

73917-3

03/04/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

73917-3

MAR 4 2003

NOTICE OF PESTICIDE:

Registration
 Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

ORYZA T&O

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

AgValue, Inc.
c/o Mandava Associates
1730 M Street, NW, Suite 906
Washington, D.C. 20036

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.

2. Make the following label changes before you release the product for shipment:

a. Revise the EPA Registration Number to read "EPA Reg. No. 73917-3"

Signature of Approving Official:

Date:

MAR 4 2003

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3-4-03

3. Within 12 months of the date of this notice submit the one year storage stability study (830.6317).

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller
Product Manager 23
Herbicide Branch
Registration Division (7505C)

Enclosure

3/15

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAR 4 2003

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
73917-3



ORYZA T&O

Specialty Herbicide

A selective preemergence surface-applied herbicide for control
of annual grasses and many broadleaf weeds in:

- Landscape Ornamentals
- Container Grown Ornamentals
- Field Grown Ornamentals
- Drainage Areas Under Shadehouse Benches
- Ornamental Bulbs
- Ground Covers/Perennials
- Christmas Tree Plantations
- Non-bearing fruit and nut trees
and non-bearing vineyards
- Noncropland and Industrial Sites
- Established Warm Season Turf
(including Bahiagrass,
Bermudagrass,
Buffalograss,
Centipedegrass,
St. Augustinegrass
and Zoysiagrass)
- Tall Fescue (warm season areas)

Active Ingredient:

oryzalin: 3,5-dinitro- <i>N</i> ⁴ , <i>N</i> ⁴ -dipropylsulfanilamide	40.4%
Inert Ingredients	59.6%
Total	100.0%

Contains four pounds of active ingredient per gallon.

EPA Reg. No. 73917-

EPA Est. No. 37429-GA-1
Net Contents: 2.5 Gallons

Keep Out of Reach of Children CAUTION PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)
For 24-Hour Emergency Contact, call CHEMTREC (1-800-424-9300)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Causes Eye Irritation • Prolonged or frequently repeated contact may cause allergic reactions in some individuals.
Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Mixers and loaders must wear a chemical-resistant apron in addition to other PPE.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse 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 Statements

When handlers use closed systems or enclosed cabs 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.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

Notice: Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" elsewhere on this label.**

In case of emergency endangering health or the environment involving this product, call 800-424-9300. If you wish to obtain additional product information, visit our web site at www.agvalue.net.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Shake Well Before Using.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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.

Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. **Exception:** If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Workers may enter treated areas without required PPE during the reentry interval following 1/2 to 1 inch of rainfall or irrigation, if they are performing tasks that do not involve contact with the soil subsurface; otherwise, 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
- Shoes plus socks

Non-Agricultural Use Requirements

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

Entry Restrictions for Non-WPS Uses: Keep all persons, children and pets out of treated area until sprays have dried.

Storage and Disposal

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

Storage: Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

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

Container Disposal: 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.

GENERAL INFORMATION

ORYZA T&O herbicide is a preemergence, surface-applied product for the control of many annual grasses and broadleaf weeds in ornamental plantings, bulbs, ground covers/perennials, established warm-season turfgrass, Christmas tree plantations, non-bearing trees and vines, and noncropland and industrial sites.

ORYZA T&O is orange in color and may cause temporary discoloration of sprayed surfaces. If this discoloration is undesirable, it may be altered by using a commercially available colorant such as Blazon or removed by spraying surface with water or washing with an industrial cleaner immediately after application. ORYZA T&O may also be applied with mulch colorants, such as Mulch Magic or Nu-Mulch.

Treatment of Plant Species Not Listed on the Label for ORYZA T&O

Users who wish to use ORYZA T&O on plant species not recommended on this label may determine the suitability for use by treating a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury during 30-60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from use of ORYZA T&O on plant species not recommended on this label.

Aerial Application: Do not aerially apply this product.

Chemigation: Do not apply this product through any type of irrigation system.

Do not graze or feed forage from treated areas to livestock.

Precaution: Avoid spray drift to non-target areas when applying ORYZA T&O. Spray drift may result in reduced emergence of non-target plants adjacent to the treated area. Poor weed control may result if directions are not followed. Over-application may result in crop injury or excessive soil residue.

Application**Soil Preparation**

ORYZA T&O controls weeds growing from seed. ORYZA T&O will not control emerged weeds. ORYZA T&O does not control established weeds, weeds growing from stolens, rhizomes, or root pieces. Therefore, areas to be treated should be free of emerged weeds. Weed residues, prunings, and trash should be thoroughly mixed into the soil or removed prior to treatment. In field applications, the soil should be in good tilth and free of clods at the time of application.

Ground Application: Apply ORYZA T&O as a directed spray to the soil surface or over the top of plants. Use only a properly calibrated, low-pressure, herbicide sprayer that will apply the spray uniformly. Use screens no finer than 50 mesh in nozzles and in-line strainers. Apply the appropriate rate of ORYZA T&O, as outlined in "Approved Uses" section of this label. In all cases, use sufficient water volume to obtain uniform coverage and deliver the desired rate of ORYZA T&O to the treated area. The volume of water used is not critical, as long as the desired rate of ORYZA T&O is delivered uniformly across the area treated. When calibrating, determine the volume of water delivered by the sprayer to a given area (1,000 sq ft, 1 acre, etc.). Then mix the desired rate of ORYZA T&O in the amount of water required to cover the entire area to be treated. As the amount of water used (spray volume) decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to ensure proper calibration and uniform application. Maintain continuous agitation from mixing through application. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application.

Hand Held or Backpack Sprayer Application: The amount of water used to apply ORYZA T&O herbicide is not critical, but should be sufficient for uniform coverage of the target area. Calibrate by determining the volume of water required to treat 1000 square feet. Use this calibration volume to determine the amount of water and ORYZA T&O herbicide needed to treat the target area (see the following calibration example).

Note: Sprayer calibration (volume of spray needed to treat 1,000 square feet) will vary with each individual operator.

Steps in Calibration:

1. Mark an area of 1,000 square feet (i.e. 20 by 50 feet, or 25 by 40 feet).
2. Place the sprayer on a level surface and add water noting the final level of water in the spray tank.
3. Spray the marked area with a sufficient volume of water to provide uniform coverage. Refill the sprayer to the same level as before measuring the amount of water added. The measured water added to the sprayer is the volume needed to cover 1,000 square feet.
4. Determine the application rate (fl oz/1000 sq ft) for ORYZA T&O from the "Approved Uses" section of this label.
5. To each volume of water used, as measured in step 3, add the amount of ORYZA T&O as determined in step 4.

Example: If the sprayer used 2 gallons of water to cover 1,000 square feet and the desired application rate of ORYZA T&O is 3 fluid oz/1,000 square feet, then you would add 3 fluid ounces of ORYZA T&O to every 2 gallons of water to be used.

Mixing Directions**Shake Well Before Using**

Precaution: Do not allow the spray mixture to siphon back into water source.

ORYZA T&O - Alone

Make sure spray tank is clean and use only clean water. Fill spray tank 1/2 - 3/4 full. Start agitation and add the required amount of ORYZA T&O. Continue agitation and finish filling the spray tank. Maintain continuous agitation until application is completed.

