				d	
<i>Euphorbia</i>							x	x									x			y	e			e	d		y		d	
<i>Eustoma</i>							y										e								d				d	
<i>Festuca</i>		y			d	x	y	y	e	x	x		e	e			e	e	x	y	e	e	e		d				d	y
<i>Fragaria</i>		y										y		e						y	e				d				d	
<i>Freesia</i>													e	e											d				d	
<i>Gaillardia</i>	y		y	y	d	y	y		e					e	y	y	e	e		y	e	e		e	d				d	y
<i>Galium</i>					d																	e			d				d	
<i>Gaultheria</i>								y																	d				d	
<i>Gaura</i>	y					y			e	y	d						e			y					d				d	
<i>Gazania</i>		y		y		y	y		e				e	e	y	y	e	e		y	e		e	e	d	y	d		d	y
<i>Gentiana</i>	y																								d				d	
<i>Geranium</i>	y						y		x			x			y		e					e			d	y	y		d	y
<i>Gerbera</i>																									d				d	y
<i>Geum</i>							y							e	y			e		y	e		e		d				d	y
<i>Gilia</i>																							e		d				d	
<i>Gladiolus</i>	y		y	y		y	y		e					e	y	e		e		y	e		e		d		d		d	y
<i>Glandularia</i>						y																								
<i>Gomphrena</i>						x											x		y						d				d	
<i>Goniolimon</i>																									d				d	
<i>Gypsophila</i>	y		y				y		e					e		e	x	e		y	e		e	e	d				d	y
<i>Hakonechloa</i>								y																						
<i>Hedera</i>	y	y	y	y	d		y		e				e	e	y	y	e	e		y	e	e	e	e	y	y	y		d	y
<i>Helianthemum</i>	y							y																	d				d	
<i>Helianthus</i>														e						y	e				d				d	
<i>Helichrysum</i>							y										e								d				d	

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Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
Helichrysum								y																						
Heliotropium							y									e		e							d				d	
Hemerocallis	y	y		y	d	y	y	y		d	d	y		e	y		e	e	y	y	e	e	e	e	d	y	y		d	y
Herniaria																				y	e			d		d		d	y	
Hesperis																							e	d				d		
Heuchera						y	y							e			e	e		y				d	y			d	y	
Heucherella	y																							d				d		
Hibiscus	y									y					y	e		e							d				d	
Hibiscus	y			y	d					y					y	e		e							d				d	
Hibiscus										y					y	e									d				d	
Hosta	y	y		y	d	y	y	y	e	d			e	e	y		e	e	y	y	e	e	e	e	d	y	y		d	y
Houttuynia	y						y	y																	d				d	
Hyacinthoides (Endymion)															y										d				d	
Hyacinthus							y								y			y		y	y		y		d				d	
Hypericum		y		y			y		e			y		e	y		e	e		y			e		d				d	y
Iberis			y		d	y	x	x								e	x	e	x			e		e	d	y	y		d	y
Impatiens					d	x	y							e	y		e	e	x	y	e	e	e		y	y			d	y
Imperata						x	y												x	y				d			e	d		
Inula								y																						
Ipomea			y			y	y	y											y		e				d				d	
Iris	y		y	y	d	y	y								y		e	y	y	y	y	e	y	e	d	y	y		d	y
Iris	y		y	y	d	y	y	y							y		e	e	y		e	e	e	e	d	y	y		d	y
Justicia								y																						
Kniphofia			y				y	y						e											d				d	
Lamiastrum						x			e																d				d	
Lamium						x																								
Lantana	y		y	y	d	y				y		x		e		e			y		e	e			d	y	d		d	y

