

2217-854

03-11-2004

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval Expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

 Registration  
 Amendment  
 Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 2217-854	2. EPA Product Manager Joanne I. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) EH-1392 Herbicide	PM# Product Manager—Team 23	
5. Name and Address of Applicant (Include ZIP Code) PBI/Gordon Corporation Post Office Box 014090 Kansas City, Missouri 64101 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  MAR 11 2004
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

**NOTIFICATION: Minor revisions to Directions for Use per Pesticide Registration Notice (PRN) 98-10:**

- We ask to list advertising claims that may be presented on the container labeling of supplemental registrants. Please refer to page 7 of the labeling.

One copy of the proposed labeling is enclosed for your review.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under Section 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Craig Martens	Title Manager of Regulatory Services	Telephone No. (Include Area Code) 816-460-6287
2. Signature 		E. Date Application Received (Stamped)
3. Title Manager of Regulatory Services		
4. Typed Name Craig Martens	5. Date March 3, 2004	
<p><b>Certification</b></p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>		

# EH1392 HERBICIDE

- READY TO USE
- WATER BASED FORMULATION

**ACTIVE INGREDIENT:**

Fluazifop-P-butyl: Butyl(R)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoate .....	0.17%
INERT INGREDIENTS:.....	99.83%
TOTAL	100.00%

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

See additional Precautionary Statements including First Aid.

- SHAKE WELL BEFORE USING -

**NET CONTENTS: 10 Fluid Ounces; 1 Pint (16 fl.oz.); 30 Fluid Ounces; 1 U.S. Quart (32 fl.oz.); 2 U.S. Quarts (64 fl.oz.); or 1 Gallon (128 fl.oz.)**

AP030404  
 EPA Reg. No. 2217-854  
 EPA EST. NO. 2217-KS-1  
 MANUFACTURED BY:





**READ THE ENTIRE LABEL FIRST. OBSERVE ALL PRECAUTIONS AND FOLLOW DIRECTIONS CAREFULLY.**

**PRECAUTIONARY STATEMENTS**

**Hazards To Humans and Domestic Animals**

**CAUTION:** Harmful if absorbed through skin. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• 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 eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

**ENVIRONMENTAL HAZARDS:**

This product is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment washwater. Do not apply when weather conditions favor drift from target area.

**DIRECTIONS FOR USE**

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

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

**STORAGE AND DISPOSAL**

**STORAGE:** Keep container closed when not in use. Do not store near food or feed.

**CONTAINER DISPOSAL:**

**If empty:** Do not reuse this container. Place in trash or offer for recycling if available.

**If partially filled:** Call your local solid waste agency or toll free number (1-800-CLEANUP) for disposal instructions. Never place unused product down any indoor or outdoor drain.

**QUICK FACTS:**

EH1392 Herbicide can be used to control annual and perennial grass weeds in plantings of ornamentals, trees, shrubs and groundcovers. EH1392 Herbicide can be used during site preparation before transplanting, and in newly transplanted and established plantings of ornamentals, trees, shrubs, and groundcovers.

- EH1392 Herbicide is a ready to use systemic herbicide intended for annual and perennial grasses with post emergent application. EH1392 Herbicide does not control broadleaf weeds, sedges, and nutsedge (yellow and purple) and does not provide residual control.

**CONTROL SYMPTOMS:**

EH1392 Herbicide is a systemic herbicide which moves from the treated foliage into the shoots, roots, rhizomes, stolons, and growing points of treated grass weeds. EH1392 Herbicide provides excellent control of many grasses -- roots and all.

Growth of treated grass weeds stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and eventual death to the treated grass plant. Symptoms are generally observed within one to three weeks, depending on grass weed species and environmental conditions.

**WHERE TO USE:**

- Newly and established plantings of flowers, ornamentals, trees, shrubs, and groundcovers.
- To control grasses in landscapes, planting beds, established in urban recreational and residential areas.
- For use near ornamental and/or shade trees, ornamental woody shrubs, and vines, and ornamental herbaceous plants.
- To control undesirable grasses near and around broadleaf shrubs, broadleaf trees, groundcovers, herbaceous plants, needled evergreens, palms, cactus, and certain grasses.

**WHEN TO USE:**

- Post emergent applications of EH1392 Herbicide to young, seedling grasses will be more effective than applications to older, mature, or well-established grasses.
- Apply EH1392 Herbicide to actively growing grasses before they exceed the recommended growth stages shown below in Table 1.

