

Active Ingredient:

Sethoxydim*: [2-[I-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen- 1-one].....

CAUTION

FIRST AID

If in eyes: Flush with plenty of water. Call a physician if irritation persists. If on skin: Wash with plenty of soap and water. Get medical attention.

If swallowed: Promptly drink a large quantity of milk, egg whites, gelatin solution, or, if these are

not available, large quantities of water. Avoid alcohol.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye injury. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for category **E** on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥14 mils
- Shoes plus socks

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Manufactured By: MICRO FLO COMPANY LLC P.O. Box 772099 Memphis, TN 38117-2099

^{*}Equivalent to 1.0 pound of sethoxydim per gallon

Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- -Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- -Remove clothing 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

For terrestrial uses, 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 washwaters.

ENDANGERED SPECIES CONCERNS

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. 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.

All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

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), notification to workers, 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
- -Chemical-resistant gloves such as barrier laminate, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, or viton \geq 14 mils
- -Shoes plus socks

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, nurseries, or greenhouses. Do not allow people or pets to come into contact with treated areas until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Do not store below 32°F or above 100°F. Store in a dry place away from heat or open flame. Avoid contamination of feed or foodstuffs.

Pesticide Disposal: Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal:

<u>Plastic Containers</u>: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

In Case of Emergency

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

CHEMTREC 1-800-424-9300 (transportation and spills)

Poison Control Center 1-800-900-4044 (human health) ASPCA 1-800-345-4735 (animal health)

I. GENERAL INFORMATION

Vantage herbicide is a selective, broad spectrum, postemergence herbicide for control of annual and perennial grass weeds in turf, ornamentals, nonfood, and noncrop sites listed on this label. Vantage does not control sedges or broadleaf weeds. Essentially, all grass crops, such as sorghum, corn, small grains, and rice, as well as ornamental grasses, such as turf, are susceptible to Vantage. A program for total vegetation suppression may necessitate the use of a broadleaf herbicide. Any combination treatment using Vantage, either tank mixed or sequential, should be tested to determine if seedhead growth suppression is maintained without increased injury or discoloration to tall fescue or other desired plant species. A reduction in grass competition may make certain broadleaf weeds appear more prominent or may allow new weeds to germinate.

Vantage may be used in or around the following sites:

Airports Perennial peanuts

Bedding plants (nonfood)

Centipedegrass and fine Pipeline pumping stations

fescue turf Potting and top soils

Drug and medicinal crops Public buildings
Electrical transformer Recreation areas
stations Rights-of-ways

Fences and hedgerows Roadsides

Fine fescue seed Sewage disposal areas

production Shrubs
General indoor/outdoor Storage yards

sites Trees, Christmas trees
Ground covers Uncultivated agricultural

Industrial sites areas
Other paved areas Wildflowers

MODE OF ACTION

Vantage rapidly enters the targeted grass weed through its foliage and translocates throughout the plant. The effects range from slowing or stopping growth (generally within 2 days), to foliage reddening and leaf tip burn. Subsequently, foliage burnback occurs. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

CROP TOLERANCE

All labeled crops are tolerant to **Vantage** at all stages of growth. Leaf speckling may occur, but plants generally outgrow this condition within 10 days. New growth is normal and crop vigor is not reduced.

Notice to user: Due to variability within species, and in application techniques and equipment, and the number of tank mix combinations, neither the manufacturer nor the seller has determined whether or not Vantage can safely be used on all varieties and species of nonbearing food crops, trees, shrubs, ornamentals, bedding plants, ground covers, nursery, wildflowers, Christmas trees, turf and other non-food crops under all conditions. It is recommended, therefore, that the professional user determine if Vantage can be used safely before broad use by applying the recommended use rate of Vantage under the conditions expected to be encountered on a small test area. Any adverse effects should be visible within 7 days.

Herbicide Resistance

Repeated use of **Vantage** (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes with resistance to these products. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. Consult your local representative or agricultural advisor for assistance **Irrigation**

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

Coverage

Apply **Vantage** to the foliage of grasses on a spray-to-wet basis uniformly and completely. Dense leaf canopies shelter smaller grassy weeds and can prevent adequate spray coverage. Do not spray to the point of runoff.

Cultivation/Mowing

If cultivation is an option, do not cultivate during the time between 5 days before and 7 days after applying **Vantage.** Cultivating 7-14 days after treatment may help provide season-long control of perennial grasses. Centipedegrass and fine fescue areas should not be mowed within 7 days before or after applying **Vantage.** Increased control has been observed when mowing is delayed until 14 days after application. Grass weeds that have been mowed or have regrown from mowed stubble may be controlled poorly. Repeat application if new germination or regrowth occurs.

Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

II. APPLICATION INSTRUCTIONS

Applications can be made to actively growing grassy weeds as aerial, broadcast, band, or spot spray applications at the rates and growth stages listed in **Tables 1** and **2**, unless instructed differently in section **VII**. **Crop-Specific Information**. The most effective control will result from making postemergent applications of **Vantage** early, when grassy weeds are small. Delaying application permits grassy weeds to exceed the maximum size stated and will prevent adequate control.

Do not apply when conditions favor drift from target area or when windspeed is greater than 10 mph.

Ground Application (Broadcast)

Water Volume: Use 5-50 gallons of spray solution per acre (1 -10 pints per 1,000 square feet). **Spray Pressure:** Use 30-60 psi (measured at the boom, not at the pump or in the line). When crop and grass weed foliage is dense, use a minimum of 20 gallons (3.67 pints per 1,000 square feet) of water and 60 psi.

Application Equipment Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Refer to the nozzle manufacturer's directions for recommended height.

Table 1. Application Rates for Grass Control

Vantage (Rate)		
Grass up to 6" height	Grass up to 12" height	
2.25 pints per acre or 0.8 fluid ounces per 1,000 square feet	3.75 pints per acre or 1.4 fluid ounces per 1,000 square feet	
	Crass up to 6" height 2.25 pints per acre or 0.8 fluid ounces	

¹up to 4"
²In Seedling Centipedegrass and fine fescue, use 1.5 pints (0.5 fluid ounces)

3up to 8"

⁴up to 6"

*Not recommended in CA, AZ, or Western NM

Table 2. Spot Treatment Application Rates

Grass (see Appendix for the complete list of grasses controlled)	Concentration of Vantage in Spray Solution
Annual grasses up to 6" height	1.5%
Annual grasses up to 12" height	2.25%
Perennialgrasses	2.25%1
¹ Use 1.5% for wirestem muhly.	

