



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 28, 2025

Kevin Finnegan  
Product Registration Manager  
BASF Corporation  
26 Davis Drive, PO Box 13528  
Research Triangle Park, NC 27709

Subject: Label Amendment - Registration Review Mitigation for Pendimethalin & Dimethenamid-p  
Product Name: FREEHAND CA 1.75G HERBICIDE  
EPA Registration Number: 7969-358  
Application Dates: September 30, 2021 & December 11, 2024  
Decision Numbers: 578821 & 596376  
Case Numbers: 472842

Dear Kevin Finnegan:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Pendimethalin & Dimethenamid-p Interim Decisions, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr by phone at (202) 566-0636, or via email at [carr.caleb@epa.gov](mailto:carr.caleb@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

Pendimethalin	Group	3	Herbicide
Dimethenamid-P	Group	15	Herbicide

# Freehand® CA

## 1.75G Herbicide

**For use as a preemergence weed control herbicide in ornamental production, landscape and grounds maintenance, turfgrass, and other specified noncrop areas**

**Active Ingredients:**

dimethenamid-P: (S)-2-chloro-N-[(1-methyl-2-methoxy)ethyl]-N-(2,4-dimethyl-thien-3-yl)-acetamide. . . . . 0.75%  
pendimethalin: N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine. . . . . 1.00%

**Other Ingredients:** . . . . . 98.25%

**Total:** . . . . . 100.00%

50 lbs contains 0.375 lb of dimethenamid-P and 0.5 lb of pendimethalin.

**EPA Reg. No. 7969-358**

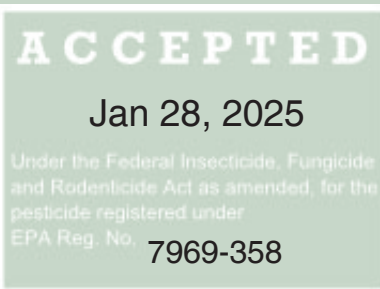
**EPA Est. No.**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

See inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific and/or use site restrictions.

**In case of emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**



**Net Contents:**

## FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give any liquid to the person.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes.</li> <li>• Call a poison control center for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## USER SAFETY RECOMMENDATIONS

### Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Environmental Hazards

This product is toxic to fish. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate. Granules exposed on soil surface may be hazardous to wildlife. Cover or collect granules spilled during loading.

**Groundwater Advisory.** This product is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

**Surface Water Advisory. DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. **DO NOT** contaminate water when disposing of equipment wash-water or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water.

**Nontarget Organism Advisory:** This product is toxic to plants and may adversely impact the forage and habitat of nontarget organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of nontarget organisms by following label directions intended to minimize drift.

### Endangered Species Protection

This product may have effects on federally listed threatened or endangered plant species or their critical habitat. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin

for the county or parish in which you are applying the pesticide. To determine whether your county or parish has a Bulletin, and to obtain that Bulletin, consult <http://www.epa.gov/espp/>, or call 1-800-447-3813 no more than 6 months before using this product. Applicators must use Bulletins that are in effect in the month in which the pesticide will be applied. New Bulletins will be available from the above sources 6 months prior to their effective dates.

To avoid adverse effects on endangered plant species, applicators in ornamentals production must comply with the following mitigation measures where and when endangered plant species are known to occur in proximity of the application site:

If applied by ground, leave untreated buffer zone of 200 feet between treatment area and known endangered plant populations.

## Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of pesticide application. The use of **FreeHand® CA 1.75G herbicide** not consistent with this label can result in injury to crops, animals, or persons.

**DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

BASF Corporation does not authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to ornamentals.

**DO NOT** contaminate irrigation ditches or water used for domestic purposes.

**FreeHand CA 1.75G** is intended for use only by certified applicators or persons under their direct supervision.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL OR CROP INJURY.**

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

## NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

**DO NOT** enter or allow others to enter the treated area until dusts have settled. Only protected applicator shall be in the treatment area during application.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

### Pesticide Storage

**DO NOT** store above 120° F. Store in original containers and keep closed. Store in a cool, dry place.

### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

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## STORAGE AND DISPOSAL *(continued)*

### Container Handling

#### (for plastic containers)

**Nonrefillable Container. DO NOT reuse or refill this container.** After completely emptying container into application equipment, offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### (for paper or plastic bags)

**Nonrefillable Container. DO NOT reuse or refill this container.** After completely emptying container into application equipment, dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

## In Case Of Emergency

In case of large-scale spillage regarding this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

## Use Information

### Mode of Action

**FreeHand® CA 1.75G herbicide** combines two active ingredients: dimethenamid-P, a chloroacetamide, and pendimethalin, a dinitroaniline. Combined, they inhibit both plant cell microtubule assembly (cells do not divide and multiply) and cell growth, inhibiting the germinating shoot portion of the susceptible weed seedlings. A small amount of uptake may also occur through the emerging root system of the weed seedling. **FreeHand CA 1.75G** is **Group 3** and **Group 15** mode-of-action classifications for broader weed control spectrum.