**Table 1. Annual and perennial grasses controlled by EH1392 Herbicide.**

ANNUALS	
Grass Species	Growth Stage
Barnyardgrass	2 to 8 inches tall, before tillering and/or heading.
Broadleaf signalgrass	
Crabgrass, large	
Crabgrass, smooth	
Fall panicum	
Field sandbur	
Foxtail, giant	
Foxtail, green	
Foxtail, yellow	
Goosegrass	
Guineagrass, seedling	
Itchgrass	
Prairie cupgrass	
Shattercane	
Southern sandbur	
Southwestern cupgrass	
Texas panicum	
Witchgrass	
Woolly cupgrass	

PERENNIALS	
Bahiagrass	
Bentgrass	
Bermudagrass	4 to 8 inch runners
Centipedegrass	
Dallisgrass	
Guineagrass	6 to 12 inches tall before seedhead initiation
Johnsongrass	8 to 18 inches tall and before boot stage
Kentucky bluegrass	
Nimblewill	
Orchardgrass	
Perennial ryegrass	
Quackgrass	6 to 10 inches
St. Augustinegrass	
Tall fescue	
Torpedograss	3 to 6 inches tall
Wirestem muhly	4 to 12 inches tall before seedhead initiation

#### HOW TO APPLY:

- EH1392 Herbicide may be applied over-the-top and around ornamental plants as a directed spray.
- Spray to obtain thorough coverage of the target weeds or grass blades. Over-the-top applications are defined as spray patterns delivered to the upper portions of the established ornamentals and target weeds.
- Over-the-top applications are recommended for the certain ornamentals listed in Table 2. Spray to ensure uniform coverage of the target weeds.
- Directed sprays are spot treatments applied to target weeds established near the base of the ornamentals while avoiding spray contact on the leaves of the ornamentals. Spray to ensure uniform coverage of target weeds.
- Directed spray applications are necessary to minimize the damage or injury of certain ornamentals.
- Directed spray applications are recommended for the certain ornamentals listed in Table 2.
- There is a possibility of temporary discoloration, phytotoxicity (damage or injury) to all plants listed on this label when used as directed with over-the-top applications and directed spray applications. It is impossible to test every species and variety or cultivar of ornamental or plant under all conditions. Plant tolerance of pesticides vary as conditions vary. Plant tolerance of EH1392 Herbicide at label rates has been found to be acceptable for the indicated species.

#### FOR THE BEST RESULTS:

- Apply when weeds are young and actively growing. Repeat treatments may be necessary to provide full season control.
- Avoid drift of spray mist (contact) onto vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants. Do not apply in windy conditions.
- Repeat treatments may be needed for full season control.
- Certain hard to kill grasses including established bermudagrass, dallisgrass, quackgrass, and St. Augustinegrass may require additional applications at 7 - 14 day intervals.
- Avoid spray drift to all non-target areas and plants. Ornamental lawn grasses are highly susceptible to EH1392 Herbicide.
- Do not apply to trees, vines, ornamentals that will be harvested for food within one year after application.

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EH1392 Herbicide may be applied to broadleaf shrubs, broadleaf trees, groundcovers, herbaceous plants, needled evergreens, bedding plants, and certain grasses including those species listed in Table 2 and the Appendix.

NOTE: The Appendix includes a broad spectrum of families, genera and species. Supplemental registrants may select plant species based upon the hardiness zones, geographical areas, or marketing areas and present various species on their retail container labeling.