Table 3. Spot Treatment Dilution

Spray Solution Volume	Amount of Vantage to be Added	
	1.5% v/v	2.25% v/v
1 gallon	2 fl. oz.	3 fl. oz.
3 gallons	6 fl. oz.	9 fl. oz.
5 gallons	9.5 fl. oz.	14.5 fl. oz.

Do not use selective application equipment such as recirculating sprayers or wiper applicators.

Spot or Small Area Application

Vantage can be applied using tank-type, knapsack sprayers, high-volume equipment with hand guns, or other suitable nozzle arrangements. Prepare a solution of **Vantage herbicide** in water according to **Table 2.** Do not make spot treatments in addition to broadcast or band treatment.

III. ADDITIVES

No additives or adjuvants are recommended for use with Vantage herbicide.

Compatibility Test for Tank Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

- 1) **Water: -** For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2) **Products in PVA bags: -** Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water-soluble PVA bag first when preparing spray solution. Cap the jar and invert 10 cycles.
- 3) Water-dispersible products: (dry flowables, wettable powders, suspension concentrates, or suspoemulsions) Cap the jar and invert 10 cycles.
- 4) Water-soluble products: Cap the jar and invert 10 cycles.
- 5) Emulsifiable concentrates: (Vantage) Cap the jar and invert 10 cycles.
- 6) Water-soluble additives: Cap the jar and invert 10 cycles.
- 7) Let the solution stand for 15 minutes.
- 8) **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

IV. MIXING ORDER

- 1) Water: Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) **Products in PVA bags:** Rinse the tank thoroughly before adding any material in PVA bags as boron residue will prevent adequate mixing. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all watersoluble PVA bags have fully dissolved and is evenly mixed in the spray tank before continuing.
- Water-dispersible products: (dry flowables, wettable powders, suspension concentrates, or suspoemulsions)
- 4) Water-soluble products
- 5) Emulsifiable concentrates (Vantage)
- 6) Water-soluble additives
- 7) Remaining quantity water

Maintain constant agitation during application.

V. Tank Mixing Application

Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. Refer to section **VII. CropSpecific Information** for more details.

The most restrictive labeling applies to tank mixes. Separate applications should be made if all target grassy weeds are not at the correct growth stage for treatment at the same time.

Tank mixing **Vantage** with some postemergence broadleaf herbicides has shown some reduction or failure to control some grassy weeds that would otherwise be controlled and therefore may require a higher rate of **Vantage**. However, do not exceed the maximum rate per application as listed in **Table 6**. If regrowth occurs or an additional flush of new grasses emerges, reapply **Vantage** according to recommended rates in **Table 4**. **Tank Mix Partners**

The following herbicides may be tank mixed with **Vantage** according to the instructions in the respective product labels.

- Basagran® T/O
- Basagran® SG

- Fortune®*
- Goal®
- Stinger®
- Surflan® AS

Physical incompatibility, reduced grass weed control, or crop injury may result from mixing **Vantage** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. Micro Flo does not recommend using tank mixes other than those listed on Micro Flo labeling. Local agricultural authorities may be a source of information when using other than Micro Flo recommended tank mixes.

VIII. GENERAL RESTRICTIONS AND LIMITATIONS - ALL CROPS

- Maximum seasonal use rate: See section IX. Crop-Specific Information for crop-specific maximum seasonal use rates.
- Restricted Entry Interval (REI): 12 hours.
- Avoid all direct or indirect contact with any desired grass crop unless otherwise recommended on the **Vantage**® **herbicide** label.
- Do not use treated vegetation as pasture, hay, feed, or forage.
- Do not apply Vantage with another pesticide whose label cautions against use with additives, surfactants, or oil adjuvants.
- Do not use **selective application equipment** such as recirculating sprayers. wiper applicators, or **shielded applicators.**
- Stress: Do not apply to grasses or crops under stress such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as unsatisfactory control will probably result.
- Do not apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Rainfast Period: Vantage is rainfast 1 hour after application.
- Do not apply through any type of irrigation equipment.

IX. CROP-SPECIFIC INFORMATION Christmas Tree and Deciduous Tree Farms

Vantage® herbicide may be used to control annual and perennial grasses in Christmas and deciduous tree farms. If a Christmas tree or deciduous tree is not listed in the Appendix, the user may determine if Vantage can be used safely prior to broad use by applying the recommended use rate of Vantage to the target plant on a small test area under the conditions expected to be encountered. Any adverse effects should be visible within 7 days.

Table 4. Christmas Trees

Common Name	Scientific Name	Common Name	Scientific Name
Fir, Balsam	Abies balsamea	Spruce, Black Hills	Piceaglauca
Douglas	Pseudotsuga mensiesii	Colorado Blue	Piceapungens
Frasier	Abiesfraseri	Norway	Picea abies
Grand	Abies grandis	White	Piceaglauca
Noble	Abies procera (A. nobilis)		_
Nordmann	Abiesnordmanniana		
Red	Abies magnifica		
Shasta	Abies magnifica		
Turkish			
White	Abies concolor		
Hemlock, Canada	Tsuga canadensis		
Pine, Austrian	Pinus nigra		
Lodgepole	Pinus contorta latifolia		
Monterey	Pinus radiata		
Ponderosa	Pinus ponderosa		
Scotch	Pinus sylvestris		
Southern (Longleaf)	Pinus palustris		
Virginia	Pinus via		
White	Pinusstrobus		

^{*}For use only in AZ, NV, OR, WA.

TANK MIXES

Vantage + Goal^a 1.6E herbicide

Vantage: up to 3.75 pints Goal 1.6E: up to 2.5 pints

or

Vantage + Goal® T/O 2-XL herbicide

Vantage: up to 3.75 pints Goal T/O 2-XL: 1.0-2.0 pints

(Not for use in California)

These tank mixes may be applied to control a broad spectrum of grass and broadleaf weeds in conifers and Christmas trees. Consult the **Goal 1.6E** and **Goal T/O 2-XL** labels for the list of grassy weeds and/or broadleaf weeds controlled. See previous pages for the minimum recommended rates of **Vantage** and see the **Goal 1.6E** and **Goal T/O 2-XL** label for minimum rates of **Goal 1.6E** and **Goal T/O 2-XL**. For season-long control, 2-3 applications may be needed. In some cases, reduced grass control may result when tank mixing **Vantage** with **Goal 1.6E** and **Goal T/O 2-XL**.