ORYZA T&O - Tank Mix Combinations

Prior to mixing, read and carefully follow all label instructions and precautions for each product added to the tank mixture. Vigorous, continuous agitation is required for all tank mixes of ORYZA T&O. Sparger pipe agitators generally provide the best agitation in spray tanks.

Mixing Order: Fill the tank 3/4 full with clean water. Start agitation and add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products.

Add different formulation types in the following order: dry flowables (DF); wettable powders (WP); ORYZA T&O and other aqueous suspensions (AS), flowables (F), and liquids (L); solutions (S); and emulsifiable concentrates (EC).

Continue agitation and finish filling the spray tank with clean water. Maintain agitation until application is completed. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be completely resuspended before spraying is continued. A sparger agitator is particularly useful for this purpose.

Premixing: When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). Adding the slurried material to the spray tank through a wetting screen of 20 or 35 mesh will help assure good initial dispersion.

Equipment Cleaning

If a buildup of material occurs on the walls of the spray tank, it should be removed between fillings by washing with soap and water and rinsing thoroughly. Tanks, lines, screens, and nozzles should be cleaned thoroughly after each use.

Activation and Cultivation

ORYZA T&O will remain stable on the soil surface up to 21 days following application. In the absence of timely rainfall, irrigation can be used to activate ORYZA T&O. A minimum of one-half (1/2) inch of rain or its equivalent in sprinkler irrigation is necessary to activate ORYZA T&O. If weeds begin to emerge due to lack of rainfall or irrigation, shallow cultivate 1-2 inches deep to destroy existing weeds, or remove them by hand. Shallow cultivation to a depth of 1-2 inches will enhance herbicidal effectiveness. Erratic weed control may result if ORYZA T&O is not activated by rainfall, irrigation, or cultivation within 21 days of application, or existing weeds have not been removed.

Weeds Controlled by ORYZA T&O**Annual Grasses:**

Common Name	Scientific Name	Common Name	Scientific Name
barley, little	<i>Hordeum pusillum</i>	jungerice	<i>Echinochloa colonum</i>
barnyardgrass (watergrass)	<i>Echinochloa crus-galli</i>	lovegrass, Mexican	<i>Eragrostis mexicana</i>
bluegrass, annual	<i>Poa annua</i>	lovegrass, orcutt	<i>Eragrostis orcuttiana</i>
crabgrass, large	<i>Digitaria sanguinalis</i>	oat, wild	<i>Avena fatua</i>
crabgrass, smooth	<i>Digitaria ischaemum</i>	panicum, browntop	<i>Panicum fasciculatum</i>
crowfootgrass	<i>Dactyloctenium aegyptium</i>	panicum, fall	<i>Panicum</i>
cupgrass, southwestern	<i>Eriochloa gracilis</i>	(spreading panicgrass)	<i>dichotomiflorum</i>
foxtail, bristlegrass	<i>Setaria magna</i>	panicum, Texas	<i>Panicum texanum</i>
foxtail, giant	<i>Setaria faberi</i>	(buffalograss)	
foxtail, green (pigeongrass)	<i>Setaria viridis</i>	(Coloradograss)	
foxtail, robust	<i>Setaria robusta</i>	ryegrass, Italian	<i>Cenchrus incertus</i>
foxtail, yellow	<i>Setaria glauca</i>	signalgrass (Brachiaria)	<i>Brachiaria</i> spp.
goosegrass (silver crabgrass)	<i>Eleusine indica</i>	sprangletop, red	<i>Leptochloa filiformis</i>
Johnsongrass (seedling only)	<i>Sorghum halepense</i>	witchgrass	<i>Panicum capillare</i>

Broadleaf Weeds

Common Name	Scientific Name	Common Name	Scientific Name
bittercress	<i>Cardamine oligosperma</i>	pigweed, tumble	<i>Amaranthus albus</i>
carpetweed	<i>Mollugo verticillata</i>	puncturevine	<i>Tribulus terrestris</i>
chickweed, common	<i>Stellaria media</i>	purslane, common	<i>Portulaca oleracea</i>
fiddleneck, coast	<i>Amsinckia intermedia</i>	pusley, Florida	<i>Richardia scabra</i>
filaree, redstem	<i>Erodium cicutarium</i>	(Florida purslane)	
filaree, whitestem	<i>Erodium moschatum</i>	(Mexican clover)	
groundsel, common	<i>Senecio vulgaris</i>	(pusley)	
henbit	<i>Lamium amplexicaule</i>	rocket, London	<i>Sisymbrium irio</i>
knotweed, prostrate	<i>Polygonum aviculare</i>	rockpurslane, desert	<i>Calandrinia ciliata</i>
lambsquarters	<i>Chenopodium album</i>	shepherdspurse	<i>Capsella bursa-pastoris</i>
pigweed, prostrate	<i>Amaranthus blitoides</i>	spurge, prostrate	<i>Euphorbia humistrata</i>
pigweed, redroot	<i>Amaranthus retroflexus</i>	woodsorrel, yellow	<i>Oxalis stricta</i>
pigweed, spring	<i>Amaranthus hybridus</i>		

Weeds Suppressed by ORYZA T&O

Control of the following weeds may be erratic, ranging from poor to excellent, depending upon soil temperature, time of germination, depth of seed in the soil, and amount and timing of soil moisture:

Common Name	Scientific Name	Common Name	Scientific Name
horseweed	<i>Conyza canadensis</i>	nightshade, black	<i>Solanum nigrum</i>
ladysthumb	<i>Polygonum persicaria</i>	ragweed, common	<i>Ambrosia artemisiifolia</i>
lettuce, prickly	<i>Lactuca serriola</i>	smartweed	<i>Polygonum pensylvanicum</i>
mallow, common	<i>Malva neglecta</i>	sowthistle, annual	<i>Sonchus oleraceus</i>
milkweed, climbing	<i>Sarcostemma cynanchoides</i>	spurge, spotted	<i>Euphorbia maculata</i>
morningglory	<i>Ipomoea</i> spp.	teaweed (prickly sida)	<i>Sida spinosa</i>
mustard, black	<i>Brassica nigra</i>	velvetleaf	<i>Abutilon theophrasti</i>
mustard, wild	<i>Brassica kaber</i>	wheat, volunteer	<i>Triticum</i> spp.

APPROVED USES

Ornamental Plantings

ORYZA T&O is recommended for use on certain landscape container- and field-grown established ornamental plants including: trees, shrubs, ground covers/perennials, flowers, non-bearing fruit and nut trees, non-bearing vineyards; and in the production of ornamental bulbs (See "Ornamental Bulbs" section for special use directions).

Broadcast Application Rates

Labeled Use Site	Length of Control	ORYZA T&O		Minimum time Between Applications (months)	Total Amount Allowed Per Year (qt/acre)
		(qt/acre)	(fl oz/1000 sq ft)		
Landscape Ornamentals	2 - 4 months	2	1.5	2	8
	3 - 6 months	3	2.2	4	12
	4 - 8 months	4	3	4	12
Field-grown and container-grown ornamentals	2 - 4 months	2	1.5	3	8
	3 - 6 months	3	2.2	3	9
	4 - 8 months	4	3	3	12

Tank Mix Combinations

Tank mix combinations of ORYZA T&O plus Roundup, and many other labeled herbicides may be used to control undesirable vegetation in ornamental areas. ORYZA T&O may also be tank mixed with Gallery* herbicide and applied preemergence to broaden the spectrum of broadleaf weed control in ornamental areas. Applied as directed, these tank mixes of ORYZA T&O will provide control of susceptible weed species listed on the respective labels. Refer to tank mix product labels for specific use directions, precautions, and limitations before use.

