

007969-00088-021999

Printed: 15:02:45 Tuesday, 25 May, 1999 # 23 / 3095

Systems Integration Group, Inc.

PM 25

"NOTIFICATION" 7969-88 2/19/99 P7/29

Please read instructions on reverse before completing form.	Form Approved, OMB No. 2070-0060.
United States Environmental Protecti Washington, DC 20	ion Agency Amendment
Applicati	ion for Pesticide - Section I
1. Company/Product Number 7969 - 88	2. EPA Product Manager JAMES TOMPKINS 3. Proposed Classification
4. Company/Product (Name) VANTAGE (C) HERBIC	None Restricted
5. Name and Address of Applicant (Include ZIP Code) IBASE CORPORATION AGRICULTURAL PRODUCTS P. O. IBOX 13528 IZESEATZCH TIZIANGLE PARK, NO Check if this is a new address 27769-3	
	Section - II
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.	Final printed labels in response to Agency letter dated "Me Too" Application. Other - Explain below.
Explanation: Use additional page(s) if pagescary. (For each	ion I and Section II.) The first world the in going we Cotty. Jan
ELIMINATION OF REDUNDANT T	TEXT ON PP 12-24. COMMON & SCIENTIFIC E. ELIMINATION OF ONE SET OF THESE MORE IZEASOWABLE LENGTH PACKAGE LABEL.
	Section - III
1. Material This Product Will Be Packaged In:	
Child-Resistant Packaging Yes* Yes	Water Soluble Packaging 2. Type of Container Yes Metal Plastic
* Certification must be submitted No. per Unit Packaging wgt. No. per container	If "Yes" No. per Package wgt container Other (Specify)
3. Location of Net Contents Information 4. Size(s) Re Label Container	Retail Container 5. Location of Label Directions On Label On Lebeling accompanying product
6. Manner in Which Label is Affixed to Product Litho Pape Sten	ograph Other
	Section - IV
1. Contact Point (Complete items directly below for identificat	tion of individual to be contacted, if necessary, to process this application.)
Name DOLE P. CARLSON	Title IZEGISTRATION SEIENTIST (GG) 547-283)
Certific I certify that the statements I have made on this form an I acknowledge that any knowingly false or misleading sta both under applicable law.	nd all attachments thereto are true, accurate and complete. Received
2. Signature Culson	3. Title Registration Scientist
4. Typed Name Dale R. Carlson	5. Date 2/12/99



HIGHLIGHTED CHANGES

12-24



Postemergence Grass Herbicide

Active Ingredient:

*Equivalent to 1 pound of sethoxydim per gallon

EPA Reg. No. 7969-88

EPA Est, No. 34313-TX-01

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Statement of Practical Treatment

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.

NOTIFICATION

FEB 1 9 1999

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the **Directions For Use** for information about this standard.



Net contents: 1 pint

BASE Corporation P.O. Box 13528, Research Triangle Park, NC, 27709

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Precautionary Statements HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

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

Personal Protective Equipment: Some materials that are chemicalresistant 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
 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. For any requirements specific to your state or tribe, consult the

your state or tribe, consult the agency responsible for pesticide regulation.

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 restrictedentry 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.

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.

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 ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 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 wastes are toxic. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

In Case of Emergency

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

CHEMTREC 800-424-9300

BASE Corporation 800-832-HELP

In case of medical emergency regarding this product, call:

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

Vantage^a herbicide is a selective broad spectrum postemergence herbicide used to control annual and perennial grassy weeds in turf, ornamentals, nonfood, and noncrop sites listed on this label. Vantage does not control sedges (annual or perennial), annual bluegrass, or broadleaf weeds. Because many grasses such as sorghum, corn, small grains, and rice as well as many other ornamental turf grasses (except fine fescue and centipedegrass) are susceptible to Vantage, avoid all direct or incirect contact with any desirable grass species. Avoid any spray drift,

Vantage® herbicide may be used in or around the following sites. Consult the appropriate section of this label for Directions For Use and Restriction and Limitations before using this product.

Centipedegrass and fine fescue turf Fine fescue seed production Bedding plants Drug and medicinal crops Fences and hedgerows Public buildings Recreation areas Storage yards Electrical transformer stations Sewage disposal areas Uncultivated agricultural areas Perennial peanuts (nonfood) Trees, Christmas trees Shrubs Ground covers Rights-of-ways Roadsides Other paved areas Industrial sites Airports Pipeline pumping stations Potting and top soils General indoor/outdoor sites Wildflowers

Control Symptoms

Vantage rapidly enters grass plants through the foliage and translocates throughout the plant. Control symptoms exhibited by the grass plant progress from a slowing or stopping of growth (generally within 2 days), to reddening of the foliage and to leaf tip burn. Subsequently, foliage burnback occurs. This will generally be observed within 3 weeks depending on environmental conditions.

Notice to User

Due to variability within species and in application techniques, 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 plantings, wildflowers, Christmas trees, turf and other nonfood 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 on a nonlabeled species or variety under the conditions expected to be encountered on a small test area. Any adverse effects should be visible within 7 days.

Application Information

Apply Vantage to actively growing grasses at the proper growth stage as specified in this labeling. In irrigated areas, it may be necessary to irrigate before treating with Vantage to ensure active weed growth. Grass weeds that have

Vantage to ensure active weed growth. Grass weeds that have been mowed or have regrown from mowed stubble may be controlled poorly. Repeat application if new germination or regrowth occurs.

Ground equipment: Thorough spray coverage of grass foliage is essential. For broadcast application. use standard high-pressure pesticide hollow cone or flat fan nozzles. Do not use flood or whirl chamber nozzles. Do not apply Vantage with control drop applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Use 5-50 gallons of spray solution per acre (1-10 pints per 1,000 square feet). Adjust pressure to 30-60 psi at the nozzle. Always adjust spray pressure, spray volume, and height of spray boom to ensure thorough coverage of target grass-

Air equipment: Thorough spray coverage of grass foliage is essential. Use a minimum of 5 gallons of water per acre. Increase water volume to 10 gallons per acre if grass foliage is dense or a heavy plant canopy exists.

Mixing

Fill the tank of a thoroughly clean sprayer one-half to two-thirds full with clean water. Start agitation, add **Vantage** and the remaining volume of water. Maintain constant agitation during application.

Cultivation Information
If cultivation is an option

If cultivation is an option, do not cultivate within 5 days before or 7 days after applying **Vantage**. A timely cultivation 14-21 days after application may help control perennial grasses.

General Restrictions and Limitations

Do not apply if rainfall is expected within 1 hour after application as grass control will probably be unsatisfactory.

Do not apply **Vantage** through any type of irrigation system.

Do not apply to grass weeds under stress, such as stress due to lack of moisture, excess moisture, mechanical injury, herbicide injury, diseases or cold temperatures, as unsatisfactory grass control may result.

Do not apply **Vantage** to desirable plants that have been subject to stress conditions such as hail damage, flooding, drought, injury from other herbicides or widely fluctuating temperatures, as injury may result.

Do not use treated vegetation as pasture, hay, feed, or forage.

General Tank Mix Recommendations

Vantage may be tank mixed with any registered herbicide for the use intended with each product.

All Directions For Use and Restrictions and Limitations of the respective product must be understood and adhered to. If the respective label recommends that additives, surfactants, or oil concentrates NOT be used, do not tank mix with Vantage.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Vantage** with pesticides (fungicides, herbicides, insecticides, or miticides), additives or fertilizers. BASF does not recommend using **Vantage** tank mixes other than those listed on BASF labeling.

Local horticultural authorities may be a source of information when using combinations other than those recommended by BASF. Otherwise, test a small area of the desired site with the desired tank mix combination and allow 7-10 days to evaluate potential injury.

Using Vantage® herbicide on centipedegrass and fine fescue in turf, lawns, and rights-of-way

Directions For Use

Vantage may be used in seedling (first year) and established centipedegrass (Eremochloa ophiuroides) and fine fescues which include creeping red fescue and chewings fescue (Festuca rubra), sheep fescue (Festuca ovina) and hard fescue (Festuca longifolia). Vantage doès not control yellow and purple nutsedge (nutgrass). annual bluegrass, or broadleaf weeds.

Timing of Application Apply Vantage to actively growing grassy weeds as specified in the **Recommendations for Grass** Control. Apply Vantage no earlier than 3 weeks after spring green-up of centipedegrass turf. Apply Vantage before annual grasses become extensively tillered. Delay all treatment with Vantage until newly planted centipedegrass has 3 inches of new stolon growth.

Mowing

Adequate coverage of the leaf surface is necessary for absorption of this herbicide. Therefore, 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.

Restrictions and Limitations Read and abide by all General Restrictions and Limitations listed on page 4.

On seedling centipedegrass, do not apply more than 1.5 pints of Vantage per acre, per application or a total of 3 pints per acre, per

On established centipedegrass, do not apply more than 2.25 pints of Vantage per acre, per application or more than a total of 4.5 pints per acre, per season.

Do not use on tall fescue (Festuca arundinacea) as injury may occur. Do not apply Vantage to any desirable turigrass other than centipedegrass and fine fescue varieties classified as creeping red, chewings, sheep or hard fescue because other turf species may be seriously injured.