Apply a spray volume of 20 gallons per acre at 40 psi before conifer bud break or after conifer foliage has had an opportunity to harden off. Broadleaf weeds must be within the height indicated on the **Goal 1.6E** and **Goal T/O 2-XL** labels. Refer to **Goal** label for pre-emergence weed control application rates.

Specific Restrictions and Limitations

Do not apply this tank mix when temperatures exceed 90° F. Do not apply this tank mix to conifer seedlings less than 10 months old. Do not apply this tank mix by aircraft equipment.

Vantage + Stinger® herbicide

Vantage: 0.5-1.5 pints

Stinger: refer to manufacturer's label

A postemergence tank mix application of **Vantage +Stinger** will not only control a broad spectrum of grasses, but also certain broadleaf weeds such as Canada thistle, clover, vetch, knapweed and suppress other broadleaf weeds. Consult the **Stinger** labeling for a list of broadleaf weeds controlled. This tank mix may be applied only over-the-top of the following actively growing trees: fir (balsam, Douglas, frasier, grand, noble), pine (lodgepole, ponderosa, scotch, white), and spruce (blue).

Specific Restrictions and Limitations

In the Pacific Northwest, do not apply this tank mix in the first year of transplanting as injury (leaf curling) may occur.

Do not apply more than 0.5 pint of **Stinger** per acre on blue spruce.

Do not add a surfactant or oil concentrate to this tank mix as injury may occur.

Nonbearing Food Crops,
Ornamental and Nursery Plantings,
Rights of Way, Nonfood Crop Areas,
Noncrop Areas, and Fallow Land

Apply **Vantage** to nonbearing food crops, nursery liners, trees, shrubs, ornamentals, bedding plants, cut flowers, and ground covers including those listed in the **Appendix**. If species in the application site are not listed in the **Appendix**, **Vantage** may be applied as a directed spray away from the foliage of desired plants. **Vantage** may also be applied to sites such as rights-ofways, fallow land, noncrop areas and nonfood crop areas such as airports, industrial sites, roadsides, storage yards, and other areas listed in section **1. General Information**. Repeat application if new germination or regrowth occurs.

Ornamental Sites Tank Mixes

<u>Vantage + Basagran® T/O herbicide</u>

Vantage: up to 3.75 pints Basagran T/O: up to 4 pints

or

Vantage + Basagran® SG herbicide

Vantage: up to 3.75 pints Basagran SG: up to 18 ounces

These tank mixes may be applied as a directed spray to control yellow nutsedge, grass, and broadleaf weeds in nonbeading food crops and ornamental sites including trees, shrubs, bedding plants, and ground covers. This tank mix should be applied as a directed spray away from the foliage of desired plants. If any desirable plant foliage receives direct or indirect application, wash off immediately. The use of an oil concentrate as mentioned on the **Basagran T/O** and **Basagran SG** labels is not necessary in this tank mix. Over-the-top applications of this tank mix may be made to certain ground covers. Consult the **Basagran T/O** and **Basagran SG** labels for this listing.

<u>Vantage</u>[®] <u>herbicide</u> + <u>Surflan</u>[®] <u>AS herbicide</u>

Vantage: up to 3.75 pints Surflan AS: up to 4 pints

A tank mix of **Vantage + Surflan A.S.** may be applied to control weeds in ornamental sites including trees, shrubs and groundcovers.

<u>Vantage + Fortune</u>[®] <u>herbicide</u>

Vantage: up to 3.75 pints Fortune: up to 4 pints

A tank mix of Vantage + Fortune may be applied to control weeds in these states: AZ, NV, OR, and WA).

Roadsides, Rights of Way, and Nonfood Crop Alleyways

(Not intended for domestic use, except by professional applicators)

Vantage will suppress the initiation and development of the seedheads of established tall fescue. Discoloration of the fescue will occur soon after application and may persist for 2-8 weeks depending on environmental conditions. Avoid applying to any tall fescue area where discoloration is aesthetically unacceptable.

Timing: Apply **Vantage** to tall fescue before the emergence of seedheads in the spring. Do not apply after May 1 in Alabama, Georgia, and Tennessee; timing may vary in other areas. Tall fescue must be one year old before the first application of **Vantage.**

Rate: Apply 1.5 pints per acre (0.6 ounces per 1,000 square feet) of **Vantage. Spray volume:** Use 30-50 gallons per acre (5.5-9.0 pints per 1,000 square feet).

Restrictions and Limitations

Do not make more than one application of **Vantage** to tall fescue per year. Treated vegetation may not be used as feed, forage, hay, or silage. **Vantage** will not injure clovers, vetch, or other broadleaf plants that may be present.

Tree Farms

ESTABLISHED TALL FESCUE GROWTH SUPPRESSION:

Vantage may be used in tree farms to suppress the growth of tall fescue when grown as a desired ground cover. Tall fescue must be actively growing at the time of **Vantage** application or injury may occur. Follow the directions on rates and timing closely.

Timing

Apply **Vantage** to tall fescue after it has had 4-6 inches of new growth, before the emergence of seedheads and before conifer bud break. Application from July 1 to mid August may be less effective, especially if day temperatures reach 90°F. Tall fescue must be one year old before the first application of **Vantage**.

Rate: Apply 3-3.75 pints of Vantage per acre (0.6-0.7 ounces per 1,000 square feet). For greater fescue

suppression, up to 60 fluid ounces of **Vantage** can be used per acre (1.4 ounces per 1,000 square feet). Local environmental differences or growth differences at the time of application to tall fescue may cause results to be different from those desired. Users of **Vantage** are advised to begin using **Vantage** at the minimum recommended rate and adjust rates as local conditions and experience dictate. Additional applications may be made if extended growth suppression is desired.

Wildflowers

Vantage may be used to control grass in native wildflowers on roadsides and in landscapes.