ORYZA T&O Plus Roundup: Tank mix combinations of ORYZA T&O plus Roundup are recommended to control existing undesirable vegetation. Applied as directed, ORYZA T&O plus Roundup will provide postemergence control of susceptible weed species listed on the label for Roundup and residual preemergence control of susceptible weed species listed on the label for ORYZA T&O. Refer to the label for Roundup for specific use directions, precautions, and limitations before use.

Precautions: Do not apply sprays containing Roundup over the top of ornamental plants.

Extreme care must be exercised to prevent sprays containing Roundup from coming in contact with foliage and stems of turfgrasses, trees, shrubs, or other desirable vegetation since severe damage or death may result. If spraying with Roundup in areas adjacent to desirable plants, use a shield to prevent spray from contacting foliage and stems of desirable plants.

Special Use Precautions:

Apply only to established plants that have been transplanted into their growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation.

Rooted liners should be removed from their original growing containers and placed in new containers at least two weeks prior to treatment or injury may occur.

To avoid possible injury, do not apply ORYZA T&O to:

- Nursery, forest, or Christmas tree: seedling beds, cutting beds, or transplant beds.
- Unrooted liners or cuttings that have been planted in pots for the first time.
- Pots less than four inches wide.
- Ground covers until they are established and well rooted.
- Ornamental plantings where there is likelihood of runoff onto lawn areas.
- Areas containing dichondra or cool season turfgrass species.

On container grown ornamentals where weed seed germination continues for extended periods of time, do not make repeat applications of ORYZA T&O for at least 90 days or crop injury may occur.

Applications of ORYZA T&O over the top of plants with newly forming buds may cause injury. In this situation a directed spray is recommended.

For soils treated with ORYZA T&O during the previous season, plant only the ornamental species listed on this label or injury may occur.

Ice Plant: When establishing unrooted ice plant on coarse-textured soils in landscape plantings, do not exceed the 2 qt per acre rate of ORYZA T&O or crop injury may occur.

Note: Injury on the following plant species have been observed following applications of ORYZA T&O and use is not recommended:

- Deutzia gracilis* (slender deutzia)
- Pseudotsuga menziesii* (Douglas-fir)
- Thuja occidentalis* 'Techny' (Techny arborvitae)
- Tsuga canadensis* (eastern hemlock)
- Begonia* spp. (begonia)
- Coleus hybridus* (coleus)

ORYZA T&O May be Used on the Following Established Plant Species: (Note: Limitations on recommended treatment methods).

Trees

Scientific Name	Common Name	Recommended Treatment Method	
		F = Field Grown	C = Container Grown
<i>Abies balsamea</i>	Fir, balsam	F	
<i>Abies concolor</i>	Fir, white	F	
<i>Abies fraseri</i>	Fir, fraser	F	
<i>Abies grandis</i>	Fir, grand	F	
<i>Abies veitchi</i>	Fir, Vietch	F	
<i>Abies lasiocarpa</i>	Fir, alpine	F	
<i>Abutilon hybridum</i>	Albus-flowering maple	F	
	Luteus-flowering maple	F	
	Roseus-flowering maple	F	
	Tangerine-flowering maple	F	
	Vesuvius red-flowering maple	F	
<i>Acer ginnmala</i>	Flame maple	F	
<i>Acer rubrum</i>	Red sunset maple	F	
<i>Acer saccharinum</i>	Silver maple	F	
<i>Acer</i> spp.	Maple	F	
<i>Alsophila australis</i>	Australian tree fern	C,F	
<i>Areacastrum romanzoffianum</i>	Queen palm	F	
<i>Betula nigra</i>	Birch, river	F	
<i>Betula papyrifera</i>	Paper birch	F	
<i>Betula pendula</i>	Birch, white	F	
<i>Bucida buceras</i>	Black olive	F	
<i>Carya</i> spp.	Pecan, ornamental	C,F	
<i>Cedrus, atlantica</i>	Atlas cedar	C,F	
<i>Cedrus deodara</i>	Deodar cedar	C,F	
<i>Ceratonla siliqua</i>	Carob	F	
<i>Cercidium floridum</i>	Palo Verde, blue	F	
<i>Cercis canadensis</i>	Redbud	C,F	
<i>Chamaecyparis lawsoniana</i>	Falsecypress, Lawson	F	
<i>Chamaecyparis obtusa</i>	Filicoides-fernspray cypress	F	
	Gracilis-slender Hinoki cypress	F	
<i>Chamaecyparis pisifera</i>	Sawara-false cypress	F	
	Squarosa-moss cypress	F	
<i>Chamaedorea cataractarum</i>	Cat Palm	F	
<i>Chamaedorea costaricana</i>	Palm	F	
<i>Chamaedorea elegans</i>	Parlor palm	F	
<i>Citrus</i> spp.	Citrus, ornamental	C,F	
<i>Cornus florida</i>	Dogwood, flowering	F	
<i>Cryptomeria japonica</i>	Cryptomeria, Japanese	C,F	
<i>Cupaniopsis anacardioides</i>	Carrot wood	F	
<i>Cupressus arizonica (glabra)</i>	Cypress, Arizona	C,F	
<i>Cupressus glabra</i>	Arizona cypress	C,F	
<i>Cupressocyparis leylandii</i>	Leyland cypress	C,F	
<i>Cupressus sempervirens</i>	Cypress, Italian	C,F	
<i>Dicksonia antarctica</i>	Tasmanian tree fern	C,F	

Trees (continued)