**TABLE 2. Plants that are favorites for home landscapes or ornamental species that are widely planted in landscapes.**

<b>Application Methods: A = Over the Top; B = Directed spray</b>			
<b>BROADLEAF SHRUBS</b>			
Althea, Rose of Sharon	A	Lilac	A
Azalea	B	Mock orange	A
Azalea, Glossy abelia	A	Photinia	A
Camellia	A	Pyracantha or firethorn	A
Cinquefoil	B	Rhododendron	B
Boxwood, common	A	Rose	A
Cotoneaster	A	Spirea or Bridal wreath	A
Forsythia	A	Viburnum	A
Japanese privet	B	Weigela	A
<b>BROADLEAF TREES</b>			
Ash	B	Maple	B
Beech	B	Maple - Japanese maple, Norway maple,	B
Birch	B	Red maple, Silver maple	
Bradford pear, Ornamental pear	B	Moutain Ash	B
Brazillian peppertree	B	Oak	B
Cherry - Carolina cherry, Flowering cherry,	B	Pear (flowering)	B
Ornamental cherry		Plum (flowering)	B
Crab apple	B	Quince (flowering)	B
Dogwood - American dogwood, Cornelian	B	Red bud	B
cherry dogwood, Flowering dogwood, Red		Sweet gum	B
Twig dogwood		Tulip Tree	B
Elm	B	Willow	B
Magnolia	B	Xylosma	B
<b>GROUNDCOVERS</b>			
Ajuga, variegated; Carpet bugleweed	B	Juniper - Chinese juniper, Creeping juniper,	B
Bugleweed	B	Japgarden juniper, Savin juniper	
Crape myrtle	A	Liriope	A
Ivy - Algerian ivy, English ivy, Hahn's ivy	A	Myrtle, dwarf periwinkle	A
Japanese honeysuckle	B	Periwinkle	A
Japanese pachysandra, Japanese spurge	A	Sedum	A
<b>HERBACEOUS PLANTS</b>			
Coleus	A	Marigold	A
Euonymus	A	Petunia	A
Gazania	A	Salvia	A
Geranium	A	Shasta daisy	A
Gladiolus	B	Snapdragon	A
Hosta, variegated	A	Sweet William	A
Iris	A	Zinnia	A
Liriope	A		

NEEDED EVERGREENS			
Arborvitae, American	B	Pine - Austrian pine/Black pine, Dwarf	B
Cedar - Red cedar, Eastern red cedar, White cedar	B	Swiss mountain pine, Eastern white pine, Scotch pine	
Fir - Concolor fir, Douglas fir, Fraser fir, Noble fir	B	Spruce - Blue spruce, Norway spruce, Serbian spruce, White spruce	B
Juniper - Creeping juniper, Japgarden juniper, Savin juniper	B	Yew - Anglojap yew, Dense yew, Japanese yew, Southern yew	B
GRASSES			
Green fountain grass	B	Mondo grass	B
Red fountain grass	B		

**LIMITED WARRANTY AND DISCLAIMER.** The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

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**APPENDIX**


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**I. Additional retail container sizes.**

- 7.5 fluid ounces
- 15 fluid ounces

**II. Advertising claims that may be used by supplemental registrants. These claims may be presented on the retail container label or on the labeling accompanying the product.**

- Kills Bermudagrass in flower and shrub beds...without harming most desirable plants.
- Kills unwanted grass in flower and shrub beds...without harming desirable plants.
- Takes bermudagrass out of flowers and shrub beds.
- Spray over-the-top of more than 400 plants, when used as directed in flower beds, shrubs, and around trees.

**ORNAMENTALS:**

Ornamentals that may be treated with EH1392 Herbicide are presented in Tables 1 - 7. Plants that are favorites for home landscapes or widely planted in landscapes are presented in bold-face type.

**APPLICATION METHODS: A = Over the Top; B = Directed spray**

**TABLE 1. BROADLEAF SHRUBS**

Common Name	Scientific Name	Application Method
Glossy abelia	<i>Abelia grandiflora</i>	A
Jacob's coat, Copperleaf	<i>Acalypha godseffiana</i>	B
Aloe	<i>Aloe vera</i>	A
Aloe	<i>Aloe zanzibarica</i>	A
Barbados aloe	<i>Aloe barbadensis</i>	A
False spirea, Astilbe	<i>Astilbe x arendsii</i>	A
Saltbush, Orach	<i>Atriplex sp.</i>	A
Japanese laurel	<i>Aucuba japonica</i> <i>Caesalpinia cacalaco</i>	A
Desert broom, Chaparral broom	<i>Baccharis pilularis</i>	B
Japanese barberry	<i>Berberis thunbergii</i>	A
Mentor barberry	<i>Berberis mentorensis</i>	A
Cats claw, Yellow trumpet	<i>Bignonia Tweediana</i>	B
Bougainvillea	<i>Bougainvillea sp.</i>	B
Common boxwood	<i>Buxus sempervirens</i>	A
Japanese boxwood	<i>Buxus microphylla</i>	A
Korean boxwood	<i>Buxus microphylla</i>	A
Bird of paradise	<i>Caesalpinia Gilliesii</i>	A
Bottle-brush	<i>Callistemon lanceolatus</i>	A
Camellia	<i>Camellia japonica</i>	A
Sasanqua camellia	<i>Camellia sasanqua</i>	A
Natal plum	<i>Carissa grandiflora</i>	A
African cassia	<i>Cassia didymobotrya</i>	A
Feathery cassia, Wormwood	<i>Cassia artemisioides</i>	A
Senna	<i>Cassia bicapsularis</i>	B
Grape ivy, Treebine	<i>Cissus rhombifolia</i>	A
Pagoda flower	<i>Clerodendrum speciosum</i>	A
Cleyera	<i>Cleyera spp.</i>	A