### Herbicide Resistance Management

For resistance management, **FreeHand CA 1.75G** contains both a **Group 3** and a **Group 15** herbicide. Any weed population may contain plants naturally resistant to **Group 3** and/or **Group 15** herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same sites. Appropriate resistant-management strategies should be followed.

#### To delay herbicide resistance consider:

- Avoiding the consecutive use of **FreeHand CA 1.75G** or other target-site-of-action **Group 3** and **Group 15** herbicides that have a similar target site of action on the same weed species.
- Using herbicides from different target-site-of-action groups as long as the involved products are all registered

for the same use, have different sites of action, and are both effective on the weed(s) of concern.

- Basing herbicide use on a comprehensive IPM (Integrated Pest Management) program including cultural and mechanical methods.
- Monitoring treated weed populations for loss of site efficacy, and control of escapes with effective alternative herbicides or mechanical methods.
- Identify weeds present in the site through scouting and site history and understand their biology. The weed-control program needs to consider all of the weeds present.
- Scout sites prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective.
- Scout sites after application to verify the treatment was effective.
- Suspected herbicide-resistance weeds may be identified by these indicators:
  1. Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  2. A spreading patch of non-controlled plants of a particular weed species; and
  3. Surviving plants mixed with controlled individuals of the same species.
- If resistance is suspected, treat weed escapes with an herbicide with a different MOA and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Report any incidence of non-performance of this product against a particular weed species to a BASF representative.
- Contacting your local extension specialist, certified advisors, and/or manufacturer for herbicide resistance management and/or integrated weed management directions for specific crops and resistant weed biotypes.

### Use Sites

**FreeHand CA 1.75G** is a selective preemergence herbicide for the control of certain annual grasses, annual broadleaf weeds and sedges as they germinate in:

- **Commercial ornamental production**
- **Landscape and grounds maintenance**
- **Tree plantations including Christmas trees**
- **Turfgrass**

**FreeHand CA 1.75G** may be applied as a soft-residual bareground treatment in the use sites listed above.

**FreeHand CA 1.75G** controls weeds as they germinate but will not control emerged and established weeds. Therefore, areas to be treated should be free of established weeds. If weeds develop prior to activation of the herbicide, shallow cultivate to destroy existing weeds or, where practical, remove by hand.

For the control of established weeds,

**FreeHand CA 1.75G** may be used in conjunction with herbicides registered for postemergence use.

**FreeHand CA 1.75G** may be used before or after



applications of herbicides registered for postemergence use (i.e. **Basagran® T&O herbicide**, **Drive® XLR8 herbicide**, **Finale® herbicide**, **Image® 70 DG herbicide**, **Onetime® herbicide**, **Roundup® herbicide**, **Segment® herbicide**) for the control of established weeds. **DO NOT** apply sprays containing **Finale** or **Roundup** over the top of desirable plants. Consult the labels of those herbicides for use rates, timings, and pre-cautions or restrictions.

A **FreeHand® CA 1.75G herbicide** treatment may be followed by any registered herbicide to control weeds not listed on the **FreeHand CA 1.75G** label.

### Application Information

**FreeHand CA 1.75G** will provide the most effective weed control when applied by ground spreader equipment and subsequently incorporated into soil by 1/2 inch of rainfall in sprinkler irrigation.

### Ground Application

Apply **FreeHand CA 1.75G** with properly calibrated spreader equipment to provide uniform distribution. Check application routinely to determine proper calibration. Avoid overlaps that will increase use rates above those stated on this label. Avoid application when winds may cause drift. Avoid unintentional contact of granules with driveways, stone, wood or other porous surfaces.

**FreeHand CA 1.75G** may cause temporary discoloration of treated surfaces. Sweep surfaces clean immediately to avoid staining. If granules are crushed into surface, rinse thoroughly.

### Application Use Rates

For preemergence control of the listed weed species (see **Table 3** in **Weed Species Controlled** section) using broadcast spreader equipment, apply **FreeHand CA 1.75G** at the following rates. Uneven application can decrease weed control or cause plant injury. Overapplication can result in stand loss, plant injury, or soil residues.

**Table 1. Application Rates for FreeHand CA 1.75G**

Application Rate (lbs product per acre)	Amount (lbs product per 1000 sq ft)	Amount (lb product per 100 sq ft)
100	2.3	0.23
150	3.4	0.34
200	4.6	0.46

All granular herbicide products, including **FreeHand CA 1.75G**, have different prill sizes. Therefore, to deliver the proper rate, the applicator must calibrate prior to application of product. The **FreeHand CA 1.75G** calibration tray may be used to calibrate the correct application rate. Rate settings for a specific type of spreader device must be determined by the applicator. A guide to

the use of various spreaders is provided in the following table.