Scientific Name	Common Name	Recommended Treatment Method	
		F = Field Grown	C = Container Grown
<i>Elaeagnus angustifolia</i>	Russian Olive		C,F
<i>Eucalyptus camaldulensis</i>	Red gum eucalyptus		F
<i>Eucalyptus cinerea</i>	Eucalyptus, mealy		F
	Silver dollar eucalyptus		F
<i>Eucalyptus nicholii</i>	Eucalyptus, narrow-leaved		F
<i>Eucalyptus sideroxylon</i>	Eucalyptus, red ironbark		F
<i>Ficus benjamina</i>	Ficus		F
<i>Fraxinus</i> spp.	Ash		F
<i>Ginkgo biloba</i>	Ginkgo (Maidenhair tree)		C,F
<i>Giedtsia triacanthos</i>	Honey locust		F
<i>Heteromeles arbutiflora</i>	Toyon		F
<i>Juniperus virginiana</i>	Redcedar, Eastern		F
<i>Koelreuteria paniculata</i>	Goldenrain tree		F
<i>Liquidambar styraciflua</i>	Sweetgum, American		C,F
<i>Magnolia</i> spp.	Magnolia		F
<i>Malus</i> spp.	Crabapple		F
<i>Morus alba</i>	White mulberry		F
<i>Picea abies</i>	Pendula-weeping Norway spruce		F
	Repens-spreading Norway spruce		F
	Spruce, Norway		F
<i>Picea engelmanni</i>	Spruce, Englemann		F
<i>Picea glauca</i>	Spruce, white		F
	Conica-dwarf Alberta spruce		F
<i>Picea glauca conica</i>	Dwarf Alberta spruce		F
<i>Picea mariana</i>	Spruce, black		F
<i>Picea pungens</i>	Glaucolorado blue spruce		F
	Hoopsii-Hoop's blue spruce		F
	Koster-Koster blue spruce		F
	Spruce, Colorado		C,F
<i>Pinus aristata</i>	Bristlecone pine		F
<i>Pinus canariensis</i>	Canary Island pine		F
<i>Pinus contorta</i>	Shore pine, beach pine		F
<i>Pinus eldarica</i>	Eldarica pine		F
<i>Pinus halepensis</i>	Aleppo pine		C,F
<i>Pinus radiata</i>	Monterey pine		F
<i>Pinus</i> spp.	Pine		C,F
<i>Pinus strobus</i>	Eastern white pine		F
<i>Pinus sylvestris</i>	Scotch pine		F
<i>Pinus thunbergiana</i>	Japanese black pine		F
<i>Platanus occidentalis</i>	American sycamore		F
<i>Platanus racemosa</i>	California sycamore		F
<i>Podocarpus</i> spp.	Podocarpus		F
<i>Populus deltoides</i>	Cottonwood		F
	Cottonwood (grown for pulp)		F
<i>Prunus caroliniana</i>	Laurelcherry, Carolina		F
<i>Prunus glandulosa</i>	Dwarf flowering almond		C,F
<i>Prunus laurocerasus</i>	Laurelcherry, English		F
<i>Prunus mahaleb</i>	Cherry, Mahaleb		F
<i>Prunus yedoensis</i>	Yoshino flowering cherry		F

Trees (continued)

Scientific Name	Common Name	Recommended Treatment Method	
		F = Field Grown	
		C = Container Grown	
<i>Pyrus communis</i>	Pear	F	
<i>Quercus palustris</i>	Pin oak	F	
<i>Quercus phellos</i>	Willow oak	F	
<i>Quercus rubra</i>	Red oak	C,F	
<i>Quercus</i> spp.	Oak	C,F	
<i>Salix babylonica</i>	Babylon weeping willow	F	
	Corkscrew willow	F	
<i>Schinus molle</i>	California pepper tree	F	
<i>Sequoia sempervirens</i>	Redwood, coast	F	
<i>Sequoiadendron giganteum</i>	Giant sequoia	F	
<i>Swietenia mahogany</i>	Mahogany	F	
<i>Tabebuia caraiba</i>	Yellow tab	F	
<i>Tilia cordata</i>	Linden, little leaf	C,F	
<i>Ulmus parvifolia</i>	Chinese elm	F	
<i>Umbellularia californica</i>	California laurel	F	
<i>Washingtonia robusta</i>	Mexican fan palm	F	

Shrubs

Scientific Name	Common Name	Recommended Treatment Method	
		F = Field Grown	
		C = Container Grown	
<i>Abelia grandiflora</i>	Glossy abelia	F	
<i>Acacia redolens</i>	Acacia, prostrate	F	
<i>Agave americana</i>	Century plant	F	
<i>Agave macroculmis</i>	Agave	F	
<i>Anisodonteia hypomandarum</i>	Cape mallow	C,F	
<i>Arctostaphylos stanfordiana</i>	Manzanita, Stanford	F	
<i>Astilbe chinensis</i>	Astilbe/false spirea	C,F	
<i>Baccharis pilularis</i>	Coyotebush	F	
<i>Berberis thunbergii</i>	Aurea-golden Japanese barberry	C,F	
	Crimson pygmy barberry	C,F	
	Atropurea-redleaf Japanese barberry	C,F	
	Barberry, Japanese	C,F	
<i>Bougainvillea</i> spp.	Barbara Karst	F	
	California gold	F	
	Scarlet O'Hara	F	
	Texas dawn	F	
<i>Buxus microphylla</i>	Littleleaf boxwood	F	
<i>Buxus microphylla japonica</i>	Boxwood, Japanese	C,F	
<i>Buxus sempervirens</i>	Boxwood, common	C,F	
<i>Callistemon citrinus</i>	Bottlebrush, lemon	C,F	
<i>Cassia artemisioides</i>	Cassia, feathery	F	
<i>Ceanothus americanus</i>	Jerseytea, redroot	C,F	
<i>Ceanothus</i> spp.	Wild lilac	C,F	
<i>Chaenomeles japonica</i>	Flowering quince	C,F	
<i>Chamaecyparis obtusa</i>	Kosteri cypress	F	
	Nana-dwarf Hinoki cypress	F	
	Torulosa cypress	F	
<i>Chamaecyparis pisifera</i>	Squarrosa Minima cypress	F	
<i>Chamaecyparis pisifera</i> spp.	Filifera-thread cypress	F	
<i>Chrysalidocarpus lutescens</i>	Areca palm	F	
<i>Cleyera japonica</i>	Cleyera, Japanese	C,F	
<i>Coleonema pulchrum</i>	Pink breath of heaven	C,F	
<i>Cornus alba</i>	Sibirica-Siberian dogwood	F	
<i>Cornus kousa</i>	Dogwood, kousa	C,F	
<i>Cornus stolonifera</i>	Flaviramea-yellowtwig dogwood	F	

Shrubs (continued)

Scientific Name	Common Name	Recommended Treatment Method	
		F = Field Grown	
		C = Container Grown	
<i>Cotoneaster adpressus</i>	Praecox-early cotoneaster	F	
<i>Cotoneaster apiculatus</i>	Cotoneaster, cranberry	C,F	
<i>Cotoneaster buxifolius</i>	Cotoneaster, brightbead	F	
<i>Cotoneaster congestus</i>	Cotoneaster, Pyrenees	F	
<i>Cotoneaster dammeri</i>	Cotoneaster, bearberry	C,F	
<i>Cotoneaster himalayan</i>	Himalayan cotoneaster	F	
<i>Cotoneaster horizontalis</i>	Cotoneaster, rock	C,F	
<i>Cotoneaster lacteus</i>	Cotoneaster, parney	C,F	
<i>Cotoneaster microphyllus</i>	Cotoneaster, rockspray	F	
<i>Cotoneaster salicifolia</i>	Willowleaf cotoneaster	C,F	
<i>Cytisus praecox</i>	Hollandia-warminster broom	F	
<i>Cytisus scoparius</i>	Lena-Scotch broom	F	
<i>Dasylium wheeleri</i>	Sotol, desert spoon	F	
<i>Deutzia crenata</i>	Nakiana-dwarf deutzia	F	
<i>Dodonaea viscosa</i>	Hopseedbush, clammy Hopseed bush	F	
<i>Escallonia exoniensis</i>	Escallonia	C,F	
<i>Euonymus alata</i>	Euonymus, winged	F	
<i>Euonymus fortunei</i>	Canadale gold euonymus	C,F	
	Emerald'n gold euonymus	C,F	
	Euonymus, stringybark	C,F	
	Wintercreeper	C,F	
<i>Euonymus japonica</i>	Euonymus, evergreen	C,F	
	Silver king euonymus	F	
<i>Euonymus kiatschovica</i>	Spreading euonymus	F	
<i>Euonymus vegetus</i>	Bigleaf wintercreeper	C,F	
<i>Fatsyhedera lizei</i>	Fatsyhedera	C,F	
<i>Fatsyia japonica</i>	Japanese aralia	C,F	
<i>Felicia amelloides</i>	Blue marguerite	C,F	
<i>Forsythia intermedia</i>	Forsythia, border	F	
<i>Gardenia jasminoides</i>	Gardenia	C,F	
<i>Genista pilosa</i>	Woadwaxen	F	
<i>Hibiscus rosa-sinesis</i>	Ross Estey-hibiscus	F	
	Hibiscus, Chinese	F	
<i>Hibiscus syriacus</i>	Rose of Sharon, Red Bird	F	
	Rose of Sharon, Red Heart	F	
	Rose of Sharon, Woodbridge	F	
	Rose-of-Sharon (Shrubalthea)	F	
<i>Ilex aquifolium</i>	Balkans holly	F	
	Gold coast holly	F	
	Holly, English	F	
<i>Ilex aquipernyl</i>	San Jose holly	C,F	
<i>Ilex cornuta</i>	Dwarf Burford holly	C,F	
	Holly, Chinese	C,F	
<i>Ilex crenata</i>	Compacta-dwarf Japanese holly	C,F	
	Convexa holly	C,F	
	Helleri-Heller's Japanese holly	C,F	
	Holly, Japanese	C,F	
<i>Ilex glabra</i>	Nordica-inkberry holly	F	
<i>Ilex meserveae</i>	Blue boy holly	F	
	Blue girl holly	F	
	Ebony magic holly	F	
<i>Ilex vomitoria</i>	Nana-dwarf yaupon holly	C,F	
	Pendula-weeping yaupon holly	C,F	
	yaupon holly	C,F	
<i>Juniperus chinensis</i>	Media-gold juniper	C,F	
<i>Juniperus conferta</i>	Emerald sea shore juniper	F	