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Lathyrus			y																	y	e				d				d		
Laurentia (Isotoma)																									d		y		d		
Lavandula	y					y		y	e	x	x		e	e				e	y	y	e				d				d	y	
Layia																								e	d				d	y	
Leucanthemum (Chrys.)									x			x		e						y			e	e	d		y		d	y	
Leymus						x													x	y					d			e	d		
Liatris							y		e					e		e	e	e		y			e	e	d		y		d	y	
Lilium	y		y	y			y		e			x	e	e	y				y						d			y	d		
Limonium (Statice)							y	y						e	y	e	e	e	e	y	e			e	d		y		d	y	
Linum														e										e	d				d	y	
Liriope	y	y		y	y	y	y	y		x	x		e	e	y		e	e	y	y	e	e	e	e	e	y	y	y		d	y
Lithodora diffusa																															
Lobelia	y	y				x		y									e	e			e				d				d		
Lobularia						y																									
Lonicera	y			y	d		y	y	e			y			y	e	e	e			e	e	e		d	y	d		d	y	
Lupinus			y									y		e	y					y	e				d				d	y	
Lysimachia							y	y						e			e								d	y	y		d	y	
Lythrum	y	y												e	y										d	y			d	y	
Malephora								y																							
Matricaria																								e	d				d		
Matthiola						x	y										e			y	e				d				d	y	
Matteuccia								y																							
Mertensia																								e	d				d		
Mentha										x	x																				
Melampodium																															
Mirabilis			y																	y	e				d				d		
Miscanthus	y	y			d	x	y	y	e					e			e		x	y	e				d			e	d		

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	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Post	Post	Post	Post	Post	Post	Post	
Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
Molucella																									d				d	
Monarda					d				x			y					e			y		e			d				d	y
Moraea		y					y							e	y		e								d				d	
Muhlenbergia						x				x	x								x											
Musa								y																						
Muscari															y										d				d	
Myosotis			y																	y	e			e	d				d	
Narcissus	y			y	d	y	y							e	y			y	y	y	y	e	y		d				d	y
Nemophila																								e	d				d	y
Nepeta						y			e										y						d				d	
Nephrolepis														e								e			d		y		d	
Nicotiana																				y	e				d	y			d	y
Nigella																									d				d	
Nipponanthemum (Chrys.nip.)	y																			y				e	d				d	
Oenothera	y		y			y	y	y	x						y		e			y				e	d				d	y
Onoclea								y																						
Ophiopogon	y	y			d	y	y	y		x	x		e	e	y		e	e	y	y	e	e	e		d	y			d	y
Opuntia														e											d		d		d	
Organum								y																						
Ornithogalum									e				e	e	y	e					e				d				d	
Osmunda				y		x	y															e			d				d	
Osteospermum	y	y		y	d		y	y					e	e		y	e	e				e	e	e	d	y	y		d	y
Pachysandra		y	y	y	d	y	y	y	e			y	e	e	y	e	e	e			y	e	e		y	y	y		d	y
Paeonia	y		y			y		y	e				e	e		e								e	d				d	
Panicum						x				y									x	y					d			e	d	
Papaver												x									e			e	d				d	y
Pelargonium		y		y	d		y		e				e	e	y		e	e		y			e	e	d	y	y		d	

Table 6-8. Herbicides registered for use on herbaceous ornamentals (continued)