### Spreader Use Guide

Spreader Type	Spreader Operation	Setting	Swath of Throw (feet)	Rate Range (lbs product/A)
EarthWay <sup>1</sup>	1-sided	7 to 10	3	200
EarthWay <sup>2</sup>	2-sided	11 to 12	3 to 5	150 to 200
John Deere-Lesco Rotary	Not applicable	D to F	Not given	100 to 150
Scott Rotaries R-7, R-7x, R-8, R-8A, SR-1 (cone 9)	Not applicable	D to E1/2	8	100 to 150
Solo Spreader 421S <sup>3</sup>	1-sided	1 to 3	3 to 4	100
Solo Spreader 421S <sup>4</sup>	2-sided	2 to 6	3 to 4	200
Spyker #75 <sup>a</sup>	1-sided	3 to 5	3 to 5	100
Warren T7II <sup>b</sup>	1-sided	3 to 5	3 to 5	100
Warren T7II <sup>c</sup>	2-sided	3 to 6	3 to 6	100

#### Spreader Efficiency Tips

<sup>1</sup> **For EarthWay 1-sided:** Close right slide on spreader to throw to the right.

<sup>2</sup> **For EarthWay 2-sided:** Close left slide about 1/4 to achieve better left center to right distribution for 2-sided throw.

<sup>3</sup> **For Solo 1-sided:** Position lever to the right (this gives a pattern all to the left and avoids depositing product into operator's hands or body).

<sup>4</sup> **For Solo 2-sided:** Position lever halfway between center and right position.

<sup>a</sup> **For Spyker:** Rotate spreader to right so first mold pen mark is on top at 24° to give best distribution. NOT recommended for 2-sided use.

<sup>b</sup> **For Warren 1-sided:** Distribution place control on front all the way to the left so pattern spreads to left and not into the applicator's arms.

<sup>c</sup> **For Warren 2-sided:** Position lever in center for best distribution.

**FreeHand CA 1.75G** may be applied in a single application or in sequential applications.

For extended weed control or where heavy weed infestations are expected, sequential (repeat) applications of **FreeHand CA 1.75G** can be made 5 to 8 weeks between applications.

### Application Restrictions and Limitations

- **Maximum annual use rate - DO NOT** apply more than a total of 400 lbs/A **FreeHand CA 1.75G** per crop in a single growing season.
- **DO NOT** apply more than 200 lbs/A **FreeHand CA 1.75G** in a single application.
- **DO NOT** apply **FreeHand CA 1.75G** to **actively growing** turfgrass and/or ornamental plants when springtime

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soil temperature is less than 55° F and under wet soil conditions, or turfgrass/plant injury may occur.

- **DO NOT** apply **FreeHand® CA 1.75G herbicide** as an aerial application.
- **DO NOT** apply **FreeHand CA 1.75G** in greenhouses, polyhouses or other fully enclosed greenhouse-type structures.
- **DO NOT** treat plants grown for food or feed.
- **DO NOT** use treated plants for food or feed.
- To avoid the possibility of plant damage, **DO NOT** apply **FreeHand CA 1.75G** to turfgrass or ornamental plants growing under stress because of lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures. Diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken plants and increase the possibility of damage from **FreeHand CA 1.75G**.
- If **FreeHand CA 1.75G** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.
- Unusually cold, excessively wet, or hot and dry conditions that delay or extend weed seed germination can reduce weed control.

Refer to the **Application Information** section in this label before any application of **FreeHand CA 1.75G**. Unintentional consequences, such as ornamental injury, may result because of certain environmental or growing conditions, manner of use or application.

Refer to **Table 1** for application rates, **Table 2** for list of ornamental species, and **Table 3** for weeds controlled.

## Specific Information for Use Sites

### Commercial Ornamental Production

**FreeHand CA 1.75G** can be used in container and field nurseries.

Applications can be made to ornamental plant species listed on this label, such as trees, shrubs, ground covers, herbaceous perennials, and bedding plants. Applications can also be made to conifer and hardwood seedling nurseries, and tree plantations (including Christmas trees).

**NOTE: FreeHand CA 1.75G can only be used on established liner beds with well-rooted plants and/or rootstocks.**

### Plant Tolerance

**FreeHand CA 1.75G** can be used around and over the top of the established ornamental plants listed in **Table 2** of this label. However, not all varieties or strains of the ornamental plants listed have been tested.

**FreeHand CA 1.75G** may be used on ornamental plant species not listed on this label when grower assumes responsibility. Determine the suitability for such uses by treating a small number of such plants at the specified rate. Evaluate treated plants for at least 2 months following treatment for possible injury. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY ASSOCIATED WITH APPLICATIONS TO ORNAMENTAL PLANTS NOT LISTED ON THIS LABEL.**