Table 1. Recommendations for Annual Grass Control in Seedling Centipedegrass and Fine Fescue

	Time a 46	Va	ntage
Grass	Time of Application**	Rate Per Acre	Rate Per 1,000 sq. ft.
Crabgrass, Large , Smooth Goosegrass	Up to 4"	1.5 pints	0.5 fluid ounces*

Table 2. Recommendations for Annual Grass Control in Established Centipedegrass and Fine Fescue

Rate	
Per Acre	Rate Per 1,000 sq. ft.
2.25 pints	0.75 fluid ounces*

Table 3. Recommendations for Perennial Grass Control in Seedling Centipedegrass and Fine Fescue

· · · · · · · · · · · · · · · · · · ·	T: 5	V	antage
Grass	Time of Application	Rate Per Acre	Rate Per 1,000 sq. ft.
Bahiagrass* First Application	Up to 4"	2.25 pints	0.75 fluid ounces**
Second Application	When regrowth is less than 4" generally 10-14 days later.	2,25 pints	0.75 fluid ounces**

Do not mow within 7 days before application or within 14 days after application for best control.

1 tablespoon = 0.5 fluid ounces



If the grass weeds have been mowed numerous times and are extensively tillered, control may be reduced.

Bahiagrass Control and Seedhead Suppression in Established Centipedegrass

Established bahiagrass is very difficult to control because of its extensive rhizome system. One application of **Vantage® herbicide** will burn down the bahiagrass, but many plants will regrow. However, this regrowth is weak and seedheads will generally be suppressed for 40 days after the first application.

A second application of **Vantage** will be necessary for bahiagrass control. Under optimum growing conditions, this second application should be made as soon as 10-14 days after the first application. The second application should be made when the bahiagrass regrowth is young and actively growing and before it has reached a height of 4 inches.

Depending upon environmental conditions and cultural practices, season-long control may not always be obtained. However, competition of the bahiagrass with the centipedegrass turf will be reduced. In addition, any remaining bahiagrass will be less noticeable because of the long-term seedhead suppression provided by the second application of **Vantage**.

Using Vantage + Basagran* T/O Herbicide Tank Mix in Established Turf, Lawns, and Rights-of-way

(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.
Applied as directed, this tank mix
will control susceptible weeds listed
on each label.

Read each product label for directions, restrictions, and limitations before using. The most restrictive labeling applies to all tank mixes.

Timing and Application Information

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. Tank mix 2.25 pints of **Vantage** with 2-4 pints of **Basagran T/O** according to the directions on the **Basagran T/O** label.

The use of oil concentrate in this tank mix is not recommended.

Using Vantage® Herbicide in Fine Fescue (creeping red, chewings, hard and sheep) **Grown for Turf Seed** (Not for use in California)

Directions For Use Vantage may be used to control annual and perennial grass weeds in fine fescue. To control annual ryegrass, downy brome, German velvetgrass, and Colonial and Highland bentgrasses in the Pacific Northwest, apply Vantage when the fine fescue is semi-dormant, which is generally from November 1 through March 15 (see **Application** Rate Table for Pacific Northwest only).

Applying Vantage at other times of the year will generally result in reduced control of these problem

grass weeds. For grass control in other Northern climates, see Application Rate **Table for Annual Grass Control** or Application Rate Table for Perennial Grass Control.

Because most grass crops such as sorghum, corn, small grains, and rice, as well as many ornamental turf grasses (except the fine fescues and centipedegrass), are extremely susceptible to Vantage, avoid all direct or indirect contact with any desired grass plant. However, Vantage does not control annual bluegrass or rattail fescue.

Restrictions and Limitations Read and abide by all General Restrictions and Limitations listed on page 4. Do not apply Vantage to tall fescue because injury may occur.

Grass Species	Application Time (Weed Size)	Vantage* (Rate per Acre
Annual Grasses Annual Ryegrass (Lolium multiflorum)	4-8"	2.25 pints
Downy Brome (Bromus tectorum) Also called cheatgrass	2-6"	3.75 pints
Perennial Grasses German Velvetgrass (Holcus mollis)	2-4"	3-3.75 pints
Colonial and Highland Bentgrasses (Agrostis tenuis)	2-4"	2.25-3.75 pints

The higher rate of **Vantage** is recommended for use on well-established grass weeds

If regrowth occurs or new plants emerge, make a second application at the same rate and time.

Table 5. Application Rate Table for Annual Grass Control (Other than Pacific Northwest)

C Ci	Vantage App	olication Rate
Grass Species	Grass up to 6" height	Grass up to 12" height
Barnyardgrass Broadleaf Signalgrass Crabgrass, Large , Smooth Foxtails, Giant , Green , Yellow Goosegrass Johnsongrass, Seedling Junglerice Lovegrass Orchardgrass Seedling Panicum, Browntop , Fall , Texas Ryegrass, Annual Sandbur, Field Shattercane/Wildcane Sprangletop, Red* Tall Fescue, Seedling Volunteer, Barley , Oats , Rye , Wheat Wild Oats Wild Proso Millet Witchgrass Woolly Cupgrass	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
* Not recommended in CA,	AZ, or Western NM.	

Table 6. Application Rate Table for Perennial Grass Control (Other than Pacific Northwest)

	Application Time	Van	tage .
	(Weed Size)	Rate per acre	Rule per 1,000 square feet
Bermudagrass	Up to 6" runners		
Johnsongrass, Rhizome	15-20" height	3.75 pints	1.4 fluid ounces
Quackgrass	6-8" height		
Wirestern Muhly	Up to 6" height	2.25 pints	0.8 fiuid punces

Using Vantage* Herbicide in Nonbearing Food Crops, Ornamental and Nursery Plantings, Rights-of-way, Nonfood Crop Areas, Noncrop Areas and Fallow Land

Directions For Use

Postemergence applications of Vantage may be made 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-of-way, fallow land, noncrop areas and nonfood crop areas such as airports, industrial sites, roadsides, storage yards, and other areas listed on page 4. Apply to actively growing grasses at the sizes indicated in the tables for **Annual Grass Control with**

Annual Grass Control with Vantage and Perennial Grass Control with Vantage.

In irrigated areas, it may be necessary to irrigate before treating with **Vantage** to ensure active weed growth.

Do not mow within 20 days before or 7 days after application. Grasses that have been mowed or have regrown from mowed stubble may be controlled poorly.

Repeat application if new germination or regrowth occurs.

Restrictions and Limitations Read and abide by all General Restrictions and Limitations listed on page 4.

Table 7. Annual Grass Control with Vantage

	Vantag	ge Rate
Grass	Grass up to 6" height	Grass up to 12" height
Barnyardgrass Broadleaf Signalgrass Crabgrass, Large Smooth Foxtails, Giant Green , Yellow Goosegrass Johnsongrass, Seedling Junglerice Lovegrass Orchardgrass Seedling Panicum, Browntop Fall Texas Red Sprangletop Sandbur Field Shattercane/Wildcane Tall Fescue, Seedling Volunteer, Barley , Oats , Rye , Wheat Wild Oats Wild Proso Millet Witchgrass Woolly Cupgrass	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
* Not recommended in CA.	, AZ, or Western NM.	_

Table 8. Perennial Grass Control with Vantage

	Maximum Size	Va	ntage
Grass	Range	Rate per acre	Rate per 1,000 square feet
Bermudagrass	Up to 6" runners		
Johnsongrass, Rhizome	15-20" height	3.75 pints	1.4 fluid ounces
Quackgrass	6-8" height	,	
Wirestem Muhły	Up to 6" height	2.25 pints	0.8 fluid ounces

Spot Treatment Application with Vantage* herbicide
To control grasses when using

To control grasses when using knapsack sprayers, equipment with hand guns, or other suitable nozzle arrangements, prepare a solution of **Vantage** in water according to **Tables 9-11**.

Apply to actively growing grasses at the sizes indicated below. Apply to the foliage of grasses on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to the point of runoff.

Table 9. Spot Treatment Application Table Annual Grass Control with Vantage

Grass		ncentration Solution
	Grass Up to 6" Height	Grass Up to 12" Height
See annual grasses listed on page 8.	1.5%	2.25%

Table 10. Perennial Grass Control with Vantage

Grass	Maximum Size Range	Vantage Concentration in Spray Solution*
Bermudagrass	Up to 6" runners	2.25%
Johnsongrass, Rhizome	15-20" height	2.25%
Quackgrass	6-8" height	2.25%
Wirestern Muhly	Up to 6" height	1.5%

Table 11. Solution Table for Spot Treatments

Desired Spray Solution Volume	Amount of Vantage to be Added for Solution	
	1.5%	2.25%
1 gallon	2 fluid ounces	3 fluid ounces
3 gallons	5.75 fluid ounces	8.75 fluid ounces
5 gallons	8.75 fluid ounces	14.5 fluid ounces

Using Vantage in Christmas Trees and Deciduous Tree Farms Vantage may be used to control annual and perennial grasses in Christmas and deciduous tree farms. Consult Table 12 or the **Appendix** for tolerant species for postemergence application. Apply as a directed spray to species not listed, while avoiding direct or indirect application to the foliage. To control grasses, consult the tables Annual Grass Control with Vantage and Perennial Grass Control with Vantage. If a Christmas tree or deciduous tree is not listed in Table 12 or 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 12. Christmas Trees

Common Name	Scientific Name
Fir, Balsam	Abies balsamea
, Douglas	Pseudotsuga mensiesii
, Frasier	Abies fraseri
, Grand	Abies grandis
, Noble	Abies procera (A. nobilis)
, Nordmann	Abies nordmanniana
, Red	Abies magnifica
, Shasta	Abies magnifica
, Turkish	-
, White	Abies concolor
Hemlock, Canada	Tsuga canadensis
Pine, Austrian	Pinūs nigra ,
, Lodgepole	Pinus contorta latifolia
, Monterey	Pinus radiata
, Ponderosa	Pinus ponderosa 💢 🔧 🕆
, Scotch	Pinus sylvestris
, Southern (Longleaf)	Pinus palustris
, Virginia	Pinus virginiana
, White	Pinus strobus
Spruce, Black Hills	Picea giauca
, Colorado Blue	Picea pungans
, Norway	Picea abies
, White	Picea glauca

Read and abide by all General Restrictions and Limitations listed on page 4.