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TABLE 1. BROADLEAF SHRUBS

Common Name	Scientific Name	Application Method
Croton, Variegated laurel	<i>Codiaeum variegatum</i>	A
Coffee, Arabica coffee	<i>Coffea arabica</i>	A
Mirror plant	<i>Coprosma baueri</i>	A
Variegated mirror plant	<i>Coprosma repens</i>	A
Cotoneaster	<i>Cotoneaster microphyllus</i>	A
Cotoneaster	<i>Cotoneaster repens</i>	A
Cotoneaster	<i>Cotoneaster divaricatus</i>	A
Cranberry cotoneaster	<i>Cotoneaster apiculata</i>	A
Willowleaf cotoneaster	<i>Cotoneaster salicifolius</i>	A
Crossandra, Firecracker flower	<i>Crossandra nilotica</i>	A
Slender deutzia	<i>Deutzia gracilis</i>	A
Bush honeysuckle	<i>Diervilla lonicera</i>	A
Brittlebush	<i>Encelia farinosa</i>	A
Escallonia	<i>Escallonia fradessii</i>	A
Escallonia	<i>Escallonia rubra</i>	A
Brush cherry	<i>Eugenia myrtifolia</i>	A
Spindle tree	<i>Euonymus japonica</i>	B
Winged spindle tree	<i>Euonymus alata</i>	B
Fatshedera, Ivy tree, Aralia	<i>Fatschedera lizei</i>	A
Pineapple guava	<i>Feijoa sellowiana</i>	B
Creeping fig, Climbing fig	<i>Ficus repens</i>	A
Exotica weeping fig	<i>Ficus benjamina</i>	A
Rubber tree	<i>Ficus elastica</i>	A
Weeping fig, laurel	<i>Ficus benjamina</i>	A
Border forsythia	<i>Forsythia x intermedia</i> <i>Hesperaloe parviflora</i>	A
Forsythia	<i>Forsythia intermedia</i>	A
Forsythia	<i>Forsythia sp.</i>	A
Weeping forsythia	<i>Forsythia suspensa</i>	A
Octotillo, Vine cactus	<i>Fouquieria splendens</i>	B
Caricature plant	<i>Graptophyllum pictum</i>	A
Spider flower	<i>Grevillea rosmarinifolia</i>	A
Lavender star plant	<i>Grewia caffra</i>	B
Althea, Rose of Sharon	<i>Hibiscus syriacus</i>	A
Chinese hibiscus	<i>Hibiscus rose-sinensis</i>	A
Oakleaf hydrangea	<i>Hydrangea quercifolia</i>	A
Panicle hydrangea	<i>Hydrangea paniculata</i>	A
American holly	<i>Ilex opaca</i>	A
Compact inkberry	<i>Ilex glabra</i>	A
Dwarf burford holly	<i>Ilex cornuta</i>	A
Dwarf yaupon/Tall yaupon	<i>Ilex vomitoria</i>	A
Fosteria holly	<i>Ilex x attenuata</i>	A
Japanese holly	<i>Ilex crenata</i>	A
Meserve holly	<i>Ilex x Meserveae</i>	A
Ixora, Jungle geranium	<i>Ixora coccinea</i>	A
King's crown, Plume flower, Flamingo plant	<i>Justicia carnea</i>	B
Justicia, Mexican indigo	<i>Justicia spicigera</i>	B
Shrimp plant, False hop	<i>Justicia brandegeana</i>	B
Water willow	<i>Justicia ghiesbreghtiana</i>	B
Texas sage	<i>Leptospermum frutescens</i>	A
Fetterbush	<i>Leucothoe axillaris</i>	B