Vantage will reduce the competition from grasses on wildflower species. Grass competition can cause flower stand thinning, stunting and reduced seed production, reducing the aesthetic value and the resetting potential of the wildflower stand. Many wildflower species are tolerant of **Vantage** applications such as those listed in the **Appendix.** However, apply **Vantage** prior to blooming.

Application Timing

Apply **Vantage** to grass after wildflowers have emerged, but not during flowering. Apply **Vantage** 4-6 weeks after wildflowers have emerged, but always base the application timing on grass size. Make broadcast applications according to the **Annual Grass Control with Vantage** and **Perennial Grass Control with Vantage** tables. A second application may be necessary if a new flush of grass occurs later in the growing season.

Turf, Lawns, Rights of Way

FINE FESCUE GROWN FOR TURF SEED: (Not for use in California)

Vantage may be used to control annual and perennial grass weeds in fine fescue. On seedling centipedegrass, do not apply more than 1.5 pints per acre per application, or 3 pints per acre per season. On established centipedegrass, do not apply more than 2.25 pints per acre per application or 4.5 pints per acre per season. Applications should be made in the Pacific Northwest from November 1 to March 15 at the rates indicated in **Table 5.** Applying **Vantage** at other times of the year will generally result in reduced control of these problem grass weeds. Vantage does not control annual bluegrass or rattail fescue.

Restrictions and Limitations

Do not apply Vantage to desirable tall fescue turf because injury may occur.

Table 5. Application Rates for Pacific Northwest only

Grass Species	Weed Size	Rate per Acre*
Annual Grasses		
Annual Ryegrass	4-8"	2.25 pints
Downy Brome ¹	2-6"	3.75 pints
Perennial Grasses		
German Velvetgrass	2-4"	3-3.75 pints
Colonial and Highland	2-4"	2.25-3.75 pints
Bentgrasses		

¹also called cheatgrass

Tank Mixes

Vantage + Basagran®-T/O herbicide
Vantage: 2.25 pints

Basagran T/O: 2-4 pints

(Not applicable in California)

A tank mix of **Vantage** and **Basagran T/O** may be applied to control yellow nutsedge (nutgrass), grass, and broadleaf weeds in centipedegrass and fine fescue areas. This tank mix may be applied to established turf grass. Do not apply to newly seeded turf sites until the turf has become fully established. The use of oil concentrate in this tank mix is not recommended.

^{*}If regrowth occurs or new plants emerge, make a second application at the same rate and weed size.

Appendix

Tree Species Tolerant to Vantage® herbicide

Acacia, Knife Leaf (Acacia cultriformis)

Arborvitae, Eastern (var.- Teehny) (1-huja occidentalis)

, Berkmans, Oriental (Thuja Orientalis)

Ash, Green (Fraxinus pennsylvanicum)

, Mountain (Sorbus aucuparia)

, Mountain (Sorbus americans decora) ,White (Fraxinus americans)

Basswood, American (*Tilia americans*)
Berkman's, Oriental (*Thuja orientalis*)

Birch (Betula sp)

,Asian White (var. Japonica)(Betula platyphylla)

,European White (Betula pendula) ,paper (Betula papyrifolia) ,River, Black or Red (Betula nigra)

Black Locust (Robinia pseudoacacia)
Bottle-brush (Callistemon lanceolatus)
Bottle Tree (Brachychiton populneus)
Brisbane Box Tree (Tristania conferta)

Cajeput Tree (Melaleuca quinquenervia)

Carob Tree (Ceratonia siliqua)

Carrot Wood (Cupaniopsis anacardioides)
Catalpa, Southern (Catalpa bignonioides)

Cherry Black (Prunus serotina)

Cherry, Carolina (Prunus caroliniana "compacta")

Crabapple, Flowering (vardalgo, Radiant, Red Splendor, Royalty, Vanguard, Sylvestris,

Domestic) (Malus sp)

Cypress, False (Chamaecyparis pisifera)
, Leyland (Cupressocyparis leylandii)

, Italian (Cupressus sempeivirens)
Dogwood, Flowering (Comus florida)

,Silky (Comus amonum)
,Pagoda (Comus alternifolia)
Elm, Chinese Evergreen (Ulmus parvifolia)

Eucalyptus (Eucalyptus robusta, lehmannii, nicholi granis)

Fir (Abies sp)

,Douglas (Pseudotsuga menziesii)

,Frasier (Abies fraseri) ,White (Abies concolor)

Goldenrain Tree (Koelreuteria paniculata)
Guava (Psidium fittorale)

, Pineapple (Feijoa sellowiana)
Gum, Blue (Eucalyptus globulus)

,Lemon-scented (Eucalyptus citriodera) ,Red Box (Eucalyptus polyanthemos)

Hackberry, Common (Celtis occidentalis) Hemlock, Canadian (Tsuga canadensis)

Holly, Chinese (var. Bufordii, Rotunda)(Ilex cornuta)
,Hybrid (var Nellie Stevens)(Ilex spares)

,Japanese (var.- Convexa, Compacta, Helleri, Hoogendorn)(Ilex crenata)

,Yaupon (Ilex vomitoria)

Ironbark, Red (Eucalyptus sideroxylon)
Jacaranda (Jacaranda mimosifolia)
Kentucky Coffee Tree (Gymnocladus dioicus)

Larch, European (Larix europa)

Laurel, Indian (Ficus microcarpa nitida)