## Specific Ornamentals<sup>1</sup> Use Site Instructions

Site	Application Instructions and Restrictions
Newly transplanted field-grown nursery plants	<ul style="list-style-type: none"> <li>• <b>Restriction: DO NOT</b> apply until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where <b>FreeHand® CA 1.75G herbicide</b> could come into contact with the roots.</li> <li>• <b>Restriction: DO NOT</b> apply during bud swell, bud break or at time of first flush of new growth.</li> </ul>
Newly transplanted container-grown nursery plants	<ul style="list-style-type: none"> <li>• <b>Restriction: DO NOT</b> apply until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where <b>FreeHand CA 1.75G</b> could come into contact with the roots.</li> <li>• For container-grown ornamentals, delay first application of the product to bareroot liners for 2 weeks after transplanting to allow for root establishment.</li> <li>• <b>Restriction: DO NOT</b> apply during bud swell, bud break or at time of first flush of new growth.</li> <li>• <b>Restriction: DO NOT</b> apply to any size plug or liner tray.</li> <li>• <b>Restriction: DO NOT</b> apply to plugs or unrooted liners or cuttings being transplanted into pots.</li> </ul>
Established container or field-grown nursery plants	<ul style="list-style-type: none"> <li>• <b>Restriction: DO NOT</b> apply during bud swell, bud break or at time of first flush of new growth.</li> <li>• Care must be taken to ensure there are no cracks in the soil where <b>FreeHand CA 1.75G</b> could come into contact with the roots.</li> </ul>
Field-grown or container-grown production bulbs	<ul style="list-style-type: none"> <li>• For use in ornamental bulb-like crops such as caladium, calla lily, and lilies.</li> <li>• In field production, apply <b>FreeHand CA 1.75G</b> to the soil surface only after the crop has been planted and the soil has been settled by several irrigations but prior to weed seed germination.</li> <li>• In fall-planted daffodil, iris or lilies, make an initial application of <b>FreeHand CA 1.75G</b> following plant establishment; then make a sequential application of <b>FreeHand CA 1.75G</b> in late winter or early spring prior to weed seed germination.</li> <li>• In container production, apply <b>FreeHand CA 1.75G</b> to a weed-free surface either before bulb emergence or after leaf emergence from an established plant crown.</li> <li>• Apply <b>FreeHand CA 1.75G</b> before, during or after bulb emergence.</li> </ul>
<p>Bareground pad for container placement</p> <p>Gravel or ground floor of open-sided lathhouses (shadehouses) or other polyhouse structures that allow polycovers to be removed on a seasonal basis</p>	Apply to bareground pad (such as soil, mulch, gravel, wood chips, or other permeable base); then water in; then replace containerized ornamentals onto the pad.
Greenhouses, polyhouses or other enclosed structures	<b>Restriction: DO NOT</b> apply in greenhouses, polyhouses or other fully enclosed greenhouse-type structures.
Landscape uses	Care must be taken that soil or planting mixes have settled firmly following transplanting, and there are no cracks that would allow direct contact of <b>FreeHand CA 1.75G</b> with roots. Applications where soil and media surfaces are uniformly covered will result in best weed control and ornamental tolerance.

<sup>1</sup> Plant only those desirable plant species listed on this label into soil treated the previous season with **FreeHand CA 1.75G** or injury may occur.

## Specific Ornamentals<sup>1</sup> Use Site Instructions *(continued)*

Site	Application Instructions and Restrictions		
SENSITIVE Ornamental Species - Special Precautions			
Ornamental grasses	Restriction: DO NOT apply FreeHand® CA 1.75G herbicide to ornamental grasses because unacceptable phytotoxicity may occur.		
Herbaceous perennials	Restriction: DO NOT apply FreeHand CA 1.75G to herbaceous perennials because unacceptable phytotoxicity may occur.		
	Black-eyed Susan		Rudbeckia fulgida
	Blue star		Amsonia spp.
	Butterfly flower		Asclepias tuberosa
	Butterfly weed		Asclepias tuberosa
	Cape leadwort		Plumbago spp.
	Columbine		Aquilegia spp.
	Dead nettle		Lamium spp.
	Periwinkle		Vinca minor
	Phlox		Phlox paniculata
	Pincushion flower		Scabiosa spp.
	Speedwell, spiked other Veronica spp.		Veronica spicata
Tickseed		Coreopsis auriculata	
Annual bedding plants	Restriction: DO NOT apply FreeHand CA 1.75G to begonia or severe injury will occur. Freehand CA 1.75G application to gomphrena and New Guinea impatiens may cause injury in some cultivars.		
Ferns	Applications of FreeHand CA 1.75G to immature ferns during periods of new growth of fronds may result in some injury.		
Hydrangea	Not all hydrangea cultivars may respond to the herbicide application with the same tolerance. Before treating an entire block of plants, apply only to a small number of plants and evaluate for 2 months for tolerance.		
Restriction: DO NOT apply FreeHand CA 1.75G sequentially to the following listed species. During the growing season, a second application of FreeHand CA 1.75G can be made if a herbicide of a different mode of action is applied between FreeHand CA 1.75G applications. FreeHand CA 1.75G applications must be separated by at least 16 weeks.			
Coneflower	Echinacea spp.	Spirea	Spiraea spp.
Goldenrod	Solidago spp.	Thrift	Armeria spp.
Hydrangea	Hydrangea spp.	Turtlehead/Snakehead	Chelone spp.
Loropetalum	Loropetalum chinense	Viburnum	Viburnum spp.
Magnolia	Magnolia spp.	Western hemlock	Tsuga heterophylla
Sage	Salvia spp.		

<sup>1</sup> Plant only those desirable plant species listed on this label into soil treated the previous season with **FreeHand CA 1.75G** or injury may occur.