Shrubs (continued)

Scientific Name	Recommended Treatment Method	
	F = Field Grown	
	C = Container Grown	
Scientific Name	Common Name	
<i>Juniperus horizontalis</i>	Huntington blue juniper	C,F
	Wiltonii-blue carpet juniper	C,F
<i>Juniperus procumbens</i>	Nana-dwarf Japanese garden juniper	C,F
<i>Juniperus prostrata</i>	Prostrata juniper	C,F
<i>Juniperus sabina</i>	Broadmoor juniper	F
	Foemina-Hicks juniper	F
	Tamariscifolia-Tam juniper	F
<i>Juniperus scopulorum</i>	Emerald green juniper	F
<i>Juniperus spp.</i>	Juniper	C,F
<i>Juniperus squamata</i>	Blue juniper	F
	Blue star juniper	F
	Parsonii juniper	F
<i>Justicia brandegeana</i>	Shrimp plant	C,F
<i>Justicia spicigera</i>	Honeysuckle, Mexican	F
<i>Kalmia latifolia</i>	Laurel, mountain	F
<i>Lagerstroemia indica</i>	Crape myrtle	C,F
<i>Lavandula angustifolia</i>	English lavender	C,F
<i>Leucothoe axillaris</i>	Leucothoe, coast	F
<i>Leucothoe fontanesiana</i>	Leucothoe, dropping	F
<i>Ligustrum amurense</i>	Privet, amur	C,F
<i>Ligustrum japonicum</i>	Privet, Japanese yellow tip ligustrum	C,F
	Privet, glossy	C,F
<i>Ligustrum ovalifolium</i>	California privet	F
<i>Ligustrum texanum</i>	Howardi privet	F
	Wax leaf privet	F
<i>Ligustrum vicaryi</i>	Privet, golden Vicary golden privet	C,F
<i>Livistona chinensis</i>	Chinese fountain palm	F
<i>Lonicera fragrantissima</i>	Winter honeysuckle	F
<i>Lonicera periclymenum</i>	Flowering woodbine	F
	Serotina woodbine	F
<i>Lonicera sempervirens</i>	Trumpet honeysuckle	F
<i>Lorpetalum chinense</i>	(No common name)	C,F
<i>Mahonia aquifolium</i>	Oregon grape	F
<i>Myoporum parvifolium</i>	Myoporum, prostrate	F
<i>Myrtus communis</i>	Myrtle, true	C,F
<i>Nandina domestica</i>	Compacta-dwarf heavenly bamboo	C,F
	Harbour dwarf-heavenly bamboo	C,F
	Heavenly bamboo (Nandina)	C,F
	Nana compacta-heavenly bamboo	C,F
	Nana purpurea-heavenly bamboo	C,F
	Woods dwarf-heavenly bamboo	C,F
<i>Nerium oleander</i>	Hardy red oleander	C,F
	Oleander	C,F
	Ruby lace oleander	C,F
<i>Osmanthus heterophyllus</i>	Osmanthus, holly-leaf	F
<i>Pachysandra terminalis</i>	Japanese spurge	C,F
<i>Philadelphus spp.</i>	Mockorange	C,F
<i>Phoenix roelofenii</i>	Pigmy date palm	F
<i>Photinia fraseri</i>	Fraser's photinia	C,F
	Photinia	C,F

Shrubs (continued)

Scientific Name	Recommended Treatment Method	
	F = Field Grown	
	C = Container Grown	
Scientific Name	Common Name	
<i>Pieris japonica</i>	Lily-of-the-valley	F
	Snowdrift lily-of-the-valley	F
	Temple bells lily-of-the-valley	F
	Valley rose lily-of-the-valley	F
	Andromeda	C,F
<i>Pittosporum spp.</i>	Pittosporum	C,F
<i>Pittosporum tobira</i>	Green pittosporum	F
	Japanese pittosporum	F
	Tobira	F
	Wheeler's dwarf pittosporum	F
<i>Platycladus orientalis</i>	Arborvitae, Oriental	C,F
<i>Plumbago ariculata</i>	Blue cape plumbago	F
<i>Podocarpus macrophyllus</i>	Yewpine	C,F
<i>Potentilla fragiformis</i>	Cinquefoil	F
<i>Potentilla fruticosa</i>	Cinquefoil	C,F
<i>Protea neriifolia</i>	Protea	F
<i>Pyracantha coccinea</i>	Firethorn, scarlet	C,F
<i>Pyracantha fortuneana</i>	Lolendei Monrovia pyracantha	C,F
<i>Pyracantha fortuneana</i>	Monon pyracantha	C,F
	Red elf hybrid pyracantha	C,F
	Rutgers hybrid pyracantha	C,F
	Santa Cruz pyracantha	C,F
	Victory pyracantha	C,F
<i>Pyracantha skoidzumi</i>	Firethorn, formosa	C,F
<i>Pyracantha, fortuneana</i>	Firethorn	C,F
<i>Rhaphiolepis indica</i>	Enchantress-Moness rhaphiolepis	F
	Rhaphiolepis (India hawthorn)	C,F
	Springtime-Monme rhaphiolepis	F
<i>Rhaphiolepis ovata</i>	Roundleaf rhaphiolepis	F
<i>Rhipsalidopsis gaertneri</i>	Eastercactus	C,F
<i>Rhododendron calendulaceum</i>	Flame azalea	F
<i>Rhododendron campylocarpum</i>	Butterfly rhododendron	F
<i>Rhododendron carolinianum x daurium</i>	PJM rhododendron	F
<i>Rhododendron catawbiense</i>	Catawba album rhododendron	C,F
	Catawba rhododendron	C,F
	Lord Roberts rhododendron	C,F
	Rocket rhododendron	C,F
	Elizabeth rhododendron	F
<i>Rhododendron forrestii x griersonianum</i>	America rhododendron	F
<i>Rhododendron hybrid spp.</i>	English Roseum rhododendron	F
	Nova Zambia rhododendron	F
	Scintillation rhododendron	F
<i>Rhododendron impeditum</i>	Rhododendron	F
<i>Rhododendron indica</i>	Formosa azalea	C,F
	Waucubusa azalea	C,F
<i>Rhododendron kerume</i>	Coral bells azalea	C,F
	Hino crimson azalea	C,F
	Hino pink azalea	C,F
	Snow azalea	C,F