Using Vantage + Basagran® T/O Tank Mix in Ornamental Sites A tank mix of Vantage + Basagran T/O may be applied as a directed spray to control yellow nutsedge, grass, and broadleaf weeds in nonbearing 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 label 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 label for this listing. Read each product label for direc-

Read each product label for directions, and **Restrictions and Limitations** before using. The most restrictive labeling applies in all tank mixes.

Using Vantage + Surflan^{*} A.S. Herbicide Tank Mix In Ornamental Sites

A tank mix of Vantage + Surflan A.S. may be applied to control weeds in ornamental sites including trees, shrubs and groundcovers. Applied as directed, this tank mix will control susceptible weeds listed on each label.

Read each product label for directions, restrictions and limitations prior to use. The most restrictive labeling applies in all tank mixes.

Vantage* + Goal* 1.6E Herbicide Tank Mix for Broad Spectrum Grass and Broadleaf Weed Control

(Not for use in California)
Tank mix **Vantage + Goal 1.6E** to control a broad spectrum of grass and broadleaf weeds in conifers and Christmas trees. Consult the **Goal 1.6E** label for the list of broadleaf weeds controlled. This tank mix may be used only on the species listed in **Table 13**.

Vantage and Goal 1.6E Rates
A maximum of 60 fluid ounces of
Vantage per acre may be tank
mixed with Goal 1.6E. A maximum
of 2.5 pints of Goal 1.6E may be
tank mixed with Vantage. See previous pages for the minimum recommended rates of Vantage and
see the Goal 1.6E label for minimum rates of Goal 1.6E. 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.

Timing
Apply to actively growing weeds 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** label.

Spray Volume and Pressure Apply at 20 gallons per acre and 40 psi.

Restrictions and Limitations
Read and follow all conifer specific
and General Use Restrictions and
Limitations on the Vantage and
Goal 1.6E labels. The most restrictive labeling applies in tank mixes.
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.
Do not use spot treatments.

Vantage + Stinger® Tank Mix 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).

Restrictions and Limitations
Read and follow all Directions For
Use, Precautionary Statements,
and Restrictions and Limitations
on the Vantage and Stinger
labels. The most restrictive labeling
applies in tank mixes.

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.

Using Vantage in Tree Farms for 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 actively growing 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**. Adequate coverage of the leaf surface is necessary for absorption of

Adequate coverage of the leaf surface is necessary for absorption of this herbicide; thus, do not mow tall fescue turf for 30 days before or 14 days after application of **Vantage** for optimum control.

Rate

Apply 24-30 fluid ounces of **Vantage** per acre. For greater fescue suppression, up to 60 fluid ounces of **Vantage** can be used per acre. Because of environmental differences at application and growth differences of tall fescue, suppression of tall fescue may differ from that desired. Users of **Vantage** are advised to begin using **Vantage** at the minimum recommended rate and adjust rates as local conditions and experience dic-

Additional applications may be made if extended growth suppression is desired.

Restrictions and Limitations Read and abide by all General Restrictions and Limitations on page 4.

Do not apply to grasses under stress, such as stress due to lack of moisture, herbicide injury, or cold temperatures, because unsatisfactory suppression may result.

Table 13.

Common Name	Scientific Name
Fir, Frasier	Abies fraseri
Hemlock, Canada*	Tsuga canadensis*
Pine, Virginia	Pinus virginiana
Pine, White	Pinus strobus
Spruce, Norway	Picea abies

^{*} Canada Hemlock has a prolonged period of bud break and new growth, thus directed applications are recommended during this period.

Using Vantage[™] herbicide in Wildflowers

Vantage may be used to control grass in native wildflowers on road-sides and 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 actively growing grass after wildflowers have emerged, but not during flowering. Apply Vantage 4-6 weeks after wildflowers have emerged, but always base application timing on grass size. Make broadcast applications according to the Annual Grass Control with Vantage and Perennial Grass Control with Vantage tables on page 7. Vantage controls emerged grass species and does not give residual control. A second application may be necessary if a new flush of grass occurs later in the growing season. In irrigated areas, it may be necessary to irrigate before treating with Vantage to ensure active weed growth.

Spot Treatment

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 in water according to the Solution Table for Spot Treatments on page 9. Apply to the foliage of grasses on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to the point of runoff.

Using Vantage on Roadsides, Rights-of-way, and in Nonfood Crop Alleyways for Established Tall Fescue Seedhead Suppression

(Not intended for domestic use, except by professional applicators) When used under the conditions specified in this label, **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.

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.

Timing and Application Information Timing

Generally, apply **Vantage** to actively growing 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**.

Do not apply to grasses under stress, such as stress due to lack of moisture, mechanical injury, herbicide injury, or cold temperatures, because unsatisfactory seedhead suppression may result. Adequate coverage of the leaf surface is necessary for absorption of this herbicide; thus, do not mow turf for 30 days before or 14 days after applying **Vantage** for optimum control.

Rate

Apply 1.5 pints of **Vantage** per acre.

Do not make more than one application of **Vantage** to tall fescue per year.

Spray volume

Thorough spray coverage of grass foliage is essential. Use 30-50 gallons per acre.

Total Vegetation Suppression

A reduction in grass compatition

A reduction in grass competition may make certain broadleaf weeds appear more prominent or may allow new weeds to germinate.

Vantage does not control or suppress broadleaf plants. 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.

Read and abide by all **General Restrictions and Limitations** listed on page 4.

Procedure for Cleaning Spray Equipment

Attention! Clean the sprayer thoroughly before and after applying Vantage, particularly if a herbicide with the potential to injure the crop to be sprayed with Vantage was used.

Failure to clean the sprayer thoroughly after applying **Vantage** may result in injury to any grass crop sprayed subsequently.

Fill the sprayer with clean water and

Fill the sprayer with clean water and add a commercial sprayer cleaner or a surfactant/adjuvant at the recommended rate on its label. Circulate the solution through the entire sprayer system. Spray approximately half the tank solution through the hoses, booms, and nozzles to clean these parts. Drain the tank and rinse the total system thoroughly several times with clean water.

Appendix Trees Listed by scientific name Listed by common name Abies balsamea Acacia, Knife Leaf (Acacia cultriformis) (Fir. White) Arborvitae, Eastern (var: Teehny) Abies concolor (Fir, White) (Thuja occidentalis) Arborvitae, Berkmans, Oriental Ables fraseri (Thuja Orientalis) (Fir, Frasier) Ash, Green Abies sp. (Fraxinus pennsylvanicum) (Fir) Acaçia baileyana (purpurea) Ash, Mountain (Purpleleaf) (Sorbus aucuparia) Acadia cultriformis Ash, Mountain (Sorbus americana decora) (Acacia, Knife leaf) Ash, White Acer palmatum (Maple, Japanese) Acer rubrum (Fraxinus americana) Basswood, American (Maple, Red) Acer saccharinum (Tilia americana) Berkman's, Oriental (Thuja orientalis) (Maple, Silver) Agonis flexuosa Birch (Willow, Peppermint) (Betula sp.) Albizia Julibrissin Birch, Asian White (var. Japonica) (Betula platyphylla) (Milmosa tree, silk tree) Arbutus unedo Birch, European White (Strawberry Tree) (Betula pendula) Birch, paper Arecastrum rømanzoffianum (Queen palm) (Betula papyrifolia) Birch, River, Black or Red Betula ni**g**ra (Birch, River, Black or Red) (Betula nigra) (Birchi, Hiver, Black of Re Betula papyrifolia (Birch, paper) Betula pendula (Birch, European White) Betula platyphylla (Birch, Asian White) (var: Japonica) Black Locust (Robinia pseudoacacia) Bottle-brush (Callistemon lanceolatus) **Bottle Tree** (Brachychiton populneus) Brisbane Box Tree (Tristania conferta) Betula sp. (Birch) Cajeput Tree (Melaleuca quinquenervia) Brachychiton populneus (Bottle tree) Carob Tree Callistempn lanceolatus (Bottle-brush) (Ceratonia siliqua) Carrot Wood Catalpa bignonioides (Catalpa, Southern) (Cupaniopsis anacardioides) Catalpa, Southern Celtis odcidentalis (Hackberty, Common) Ceratonia siliqua (Catalpa bignonioides) Cherry Black (Prunus serotina) Cherry, Carolina (Carob tree) Chamaecyparis pisifera (Prunus caroliniana "compacta") Crabapple, Flowering (Cypress, False) (var Dalgo, Radiant, Red Splendor, Royalty, Chamaerops humilis Vanguard, Sylvestris, Domestic) (Falm, Mediterranean fan) Cornus alternifolia (Pogwood, Pagoda) (Malus sp.) Cypress, False (Chamaecyparis pisifera) Cornus amonun Cypress, Leyland (Dogwood, Silky) (Cupressocyparis leylandii) Corrlus florida Cypress, Italian (Dogwood, filowering) (Cupressus sempervirens) Cupaniopsis analçardioides Dogwood, Flowering (Carrot Wood) Cupressocyparis (eylandii (Cypress, Leyland) (Cornus florida) Dogwood, Silky (Cornus amonum) Cubressus sempervirens Dogwood, Pagoda (Cypress, Italian) (Cornus alternifolia) Cycas revoluta Elm, Chinese Evergreen (Palm, Sago) Elaeagnus angustifolia (Ulmus parvifolia) (Olive, Russian)

Efriobotrya japonica (Loquat)