**Table 2. Ornamental Species**

Common Name	Scientific Name
<b>Trees</b>	
Arborvitae	<i>Thuja</i> spp.
Crape myrtle	<i>Lagerstroemia indica</i>
Cypress, Leyland	<i>Cupressocyparis leylandii</i>
Fir, Douglas	<i>Pseudotsuga menziesii</i>
Fir, Fraser	<i>Abies fraseri</i>
Hemlock	<i>Tsuga</i> spp.
Hemlock, Western	<i>Tsuga heterophylla</i>
Lilac	<i>Syringa</i> spp.
Magnolia	<i>Magnolia</i> spp.
Oak	<i>Quercus</i> spp.
Pine	<i>Pinus</i> spp.
Serviceberry	<i>Amelanchier</i> spp.
<b>Shrubs</b>	
Abelia, glossy	<i>Abelia grandiflora</i>
Azalea	<i>Rhododendron</i> spp.
Bamboo, heavenly	<i>Nandina domestica</i>
Barberry	<i>Berberis</i> spp. <i>Berberis thunbergii</i>
Boxwood, Japanese	<i>Buxus microphylla</i>
Butterfly bush	<i>Buddleia davidii</i>
Cotoneaster	<i>Cotoneaster</i> spp.
Euonymus	<i>Euonymus</i> spp.
Forsythia, border	<i>Forsythia intermedia</i>
Gardenia	<i>Gardenia jasminoides</i>
Hawthorne, Indian	<i>Raphiolepis indica</i>
Hibiscus	<i>Hibiscus</i> spp.
Holly	<i>Ilex</i> spp.
Holly, Chinese	<i>Ilex cornuta</i>
Holly, Japanese	<i>Ilex crenata</i>
Hydrangea	<i>Hydrangea macrophylla</i>
Juniper	<i>Juniperus</i> spp.
Lavender, English	<i>Lavandula angustifolia</i>
Lilac	<i>Syringa</i> spp.
Lily of the Nile	<i>Agapanthus africanus</i>
Loropetalum	<i>Loropetalum chinense</i>
Mahonia	<i>Mahonia</i> spp.
Mock orange	<i>Pittosporum tobira</i>
Nandina	<i>Nandina domestica</i>
Oregon grape	<i>Mahonia</i> spp.
Photinia, Fraser	<i>Photinia x fraseri</i>

(continued)

**Table 2. Ornamental Species** (continued)

Common Name	Scientific Name
<b>Shrubs</b> (continued)	
Pine, Mugo	<i>Pinus mugo</i>
Privet	<i>Ligustrum</i> spp.
Quince	<i>Chaenomeles</i> spp.
Redroot	<i>Ceanothus</i> spp.
Red-tip	<i>Photinia x fraseri</i>
Rhododendron	<i>Rhododendron</i> spp.
Rose	<i>Rosa</i> spp.
Rose-of-Sharon	<i>Hibiscus</i> spp.
Spirea	<i>Spiraea</i> spp.
Viburnum	<i>Viburnum</i> spp.
Weigela	<i>Weigela florida</i>
Wild lilac	<i>Ceanothus</i> spp.
<b>Ground Covers</b>	
Cinquefoil, spring	<i>Potentilla</i> spp. <i>Potentilla fruticosa</i>
Gazania	<i>Gazania splendens</i>
Lilyturf, big blue or giant	<i>Liriope muscari</i>
Pachysandra	<i>Pachysandra terminalis</i>
Sedum/Stonecrop	<i>Sedum</i> spp.
Verbena	<i>Glandularia</i> spp.
<b>Herbaceous Perennials</b>	
Alumroot	<i>Heuchera sanguinea</i>
Anemone	<i>Anemone hupehensis</i>
Astilbe (False spirea)	<i>Astilbe</i> spp.
Clematis	<i>Clematis</i> spp.
Coneflower	<i>Echinacea</i> spp.
Coral bells	<i>Heuchera sanguinea</i>
Daylily	<i>Hemerocallis</i> spp.
Flag	<i>Iris</i> spp.
Gaura	<i>Gaura lindheimeri</i>
Goldenrod	<i>Solidago</i> spp.
Hosta	<i>Hosta</i> spp.
Hyssop	<i>Agastache</i> spp.
Iris	<i>Iris</i> spp.
Jasmine, confederate	<i>Trachelospermum jasminoides</i>
Lantana	<i>Lantana</i> spp.
Lavender, English	<i>Lavandula angustifolia</i>
Lily of the Nile	<i>Agapanthus africanus</i>
Liriope	<i>Liriope</i> spp.
Lobelia	<i>Lobelia</i> hybrids
Purple coneflower	<i>Echinacea</i> spp.