Shrubs (continued)

Scientific Name	Common Name	Recommended Treatment Method F = Field Grown C = Container Grown
<i>Rhododendron maximum</i>	Rhodie max (rosebay)	C,F
<i>Rhododendron mucronulatum</i>	Rhododendron	F
<i>Rhododendron satuski</i>	Gumpo pink azalea	F
	Higasa azalea	F
<i>Rhododendron</i> spp.	Azalea	C,F
	Rhododendron	C,F
<i>Rhododendron</i> spp. hybrids	Caror azalea	C,F
	Girard Roberta azalea	F
	Golden flare exbury azalea	F
<i>Rhus lancea</i>	Sumac, African	C,F
<i>Rosa rugosa</i>	Ramanas rose	F
<i>Rosmarinus officinalis</i>	Rosemary	F
<i>Senecio cineraria</i>	Dusty miller	C,F
<i>Spiraea vanhouttei</i>	Bridal wreath	F
<i>Syringa vulgaris</i>	Lilac, common	C,F
<i>Syzygium paniculata</i>	Brush cherry	C,F
<i>Taxus cuspidata</i>	Yew, Japanese	F
<i>Taxus media</i>	Yew	F
<i>Thuja occidentalis</i>	Arborvitae, American	C,F
	Emerald arborvitae	F
	Globosa-globe arborvitae	F
	Little giant-dwarf arborvitae	F
	Nigra-dark American arborvitae	F
	Pyramidalis arborvitae	F
	Rheingold arborvitae	F
	Woodwardii arborvitae	F
<i>Thuja orientalis</i>	Aureus nana-dwarf golden arborvitae	F
	Minima glauca-dwarf arborvitae	F
<i>Thuja plicata</i>	Red Cedar, Western	F
<i>Trachelospermum jasminoides</i>	Star jasmine, Chinese	F
<i>Veitchia merillii</i>	Christmas palm	F
<i>Viburnum carlesii</i>	Koreanspice viburnum	C,F
<i>Viburnum davidii</i>	David viburnum	F
<i>Viburnum japonicum</i>	Viburnum	F
<i>Viburnum judd (V X Judii)</i>	Viburnum	C,F
<i>Viburnum opulus sterile</i>	Common snowball viburnum	F
<i>Viburnum plicatum tomentosum</i>	Doublefile viburnum	F
<i>Viburnum setigerum</i>	Tea viburnum	F
<i>Viburnum suspensum</i>	Viburnum, Sandankwa	F
<i>Viburnum tinus</i>	Viburnum, Laurustinus	C,F
	compactum-spring bouquet viburnum	F
<i>Viburnum tinus compactum</i>	Spring bouquet viburnum	F
<i>Viburnum trilobum compactum</i>	Dwarf cranberry bush	F
<i>Viburnum x pragense</i>	Viburnum	F
<i>Weigela florida</i>	Bristol ruby weigela	F
	Java red weigela	F
	Minuet weigela	F
	Weigela, oldfashioned	F
<i>Xylosma congestum</i>	Xylosma	F
<i>Yucca elata</i>	Yucca, soaptree	C,F
<i>Yucca recurvifolia</i>	Yucca, pendulous	F

Groundcovers/Perennials

Scientific Name	Common Name	Recommended Treatment Method F = Field Grown C = Container Grown
<i>Agapanthus africanus</i>	Lily-of-the-Nile	C,F
<i>Ajuga</i> spp.	Carpet bugle	F
<i>Arctotheca calendula</i>	Cape weed	F
<i>Asparagus retrofractus</i>	(No common name)	C,F
<i>Asparagus varieegata</i>	Tree fern	C,F
<i>Aster novae-angliae</i>	New England aster	C,F
<i>Aster novi-belgii</i>	New York aster	C,F
<i>Althium nipponicum</i>	Japanese painter fern	C,F
<i>Brassica oleracea</i>	Wild cabbage	C,F
<i>Callistephus chinensis</i>	China aster	C,F
<i>Campanula elatines</i>	Bellflower	C,F
<i>Carpobrotus edulis</i>	Ice plant, largeleaf (see label)	F
<i>Clytostoma callistegioides</i>	Trumpet vine, violet	C,F
<i>Cortaderia selloana</i>	Pampas grass	F
<i>Cuphea hyssopifolia</i>	False Mexican heather	C,F
<i>Delosperma alba</i>	White iceplant	F
<i>Dietes vegeta</i>	Fortnight lily	C,F
<i>Digitalis mertonensis</i>	Foxglove	C,F
<i>Doronicum cordatum</i>	Leopard's bane	C,F
<i>Drosanthemum floribundum</i>	Trailing rosea iceplant	F
<i>Erianthus ravennae</i>	Hardy pampas grass	C,F
<i>Festuca ovina glauca</i>	Blue fescue	F
<i>Gaillardia grandiflora</i>	Blanket flower	C,F
<i>Gazania rigens leucolaena</i>	Gazania, trailing	C,F
<i>Gazania</i> spp.	Gazania	F
<i>Hedera canariensis</i>	Ivy, Algerian	F
<i>Hedera helix</i>	Ivy, English	F
<i>Heliotropium fragrans</i>	Common heliotrope	C,F
<i>Hemerocallis</i> spp.	Daylily	C,F
<i>Hosta lancifolia</i>	Albo-marginata hosta	C,F
<i>Hosta</i> spp.	Lily, plantain	C,F
<i>Heuchera micrantha</i>	Coral bells	C,F
<i>Hypericum</i> spp.	St. Johnswort	C,F
<i>Iberis sempervirens</i>	Evergreen candytuft	C,F
<i>Lampranthus spectabilis</i>	Trailing iceplant	F
<i>Leptospermum scapanium</i>	New Zealand teatree/Manuka	C,F
<i>Limonium perezii</i>	Statice/Sea lavender	C,F
<i>Liriope gigantea</i>	White lily turf	F
<i>Liriope muscari</i>	Lilac beauty lily turf	C,F
	Majestic lily turf	C,F
	Monroe white lily turf	C,F
	Silvery sunproof lily turf	C,F
	Variiegated liriope lily turf	C,F
	Big blue lily turf	C,F
<i>Lobelia erinus</i>	Edging lobelia	C,F
<i>Lonicera japonica</i>	Honeysuckle, Japanese	F
<i>Mesembryanthemum crystallinum</i>	Ice plant (see label)	F
<i>Ophiopogon japonicus</i>	Mondo grass	F
<i>Osteospermum fruticosum</i>	Daisy, trailing African	F
<i>Pachysandra terminalis</i>	Japanese spurge	F
<i>Pennisetum setaceum</i>	Fountaingrass	C,F
<i>Polystichum polyblepharum</i>	Tassel fern	C,F
<i>Sedum brevifolium</i>	Stonecrop	C,F
<i>Sedum kamtschaticum</i>	Stonecrop	C,F
<i>Sedum spurium</i>	Stonecrop, tworow	C,F
<i>Tulbaghia violacea</i>	Society garlic	C,F
<i>Verbena rigida</i>	Veined verbena	C,F
<i>Veronica</i> spp.	Speedwell	C,F
<i>Vinca major</i>	Periwinkle, bigleaf	F
<i>Vinca minor</i>	Periwinkle, dwarf	F