Linden	(Tilia amaricana)
, Liftleleaf	(Tilia americans) (Tilia cordata)
Locust, Honey	(Gleditsia triacanthos inermis)
Loquat	(Eriobotrya japonica)
Magnolia Southern	(Magnolia grandiflora)
Maple, Red	(Acer rubrum)
Japanese	(Acer palmatum)
, Silver	(Acer saccharinum)
Mimosa Tree	(silk tree)(Albizia julibrissin)
Myoporum	(Myoporum laetum)
New Zealand Christmas Tree	(Metrosideros excelsus)
Oak	(Quercus)
, Water	(Quercus nigra)
, Willow	(Quercus phellos)
Olive Tree	(Olea europaea)
Olive, Russian	(Elaeagnus angustifolia)
Orchid Tree, Purple	(Bauhinia variegata)
Osage Orange	(Maclura pomifera)
Palm, Mediterranean fan	(Chamaerops humilis)
, Pygmy Date	(Phoenix roebelenii)
, Queen	(Arecastrum romanzoffianum)
, Sago	(Cycas revoluta)
,Windmill	(Tracheocarpus fortunei)
Palo Verde, Green	(Parkinsonia aculeata)
Paulownia Royal	(Paulownia tommentosa)
Pear, Common	(Pyrus communis)
, Evergreen	(Pyrus kawakamii)
,Ussurian	(Pyrus ussuriensis)
Pepper, Brazilean	(Schinus terebinthifolius)
Pine, Aleppo	(Pinus halepensis)
,Austrian	(Pinus nigra)
,Canary Island	(Pinus canariensis)
,Caribbean Slash	(Pinus caribean)
,Italian Stone	(Pinus pinea)
,Jack	(Pinus banksiana)
,Japanese Black	(Pinus thunbergii)
,Loblolly	(Pinus taeda)
,Mugho	(Pinus mugho)
,Ponderosa, Western yellow	(Pinus ponderosa)
Red	(Pinus resinosa)
Scotch	(Pinus sylvestris)
,Shore	(Pinus contra)
,Slash	(Pinus ellottii)
,Southern	(Pinus palustris)
,Virginia	(Pinus virginiana)
,White	(Pinus strobus)
,White, Japanese	(Pinus parviflora)
,Yew	(Podocarpus macrophylllus)
Plum, Wild	(Prunus americana)
Poplar, Hybrid	(Populus alba)
Popular, Yellow, Tulip Tree	(Liriodendron tulipifera)
Purpleleaf, Bailey Acacia	(Acacia baileyana)
Redwood, Coast	(Sequois sempervirens)
Sandcherry, Western	(Prunus besseyi)
Sensitive Plant	(Mimosa pudica)
Silk Tree	(Albizia julibrissin)

(var. Densata) (Picea glauca) Spruce, Black Hills ,Colorado Blue (Picea pungens) (Picea abies) ,Norway .White (Picea glauca) Strawberry Tree (Arbutus unedo) Sumac, Standard, African (Rhus lancea) Sweet Gum (Liquidambar stryaciflus) (Platanus occidentalis) Svcamore Tea Tree, Australian (Leptosperinun laevigatum) Tipu Tree (Tipuana tipu) Walnut, Black (Juglans nigra) Weeping Fig, Exotica (Ficus benjamina) Willow (Salix matsudana tortuosa) .Australian (Ceijera parviflora) (Pittosporum phillyraeoides) .Desert ,Peppermint (Agonis flexuosa) Yate, Bushy (Eucalyptus lehmannii) Yew, English (Taxus baccata) Shrub Species Tolerant to Vantage^a herbicide Abelia, Glossy (Abelia grandiflora) (Acacia baileyana) Acacia, Bailey .Knife Leaf (Acacia cultriformis) .Prostrate (Acacia redolens) (Acacia longifolia) ,Sydney Golden Wattle Andromeda (Pieris japonica) Arborvitae, Oriental (Platycladus orientalis) Arrowwood, Southern (Viburnum dentatum) Azalea, Mollis hybrid (R. x kosterianum) ,Northern Lights Hybrid (R x kosterianum x R prinophylium) (Nandina domestics) Bamboo, Heavenly Barberry, Japanese (Berberis thunbergii) (Berberis koreana) ,Korean .Redleaf (Berberis Virginian) Bird of Paradise Bush (Caesalpinia gillesil) (Caryopteris clandonensis) Bluebeard Boxwood, Common (Buxus sempervirens) ,African (Myrsine africana) ,Japanese (var., Japonica)(Buxus microphylla) Buckthorn, Glossy, Alder (Rhamnus frangula) (Camellia japonica)(Camellia sasangua) Camellia Cedar, Eastern Red (var.- Pyramidiformus, caneartl) (Juniperus virginiana) Cherry, Brush (Eugenia myrtifolia) ,Manchu, Nanking (Prunus tomentosa) (Aronia meloelata) Chokecherry sp. Copper Plant, Caribbean (Euphoria cotinifolia) Cotoneaster, Bearberry (Cotoneaster dammerii) ,Cranberry (Cotoneaster apiculata) ,'lowfast' Peking (Cotoneaster acutifolia) Coyote Bush (Baccharis pilularis) (Viburnum trilobum) Cranberry Bush, American (Viburnum opulus aureum) .Golden Crape Myrtle (Lagestromia indica) Currant, Alpine (Ribes alpinum) (Cornus stolonifera) Dogwood, Red Osier (Elaeagnus umbellata) Elaeagnus

(Euonymus japonica) ,Winged (Euonymus alata) Fig, Creeping (Ficus repens) Firethorn (Pyracantha graberi) Forsythia, Greenstem (Forsythia viridissima bronxeniss) Flax. New Zealand (Phormium tenax) Fuchsia. Australian (Correa pulchella) (var. Mystery, Padicans)..(Gardenia augusta) Gardenia (Gardenia jasminoides) .Dwarf (var. Veitchii)(Gardeniajasminoides) Gold Vine. Guinea (Hibbertia scandens) Hakea (Hakea proteacea) Hawthorn, Indian (Phaphiolepis indica) Hibiscus, Blue (Alyogyne huegelli) (Hibiscus rosa-sinensis) , Chinese Holly, Dwarf Burford (var. Burfordii Nana)(Ilex comuta) Honeysuckle, Bush (Dierville Ionicera) 'Cape (Tecomaria capensis) Hydrangea (Hydrangea macrophylla) Jasmine, Asiatic (Trachelopsermum asiaticum) (Murraya paniculata) ,Orange .Star (Trachelospermum jasminoides) .Winter (Jasmine nudiflorum) Jessamine, Carolina (Gelsemium sempervirens) Joioba (Simmondsia chinensis) (var. Maneyi, Old Gold, Phtzerana, Juniper, Chinese Sea Green, Hekii, Nana, Torulosa, Phtzerana (Aurea, PfiL-er, Golden PfiLer) (Juniperus chinensis) (var- Bluechip, Hughes, Plumosa, ,Creeping PrInce of Wales, Webbeti, Wiltonii, Bar Harbor, Andorra, Variegata, Youngstown Blue Rug). (Juniperus horizontalis) .Ozark (Juniperus sp) ,Rocky Mountain (var. Blue Heaven, Welchii, Wichita Blue, Medova, Moffet, Pyramidal Green, Springtime, Admiral) (Juniperus scopulorum) Juniper, Savin (var.- Skandia, Arcadia, Broadmoor, Buffalo, Pepin) (Juniperus sabina) (var. Compacta)(Juniperus conferta) .Shore ,Tam (var. Tamariscifolla)(Junlperus sabina) Lantana, Purple Trailing (Lantana montevidensis) Laurustinus (Viburnum tinus) Lemonade Berry (Rhus integrifolia) Lilac, Common Purple (Syringa vulgaris purpura) Liriope, Green (Liriope muscari) , Variegated (Liriope muscari) Mickey Mouse Bush (Ochna serrulata) Mirror Plant (Coprosma repens) Mock Orange (Pittosporum tobira) Mountain Lilac, Carmel Creeper (Ceanothus griseus) Myrtle, Dwarf (Myrtus communis compacta) Nandina, Heavenly Bamboo (Nandina domestics) Nannyberry (Viburnum lantago)