(continued)

**Table 2. Ornamental Species** *(continued)*

Common Name	Scientific Name
<b>Herbaceous Perennials</b> <i>(continued)</i>	
Sage	<i>Salvia</i> spp. <i>Salvia x superba</i>
Sage, Ramona	<i>Salvia sylvestris</i>
Shasta daisy	<i>Chrysanthemum x superbum</i>
Stonecrop	<i>Sedum</i> spp.
Thrift sea pink	<i>Armeria maritima</i>
Turtlehead/Snakehead	<i>Chelone</i> spp.
Yarrow	<i>Achillea millefolium</i>
<b>Bedding Plants</b>	
Alyssum, sweet	<i>Lobularia maritima</i>
Gazania	<i>Gazania</i> spp.
Periwinkle, rose	<i>Catharanthus roseus</i>
Petunia	<i>Petunia</i> spp.
Sweet potato, ornamental	<i>Ipomoea batatas</i>
Verbena	<i>Glandularia x hybrida</i>

### Landscape and Grounds Maintenance

**FreeHand® CA 1.75G herbicide** can be used in landscape and grounds maintenance programs to provide extended preemergence weed control. Areas to be treated include those areas where gravel, pebble, stone, rock and other porous surfaces are used in landscaping instead of organic mulches. **FreeHand CA 1.75G** can be used in established ornamental plantings in nonagricultural areas defined as follows:

- **Landscaped ornamental maintenance areas** in residential and commercial establishments, multifamily dwellings, military and other institutions, university or college campuses, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, and prairie grass areas, common areas in residential developments, and in nonproduction areas in commercial nurseries, such as storage areas, vegetation filter strips, windbreaks, shelterbelts or cart paths.
- **General grounds maintenance in the following specified noncrop areas** – Parking lots, driveways and roadsides, highway rights-of-way, alleyways, bike and jogging paths, vacant lots, buildings, stone gardens and gravel yards, around statuary or monuments, utility substations, markers/borders and fence lines, and mulch beds. **FreeHand CA 1.75G** may be used under asphalt or concrete treatments as part of a site preparation program.

Refer to **Table 1** for application rates, **Table 2** for list of ornamental species, and **Table 3** for weeds controlled.

### Tree Plantations

Use **FreeHand CA 1.75G** for preemergence weed control during site preparation, establishment and/or maintenance of tree plantations (including Christmas trees). Also use **FreeHand CA 1.75G** for hardwood and conifer regeneration on Conservation Reserve Program (CRP) land or similar areas.

**FreeHand CA 1.75G** may be applied at planting or to established trees. When making an application at planting, it is important that slit closure be achieved to prevent **FreeHand CA 1.75G** from directly contacting the tree roots or being washed into the root zone via the open slit, or root stunting may occur. **DO NOT** apply to newly transplanted seedlings until plants have been watered and soil has been thoroughly packed and settled around roots.

Refer to **Table 1** for application rates, **Table 2** for list of ornamental (tree) species, and **Table 3** for weeds controlled.

### Turfgrass

**FreeHand CA 1.75G** may be used in select turfgrass sites. Use sites include: grounds or lawns around residential and commercial establishments, multifamily dwellings, military and other institutions, campuses, parks, airports, roadsides, schoolyards, playgrounds, picnic grounds, athletic fields and similar recreational areas, houses of worship, cemeteries, golf courses, prairiegrass, naturalized grass areas, and sod farms.

**FreeHand CA 1.75G** applied as directed will provide preemergence control or suppression of most annual grass weeds, many annual broadleaf weeds, and sedges as they germinate in turfgrass. Refer to **Table 3** for weeds controlled.

### Application Instructions

Apply **FreeHand CA 1.75G** to any improved or unimproved maintained turfgrass area of warm-season turfgrass species as described in the **Tolerant Turfgrass Species** table following. Apply **FreeHand CA 1.75G** at use rates only as directed on select turfgrass species. The user assumes all risk with **FreeHand CA 1.75G** application to any turfgrass species not listed as tolerant in the following table.

### Tolerant Turfgrass Species

Warm-season Turfgrass Species	FreeHand CA 1.75G Use Rate Range (lbs product/A)
Bermudagrass, common	100 to 200
Bermudagrass, hybrid	100 to 200

**FreeHand CA 1.75G** may be applied in a sequential use program with other herbicides that control emerged weeds. **FreeHand CA 1.75G** may be applied before or

after postemergence herbicides used to control emerged weeds in turfgrass.

For control of summer annual weeds, apply **FreeHand® CA 1.75G herbicide** as an initial application in the spring prior to weed seed germination.

**NOTE:** Spring applications can be made when soil temperature is 55° F or higher. If application is made prior to soil temperature reaching 55° F, some turfgrass species could sustain injury.

For control of winter annual weeds, apply **FreeHand CA 1.75G** in late summer or early fall prior to weed seed germination.

As a preemergence herbicide in turfgrass, **FreeHand CA 1.75G** must be moved into the weed seed germination zone by rainfall or irrigation (equivalent to 1/2 inch of rainfall) after application. If **FreeHand CA 1.75G** is not activated by rainfall or irrigation within 7 to 10 days, erratic weed control may result.