Flowers

Recommended Treatment Method
F = Field Grown
C = Container Grown

Scientific Name	Common Name	
<i>Achillea</i> spp.	Yarrow	C,F
<i>Antirrhinum majus</i>	Snapdragon	F
<i>Caladium bicolor</i>	Caladium, fancy leafed	F
<i>Chrysanthemum</i> spp.	Chrysanthemum	C,F
<i>Caladium bicolor</i>	Fancy-leafed caladium	F
<i>Coreopsis lanceolata</i>	Coreopsis	F
<i>Coreopsis verticulata</i>	Threadleaf coreopsis	C,F
<i>Dianthus barbatus</i>	Sweet William	F
<i>Dianthus gratianopolitanus</i>	Cheddar pink	C,F
<i>Dicentra spectabilis</i>	Bleeding heart	C,F
<i>Dimorphotheca</i> spp.	Marigold, cape	F
<i>Echinacea purpurea</i>	Coneflower, purple	C,F
<i>Evolvulus nuttallianus</i>	Blue daze	C,F
<i>Geum quellyon</i>	Geum	F
<i>Gladiolus hortulanus</i>	Gladiolus	F
<i>Gypsophila paniculata</i>	Baby's breath	F
<i>Impatiens wallerana</i>	Impatiens (Busy lizzie)	F
<i>Iris</i> spp.	Iris, bearded	F
<i>Liatris spicata</i>	Blazing star	C,F
<i>Pelargonium hortorum</i>	Geranium	F
<i>Petunia</i> spp.	Petunia	C,F
<i>Portulaca grandiflora</i>	Moss, rose	F
<i>Ranunculus asiaticus</i>	Ranunculus, Persian	F
<i>Rosa</i> spp.	Rose	F
<i>Rudbeckia fulgida</i>	Blackeyed susan	C,F
<i>Rudbeckia hirta</i>	Daisy, gloriosa (black-eyed Susan)	F
<i>Salvia</i> spp.	Salvia (Sage)	F
<i>Stokesia laevis</i>	Aster, stokes	F
<i>Strelitzia reginae</i>	Bird of paradise	F
<i>Tagetes</i> spp.	Marigold	F
<i>Viola wittrockiana</i>	Pansy	F
<i>Zinnia elegans</i>	Zinnia, common	F

Non-bearing Trees and Vines

Recommended Treatment Method
F = Field Grown
C = Container Grown

almond	F
apple	F
apricot	F
avocado	F
blackberry	F
blueberry	F
boysenberry	F
cherry, sour	F
cherry, sweet	F
currant	F
dewberry	F
elderberry	F
fig	F
filbert	F
gooseberry	F
grape, American	F
grape, European	F
grapefruit	F
kiwi	F
Kumquat	C,F
lemon	F
loganberry	F
macadamia nut	F
nectarine	F
olive	F
orange	C,F
peach	F
pear	F
pecan	C,F
pistachio	F
plum	F
pomegranate	F
prune	F
raspberry	F
walnut, black	F
walnut, English	F

*Non-bearing plants are defined as those that will not bear fruit for at least one year after treatment.

Ornamental Bulbs

ORYZA T&O may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth, and tulip. Apply ORYZA T&O to the soil surface 2-4 weeks after planting, but prior to the emergence of annual weeds. For fall planted bulbs, apply ORYZA T&O again in late winter or early spring to weed-free soil surfaces.

Broadcast Application Rates

Time of Application	Soil Texture	ORYZA T&O		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (qt/acre)
		(qt/acre)	(fl oz/ 1000 sq ft)		
Fall	Coarse	0.75	0.5	3	1.5
Fall	Medium and Fine	1.5	1.0	3	2.25
Feb. - March	All Soil Textures	0.75	0.5	3	2.25

Special Use Precautions:

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch.
 Do not apply to gladioli corms prior to emergence or less than one (1) inch in diameter.

Shadehouse Areas

ORYZA T&O may be applied to drainage areas under benches in open shadehouse-type structures where the natural flow of air is unimpeded. Do not apply in enclosed greenhouses or in enclosed shadehouse-type structures. Do not apply within 3 weeks prior to enclosure of greenhouse or poly-type structures.

Christmas Tree Plantations

ORYZA T&O Alone

Apply ORYZA T&O as a directed spray to the soil surface or as an overtop spray to established plantings of field grown Christmas tree species, including fir (*Abies* spp.), pine (*Pinus* spp.), and spruce (*Picea* spp.). Follow all instructions provided in the "General Information" section of this label.

Broadcast Application Rate

Length of Control	ORYZA T&O		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (qt/acre)
	(qt/acre)	(fl oz/1000 sq ft)		
2 - 4 months	2	1.5	2	8
4 - 8 months	4	3	2	8

Tank Mix Combinations

Tank mix combinations of ORYZA T&O plus other labeled herbicides may be used as directed or overtop sprays in established Christmas tree plantings. When applied according to use directions, these tank mixes will provide control of susceptible weed species listed on the respective product labels. Refer to tank mix product labels for specific use directions, precautions, and limitations before use.

ORYZA T&O Plus Roundup: Apply tank mix combinations of ORYZA T&O plus Roundup only as directed sprays in Christmas tree plantings. When applied according to use directions, ORYZA T&O plus Roundup will provide postemergence control of susceptible weed species listed on the label for Roundup and residual preemergence control of susceptible weed species listed on the label for ORYZA T&O. Refer to the label for Roundup for specific use directions, precautions, and limitations before use.

Special Use Precautions:

Do not apply to Douglas-fir (*Pseudotsuga menziesii*). Do not apply to seedbeds or seeding transplant beds. Apply only to established plants that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation.

Noncropland Areas and Industrial Sites

Noncropland Areas - Tank Mix Combinations

Tank mix combinations of ORYZA T&O plus Roundup and many other labeled herbicides may be used to control undesirable vegetation in noncropland areas such as roadsides, rights-of-way, etc. When applied according to use directions, these tank mixes will provide control of susceptible weed species listed on the respective product labels. Refer to tank mix product labels for specific use directions, precautions, and limitations before use.

Broadcast Application Rates

Length of Control	ORYZA T&O		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (qt/acre)
	(qt/acre)	(fl oz/1000 sq ft)		
2 - 4 months	2	1.5	2	6
4 - 8 months	4	3	4	12
8 - 12 months	6	4.5	8	12

Industrial Sites - Tank Mix Combinations

Tank mix combinations of ORYZA T&O plus Roundup, Spike* herbicide, and many other labeled herbicides may be used as overtop sprays to control existing vegetation on industrial sites such as utility substations, highway guard rails, sign posts, and delineators. When applied according to use directions, these tank mixes will provide control of susceptible weed species listed on the respective product labels. Refer to tank mix product labels for specific use directions, precautions, and limitation before use.