Trees (continued)	List of the scientific pales
Listed by common name	Listed by scientific name
Eucalyptus	Eucalyptus citriodera
(Eucalyptus robusta)	Gum, Lemon-scented)
(Eucalyptus lehmannii)	Eucalyptus globulus
(Eucalyptus nicholi)	(Gum, Blue)
(Eucalyptus granis)	Eucalyptus granis
Fir	(Eucalyptus)
(Abies sp.)	Eucalyptus lehmannii
Fir, Douglas	(Blushy Yate)
(Pseudotsuga menziesii)	EucalyAtus nicholi (Nidhol's Willow)
Fir, Frasier (Abies fraseri)	(Leafed Peppermint)
Fir, White	Eucalyptus polyanthemos
(Abies concolor)	(Gurh, Red Box, Silver Dollar)
Goldenrain Tree	Eucalyptus robusta
(Koelreuteria paniculata)	(Éucalyptus) ∫
Guava	Eucalyptu\$ sideroxyllon
(Psidium littorale)	(Ironbark, Red)
Guava, Pineapple	Feijoa sellowiana
(Feijoa sellowiana)	(Pineapple, Gyava)
Gum, Blue	Ficus benjalmina
(Eucalyptus globulus)	(Weeping Fig./Exotica, Weeping Banyan)
Gum, Lemon-scented	Ficus microcarpa hitida
(Eucalyptus citriodera)	(Laurel, Indiarli) Fraxinus americana
Gum, Red Box	(Ash, White)
<i>(Eucalyptus polyanthemos)</i> Hackberry, Common	Fraxinus pendsylvanicum
(Celtis occidentalis)	(Ash, Green)
Hemlock, Canadian	Geijera parviflora
(Tsuga canadensis)	(Willow, Australian)
Holly, Chinese	Gleditsia triacanthos inermis
(var: Bufordii, Rotunda)	(Locust, Honey)
(llex cornuta)	Gymnocladus ¢li picus
Holly, Hybrid (var Nellie Stevens)	(Kentucky Opffee Tree)
(llex spares)	llex cornuta /
Holly, Japanese	(Holly, Chinese)
(var: Convexa, Compacta, Helleri, Hoogendorn)	(var: Bufdrdii,\Rotunda)
(llex crenata)	llex crenata ()
Holly, Yaupon	(Holly, Japanese)
(Ilex vomitoria) Ironbark, Red	(var Compacta, Convexa, Helleri, Hoogendorn) **Ilex spares**
(Eucalyptus sideroxylon)	(Holly, Hybrid)
Jacaranda Jacaranda	(var: Nellie Stevens)
(Jacaranda mimosifolia)	llex vomitoria
Kentucky Coffee Tree	(Holly, Yaupon) \
(Gymnocladus dioicus)	Jacaranda mimosifolia
Larch, European	(Jacaranda)
(Larix europa)	Juglans nigra
Laurel, Indian	(Walnut, Black)
(Ficus microcarpa nitida)	Koelreuteţia paniculată
Linden (Tilia americana)	(Goldenrain Tree)
Linden, Littleleaf	Larix europa (Largh, European) \
(Tilia cordata)	Leptospermum laevigatum
Locust, Honey	(Tea tree, Australian)
(Gleditsia triacanthos inermis)	Liquidambar stryaciflus
Loquat	(Gum, Sweet)
(Eriobotrya japonica)	Lirioder dron tulipifera \
Magnolia Southern	(Popular, Yellow, Tulip Tree)
(Magnolia grandiflora)	Maclura pomifera
Maple, Red	(Osage Orange)
(Acer rubrum)	Magnolia grandiflora
Maple, Japanese	(Magnolia, Southern)
(Acer palmatum)	Malus sp.
Maple, Silver (Acer saccharinum)	(¢rabapple, Flowering) \ (¢ar: Dalgo, Domestic, \$vIvestris, Radiant,
Mimosa Tree (silk tree)	yar: Daigo, Dornestic, gyivestris, Radiant, Yanguard, Royalty, Red∫Splendor)
(Albizia julibrissin)	Melaleuca quinquenervia
in the many factors of the same of the sam	Cajenut Tree)

Trees (continued) Listed by common name
Myoporum (notum)
(Myoporum laetum) New Zealand Christmas Tree
(Metrosideros excelsus) Oak
(Quercus) Oak, Water
(Quercus nigra) Oak, 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)
Palm, Pygmy Date
(Phoenix roebelenii) Palm, Queen
(Arecastrum romanzoffianum) Palm, Sago
<i>(Cycas revoluta)</i> Palm, Windmill
(Tracheocarpus fortunei) Palo Verde, Green
(Parkinsonia aculeata) Paulownia Royal
(Paulownia tomentosa)
Pear, Common (Pyrus communis)
Pear, Évergreen (Pyrus kawakamii)
Pear, Ússurian (Pyrus ussuriensis)
Pepper, Brazilean (Schinus terebinthifolius)
Pine, Aleppo
(Pinus halepensis) Pine, Austrian
(Pinus nigra) Pine, Canary Island
(Pinus canariensis) Pine, Caribbean Slash
(Pinus caribean) Pine, Italian Stone
(Pinus pinea) Pine, Jack
(Pinus banksiana)
Pine, Japanese Black (Pinus thunbergii)
Pine, Loblolly (Pinus taeda)
Pine, Mugho (Pinus mugho)
Pine, Ponderosa, Western yellow (Pinus ponderosa)
Pine, Red (Pinus resinosa)
Pine, Scotch
(Pinus sylvestris) Pine, Shore
(Pinus contra) Pine, Slash
(Pinus ellottii)

Listed by scientific name
Metrosideros excelsus (New Zealand Christmas Tree)
Milnosa pudica
(Sensitive Plant) Myoporum laetum
(Myoporum) Olea europaea
(Olive Tree)
Parkinsonia aculeata (Palo Verde, Green)
Paulownia tomentosa (Paulownia, Royal, Empress Tree)
Phoenix roebelenji
(Palm, Pygmy Date) Picea abies
(S p ruce, Norway) <i>Picea glauca</i>
(S p ruce, White) Picea g auca
(Spłuce, Black Hills)
(var) Densata) Picea pungens
(Spruce, Colorado Blue) Pinus banksiaria
(Pine) Jack) Pinus carlariensis
(Pine.) Carlary Island)
Pinus caribeah (Pine, Caribbean slash)
Pinus contra (Pine, Shjore)
Pinus ellottli (Pine, Slash)
Pinus halepė̇̀nsis
(Pine, Aleppo) Pinus muga mugo
(Pine, Mugho) Pinus nigra
(Pine, Austrian Black) Pinus palustris
(Pine, Southern, Long Leaf)
Pinus parviiflora (Pine Japanese White)
Pinus pinea (Pine, Italian Stone)
Pinus pohderosa (Pine, Ponderosa, Yellow)
Pinus resinosa ((Pine, Red)
Pinus strobus (Pine, White)
Pinus sylvestris
(Pinle, Scotch) Pinus taeda
(Pihe, Loblolly) Pinus (hunbergiana
(Pine, Japanese Black) Pinus virginiana
(Fine, Virginia) Pittosporum phillyraeoides
(Willow, Desert) Platapus occidentalis
(Sycamore)
Podocarpus macrophyllus (Pine, Yew)
Populus alba (Poplar, White)

Trees ((continued)	
Listed	by common	name

Pine, Southern (Pinus palustris) Pine, Virginia (Pinus virginiana) Pine, White (Pinus strobus) Pine, White, Japanese (Pinus parviflora) Pine, Yew (Podocarpus macrophyllus) Plum, Wild (Prunus americana) Poplar, Hybrid (Populus alba) Popular, Yellow, Tulip Tree (Liriodendron tulipifera) Purpleleaf, Bailey Acacia (Acacia baileyana) Redwood, Coast (Sequoia sempervirens) Sandcherry, Western (Prunus besseyi) Sensitive Plant (Mimosa pudica) Silk Tree (Albizia julibrissin) Spruce, Black Hills (var. Densata) (Picea glauca) Spruce, Colorado Blue (Picea pungens) Spruce, Norway (Picea abies) Spruce, White (Picea glauca) Strawberry Tree (Arbutus unedo) Sumac, Standard, Áfrican (Rhus lancea) Sweet Gum (Liquidambar stryaciflus) Sycamore (Platanus occidentalis) Tea Tree, Australian (Leptospermun laevigatum) Tipu Tree (Tipuana tipu) Walnut, Black (Juglans nigra) Weeping Fig, Exotica (Ficus benjamina) (Salix matsudana tortuosa) Willow, Australian (Geijera parviflora) Willow, Desert (Pittosporum phillyraeoides) Willow, Peppermint (Agonis flexuosa) Yate, Bushy

(Eucalyptus lehmannii)

(Taxus baccata)

Yew, English

Listed by scientific name Prunus americana (Plum, Wild) Prunus besseyi (Sandcherry, Western) Prunus caroliniana "obmpacta" (Cherry, Carolina) Prunits mahaleb Prunus myro Prunus serotina (Cherry, Black) Pseudotsuga menzijesii (Fit, Douglas) Psidium littorale (Guava) Pvrus communis (Pear, Common) Pyrus kawakamii (Evergreen Rear) Pyrus ussuriensis (Pear, Ussurian) Quercus (Oak) Quercus nigra (Oak, Water) Quercus phellds (Oak, Willow) Rhus lancea (Sumac, African Standard)
Robinia pseudoacacia
(Locust, Black)
Salix matsudana tortuosa (Willow) Schinus terebinthifolius (Pepper, Brazilean) Sequoia sempervirens (Coast/Redwood) Sorbus aucuparia (Ash, Mountain) Sorbus aniericana decora (Ash, Mountain) Taxus baccata (Yew, English) Thuja occidentalis (Arbbrvitae, American) (var Teehny) Thujà ofjentalis (Berkmans, Oriental Arborvitae) Tilia americana (Linden, American Basswood) Tilia cdrdata (Linden, Little-leaf) Tipuaha tipu (Tipu Tree) Tracifeocarpus fortunei