y = registered for some species of this genus

e = registered for some species of this genus, apply only after established

d = registered for some species of this genus, directed application only

x = NOT registered/prohibited from use on some species

	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Post	Post	Post	Post	Post	Post	Post
Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
<i>Pennisetum</i>	y	y			y	x	y		e	x	x		e	e		e	e	e	x	y	e	e			d		d	e	d	y
<i>Penstemon</i>		y		y			y	y	e			x		e			e			y				e	d				d	
<i>Pentas</i>						x																								
<i>Perovskia</i>	y			y			y		e		d			e			e			y					d				d	
<i>Petunia</i>			y	y	d	y	y		x			x		e	y		e	e	y	y	e	e	e	e	y	y	y		d	y
<i>Phalaris</i>		y		y	d	x	y						e	e			e		x	y	e	e			d			e	d	
<i>Phlox paniculata</i>			x			x			x					e			x								d				d	
<i>Phlox subulata</i>			x			y	y	y	e					e	y	e	x			y	e				d	y			d	y
<i>Phormium</i>								y																						
<i>Physostegia</i>	y							y						e	y										d				d	
<i>Platycodon</i>														e											d				d	
<i>Plectranthus</i>			y		d	y											x		y			e	x	e	d	y	y		d	y
<i>Plumbago</i>						x		y		x	x																			
<i>Polianthes</i>																									d				d	
<i>Polygonum</i>																									d		y		d	
<i>Polystichum</i>				y			y	y													e	e			d				d	
<i>Portulaca</i>			y		d	y								e				e	e	y	e	e	e		d	y	y		d	y
<i>Potentilla</i>		y			d	y		y	e				e	e	y	e			y		e		e		d	y	d		d	
<i>Primula</i>																									d				d	
<i>Ranunculus</i>																		e					e		d				d	
<i>Ratibida</i>							y	y									e							e	d				d	
<i>Rosa</i>	y		y	y	d				e					e	y	e		e			e		e	e	e	d	y	y		d
<i>Pulmonaria</i>																														
<i>Rosmarinus</i>	y	y			d									e				e		y	e		e		d		y		d	y
<i>Rubus calycinoides</i>																		e			e		e		d	y			d	y
<i>Rudbeckia</i>	y				d	x	y		e	x		x		e			e	e		y	e	e	e	e	d				d	y
<i>Rumohra</i>	y							y					e	e	y							e			d		y		d	

Table 6-8. Herbicides registered for use on herbaceous ornamentals (continued)

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	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Pre	Post	Post	Post	Post	Post	Post	Post
Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
Salvia			y			y	y			x	x			e				e	y	y	e	e	e	x	d	y	y		d	y
Salvia					d	y	y		e	x	x						e	e	y	y	e	e	e	x	d	y	y		d	
Sanguisorba																								e	d				d	
Santolina	y		y									y													d		y		d	y
Sanvitalia																								e	d				d	
Saponaria																					e				d				d	
Sasa								y																						
Saxifraga	y																								d	y			d	
Scabiosa	y		y	y		x			e											y	e				d				d	
Scaevola						x																								
Schizachyrium																									d			e	d	
Scilla															y										d				d	
Scutellaria								y																						
Sedum	y		y	y	d	y	y	x	x			x		e	y	e	e	e		y	e	e	e		d	y	y		d	y
Sempervivum																									d		y		d	
Senecio					y	y								e				e		y		e			d	y			d	
Silene																								e	d				d	y
Solanum		y						y						e											d				d	
Solidago						y																								
Stachys															y	e				y	e				d				d	y
Stipa																			x	y					d			e	d	
Stokesia		y												e				e			e		e		d				d	
Strelitzia				y														e					e		d		y		d	
Tagetes			y		d	y	y		x			x		e	y		e	e	y	y	e	e	e		y	y	y		d	y
Tetraneuris								y																						
Teucrium	y		x			y														y	e				d				d	
Thalictrum	y							y																	d				d	

Table 6-8. Herbicides registered for use on herbaceous ornamentals (continued)