Warm Season Turfgrasses

ORYZA T&O may be applied as a preemergence treatment for control of annual grasses and certain broadleaf weeds in established warm season turf including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, zoysiagrass, and established tall fescue growing in warm season areas. Established turf is defined as a dense turf having a well-anchored root system and healthy, vigorous top growth. Use ORYZA T&O only as a part of a total turf management program that includes good fertilization practices.

ORYZA T&O may be tank mixed with Gallery* herbicide (California registration pending) and applied preemergence to broaden the spectrum of broadleaf weed control in warm season turf. Refer to the label for Gallery for specific use directions, precautions, and limitations before use.

Any cultural practices that disturb the soil, such as aerification or verticutting, should be done prior to application of ORYZA T&O.

ORYZA T&O will not control emerged weeds. Successful preemergence control of weeds listed on this label requires that ORYZA T&O be applied prior to weed germination and be activated by at least one-half (1/2) inch of rainfall or irrigation within 21 days of application.

ORYZA T&O may injure turf that is not well established or is stressed or weakened due to unfavorable winter climatic conditions, drought, nematodes, or other factors which damage or weaken turf root systems. Apply ORYZA T&O only to healthy, well-established turf that has a well-anchored root system.

Do not apply ORYZA T&O in the spring or early summer to tall fescue turfgrass reseeded the previous fall. In such cases, apply Balan® 2.5G granular herbicide at 60-80 pounds per acre in early summer (Round 1) and ORYZA T&O at 1.5 quarts per acre approximately eight weeks later (Round 2). Do not apply ORYZA T&O at the single application rate (2 quarts per acre) to established tall fescue; in such cases, apply 1.5 quarts per acre of ORYZA T&O in an initial application, followed by a second application of 1.5 quarts per acre 8-10 weeks later.

In bermudagrass areas that have been overseeded with winter grasses, a spring application of ORYZA T&O will thin the overseeded grasses.

Annual Grasses Controlled by ORYZA T&O

Summer Annuals:

Common Name	Scientific Name
barnyardgrass (watergrass)	<i>Echinochloa crus-galli</i>
crabgrass, large	<i>Digitaria sanguinalis</i>
crabgrass, smooth	<i>Digitaria ischaemum</i>
crabgrass	<i>Digitaria spp.</i>
crowfootgrass	<i>Dactyloctenium aegyptium</i>
foxtail, bristlegrass	<i>Setaria magna</i>
foxtail, giant	<i>Setaria faberi</i>
foxtail, green (pigeongrass)	<i>Setaria viridis</i>
foxtail, robust	<i>Setaria robusta</i>
foxtail, yellow	<i>Setaria glauca</i>
goosegrass (silver crabgrass)	<i>Elyusine indica</i>
Johnsongrass (seedling only)	<i>Sorghum halepense</i>
ryegrass, Italian	<i>Lolium multiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>

Winter Annuals:

Common Name	Scientific Name
bluegrass, annual	<i>Poa annua</i>

Annual Broadleaf Weeds Controlled by ORYZA T&O

Summer Annuals:

Common Name	Scientific Name
carpetweed	<i>Mollugo verticillata</i>
knotweed, prostrate	<i>Polygonum aviculare</i>
purslane, common	<i>Portulaca oleracea</i>

Winter Annuals:

Common Name	Scientific Name
chickweed, common	<i>Stellaria media</i>
henbit	<i>Lamium amplexicaule</i>

Broadleaf Weeds Suppressed by ORYZA T&O

Common Name	Scientific Name
groundsel, common	<i>Senecio vulgaris</i>
spurge, prostrate	<i>Euphorbia humistrata</i>
woodsorrel, yellow	<i>Oxalis stricta</i>

Application Rates, Frequency, and Timing of Application

ORYZA T&O can be applied in the spring for summer annual grass and broadleaf weed control, and in the fall for annual bluegrass (*Poa annua*) and winter annual broadleaf weed control.

Broadcast Application Rates (Warm Season Turfgrasses)

Use Area	ORYZA T&O		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (qt/acre)
	(qt/acre)	(fl oz/1000 sq ft)		
All, except Florida	1.5	1	3	6
Florida	2	1.5	3	6
Florida	1.5	1	3	4.5

1. Summer Annual Grasses and Broadleaf Weeds

Single Application Program: Apply 2 quarts per acre of ORYZA T&O in late winter or early spring, prior to the onset of conditions favorable for annual weed germination.

Split Application Program: As an alternative to a single application program, ORYZA T&O may be applied in a split application. This program is desirable when the initial application is made well in advance of weed germination and where weed control is desired for a longer period of time. Apply 1.5 quarts per acre of ORYZA T&O in an initial application, followed by a second application of 1.5 quarts per acre 8-10 weeks later.

The second treatment of the split application may follow application of a different preemergence grass herbicide in place of the initial application of ORYZA T&O.

2. Annual Bluegrass (*Poa annua*) and Winter Annual Broadleaf Weeds

In areas of heavy annual bluegrass infestation, its elimination will result in temporary thinning of turfgrass cover. Proper fertilization, irrigation, and soil incorporated reseeding should be employed to speed the restoration of desirable turfgrass cover in areas previously occupied by annual bluegrass (see section on reseeding).

Apply ORYZA T&O as a preemergence treatment in late summer or early fall, prior to the expected germination period for annual bluegrass and winter annual broadleaf weeds. If annual bluegrass infestation is severe and its elimination will result in thinning of turfgrass cover, apply ORYZA T&O at 1.5 quarts per acre. If thinning of turfgrass cover is not a potential problem, ORYZA T&O may be applied at 2 quarts per acre.

Weed Control in Florida

In Florida, apply 1.5 quarts per acre of ORYZA T&O three times per year, or every 90-100 days, in the fall, early spring, and early summer. Do not apply more than 1.5 quarts per acre of ORYZA T&O in any single application.

Application Equipment

Apply ORYZA T&O evenly over the turfgrass area. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application. For best results, use application equipment designed to uniformly broadcast liquid herbicides. Calibrate application equipment prior to use, according to manufacturer's directions. Check equipment frequently to make sure it is working properly and distributing spray uniformly.

Reseeding

Herbicides that control annual weeds may also affect establishment of desirable turfgrass seedlings. Reseeding should be delayed for at least 90-120 days following application of ORYZA T&O. When reseeding, it is essential that proper cultural practices such as soil cultivation and seedbed preparation, irrigation, and fertilization be followed. For satisfactory reseeding results following use of ORYZA T&O, the seeding rate should be increased and equipment designed to place seed in full contact with soil (such as the Rogers Aero Seeder) should be employed.

Special Use Precautions:

To avoid possible injury, do not apply ORYZA T&O to:

- Cool season turfgrass species.
- Golf course putting greens and tees or lawns containing dichondra or cool season turfgrass species.
- Newly sprigged or sodded areas of bermudagrass, St. Augustinegrass, centipedegrass, or zoysiagrass until these turfgrasses are well established and have well-anchored root systems.
- Newly hydromulched areas of bermudagrass until such areas are well established.
- Bermudagrass variety "Sun Turf" when tank mixed with atrazine.

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