## Instructions, Limitations, and Restrictions for Specific Turfgrass Species

### Warm-season Turfgrass

- Apply **FreeHand CA 1.75G** to **actively growing** warm-season turfgrass following spring transition when soil temperature is 55° F or higher.
- Apply **FreeHand CA 1.75G** only on well-established turfgrass with a dense and uniform stand.
- Application to turfgrass stands under stress may cause turfgrass injury.
- On turfgrass that has been thinned or damaged because of winter injury, excessive moisture, etc., allow for turfgrass recovery prior to applying **FreeHand CA 1.75G**.
- **Restriction: DO NOT** apply **FreeHand CA 1.75G** to turfgrass where **annual bluegrass** (*Poa annua*) is part of the stand. **FreeHand CA 1.75G** will injure, thin, and discolor both seedling and established annual bluegrass.
- **Restriction: DO NOT** apply **FreeHand CA 1.75G** to turfgrass if any **roughstalk bluegrass** (*Poa trivialis*) is present at any time in the stand or if roughstalk bluegrass is overseeded or unacceptable injury will occur.

(continued)

## Instructions, Limitations, and Restrictions for Specific Turfgrass Species (continued)

### Overseeded Warm-season Turfgrass

- Delay (winter) overseeding of treated turfgrass for at least three (3) months following the last **FreeHand CA 1.75G** application.
- Apply **FreeHand CA 1.75G** to aid in the removal of annual grass in overseeded warm-season turfgrass. Apply only when temperature is above 55° F and warmseason turfgrass is actively growing.
- If **FreeHand CA 1.75G** is applied just prior to overseed removal, thinning or injury of the overseeded species may occur.
- Application of a nitrogen-containing fertilizer at or soon after a **FreeHand CA 1.75G** application will minimize any delay in spring greenup.

### Sprigging Warm-season Turfgrass

- Delay **FreeHand CA 1.75G** application until at least two (2) months after sprigging and until turfgrass roots are established.
- Following a **FreeHand CA 1.75G** application, delay sprigging turfgrass into the treated area for three (3) months.

### Dormant Warm-season Turfgrass

- **FreeHand CA 1.75G** can be applied sequentially or in concert with glyphosate or other postemergence herbicides for application to dormant, non-overseeded turfgrass stands.

## Instructions, Limitations, and Restrictions for Specific Turfgrass Use Sites

### Sod Establishment

- Application of **FreeHand CA 1.75G** to newly sodded areas must be delayed until the turfgrass root system is well established and the turfgrass has been mowed at least two (2) times.

### Re-seeding in Turfgrass Establishment

- Delay re-seeding of treated turfgrass for at least three (3) months following the last **FreeHand CA 1.75G** application.

### Newly Planted Areas (new seedings)

- **Restriction: DO NOT** apply **FreeHand CA 1.75G** to newly planted areas until the turfgrass has filled in and has been mowed at least four (4) times.

(continued)



## Instructions, Limitations, and Restrictions for Specific Turfgrass Use Sites *(continued)*

### Residential Turfgrass

- **Restriction: DO NOT** apply more than 150 lbs/A **FreeHand® CA 1.75G herbicide** in a single application in residential turfgrass. A repeat application can be made 6 weeks after initial application.
- **Restriction: DO NOT** apply **FreeHand CA 1.75G** to turfgrass within 2 weeks after mechanical disturbance such as aerification and verticutting.

### Golf Course

- **FreeHand CA 1.75G** may be applied to established turfgrass on tees, fairways, roughs, and any other maintained or naturalized turfgrass area on the golf course.
- **Restriction: DO NOT** apply **FreeHand CA 1.75G** to putting greens.
- **Restriction: DO NOT** apply **FreeHand CA 1.75G** to turfgrass within 2 weeks after mechanical disturbance such as aerification and verticutting.

### Bareground or Other Unimproved Maintained Areas, or Landscaped Areas

- Apply **FreeHand CA 1.75G** to soil, unimproved turfgrass, or in landscaped areas that are maintained with mulch (such as shredded hardwood or pine straw), wood chips, or gravel.

### Naturalized Areas

- **Grass species - FreeHand CA 1.75G** may be used to control weeds in naturalized grass areas on species listed in the **Tolerant Turfgrass Species** table. A reduction or elimination of seedheads may be observed on some species.
- **Wildflower and other ornamental species - FreeHand CA 1.75G** may be used to control weeds in naturalized wildflower and/or ornamental areas on species listed in **Table 2. Ornamental Species**. A reduction or elimination of seedheads may be observed on some species.

### Industrial (unimproved) Turfgrass

- Industrial or unimproved turfgrass areas have a different spectrum of weeds to be controlled than those found in fine turfgrass as described in this label. **FreeHand CA 1.75G** will control weeds that germinate in established grass in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas.

## Weed Species Controlled

**Table 3. Weeds Controlled**

Use **FreeHand CA 1.75G** for preemergence control of the following weed species listed according to use rate.