(Palm, Windmill)

(Brisbane Box Tree)

(Hemlock, Canadian)

(Elm, Chinese Exergreen)

Trist**a**nia conferta

Tsu**g**a canadensis

Ulmus parvifolia

Chimaha '
Shrubs Listed by common name
Abelia, Glossy (Abelia grandiflora)
Acacia, Bailey
<i>(Acacia baileyana)</i> Acacia, Knife Leaf
(Acacia cultriformis)
Acacia, Prostrate (Acacia redolens)
Acacia, Sydney Golden Wattle (Acacia longifolia)
Andromeda
(Pieris japonica) Arborvitae, Oriental
(Platycladus orientalis)
Arrowwood, Southern (Viburnum dentatum)
Azalea, Mollis hybrid (R. x kosterianum)
Azalea, Northern Lights Hybrid
(R x kosterianum x R prinophyllum) Bamboo, Heavenly
(Nandina domestica)
Barberry, Japanese (Berberis thunbergii)
Barberry, Korean (Berberis koreana)
Barberry, Redleaf
(Berberis virginian) Bird of Paradise Bush
(Caesalpinia gillesil) Bluebeard
(Caryopteris clandonensis)
Boxwood, Common (Buxus sempervirens)
Boxwood, African
(Myrsine africana) Boxwood, Japanese
(var: Japonica) (Buxus microphylla)
Buckthorn, Glossy, Alder
(Rhamnus frangula) Camellia
(Camellia japonica) Camellia
(Camellia sasanqua)
Cedar, Eastern Red (var: Pyramidiformus, caneartl)
(Juniperus virginiana) Cherry, Brush
(Éugenia myrtifolia)
Cherry, Manchu, Nanking (Prunus tomentosa)
Chokecherry sp.
(Aronia meloelata) Copper Plant, Caribbean
(Euphoria cotinifolia) Cotoneaster, Bearberry
(Cotoneaster dammerii)
Cotoneaster, Cranberry (Cotoneaster apiculata)
Cotoneaster 'lowfast' Cotoneaster, Peking
(Cotoneaster acutifolia) ,
Coyote Bush (Baccharis pilularis)
Cranberry Bush, American (Viburnum trilobum)
Cranberry Bush, Golden
(Viburnum opulus aureum)

sted by scientific name
Abelia grandiflora
(Abelia, Glossy)
Acacia baileyana (Acacia, Bailey)
Acacia cultriformis
(Acacia, Knife Leaf)
Acacia longifolia (Acacia, Sydney Golden Wattle)
Acacia redolens
(Acacia, Prostrate)
Alyogyne huegelli (Hibiscus, Blue)
Amelanchier alnifolia
(Serviceberry/Saskatoon) (Var: Regent)/
Amelanchier laevis
(Sprviceberry, Aliegneny)
Aronia\meloelata (Chokecherty sp.)
(Chokecherfy sp.) Baccharis pilularis
(Cdyote Bush)
Berberis koreana (Balberry, Korean)
Berberis thunt ergii
(Barberry/Japanese) (var: Crimson pygmy)
Berberis virgihian
(Barbern), Redleaf)
Brunfelsia callycina (Yesterday-Today-and-Tomorrow)
Buxus midrophylla
(Boxwbod, Japanese)
(var: Japonica) Buxus sempervirens
(Boxwigod, Common)
Caesalpinia gillesii (Bird of Paradise Bush)
Calliandra haematocephala)
(Pink/Powder Puff)
Camellia japonica (Camellia)
Camellia sasanqua
(Cafnellia) Carissa grandiflora
(Palm. Natal)
(var: Green Carpet, Tuttle)
Caryonteris clandonensis (Bluebeard)
Ceanothus griseus
(Mountain lifac, Carmel Creeper) Cistus purpureus
(Drchid rockrose)
Copiosma 'coppershine'
Coprosma repens (Mirror Plant)
Cornus stolonifera
(Dogwood, Red Osier) Correa pulchella
(Fuchsia, Australian)
Cortaderia selloana
(Pampas grass) Cptoneaster acutifolius
(Cotoneaster, Reking)
Otoneaster apiculata (Cotoneaster, Cranberry)
Cotoneaster dammerii
(Cotoneaster, Bearberry)
(var: Coral Beauly) Cotoneaster 'lowfast
=

Shrubs (continued) Listed by common name	Listed by scientific name
Crape Myrtle	Dierville Ionicera
(Lagestromia indica)	(Honeysuckle, Bush)
Currant, Alpine	Dodonaea viscosa
(Ribes alpinum)	∖(Purple Hop Bush)
Dogwood, Red Osier	(var: Purpurea)
(Cornus stolonifera)	Duranta stenostachya
Elaeagnus	(Sky Flower, Brazilian)
(Elaeagnus umbellata) Escallonia	Elaelignus pungens (Silverberry)
(Escallonia fradesii)	Elaeagnus umbellata
(Escallonia rubia)	(Elaeagnus)
Euonymus, Evergreen	Escallonia exoniensis
(var. Golden, Silver King)	(Escallonia)
(Euonymus japonica)	Escallonia 'fradesii
Euonymus, Winged	(E\$callonia) \int
(Euonymus alata)	Escallonia rubra
Fig. Creeping	(Escallonia)
(Ficus repens) Firethorn	Eugenia myrtifolia (British Chords)
(Pyracantha graberi)	(Brush Cherry) Euonymus alata
Forsythia, Greenstem	(Euchymus, Wingeo
(Forsythia viridissima bronxeniss)	Euonymus japonica
Flax, New Zealand	(Euonymus/Evergreen)
(Phormium tenax)	(var: Golden, Silver King)
Fuchsia, Australian	Euonymus kiautschovica
(Correa pulchella)	(Spindle tree)
Gardenia (var. Mystery, Radicans)	Euphorbia\cotihifolia
(Gardenia augusta) (Gardenia jasminoides)	(Copper Plant, Caribbean)
Gardenia jasminoides) Gardenia, Dwarf (var. Veitchii)	Ficus reperts ((Fig. Creeping)
(Gardenia jasminoides)	Forsythia viridissima bronxeniss
Gold Vine, Guinea	(Forsythia, Greenstem)
(Hibbertia scandens)	Gardenia augusta
Hakea	(Garden j a) (var: Mystery)
(Hakea proteacea)	Gardenia jasiminoides
Hawthorn, Indian (Phanhialogia indian)	(Gardenia) (var: Mystery, Radicans)
(Phaphiolepis indica) Hibiscus, Blue	(Garde hi a, Dwarf) (var: Veitchii) Gelsemium sampervirens
(Alyogyne huegelli)	(Jessamine, Carolina)
Hibiscus, Chinese	Grewia occidentalis
(Hibiscus rosa-sinensis)	(Laverider, Star Plant)
Holly, Dwarf Burford	Hakèa proteacea
(var. Burfordii Nana)	(Hakea) \
(llex cornuta)	Hebe 'coed' \
Honeysuckle, Bush	(Verdnica) (var: Coed)
(Dierville Ionicera) Honeysuckle, Cape	Hetermeles arbultifolia (Toyon, California Holly)
(Tecomaria capensis)	Hibbertia scandens
Hydrangea	(Gold Vine, Guinea)
(Hydrangea macrophylla)	Hibiscus rosa-sinlensis
Jasmine Asiatic	(Hilpiscus, Ch i nese)
(Trachelopsermum asiaticum)	Hydrangea macrophylla
Jasmine, Orange	(Hlydrangea)
<i>(Murraya paniculata)</i> Jasmine, Star	llex cornuta (Dwarf Burford Holly)
(Trachelospermum jasminoides)	(var: Burfordii Nana)
Jasmine, Winter	Jasmine nudiflorum
(Jasmine nudiflorum)	(Winter Jasmine)
Jessamine, Carolina	Juniperus chinensis (
(Gelsemium sempervirens)	(Juniper, Chinese)
Jojoba (Simmandaia ahinanaia)	(var: Maneyi, Old Gold, Pfitzerana Sea Green,
(Simmondsia chinensis)	Hetzii, Torulosa Nana, Gold Coast, Pfitzerana
Juniper, Chinese (var: Maneyi, Old Gold, Phtzerana, Sea Green, Hekii, Nana, Torulosa, Phtzerana	Jaurea, Pfitzer, Gdlden Pfitzer, San Jose, San Jose
Aurea, Pfitzer, Golden Pfitzer)	Variegated, Blue ຈີວັເປ) Juniperus conferta
(Juniperus chinensis)	(Juniper, Shore) (var: Compacta)

Juniper, Creeping (var: Bluechip, Hughes, Plumosa, Prince of Wales, Webberi, Wiltonii, Bar Harbor, Andorra, Variegata, Youngstown Blue Rug) (Juniperus horizontalis)

Juniper, Özark

(Juniperus sp.)

Juniper, 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)

Juniper, Shore (var. Compacta) (Juniperus conferta)

Juniper, Tam (var. Tamáriscifolia)

(Juniperus sabina) Lantana, Purple Trailing

(Lantana montevidensis)

Laurustinus

(Viburnum tinus)

Lemonade Berry

(Rhus integrifolia) Lilac. Common Purple

(Syringa vulgaris purpura)

Liriope, Green

(Liriope muscari)

Liriope, 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 domestica)

Nannyberry

(Viburnum lantago)

Ninebark

(Physocarpus opulifolius)

Ninebark (var Aureus)

(Physocarpus opulifolius nanus)

Oleander

(Nerium oleander)

Orchid, rockrose

(Cistus purpureus)

Oregon Grape

(Mahonia aquifolium) Osmanthus, Holly-leaf

(Osmanthus heterophuyllus)

Osmanthus, Sweet Olive (Osmanthus fragrans)

Palm, Natal

(var. Green Carpet Tuttle)

(Carissa grandiflora)

Pampas Grass

. (Cortederia selloana)

Photinia

(Photinia sp.)