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Genus (index of common names, by genus, is available in Table 6-9)	Barricade	Corral	Dacthal	Devrinol	Dimension	Freehand	Gallery	Gemini	Jewel	Marengo G	Marengo SC	OH2	Pendulum EC,ACS	Pendulum 2G	Pennant Magnum	Ronstar G	Snapshot	Surflan	Tower	PREN Garden	Treflan 5G	Preen Southern	XL	Acclaim Extra	Basagran T/O	Envoy	Fusilade II	Lontrel	Scythe	Segment
<i>Thymus</i>			y												e								e	d					d	
<i>Trachelospermum spp.</i>						y		y	e										y											
<i>Tradescantia</i>			y						e						e						e				d				d	y
<i>Trientalis</i>																									d				d	
<i>Tropaeolum</i>			y																	y	e				d				d	
<i>Tulbaghia</i>								y																						
<i>Tulipa</i>	y			y	d		y							e	y			y		y	y	e	y		d				d	y
<i>Verbena</i>		y			d	y	y			y				e			e	e		y	e	e			d	y			d	y
<i>Veronica</i>	y			y		x			e				e	e	y			e		y	e				d		y		d	y
<i>Vinca</i>	y	y		y	d	x	y	y						e	y	y	e	e	e	y	e	e	e		d	y	y		d	y
<i>Viola</i>					d									e	y			x				e	e		d	y			d	y
<i>Yucca</i>	y	y												e	y			e					e	e	d				d	
<i>Zantedeschia</i>													e	e					y						d				d	
<i>Zinnia</i>			y	y		y			x			x		e	y		e	e	y	y	e		e	e	d	y	y		d	y

Table 6-9. Index of weed names, by genus

Genus	Common Name
Broadleaf weeds	
<i>Ageratum</i>	Ageratum, tropic
<i>Abutilon</i>	Velvetleaf
<i>Acalypha</i>	Copperleaf
<i>Amaranthus</i>	Pigweed spp.
<i>Amaranthus</i>	Waterhemp, common
<i>Amaranthus</i>	Waterhemp, tall
<i>Ambrosia</i>	Bursage, Annual
<i>Ambrosia</i>	Ragweed, common
<i>Amsinckia</i>	Fiddleneck
<i>Anagallis</i>	Pimpernel, scarlet
<i>Anthemis</i>	Chamomile, mayweed
<i>Anthemis</i>	Mayweed (chamomile)
<i>Aphanes</i>	Parsley-piert
<i>Artemisia</i>	Mugwort (from rhizome)
<i>Asclepias</i>	Milkweed
<i>Aster</i>	Aster
<i>Barbarea</i>	Yellow Rocket
<i>Berteroa</i>	Allysum, hoary
<i>Bidens</i>	Spanishneedles
<i>Brassica</i>	Mustard, black
<i>Brassica, others</i>	Mustard, wild
<i>Calandrinia</i>	Redmaids
<i>Calystegia</i>	Bindweed, hedge (from roots)
<i>Capsella</i>	Shepherdspurse
<i>Cardamine</i>	Bittercress
<i>Carduus</i>	Thistle, Musk
<i>Centaurea</i>	Knapweed, Russian or spotted
<i>Cerastium</i>	Chickweed, mouseear
<i>Chamaesyce</i>	Spurge, garden
<i>Chamaesyce</i>	Spurge, hyssop
<i>Chamaesyce</i>	Spurge, spotted
<i>Chenopodium</i>	Goosefoot
<i>Chenopodium</i>	Lambsquarters
<i>Cirsium</i>	Thistle, Bull
<i>Cirsium</i>	Thistle, Canada (from seed)
<i>Convolvulus</i>	Bindweed, field (from roots)
<i>Conyza</i>	Horseweed (marestail)
<i>Coronopus</i>	Swinecress
<i>Cotula</i>	Southern waterbuttons
<i>Crassocephalum</i>	Thickhead
<i>Croton</i>	Turkey mullein

Table 6-9. Index of weed names, by genus(cont.)