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TABLE 1. BROADLEAF SHRUBS

Common Name	Scientific Name	Application Method
Gay feather, Blazing star	<i>Liatris spicata</i>	A
Amur privet	<i>Ligustrum amurense</i>	B
California privet	<i>Ligustrum ovalifolium</i>	B
Japanese privet	<i>Ligustrum japonicum</i>	B
Texas privet	<i>Ligustrum texanum</i>	B
Vicari	<i>Ligustrum x Vicari</i>	B
Fly honeysuckle	<i>Lonicera xylosteum</i>	A
Desert fern tree	<i>Lysiloma thornberii</i>	A
Star Magnolia	<i>Magnolia stellata</i>	A
Holly Mahonia, Oregon grape	<i>Mahonia aquifolium</i>	A
Myoporum	<i>Myoporum sp.</i>	A
Wax myrtle	<i>Myrica cerifera</i>	A
Heavenly bamboo	<i>Nandina domestica</i>	A
Oleander	<i>Nerium oleander</i>	A
Oleander: pink, variegated, petite	<i>Nerium oleander</i>	A
Red justicia	<i>Odontonema strictum</i>	B
Osmanthus, tea olive	<i>Osmanthus fragans</i>	A
Yellow shrimp plant	<i>Pachystachys lutea</i>	A
Mock orange	<i>Philadelphus coronarius</i>	B
Photinia	<i>Photinia x fraseri</i>	A
Ninebark	<i>Physocarpus opulifolius</i>	A
Lily-of-the-valley bush, Pieris	<i>Pieris japonica</i>	A
Desert willow, narrowleaf pittosporum	<i>Pittosporum phillyraeoides</i>	A
Japanese pittosporum	<i>Pittosporum tobira</i>	A
Cane plumbago	<i>Plumbago capensis</i>	A
Ming aralia	<i>Polyscias fruticosa</i>	A
Cinquefoil	<i>Potentilla verna</i>	B
Potentilla. Shrubby cinquefoil	<i>Potentilla fruticosa</i>	A
Giant protea, King protea	<i>Protea cynaroids</i>	A
Oleander-leaved protea	<i>Protea neriifolia</i>	B
Protea	<i>Protea compacta</i>	A
Purple false eranthemum	<i>Pseuderanthemum atropurpureum</i>	A
Mojave firethorn, pyracantha	<i>Pyracantha koidzumii x coccinea</i>	A
Pyracantha or firethorn	<i>Pyracantha graberi</i>	A
Pyracantha, firethorn	<i>Pyracantha koidzumii</i>	A
Scarlet firethorn	<i>Pyracantha coccinea</i>	A
Variegated firethorn	<i>Pyracantha angustifolia</i>	A
Indian hawthorn	<i>Raphiolepis indica</i>	A
Yedda hawthorn	<i>Raphiolepis umbellata</i>	A
Tallhedge buckthorn	<i>Rhamnus frangula</i>	A
Catawba Rhododendron	<i>Rhododendron catawbiense</i>	B
Hiryu azalea, Kirishima azalea	<i>Rhododendron obtusum</i>	B
Korean azalea, Yodogawa azalea	<i>Rhododendron yedoense</i>	B
Korean azalea	<i>Rhododendron poukhanensis</i>	B
Macranthum azalea	<i>Rhododendron indicum</i>	B
P.J.M. Hybrids of Rododendron	<i>Rhododendron x. carolinianum x. R. dauricum sempervirens</i>	B
Rhododendron	<i>Rhododendron sp.</i>	B
Rhododendron "Gable Hybrid"	<i>Rhododendron "Gable Hybrid"</i>	B
Rhododendron	<i>Rhododendron formosa</i>	B
Fragrant sumac	<i>Rhus aromatica</i>	B