Photinia, Fraser

(Photinia traser)

Pink Lady

(Rahioleis indica)

Listed by scientific name

Juniperus horizontalis (Juniper, Creeding)

(var. Bluechip, Hughes, Plumosa, Prince of Wales, Webberi, Wiltonii Bar Harbor, Andorra, Blue Rug,

Youngstown, Variegata)

Juniperus scopulgrum)
(Juniper, Rocky Mountain)
(var: Blue Heaven, Welchii, Wichita Blue, Medova, Moffetii, Pyramidal Green, Springtime, Admiral)

Juniberus sabina (Juniper, Salvin)

(var: Skandia, Árcadia, Broadmoor, Buffalo, Pepin,

Tamariscifolia)

Juniperus virginiana (Cedar, Eastern Red) (var: Pyranjidiformus, Canearti)

Junip**è**rus sp.

(Juniper, Ozark) Lagestromia indica

(Chape Myrtle)

Lantana montevidensis

(Purple Lantana, Trailing)

Leptospermum laevigatum

(Tea Tree, Australian)

Leptospermum scoparium

(Tea Tree, New Zealand)

(var: Rydy Glow)

Leucophyllum frutescens (Texas Ranger) Ligustrum Indica

(Privet)

Ligustrum liaponicum

(Privef, Waxleaf, Japanese)

Ligustrum lucidum

(Privat, Glossy) (var: Lake Tresca)
Ligustrum texanum
(Privet, Texas)

Liriope muscari (Liriope, Green)

(Linope, Green)
Liriope muscari
(Liriope Variegated)
(var: Vatiegata)
Lycianthes rantonnetii
Mahonia aquifolium
(Oregon Grape)
Murraya paniculata
(Jasmine) Orange)
Myssibo africana

Myrsine africana

(Boxwood, African) Myrtus communis compacta

(Dwarf Myrtle)

Nandina domestica

(Nandina, Heavenly Bamboo)

Nerium oleander (Oleander)

Ochna serrulata

(Mickey Mouse Bush)
Osmanthus fragrans
(Osmanthus, Sweet Olive)

Osmanthus heterophuvilus (Osmanthus Holly-leaf)

Pandorea rosea

(Pink Trumpet Vine)

Phormium tenax

(Flax, New Zealand)

Photinia fraser

(Photinia, Fraser)

Photinia sp.

(Photinia)

Shrubs (continued)	20/
	Listed by scientific name
Listed by common name	Fisted by scientific figure
Dial. Davidor Duff	Physica and Malin panys
Pink Powder Puff	Physocarpus opulifolius nanus
(Calliandra haematocephala)	(Ninebark) (var: Aureus)
Pittosporum, Variegated Japanese	Physocarpus opulifolius
(Pittosporum tobira variegata)	(Ninebark)
Plumbago, Cape	Pi a ris japonica
(Plumbago capensis)	(Ándromeda)
	Pittosporum tobira
Podocarpus, Yew	
(Podocarpus macrophyllus)	(Wheelers Dwarf, variegated)
Princess Flower	\(var: Wheller)
(Tibouchina urvilleana)	Pittosporum tobira √ariegata
Privet	(Pittosporum, Variegated Japanese)
(Ligustrum indica)	Platycladus orientalis
Privet, Glossy (var: Lake Tresca)	(Arborvitae, Orjental)
(Ligustrum lucidum)	Plumbago capensis
Privet, Japanese, Waxleaf	(Plumbago, Cape)
(Ligustrum japonicum)	Podo¢arpus macrþphyllus
Privet, Texas	(Yew, Podocarpus, Pine)
(Ligustrum texanum)	Prunus cistena
Purple Hop Bush	(Sandcherry, Purpleleaf)
(Dodonaea viscosa)	Prunus\tomentosa
Pyracantha	(Cherry, Marichu, Nanking)
(Pyracantha graberi)	Pyracantha fortuneana
Rhododendron - Azalea (var. Hinocrimson,	(Pyracantha, Firethorn)
Hershey Red, Coral Blue, Hinodigiri,	Rhamnu's frang\(\delta\)la
Christmas Cheer, Pink Ruffle, Formosa Flame,	(Buckthorn/ Glossy, Alder)
Delaware Valley White, New White)	Rhaphiolèpis indica
(Rhododendron sp.)	(Pink Lady, Indian Hawthorn)
Sandcherry, Purpleleaf	Rhododendron sp.
(Prunus cistena)	(Rhododendron - Azalea)
Serviceberry, Allegheny	(var: Hinocrimson, Hershey Red, Coral Blue,
(Amelanchier laevis)	Hinodigiri Christmas Cheer, Pink Ruffle, Formosa
Serviceberry Saskatoon (var. Regent)	Flame, Delaware Valley White, New White)
	R. x kosterianum
(Amelanchier alnifolia)	
Silver King	(Azalea) Mollis hybrid)
(Euonymus japonica)	R. x kosterianum x R. priniphyllum
Sky Flower, Brazilian	(Azalea, Northern lights hybrid)
(Duranta stenostachya)	Rhus integrifolia
Snowball Bush	(Lemonade Berry)
(Viburnum opulus sterilis)	Ribes alpinum
Spindle Tree	(Currant, Alpine)
(Euonymus kiautschovica)	Rose banksiae
Spiraea	(Lady Banks' Rose)
(Spiraea vanhouteii)	Sarcococca ruscifolia
Spiraea (var: Anthony Waterer, Froebellii, Goldflame)	Simmondsia chinensis
(Spiraea bumalda)	(Jojoba)
Spiraea (var. Fairy Queen)	Spiraea bumalda
(Spiraea trilobataiovica)	(Spiraea) (vår: Anthony Waterer Froebellii,
Spiraea (var Snowbound)	Goldflame)
(Spiraea nipponicaiovica)	Spiraea nipponida tosaensis
Star Plant, Lavender	(Spiraea) (var: Snowbound)
(Grewia occidentalis)	Spiraea trilobata \
Tea Tree, Australian	(Spiraea) (var. Fairy Queen)
(Leptospermum laevigatum)	Spiraea vanhouteii
Tea Tree, New Zealand	
	(Spiraea)
(var: Red Glow)	Syringa vulgaris purpura
(Leptospermum scoparium)	(Lilac, Common Purple)
Texas Ranger	Taxus cuspitata vigatum
(Leucophyllum frutescens)	(Yew)
Toyon, California Holly	Tecoma stans
(Hetermeles arbutifolia)	
Trumpet Vine Diek	(Yellow Bells, Yellow Trumpet Flower)
Trumpet Vine, Pink	Tecomaria capensis\
(Pandorea rosea)	(Honeysuckle, Cape)
Veronica	Terristroemia gymnalithera
(Hebe 'Coed')	(Ternstroemia)
Viburnum, Japanese	Thevetia peruviana
(Viburnum japonicum)	(Oleander, Yellow)
Viburnum, Sandankwa	Tidouchina urvilleana
(Viburnum suspensum)	(Princess Flower)

Wayfaring Tree

(Viburnum lantanoides)

Weeping Fig. Exotica (Ficus benjamina)

Wheelers Dwarf, Variégated

(var: Wheller)

(Pittosporum tobira)

Yellow Bells

(Tecoma stans)

Yesterday-Today-and-Tomorrow

(Brunfelsia calycina)

(Taxus cuspitata vigatum)

Ornamentals, Bedding plants Listed by common name

Allysum

(Alyssum sp.)

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

Asparagus, Sprenger (var. Sprengeri)

(Asparagus densiflorus) Aster, New York

(Aster novi-belgii)

Aster, Stokes (var: Blue, White)

(Stokesia cyanae)

Baby's Breath (var: Bristo Fairy)

(Gypsophila paniculata)

Begonia

(Begonia semperflorens)

Bellflower, Tussock (var. Canterbury Bells)

(Campanula carpatica)

Bittersweet, American

(Calastrus scandens)

Black-eyed Susan (var: Goldilocks)

(Rudbeckia hirta)

Bleeding Heart

(Dicentra spectabilis)

Butterfly Weed

(Asclepias tuberosa)

Bower Vine

(Pandorea jasminoides) Cactus, Barrel

(Echinocactus sp.)

Candytuft

(İberis sempervirens)

(Iberis amara)

Canna

(Canna sp.)

Cassia, Feathery

(Cassia artemisioides)

Chrysanthemum, Marguarite

(Chrysanthemum frutescens)

Chrysanthemum

(Chrysanthemum indicum) Cockscomb

(Celosia argentea)

(Canna)

Coleus

(Coleus blumei)

Listed by scientific name

Tlachelospermum asiaticum

(Jasmine, Asiatic)

Trachelospermum jasminoides

(Jasmine, Star) Viburnum dentatum

(Arrowwood, Southern)

Viburnum japonicum

(Viburnum, Japanese)

Viburnum lentago (Nannyberry)

Viburnum lantanoides

(Wayfaring Tree) Viburnum opulus aureum

(Granberry Bush, Golden)

Viburnum opulus sterilis

(Snowball Bush) Viburniym suspensum

(Viburnum, Sandankwa)

Viburnum tinus

(Ladrustinus)

Viburnum trilobum

(Cranberry Bush, American)

Licted by common name

Acorus gramineus

(Sweet Grass)

Achillea Millefollum

(Yarrow (var: Cerise Queen))

Achillea taygetea v.