(Escallonia fradesii)(Escallonia rubia)

(var. Golden, Silver King)

Escallonia

Euonymus, Evergreen

Ninebark (Physocarpus opulifolius)(var Aureus) (Physocarpus opulifolius nanus) Oleander (Nerium oleander) Orchid, rockrose (Cistus purpureus) (Mahonia aquifolium) Oregon Grape Osmanthus, Holly-leaf (Osmanthus heterophuyllus) . Sweet Olive (Osmanthus fragrans) Palm, Natal (var. Green Carpet Tuttle) (Carissa grandiflora) Pampas Grass (Cortederia selloana) Photinia (Photinia sp) , Fraser (Photinia fraser) Pink Lady (Pahioleis indica) Pink Powder Puff (Calliandra haematocephala) Pittosporum, Variegated Japanese (Pittosporum tobira variegate) Plumbago, Cape (Plumbago capensis) (Podocarpus macrophyllus) Podocarpus. Yew (Tibouchina urvilleana) Princess Flower Privet (Ligustrum indica) (var.- Lake Tresca)(Ligustrum lucidum) .Glossv ,Japanese, Waxleaf (Ligustrum japonicum) .Texas (Ligustrum texanum) Purple Hop Bush (Dodonaea viscosa) Pyracantha (Pyracantha graberi) (var. Hinocrimson, Hershey Red, Coral Blue, Hinodigiri, Rhododendron - Azalea Christmas Cheer, Pink Ruffle, Formosa Flame, Delaware Valley White, New White) (Rhododendron sp) Sandcherry, Purpleleaf (Prunus cistena) Serviceberry, Allegheny (Amelanchier laevis) , Saskatoon (var. Regent)(Amelanchieralnifolia) Silver Kina (Euonymus iaponica) Sky Flower, Brazilian (Duranta stenostachya) Snowball Bush (Viburnum opulus sterilis) Spindle Tree (Euonymus kiautschovica) Spiraea (Spiraea vanhouteii) (var: Anthony Waterer, Froebellii, Goldflame) (Spiraea bumalda) (Spiraea trilobataiovica) (var Snowbound) (Spiraea nipponicaiovica) Star Plant, Lavender (Grewia occidentalis) Tea Tree, Australian (Leptospermum laevigatum) (var.PL-dGlow) .New Zealand (Leptospermum scoparium) Texas Ranger (Leucophyllum frutescens) Toyon, California Holly (Hetermeles arbutifolia) Trumpet Vine, Pink (Pandorea rosea) Veronica (Hebe'Coed) Viburnum, Japanese (Viburnum japonicum) (Viburnum suspensum) ,Sandankwa (Viburnum lantanoides) Wayfaring Tree Weeping Fig, Exotica (Ficus benjamina) Wheelers Dwarf, Variegated (var.- Wheller) (Pittosporum tobira) Yellow Bells (Tecoma stans) Yesterday-Today-and-Tomorrow... (Brunfe/sia calycina) Yew (Taxus cuspitata vigatum)

Ornamentals and Bedding plants tolerant to Vantage herbicide

Allysum (Alyssum sp.)

Asparagus, Myers (var. Meyeri)(Asparagus densiflorus)

> (var Sprengeri) ,Spenger

(Asparagus densiflorus)

Aster. New York (Aster novi-belgii)

. Stokes (var: Blue, White)(Stokesia cyanae)

Baby's Breath (var: Bristo Fairy)

Begonia

(Gvpsophila paniculata) (Begonia semperflorens) Bellflower, Tussock (var: Canterbury Bells)

(Campanula carpatica) Bittersweet, American (Calastrus scandens)

Black-eyed Susan (var:Goldilocks)(Pudbeckia hirta)

Bleeding Heart (Dicentra spectabilis) **Butterfly Weed** (Asclepias tuberosa) (Pandorea jasminoides) Bower Vine Cactus, Barrel (Echinocactus sp.)

Candytuft (/beris sempervirens)(lberis amara)

Canna (Canna sp)

Cassia, Feathery (Cassia artemisioides) Chrysanthemum, Marguarite (Chrysanthemum frutescens) (Chrysanthemum indicum)

Cockscomb (Celosia argentea)(Canna) Coleus (Coleus blumei)

Coneflower, Purple (var: Gloriosa Dairy) (Echinacea purpurea) Coralbells (Heuchera sanguinea)

(var: Sunray)(Coreopsis lanceolata) Coreopsis

Cup of Gold Vine (Solandra maxima) Daffodil (Narcissus spp.) Dahlia (Dahlia pinnata) Daisy Bush (Euryops pectinatus) (Felicia amellioides) , Blue

Daisy, Shasta (var: Alaska(Chrysanthemum maximum)

Daylily (Hemerocallis hybrids) Dianthus (Dianthus deltoides) Dragonhead, False (Physostegia virginiana) **Dusty Miller** (Centaurea cineraria)

Fern, Sprenger Asparagus (Asparagus densiflorus Sprengeril)

Fescue, Blue (Festuca ovina) Flowering tobacco (Nicotiana sp.) Fountain Grass, Red (Pennisetum setaceum)

Gazania (Gazania ringens leucolaena)(Gazania sp.)

Geranium (Geranium sp.)