Weeds controlled when <b>FreeHand CA 1.75G</b> 100 lbs/A is applied at 100 lbs/acre (2.3 lbs <b>FreeHand CA 1.75G</b> /1000 sq ft)	
Common Name	Scientific Name
Amaranth, Palmer	<i>Amaranthus palmeri</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Carpetweed	<i>Mollugo verticillata</i>
Foxtail, giant	<i>Setaria faberi</i>
Foxtail, green	<i>Setaria viridis</i>
Foxtail, yellow	<i>Setaria glauca</i>
Henbit	<i>Lamium amplexicaule</i>
Lambsquarters, common	<i>Chenopodium album</i>
Pigweed, prostrate	<i>Amaranthus blitoides</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, smooth	<i>Amaranthus hybridus</i>
Pigweed, tumble	<i>Amaranthus albus</i>
Pusley, Florida	<i>Richardia scabra</i>
In addition to the weeds controlled at 100 lbs <b>FreeHand CA 1.75G</b> /acre application rate, the following weeds will be controlled when <b>FreeHand CA 1.75G</b> is applied at 150 lbs/acre (3.4 lbs <b>FreeHand CA 1.75G</b> /1000 sq ft)	
Common Name	Scientific Name
Amaranth, Powell	<i>Amaranthus powellii</i>
Bittercress	<i>Cardamine</i> spp.
Bluegrass, annual	<i>Poa annua</i>
Bluegrass, roughstalk	<i>Poa trivialis</i>
Brome, California	<i>Bromus carinatus</i>
Brome, downy	<i>Bromus tectorum</i>
Chamomile, mayweed	<i>Anthemis cotula</i>
Chickweed, common	<i>Stellaria media</i>
Chickweed, mouseear	<i>Cerastium vulgatum</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>
Crabgrass, smooth	<i>Digitaria ischaemum</i>
Cudweed	<i>Gnaphalium</i> spp.
Cupgrass, Southwestern	<i>Eriochloa gracilis</i>
Doveweed	<i>Murdannia nudiflora</i>
Evening primrose	<i>Oenothera biennis</i>
Flatsedge, rice	<i>Cyperus iria</i>
Goosegrass	<i>Eleusine indica</i>

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**Table 3. Weeds Controlled** (continued)

<p>In addition to the weeds controlled at 100 lbs <b>FreeHand® CA 1.75G herbicide</b>/acre application rate, the following weeds will be controlled when <b>FreeHand CA 1.75G</b> is applied at 150 lbs/acre (3.4 lbs <b>FreeHand CA 1.75G</b>/1000 sq ft)</p>	
Common Name	Scientific Name
Groundsel, common	<i>Senecio vulgaris</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>
Knotweed, prostrate	<i>Polygonum aviculare</i>
Nightshade, black	<i>Solanum nigrum</i>
Nightshade, cutleaf	<i>Solanum triflorum</i>
Nightshade, Eastern black	<i>Solanum ptycanthum</i>
Nightshade, hairy	<i>Solanum sarrachoides</i>
Purslane, common	<i>Portulaca oleracea</i>
Red rice	<i>Oryza sativa</i>
Ryegrass, Italian	<i>Lolium multiflorum</i>
Sandbur, field	<i>Cenchrus incertus</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>
Speedwell, corn	<i>Veronica arvensis</i>
Spurge, annual	<i>Chamaesyce</i> spp. <i>Euphorbia</i> spp.
Waterhemp, common	<i>Amaranthus rudis</i>
Waterhemp, tall	<i>Amaranthus tuberculatus</i>
Witchgrass	<i>Panicum capillare</i>
<p>In addition to the weeds controlled at 100 lbs and 150 lbs <b>FreeHand CA 1.75G</b>/acre application rates, the following weeds will be controlled when <b>FreeHand CA 1.75G</b> is applied at 200 lbs/acre (4.6 lbs <b>FreeHand CA 1.75G</b>/1000 sq ft)</p>	
Common Name	Scientific Name
Burweed, lawn	<i>Soliva pterosperma</i>
Clover, hop	<i>Trifolium procumbens</i>
Crowfootgrass	<i>Dactyloctenium aegyptium</i>
Cupgrass, woolly	<i>Eriochloa villosa</i>
Eclipta	<i>Eclipta alba</i> <i>E. prostrata</i>
Fiddleneck	<i>Amsinckia intermedia</i>
Itchgrass	<i>Rottboellia exaltata</i>
Junglerice	<i>Echinochloa colona</i>
Kochia	<i>Kochia scoparia</i>
Lovegrass (from seed)	<i>Eragrostis</i> spp.

(continued)

**Table 3. Weeds Controlled** (continued)

<p>In addition to the weeds controlled at 100 lbs and 150 lbs <b>FreeHand CA 1.75G</b>/acre application rates, the following weeds will be controlled when <b>FreeHand CA 1.75G</b> is applied at 200 lbs/acre (4.6 lbs <b>FreeHand CA 1.75G</b>/1000 sq ft)</p>	
Common Name	Scientific Name
Nutsedge, yellow	<i>Cyperus esculentus</i>
Panicum, browntop	<i>Panicum fasciculatum</i>
Panicum, fall	<i>Panicum dichotomiflorum</i>
Panicum, Texas	<i>Panicum texanum</i>
Puncturevine	<i>Tribulus terrestris</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
Rocket, London	<i>Sisymbrium irio</i>
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>
Sowthistle	<i>Sonchus arvensis</i>
Sprangletop, Mexican	<i>Leptochloa uninervia</i>
Sprangletop, red	<i>Leptochloa filiformis</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Willowherb	<i>Epilobium</i> spp.
Woodsorrel, yellow	<i>Oxalis</i> spp. <i>O. corniculata</i> <i>O. stricta</i>

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