(Yarrow, Debutante)
Agapanthus africanus
(Peter Pan, Lily of the Nile)

Allium tuberasum

(Chives, Chinese, Garlic, Oriental)

Alyssum sp.

(Allysum)

Antirrhinum majus

(Snapdragon)

Arenaria verna

(Moss Sandwort)

Arisaemia pysillum

(Jack-in-the-Pulpit)

Armeria maritima

(Sea Pinks, Thrift)
Asclepsias tuberosa
(Butterfly Weed)

Asparagus densi(lorus Sprengerii

(Asparagus, Sprenger) Asparagus densiriorus

(Myers Asparagus) (var: meyeri)
Aster novi†belgii (New York Aster)
Begonia semperflorens

(Begonia) Bougianvillea sp.

(Raspberry Ice)

Calastrus scandens

(Bittersweet, American)

Campanula carpatica
(Bellflower, Tusspck (var: Canterbury Bells))

Canna sp. (Cahna)

Capsicum sp.

(Pepper, Ornamehtal)

Cassia artemisioides (Cassia, Feathery) Catharanthus roseus

(Periwinkle, Madagascar)

Ornamentals, Bedding plants (continued) Listed by common name	Listed by scientific name
Coneflower, Purple (var: Gloriosa Dairy)	Ceanothus griseus
(Echinacea purpurea)	∖ (Lilac, Mountain)
Coralbells	Celpsia argentea
(Heuchera sanguinea)	(Cockscomb)
Coreopsis (var: Sunray)	Centaurea cineraria
(Coreopsis lanceolata)	(Dusty Miller)
Cup of Gold Vine	Chrysanthemum fiutescens
(Solandra maxima)	(Chrysanthemum, Marguerite)
Daffodil (Naraissus ann.)	Chrysanthemum ihdicum (Chrysanthemum)
(<i>Narcissus spp.</i>) Dahlia	Chrysanthemum maximum
(Dahlia pinnata)	(Daisy, Shasta)
Daisy Bush	Cissus rhombifolia
(Euryops pectinatus)	(lvy, Grape)
Daisy Bush, Blue	(var: Ellen Danica)
(Felicia amellioides)	Clytostoma callistegioides
Daisy, Shasta (var: Alaska	(Trumpet Virlie, Lavender)
(Chrysanthemum maximum)	Coleus blumei
Daylily	(Colleus)
(Hemerocallis hybrids)	Convallatja majalis
Dianthus (Cia attack)	(Lily-bf-the-Valley)
(Dianthus deltoides)	Coprosma bauriei
Dragonhead, False	(Mirror Plarit)
(Physostegia virginiana) Dusty Miller	Coprosma rep a ns (Mirron Plant, Variegated)
(Centaurea cineraria)	Coreopsis Janceolata
Fern, Sprenger Asparagus	(Coreopsis (var: Sunray))
(Asparagus densiflorus Sprengeril)	Crassula argentea
Fescue, Blue	(Jade Plant)
(Festuca ovina)	Cuphea hystopifolia
Flowering tobacco	(Heather, False)
(Nicotiana sp.)	Dahlia pinnata
Fountain Grass, Red	(Dahlia) Y
(Pennisetum setaceum)	Dianthus barbatus
Gazania	(Sweet William)
(Gazania ringens leucolaena)	Dianthus deltoides
Gazania	(Dianthus)\
(Gazania sp.)	Dicentra spectabilis
Geranium (Geranium sp.)	(Bleeding Heart) Dietes bicolor
Geranium, Martha Washington	(Iris, African)
(Pelargonium domesticum)	Distictis bugcinatoria
Gerbera Daisy	(Trumpet Vine, Blood Red)
(Gerbera jamesonii)	Dodonaea viscosa
Geum (var: Lady Strathedon, Mrs. Bradshaw,	(Hopseed Bush)
Mrs. Bradshaw Improved)	(var: Purpurea)
(Geum quellyon)	Echinocactus sp.\
Gladiolus	(Cactys, Barrel)
(Gladiolus sp.)	Echinacea purpurea
Heather, False	(Coneflower, Furple (var: Gloriosa Dairy))
(Cuphea hyssopifolia)	Euryops dectinatus
Honeysuckle, Amar (Lonicera maachii)	(Daisy Bush) \ Felicia amellioides \
Honeysuckle, Fly	(Daisy Bush, Blue)
(var: Emerald Mound, Clavey's Dwarf)	Festuca ovina glauca
(Lonicera xylosteum)	(Fes¢ue, Blue)
Honeysuckle, Jápanese	Gazania sp.
(Ĺonicera japonica)	(Gazania)
Honeysuckle, Morrow	Gazania ringens leucclaana
(Lonicera morrowii)	(Ga‡ania)
Honeysuckle, Tatarian (var: Zabeli)	Geranium sp.
(Lonicera tatarica)	(Geranium)
Hopseed Bush, Purple	Gerbera jamesonii
(var Purpurea)	(Dalisy, Gerbera, Triansvaal)
(Dodonaea viscosa) Impatiens	Geum quellyon (Geum (var: Lady Strathedon, Mrs. Bradshaw,
(Impatiens sp.)	Mis. Bradshaw improved))
Iris .	Gladious sp.
(Iris sp.)	(Gladiolus)

(Petunia sp.) Phlox, Perennial

(Hosta sp.)

Purple Loosestrife

Plantain Lily

(Phlox paniculata)

(var: Morden's Gleam)

(Lythrum virgatum)

Listed by scientifi name Gypsophila paniculata (Baby's Breath (var: Bristo Fairy)) Hardenbergia violacea Helmerocallis Hybrids (Daylily) Heuchera sanguinea (Coralbells) Hosta sp. (Lily, Plantain) Iberis amara (Candytuft) Iberis\sempervirehs (Candytuft) Impatiens sp. (Inhpatiens) Iris sp. (iri\$) Justicia brandegeana (Shrimp Plant) Lavandula dentata (Lavender,/French) Lavandula vera (Lavender/English) Limonium perezii (Statice, Perennial) Lobelia erinus (Lobelia) Lonicera japonica (Honevsuckle, Japanese) Lonicera maachii (Honeysuckle, Amar) Lonicera morrowli (Honeysuckle, Morrow) Lonicera tátarica (Honeysuckle, Tatarian) (var: Zabeli) Lonicera xylosteum (Honeystickle, Fly) (var: Einerald Mound, Clavey's Dwarf) Lysimachia nummalaria (Moneywort, Creeping Jenny) Lythrum vifgatum (Loosestrife, Purple) (var: Morden's Gleám) Macfadyeha unguis-cati (Yellow Trumpet)
Mattiola incana (Stock) Narcissus spp. (Daffodil) Nicotiana sp. (Tobacco, Flowering) Pandorea jasminoides (Vine, Bower) Pandorba rosea (Pink Trumpel Vine) Pelargonium domesticum (Geranium, Martha Washington) Pennisetum setaceum (Fountain Grass, Red)
Petuna sp. (Fretunia) Phlox paniculata (Phlox, Perennial) Portulaca grandiflora (Moss Rose) Physostegia virginiaria Dragonhead, False)

Ornamentals, Bedding plants (continued)

Listed by common name Raspberry Ice (Bougianvillea sp.) Sage (Salvia greggii) Sea Pinks, Thrift (Armeria maritima) Sedum, Stonecrop (Sedum x rubrotinctum) (Lavender cotton) Shrimp Plant (Ĵusticia brandegeana) Sky Flower, Brazilian (Duranta stenostachya) Snail Vine (Vigna caracalla) Snapdragon (Antirrhinum majus) Speedwell, Spike (Veronica spicata) Statice, Perennial (Limonium perezil) Stock (Mattiola incana) **Sweet Grass** (Acorus gramineus) Sweet William (Dianthus barbatus) Transvaal Daisy (Gerbera jamesonii) Trumpet Vine, Blood red (Distictis buccinatoria) Trumpet Vine, Lavender (Clytostoma callistegioides) Trumpet Vine, Pink (Pandorea rosea) Tulip (Tulipa spp.) Verbena

(Verbena sp.)

Wandering Jew

(Trade scantia sp.)

Wisteria

(Wisteria sinensis)

Yarrow (var: Cerise Queen)

(Achillea Millefolium)

Yarrow, Debutante

(Achillea taygetea v.)

Yellow Trumpet

(Macfadyena unguis-cati)

Zinnia

(Zinnia elegans)

Ground covers Listed by common name

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) Listed by scientific flame Rudbeckia hirta (Black-eyed Susan (var: Goldilocks)) alvia greggli (Sage) Santolina chamaecyparisus Sedum x rubrotinctum (Sedum, Stonedrop) Solandra maxima (Cup of Gold Vihe) Stachys lanata (Lamb's Ear) Stelphanotis floribuhda (Jasmine, Madagascar) Stokesia cyanae Aster, Stokes (var: Blue, White)) Syringa chinensis (Lilac, Chinese) Syringa patula (Цilac, Korean) (Var: Miss Kim) Syringla sp. (Llac, Meyer) (var. Palibin) Syringa vulgaris purpurpa (Lilac, Common Purple) (val: Charles Joly, Ludwig Spaeth, Jay Tree) Tagetes sp. (Marigold) Tulipa spp. (Tulip) *Trade scantia* sp.