,Martha Washington (Pelargonium domesticum)

Gerbera Daisy (Gerbera jamesonii)

Geum (var: Lady Strathedon, Mrs. Bradshaw,

Mrs. Bradshaw Improved)

(Geum quellyon) Gladiolus (Gladiolus sp.) Heather, False (Cuphea hyssopifolia) Honeysuckle, Amar (Lonicera maachii) (var: Emerald Mound, Clavey's Dwarf) ,Fly (Lonicera xylosteum) (Lonicera japonica) ,Japanese .Morrow (Lonicera morrowii) ,Tatarian (var.- Zabeli)(Lonicera tatarica) Hopseed Bush, Purple (var Purpurea)(Dodonal@ viscosa) **Impatiens** (Impatiens sp) (Iris sp.) Iris , African (Dietes bicolor) Ivy, Grape (var.- Ellen Danica)(Cissus rhombifolia) Jack-in-the-Pulpit (Arisaemia pusillum) Mrs. Bradshaw Improved)) Jade Plant (Crassula argentea) Jasmine, Madagascar (Stephanotis floribunda) Lamb's Ear (Stachys lanata) (Lavandula vera) Lavender, English ,French (Lavandula dentata) ,Cotton (Santolina chamaecyparisus) Lilac, Chinese (Syringa chinensis) , Common Purple. (var.- Charles Joly, Ludwig Spaeth, Jay Tree) (Syringa vulgaris purpurpa) ,Meyer (var.- Palibin)(Syringa sp.) (var., Miss Kim)(Syringa patula) ,Korean (Ceanothus griseus) Lilac, Mountain Lilv-of-the-Nile. Peter Pan (Agapanthus afticanus) Lily-of-the-Valley (Convallaria majalis) Lobelia (Lobelia erinus) Marigold (Tagetes sp.) Mirror Plant (Coprosma baureri) , Vahegated (Coprosma repens) Moneywort, Creeping Jenny (Lysimachia nummalaria) (Portulaca grandiflora) Moss, Rose , Sandwort (Arenaria Verna) Pansy, Johnny-Jump-Up (Viola tricolor) Pepper, Ornamental (Capsicum sp.) Periwinkle, Madagascar (Catharanthus roseus) (Vinca minor) Petunia (Petunia sp.) Phlox, Perennial (Phlox paniculata) Plantain Lily (Hosta sp) Purple Loosestrife (var.- Morden's Glpam) (Lythrumvirgatum) (Bougianvillea sp.) Raspberry Ice Sage (Salvia griwgii) Sea Pinks, Thrift (Armeria maritima) Sedum, Stonecrop (Sedum x rubrotinctum) (Lavender cofton) Shrimp Plant (Justicia brandegeana) Sky Flower, Brazilian (Duranta stenostachya) Snail Vine (Vigna cararcalla) Snapdragon (Antirrhinum majus) Speedwell, Spike (Veronica spicata) Statice. Perennial (Limonium perazil) (Mattiola incana) Stock Sweet Grass (Acorus gramineus) Sweet William (Dianthus barbatus) Transvaal Daisy (Gerbera jamesonii)

Trumpet Vine, Blood red (Distictis buccinatoria) .Lavender (Clytostoma callIstegioides) , Pink (Pandorea rosea) Tulip (Tulipa spp) (Verbena sp) Verbena Wandering Jew (Trade scantia sp.) (Wisteria sinensis) Wisteria Yarrow (var: Cerise Queen) (Achillea Millefolium) (Achillea tavaetea v.) . Debutante Yellow Trumpet (Macfadyena unguis-cati) Zinnia (Zinnia elegans) Ground covers tolerant to Vantage herbicide Aaron's Beard (Hypericum calycinum) Aptenia (var: Red Apple) (Aptenia cordifolia) Bergenia, Winter-blooming (Bergenia crassofolia) Bugleweed (Ajuga reptans) Capeweed (Arctotheca calendula) Carpathian, Harebell (Campanula carpatica) (Potentilla tabernaemontanil) Cinquefoil, Spring Coyote brush (var. Twin Peaks) (Baccharis pilularis) Crownvetch (Coronilla varia) Cushion Bush (Calocephalus brownii) Daisy, Trailing African, Freeway (Osteospermum) (Osteospermum fruticosum alba) Daisy, White African Gazania, Trailing (Gazania regens leucolaena) (Herniaria glabra) Green Carpet (Hedera canaiensis) Ivy, Algerian Ivy, Boston (Parthenocissus tricuspidata) Ivy, English (Hedera helix) (var. California) (var Ellen Danica) (Cissus rhombifolia) Ivv. Grape Ivy, Hahn's (var.- Hahnii) (Hedera helix) Lantana, Lavender (Lantana montevidensis) Lily-turf, Big Blue (Liriope muscari) (Phyla nodifiora) Lippla Mondo Grass (Ophiopogon japonicus) (var. Prostratum) (Myoporum parvifolium) Mvoporum Pachysandra (Pachysandra terminalis) Periwinkle (Vinca major) Plumbago, Dwarf (Ceratostigna plumbaginoides) Pork and Beans (Sedum rubrotinctum) (Drosanthernum floribundum) Rosea Ice Plant Rosemary, Dwarf (var. Prostratus)(Rosmarinus officinalis) Rupture Wort (Herniaria glabra) (Hypericum calycinum) St. Johnswort, Creeping Stonecrop, Sedum (Sedum rubrotinctum) Verbena (Verbena officinalis) Verbena, Blue (Verbena peruvianna) Wildflowers tolerant to Vantage African daisy Dimorphotheca aurantiaca

African daisy
Baby blue eyes
Remophila insignis
Baby snapdragon
Baby's breath
Bachelor button
Bird's eyes
Black eyed Susan

Dimorphotheca aurantiaca
Nemophila insignis
Linaria macrocanna
Gypsophila muralis
Centaurea cyanus
Gilia tricolor
Rudbeckia hirta

Blanketflower
Blue Fescue
Blue flax
Butterflyweed
Calendula
California poppy
Calliopsis
Candytuft