Genus	Common Name
Broadleaf weeds (continued)	
<i>Cuscuta</i>	Dodder
<i>Cyclospermum</i>	Marsh parsley
<i>Datura</i>	Jimsonweed
<i>Daucus</i>	Carrot, wild
<i>Descurainia</i>	Flixweed
<i>Descurainia</i>	Tansymustard, green
<i>Desmodium</i>	Beggarweed, Florida
<i>Eclipta</i>	Eclipta
<i>Emilia</i>	Tassleflower
<i>Epilobium</i>	Willowherb
<i>Erechtites</i>	Burnweed, American
<i>Erigeron</i>	Fleabane
<i>Erodium</i>	Filaree, redstem
<i>Erodium</i>	Filaree, whitestem
<i>Eupatorium</i>	Dogfennel
<i>Euphorbia</i>	Poinsettia, wild
<i>Euphorbia</i>	Spurge, petty
<i>Fatoua</i>	Mulberryweed
<i>Galinsoga</i>	Galinsoga, hairy
<i>Galinsoga</i>	Galinsoga, smallflower
<i>Galium</i>	Bedstraw
<i>Geranium</i>	Geranium, Carolina
<i>Gnaphalium</i>	Cudweed
<i>Helianthus</i>	Sunflower
<i>Heterotheca</i>	Camphorweed
<i>Heterotheca</i>	Telegraphplant
<i>Hibiscus</i>	Venice mallow
<i>Hydrocotyle</i>	Pennywort (from seed)
<i>Hypochoeris</i>	Catsear dandelion
<i>Ipomoea</i>	Morningglory, annual
<i>Kochia</i>	Kochia
<i>Lactuca</i>	Lettuce, prickly
<i>Lamium</i>	Deadnettle, purple
<i>Lamium</i>	Henbit
<i>Lepidium</i>	Pepperweed
<i>Malva</i>	Mallow
<i>Marchantia</i>	Liverwort (from spores)
<i>Matricaria</i>	Chamomile, false
<i>Matricaria</i>	Pineappleweed
<i>Medicago</i>	Burclover
<i>Medicago</i>	Medic, black

Table 6-9. Index of weed names, by genus(cont.)

Genus	Common Name
Broadleaf weeds (continued)	
<i>Melilotus</i>	Sweetclover, yellow
<i>Melochia</i>	Redweed
<i>Mollugo</i>	Carpetweed
<i>Oenothera</i>	Evening primrose
<i>Oxalis</i>	Woodsorrel (Oxalis)
<i>Parthenium</i>	Parthenium
<i>Passiflora</i>	Maypops
<i>Phyllanthus</i>	Chamberbitter
<i>Phyllanthus</i>	Phyllanthus, long stalked
<i>Physalis</i>	Groundcherry
<i>Phytolacca</i>	Pokeweed, common
<i>Picris</i>	Bristly oxtongue
<i>Pilea</i>	Artilleryweed
<i>Plantago</i>	Plantain
<i>Polygonum</i>	Buckwheat, wild
<i>Polygonum</i>	Knotweed, prostrate
<i>Polygonum</i>	Ladysthumb
<i>Polygonum</i>	Smartweed
<i>Portulaca</i>	Purslane, common
<i>Pyrrhappus</i>	Dandelion, false
<i>Ranunculus</i>	Buttercup
<i>Raphanus</i>	Radish, wild
<i>Richardia</i>	Pusley, Florida
<i>Rorippa</i>	Yellow cress, annual
<i>Rumex</i>	Dock, curly or broadleaf
<i>Rumex</i>	Sorrel, red
<i>Sagina</i>	Pearlwort
<i>Salsola</i>	Thistle, Russian
<i>Scleranthus</i>	Knawel
<i>Sencio</i>	Groundsel, common
<i>Senna</i>	Coffeeweed
<i>Sesbania</i>	Sesbania, hemp
<i>Sibara</i>	Virginia winged rockcress
<i>Sida</i>	Sida, prickly
<i>Solanum</i>	Nightshade, black
<i>Solanum</i>	Nightshade, cutleaf
<i>Solanum</i>	Nightshade, Eastern black
<i>Solanum</i>	Nightshade, hairy
<i>Soliva</i>	Burweed, lawn
<i>Sonchus</i>	Sowthistle, annual
<i>Spergula</i>	Spurry, corn

Table 6-9. Index of weed names, by genus(cont.)