(Wandering Jew) Verbena sp (Verbena)

Veronica spicata (Spike Speedwell)

Vinca minor

(Periwinkle) Vigna caracalla (Snail Vine)

Viola tricolor (Pansy, Johnny-Jump-Up)

(Wisteria) Zinnia elegans (Zinnia)

Listed by scientific name

Ajuga reptans (Bugleweed Aptenia corditolia (Aptenia) (val: Red Apple) Arctotheca calendula (Capeweed) (Baccharis pilularis (Coyote Brush) (var: Twin Peaks) Bergenia crassofolia (Bergenia, Winter-blooming) Calobephalus brownii Cushion bush

Ground covers (continued) Listed by common name

Cinquefoil, Spring

(Potentilla tabernaemontanil) Coyote brush (var. Twin Peaks)

(Baccharis pilularis)

Crownvetch

(Coronilla varia)

Cushion Bush

(Calocephalus brownii)

Daisy, Trailing African, Freeway

(Osteospermum) Daisy, White African

(Osteospermum fruticosum alba)

Gazania, Trailing

(Gazania regens leucolaena)

Green Carpet

(Herniaria glabra)

lw. Algerian

(Hedera canaiensis)

lw. Boston

(Parthenocissus tricuspidata)

Ivy, English

(Hedera helix) (var. California)

lw, Grape

(var Ellen Danica)

(Cissus rhombifólia)

Ivy, Hahn's (var: Hahnii) (Hedera helix)

Lantana, Lavender

(Lantana montevidensis)

Lily-turf, Big Blue

(Liriope muscari)

Lippla

(Phyla nodiflora)

Mondo Grass

(Ophiopogon japonicus)

Myoporum (var: Prostratum)

(Myoporum parvifolium)

Pachysandra

(Pachysandra terminalis)

Periwinkle

(Vinca major)

Plumbago, Dwarf

(Ceratostigna plumbaginoides)

Pork and Beans

(Sedum rubrotinctum)

Rosea Ice Plant

(Drosanthemum floribundum)

Rosemary, Dwarf (var: Prostratus)

(Rosmarinus officinalis)

Rupture Wort

(Herniaria glabra)

St. Johnswort, Creeping

(Hypericum calvcinum)

Stonecrop, Sedum

(Sedum rubrotinctum)

Verbena

(Verbena officinalis)

Verbena, Blue

(Verbena peruvianna)

Listed by scientific hame

Campanula carpatica

(Harebell, Carpathian)

Ceratostiama plumbaginoides

(Plumbago, Dwarf)

Cissus rhombifolia

(Ivy, Grape) (var: Ellen Danica)

Coronilla varia

(Crownvetch)

Drosanthemum floribundum

(Rosea Ice Plant)

Gazania regens leucolaena

(Gazania, Trailing)

Hedera helix (Ivy), English) (var: California) (Hahn's Ivy) (var: Hahnii)

Herniaria glabra

(Green Carpet, Rupture Wort)

Hypericum calycinum

(Creeping \$t. Johnswort, Aaron's Beard)
Juniperus scopulorum

Lantana montevidensis

(Lavender, Lantana)

Liriope muscari

(Lily-turf, Big Blue)

Myoporum parvifolium
(Myoporum) (var: Prostratum)

Ophiopogon japonicus
(Mondo Grass)

Osteospernium fruticosum

(Daisy, Mrailing African, Freeway)

Osteospermum fruticosum alba (Daisy White African) Pachysandra terminalis

(Pachysandra)

Parthenodissus tricuspidata

(Ivy, Boston)

Phyla nodiflora

(Lippia)
Potentilla cinerea
Potentilla tabernaemontanii

(Cinquefoil, Spring)

Rosmadinus officinalis

(Dwarf Roseinary) (var: Prostratus)

Sedùm rubrotinclum

(Stonecrop, Sedum, Pork & Beans)

Verbena officinalis

(Verbena)

Verbena peruvianna

(Blue Verbena)

Vinca maior

Periwinkle, Myltle)

Nonbearing Food Crops and Nursery Liners Almonds

Almonds
Apples
Apricots
Asparagus
Avocados
Blackberries
Blueberries
Cherries
Crabapples
Cranberries
Dates

Figs

Grapes
Grapefruits
Lemons
Limes
Macadamias
Nectarines
Olives
Oranges
Peaches

Peanuts, Perennial*

Peanuts, Pe Pears Pecans Pistachios Plums Pomegranates Prunes Raspberries Tangelos Tangerines Walnuts

Do not apply to nonbearing food crops within 1 year of harvest.
* Not approved in California.

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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.

Listed by Common Name	Listed by Scientific Name
Trees	
Red Oak	Quercus rubra
White Oak	Quercus alba
Shrubs	
Azalea (var Snow)	Rhododendron sp.
Potentilla	Potentilla fruticosa
(var Jackmanni, K. VanDyke)	Potentilla verna
Privet, Japanese	Ligustrum japonica
Ornamental	
Snow-in-summer	Cerastium tomentosum



Common Name	Scientific Name
African daisy	Dimorphotheca aurantiaca
Baby blue eyes	Nemophila insignis
Baby snapdragon	Linaria macrocanna
Baby's breath	Gypsophila muralis
Bachelor button	Centaurea cyanus
Bird's eyes Black eyed Susan	G ilia tricolor R udbeckia hirta
Blanketflower	Gaillardia aristata
Blue Fescue	Festuca ovina glauca
Blue flax	Linum lewisii
Butterflyweed	Ascelpias tuberosa
Calendula	Calendula officinalis
California poppy	Eschscholzia californica
Calliopsis	Coreopsis tinctoria
Candytuft Carnation	l be ris sempervirens Di anthus
Catchfly	Silene armeria
Chicory	Chicory intybus
Chinese houses	Collensia heterophylia
Columbine	Aquilegia spp.
Corn poppy	Papaver rhoeas
Cornflower	Centaurea cyanus
Cosmos	Cosmos bipinnatus
Creeping daisy	I topporio motropolio
Dames rocket Drummond phlox	Hesperis matronalis
Dwarf primrose	<i>Phlox drummondii</i> <i>Oenothera</i> sp.
Firewheel	Gaillardia pulchella
Five spot cornflower	Centaurea sp.
Foxglove	Digitialis purpurea
Godetia	Clarkia amoena
Grayhead coneflower	Echinacea pallida
Hard fescue	Festuca longifolium
Indian blanket	Gaillardia pulchella
Indian paintbrush	Castilleja coccinea
Jewels of Opar Johnny-jump-up	Talinum paniculatum
Lance-leaved coreopsis	Viola pedata Coreopsis lanceolata
Lemon mint	Monarda citriodora
Liatris	Liatris spicata
Lupine	Lupinus spp.
Moss verbena	Verbena tenuisecta
New England aster	Aster novi-anglae
Nodding catchfly pink	Silene sp.
Oxeye daisy	Chrysanthemum leucanthemum
Painted daisy Perennial lupine	Chrysanthemum carinatum
Plains coreopsis	Lupinus perennis Coreopsis tinctoria
Poor man's weather glass	20.00poid tirrotoria
Prairie aster	Machaeranthera tanacetifolia
Purple coneflower	Echinacea purpurea
Purpleknot toadflax	<i>Linaria</i> sp.
Queen Anne's lace	Daucus carota
Red ribbons	Clarkia concinna
Rocket larkspur Sainfoin	Delphinum ajacis
Sand bluebonnet	Conobrychis vicifolia Lupinus subcarnosus
Scarlet flax	Linum rubrum
Showy primrose	Oenothera speciosa
Siberian wallflower	Cheiranthus spp.
Spurred snapdragon	Linaria macrocanna
Stock	Matthiola maritima
Sulfur cosmos	Cosmos sulfureus
Sweet alyssum	Lobularia maritima
Sweet William	Dianthus barbatus
Texas bluebonnet Tickseed	Lupinus texensis
Tidy tips	Coreopsis lanceolate Layia platyglossa
Virginian stock	Malcolmia maritima
Wallflower	Cheiranthus allionii
White yarrow	Achillea millefolium
 	

Grasses

Grasses	
Common Name	Scientific Name
Bahiagrass	Paspalum notatum
Barnyardgrass	Echinochloa crus-galli
Bentgrass, Highland/Colonial	Agrostic tenuis
Bermudagrass	Cynodon dactylon
Bluegrass, Annual	Poa annua
Broadleaf Signalgrass	Brachiaria platyphylla
Brome, Downy	Bormus tectorum
Centipedegrass	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
, Nattaii , Sheep	Festuca ovina
, Tall	Festuca arundinacea
Foxtails, Giant	
	Setaria faberi
, Green , Yellow	Setaria viridis
	Setaria glauca
Goosegrass	Eleusine indica
Johnsongrass	Sorghum halepense
Junglerice	Echinochloa colonum
Lovegrass	Eragrostis cilianensis
Orchardgrass	Dactylis glomerata
Pigeon grass (See Foxtails)	
Panicum, Browntop	Panicum fasciculatum
, <u>F</u> all	Panicum dichotomiflorum
, Texas	Panicum texanum
Quackgrass	Agropyron repens
Red Sprangletop	Leptochloa filiformis
Ryegrass, Annual	Lolium multiflorum
Sandbur, Field	Cenchus incertus
Shattercane/Wildcane	Sorghum bicolor
Torpedograss	Panicum repens
Velvetgrass, German	Holcus mollis
Volunteer Barley	Hordeum vulgare
, Oats	Avena sativa
, Rye	Secale cereale
, Wheat	Tritium aestivum
Watergrass (See Barnyardgrass)	1 - 1 - 1 - 1
Wild Oats	Avena fatua
Wild Proso Millet	Panicum miliaceum
Wiregrass (See Bermudagrass)	
Wirestern Muhly	Muhlenbergia frondosa
Mitcharas	D

Panicum capillare

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Witchgrass



BASF Corporation P.O. Box 13528 Research Triangle Park, NC 27709