Carnation Catchfly Chicory

Chinese houses Columbine Corn poppy Cornflower Cosmos Creeping daisy

Creeping daisy
Dames rocket
Drummond phlox
Dwarf primrose
Firewheel

Five spot cornflower

Foxglove Godetia

Grayhead coneflower

Hard fescue Indian blanket Indian paintbrush Jewels of Opar Johnny-jump-up

Lance-leaved coreopsis

Lemon mint Liatris Lupine

Moss verbena New England aster Nodding catchfly pink

Oxeye daisy Painted daisy Perennial lupine Plains coreopsis

Poor man's weather glass

Prairie aster
Purple coneflower
Purpleknot toadflax
Queen Anne's lace
Red ribbons

Rocket larkspur

Sainfoin

Sand bluebonnet
Scarlet flax
Showy primrose
Siberian wallflower
Spurred snapdragon

Stock

Sulfur cosmos Sweet alyssum Gaillardia aristata Festuca ovina glauca

Linum lewisii

Ascelpias tuberosa
Calendula officinalis
Eschscholzia califomica
Coreopsis tinctoria
Iberis sempervirens

Dianthus
Silene armeria
Chicory intybus

Collensia heterophylla

Aquilegia spp.
Papaver rhoeas
Centaurea cyanus
Cosmos bipinnatus

Hesperis matronalis Phlox drummondii Oenothera sp. Gaillardia pulchella Centaurea sp. Digitialis purpurea Clarkia amoena Echinacea pallida Festuca longifolium Gaillardia pulchella Castilleja coccinea Talinum paniculatum

Viola pedata

Coreopsis lanceolata Monarda citriodora Liatris spicata Lupinus spp. Verbena tenuisecta Aster novi-anglae

Silene sp.

Chrysanthemum leucanthemum Chrysanthemum carinatum

Lupinus perennis Coreopsis tinctoria

Machaeranthera tanacetifolia

Echinacea purpurea

Linaria sp.
Daucus carota
Clarkia concinna
Delphinum ajacis
Conobrychis vicifolia
Lupinus subcamosus

Linum rubrum

Oenothera speciosa
Cheiranthus spp.
Linaria macrocanna
Matthiola maritima
Cosmos sulfurous
Lobularia maritima

Sweet William

Texas bluebonnet

Lupinus texensis

Tickseed

Coreopsis lanceolate

Tidy tips

Layia platyglossa

Virginian stock

Wallflower

Wallflower

White yarrow

Dianthus barbatus

Lupinus texensis

Coreopsis lanceolate

Layia platyglossa

Malcolmia maritima

Cheiranthus allionii

Achillea millefolium

In limited testing with the following plants, some unacceptable phytotoxicity has been found, though usually occurring at application rates above those recommended on the product label.

Trees

Red Oak Quercus rubra
White Oak Quercus alba

Shrubs

Azalea (var Snow)

Potentilla
(var Jackmanni, K. VanDyke)

Privet, Japanese

Rhododendron sp
Potentilla frutlcosa
Potentilla Verna
Ligustrum japonica

Ornamental

Snow-in-summer Cerastium tomentosum

Nonbearing Food Crops and Nursery Liners Tolerant to Vantage herbicide

Almonds Olives
Apples Oranges
Apricots Peaches

Asparagus Peanuts, Perennial*

Avocados Pears
Blackberries Pecans
Blueberries Pistachios
Cherries Plums

Crabapples Pomegranates
Cranberries Prunes
Dates Raspberries
Figs Tangelos
Grapes Tangerines
Grapefruits Walnuts

Lemons Limes Macadamias Nectarines

Do not apply to nonbearing food crops within 1 year of harvest.

Weeds listed in this label

Common Name	Scientific Name
Bahiagrass	Paspalum notatum
Barnyardgrass	Echinochloa crus-gaffi
(Watergrass)	
Bentgrass,	Agrostic tenuis
(Highland/Colonial)	
Bermudagrass	Cynodon dactylon
(Wiregrass)	_
Bluegrass, Annual	Poa annua
Broadleaf Signalgrass	Brachiaria platyphylla
Brome, Downy	Bormus tectorum
Centipede Grass	Eremochloa ophiuroides
Crabgrass, Large	Digitaria sanguinalis
, Smooth	Digitaria ischaemum
Cupgrass, Woolly	Eriochloa villosa
Fescue, Fine	Festuca sp.
Chewings	Festuca rubra
Creeping Red	Festuca rubra
Hard	Festuca longifolia
Rattail	Festuca myuros
Sheep	Festuca ovina
Tall	Festuca arundinacea
Foxtail, Giant	Setaria faberi
(Pigeongrass)	
Green	Setaria viridis
Yellow	Setaria glauca
Goosegrass	Eleusine indica
Johnsongrass	Sorghum halepense
Junglerice	Echinochloa colonum
Lovegrass	Eragrostis cilianensis
Orchardgrass	Dactylls glomerata
Panicum, Browntop	Panicum fasciculatu
, Fall	Panicum dichotomiflorum
,Texas	Panicum texanum
Quackgrass	Agropyron repens
Red Sprangletop	Leptochloa filiformis
Ryegrass, Annual	Lolium multiflorum
Sandbur, Field	Cenchrus incertus
Shattercane/Wildcane	Sorghum bicolor
Torpedograss	Panicum repens
Velvetgrass, German	Holcus mollis
Volunteer Barley	Hordeum vulgare
Oats	Avena saliva
Rye	Secale Cerea/e
Wheat	Triticum aestivum
Wild Oats	Avena fatua
Wild Proso Millet	Panicum miliaceum
Wirestern Muhly	Muhlenbergia frondosa
Witchgrass	Panicum caviare

Sites:

This product can be used on the following sites:

Airports Pipeline pumping stations

Bedding plants

Centipedegrass and fine fescue turf

Potting and top soils

Public buildings

Drug and medicinal crops

Electrical transformer stations

Fences and hedgerows

Recreation areas

Rights-of-ways

Roadsides

Fine fescue seed production Sewage disposal areas

General indoor/outdoor sites Shrubs

Ground covers Storage yards

Industrial sites Trees, Christmas trees
Other paved areas Uncultivated agricultural areas

Perennial peanuts (nonfood) Wildflowers

Look inside for complete Restrictions and Limitations and Application Instructions.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of Micro Flo Company ("MICRO FLO") or the Seller. All such risks shall be assumed by the Buyer. MICRO FLO warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. MICRO FLO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANT-ABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. MICRO FLO and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of Micro Flo Company.

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