Genus	Common Name
Broadleaf weeds (continued)	
<i>Spurgularia</i>	Spurry, sand
<i>Stachys</i>	Florida Betony
<i>Stellaria</i>	Chickweed, common
<i>Sysimbrium</i>	London rocket
<i>Sysimbrium</i>	Rocket, London
<i>Taraxacum</i>	Dandelion (seedling)
<i>Tribulus</i>	Puncturevine
<i>Trifolium</i>	Clover, hop
<i>Trifolium</i>	Clover, white (from seed)
<i>Urtica</i>	Nettle, stinging
<i>Verbascum</i>	Mullein, common
<i>Veronica</i>	Speedwell spp.
<i>Vicia</i>	Vetch
<i>Xanthium</i>	Cocklebur, common
Grasses	
<i>Brachiaria</i>	Signalgrass, broadleaf
<i>Bromus</i>	Brome, California
<i>Bromus</i>	Brome, downy
<i>Bromus</i>	Brome, foxtail
<i>Bromus</i>	Cheat
<i>Bromus</i>	Rescuegrass
<i>Cenchrus</i>	Sandbur
<i>Cynodon</i>	Bermudagrass (from rhizomes)
<i>Dactylis</i>	Orchardgrass
<i>Dactyloctenium</i>	Crowfootgrass
<i>Digitaria</i>	Crabgrass, large
<i>Digitaria</i>	Crabgrass, smooth
<i>Echinochloa</i>	Barnyardgrass
<i>Echinochloa</i>	Junglerice
<i>Eleusine</i>	Goosegrass
<i>Elymus</i>	Quackgrass (from rhizome)
<i>Elymus</i>	Quackgrass (from seed)
<i>Eragrostis</i>	Lovegrass
<i>Eriochloa</i>	Cupgrass, Southwestern
<i>Eriochloa</i>	Cupgrass, wooly
<i>Festuca (=Schedonorus)</i>	Fescue, tall (from seed)
<i>Hordeum</i>	Barley, mouse
<i>Leptochloa</i>	Sprangletop
<i>Lolium</i>	Ryegrass, annual
<i>Lolium</i>	Ryegrass, perennial
<i>Microstegium</i>	Stiltgrass, Japanese

Table 6-9. Index of weed names, by genus(cont.)

Genus	Common Name
Grasses (continued)	
<i>Oryza</i>	Red rice
<i>Panicum</i>	Guineagrass
<i>Panicum</i>	Millet, wild
<i>Panicum</i>	Panicum, browntop
<i>Panicum</i>	Panicum, fall
<i>Panicum</i>	Panicum, Texas
<i>Panicum</i>	Witchgrass
<i>Poa</i>	Bluegrass, annual
<i>Poa</i>	Bluegrass, roughstalk
<i>Rottboellia</i>	Itchgrass
<i>Setaria</i>	Foxtail (yellow, green)
<i>Setaria</i>	Foxtail, giant
<i>Sorghum</i>	Johnsongrass (rhizome)
<i>Sorghum</i>	Johnsongrass (seedling)
<i>Sorghum</i>	Shattercane
<i>Sporobolus</i>	Smutgrass
<i>Vulpia</i>	Fescue, ratttail
Sedges and other monocots	
<i>Allium</i>	Onion or garlic, wild
<i>Cyperus</i>	Nutsedge, purple
<i>Cyperus</i>	Nutsedge, yellow
<i>Cyperus</i>	Sedge, annual
<i>Cyperus</i>	Sedge, rice flat-
<i>Kyllinga</i>	Kyllinga (from seed)
<i>Murdannia</i>	Doveweed
Non-flowering plants	
<i>Equisetum</i>	Horsetail (<i>Equisetum</i>) (from rhizomes)
<i>Pteridium</i>	Bracken Fern

Table 6-10. Cross reference of herbicide trade names and common names

Trade Name	Common Name	NC State University product information fact sheet
Acclaim Extra	fenoxaprop	
Axex	ammonium nonanoate	
Barricade, Factor, Endurance, Regalkade	prodiamine	https://content.ces.ncsu.edu/barricade-prodiamine-regalkade-g-prodiamine
Basagran T/O	bentazon	
Basamid Granular	dazomet	
Betasan, Bensumec, Pre-San, others	bensulide	
Biathlon	oxyfluorfen + prodiamine	https://content.ces.ncsu.edu/biathlon-oxyfluorfen-prodiamine
Broadstar, SureGuard	flumioxazin	https://content.ces.ncsu.edu/broadstar-flumioxazin
Casoron, Barrier	dichlobenil	https://content.ces.ncsu.edu/casoron-dichlobenil
Certainty	sulfosulfuron	
Devrinol	napropamide	https://content.ces.ncsu.edu/devrinol-napropamide
Dimension	dithiopyr	https://content.ces.ncsu.edu/dimension-dithiopyr
Dismiss	sulfentrazone	
Envoy	clethodim	https://content.ces.ncsu.edu/envoy-plus-clethodim
Eptam	EPTC	
Finale	glufosinate	
FreeHand	pendimethalin + dimethenamid-p	https://content.ces.ncsu.edu/freehand-dimethenamid-p-pendimethalin
Fusilade II, Ornamec, others	fluzifop-P-butyl	https://content.ces.ncsu.edu/fusilade-ii-fluzifop-p-butyl
Gallery	isoxaben	https://content.ces.ncsu.edu/gallery-isoxaben
Garlon	triclopyr	
Gemini	prodiamine + isoxaben	
Goal	oxyfluorfen	https://content.ces.ncsu.edu/goal-goaltender-oxyfluorfen
Gramoxone Extra	paraquat	
HGH 75	oxyfluorfen + trifluralin	https://content.ces.ncsu.edu/hgh-75-oxyfluorfen-trifluralin
Image	imazaquin	
Kerb	pronamide	
Lontrel	clopyralid	https://content.ces.ncsu.edu/lontrel-clopyralid
Marengo, Marengo G, Spectilce FLO, Specticle G	indaziflam	https://content.ces.ncsu.edu/marengo-indaziflam
Metham sodium	metham	
Ornamental Herbicide II (OH2)	oxyfluorfen + pendimethalin	https://content.ces.ncsu.edu/ornamental-herbicide-ii-oxyfluorfen-pendimethalin
Pendulum, Ornamental Weedgrass Control, others	pendimethalin	https://content.ces.ncsu.edu/pendulum-aquacap-corrall-pendimethalin
Pennant Magnum	s-metolachlor	https://content.ces.ncsu.edu/pennant-magnum-s-metolachlor
Predict	norflurazon	
Princep, Simazine, Princep Caliber 90	simazine	https://content.ces.ncsu.edu/princep-simazine-simazine
Regal O-O	oxyfluorfen + oxadiazon	https://content.ces.ncsu.edu/regal-o-o-oxyfluorfen-oxadiazon
Regalkade G	prodiamine	https://content.ces.ncsu.edu/barricade-prodiamine-regalkade-g-prodiamine
RegalStar	oxadiazon + prodiamine	
Reward	diquat dibromide	
Ronstar	oxadiazon	
Roundup-Pro, others	glyphosate	https://content.ces.ncsu.edu/glyphosate-1
Rout	oxyfluorfen + oryzalin	

Table 6-10. Cross reference of herbicide trade names and common names (continued)

Trade Name	Common Name	NC State University product information fact sheet
Scythe	pelargonic acid	
Sedgehammer, Prosedge	halosulfuron	https://content.ces.ncsu.edu/sedgehammer-halosulfuron
Segment	sethoxydim	https://content.ces.ncsu.edu/segment-sethoxydim
Snapshot TG	isoxaben + trifluralin	https://content.ces.ncsu.edu/snapshot-tg-isoxaben-trifluralin
Surflan, Oryzalin 4Pro	oryzalin	https://content.ces.ncsu.edu/surflan-oryzalin
Tower	dimethenamid-p	https://content.ces.ncsu.edu/tower-dimethenamid-p
Treflan, Preen, Trifluralin, others	trifluralin	
XL	benefin + oryzalin	