**TABLE 1. BROADLEAF SHRUBS**

Common Name	Scientific Name	Application Method
Banksia rose	<i>Rosa banksiae</i>	B
Hybrid tea rose	<i>Rosa hybrida</i>	A
Rose	<i>Rosa sp.</i>	A
Lavender cotton, Santolina	<i>Santolina chamaecyparissus</i>	A
Joboba, goat nut	<i>Simmondsia chinensis</i>	A
Billiard spirea	<i>Spiraea x billiardii</i>	A
Snowmound spirea	<i>Spiraea nipponica</i>	A
Spirea or Bridal wreath	<i>Spiraea x bumalda</i>	A
Crispa spirea	<i>Spiraea x bumalda</i>	A
Vanhoutte spirea	<i>Spiraea x vanhouteii</i>	B
Firewheel tree, Wheel of fire	<i>Stenocarpus sinuatus</i>	A
Chinese lilac	<i>Syringa chinensis</i>	B
Korean lilac	<i>Syringa patula</i>	A
Lilac	<i>Syringa meyeri</i>	A
Late Lilac	<i>Syringa villosa</i>	A
Australian brush cherry	<i>Syzygium paniculatum</i>	A
Cape honeysuckle	<i>Tecomaria capensis</i>	A
Cleyera	<i>Ternstroemia gymnanthera</i>	A
Laurel-leaved thunbergia	<i>Thunbergia laurifolia</i>	B
Asiatic jasmine	<i>Trachelospermum asiaticum</i>	A
Ornamental blueberry, Rabbiteye blueberry	<i>Vaccinium ashei</i>	B
Compact cranberrybush viburnum	<i>Viburnum trilobum</i>	A
Cranberry bush	<i>Viburnum opulus</i>	A
Doublefile viburnum	<i>Viburnum plicatum</i>	A
Sandankwa viburnum	<i>Viburnum suspensum</i>	A
Viburnum	<i>Viburnum x juddii</i>	A
Viburnum	<i>Viburnum odoratissimum</i>	A
Viburnum/willowwood	<i>Viburnum x rhytidophylloides</i>	A
Pink weigelia	<i>Weigela florida</i>	A
Weigela	<i>Weigela florida</i>	A

**TABLE 2 BROADLEAF TREES**

Common Name	Scientific Name	Application Method
Ash		B
Beech		B
Birch		B
Cherry (flowering)		B
Crab apple		B
Elm		B
Magnolia		B
Maple		B
Mountain Ash		B
Oak		B
Pear (flowering)		B
Plum (flowering)		B
Quince (flowering)		B
Sweet gum		B
Tulip Tree		B
Willow		B

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TABLE 2 BROADLEAF TREES

Common Name	Scientific Name	Application Method
Acacia	<i>Acacia latifolia</i>	B
Shoe-string acacia	<i>Acacia stenophylla</i>	B
Sweet acacia	<i>Acacia farnesiana</i>	B
Willow acacia	<i>Acacia saligna</i>	B
Willow-leaved acacia	<i>Acacia salicina</i>	B
Japanese maple	<i>Acer palmatum</i>	B
Norway maple	<i>Acer platanoides</i>	B
Red maple	<i>Acer rubrum</i>	B
Silver maple	<i>Acer saccharinum</i>	B
Australia tree fern	<i>Alsophia australis</i>	B
Strawberry tree	<i>Arbutus unedo</i>	B
Birch/River	<i>Betula nigra</i>	B
Bottle tree, Kurrajong	<i>Brachychiton populneus</i>	B
Carob tree	<i>Ceratonia siliqua</i>	B
Palo verde	<i>Cercidium floridum</i>	B
Red bud	<i>Cercis canadensis</i>	B
Fiddlewood	<i>Citharexylum spinosum</i>	B
Grapefruit	<i>Citrus paradisi</i>	B
Sour orange	<i>Citrus aurantium</i>	B
American dogwood	<i>Cornus sericea</i>	B
Cornelian cherry dogwood	<i>Cornus mas</i>	B
Flowering dogwood	<i>Cornus florida</i>	B
Red twig dogwood	<i>Cornus sericea</i>	B
Carrot wood	<i>Cupaniopsis anacardiopsis</i>	B
Purple hopseed bush	<i>Dodonea viscosa purpurea</i>	B
Russian olive	<i>Elaeagnus angustifolia</i>	B
Fastadiata, Swamp immortal	<i>Erythrina fusca</i>	B
Desert gum	<i>Eucalyptus rudis</i>	B
Gum-barked coolibah	<i>Eucalyptus microtheca</i>	B
Lemon-scented gum	<i>Eucalyptus citriodora</i>	B
Narrow-leaved black peppermint	<i>Eucalyptus nicholii</i>	B
Narrow-leaf gimlet, Swamp mallee	<i>Eucalyptus spathulata</i>	B
Red box gum, Silver dollar gum	<i>Eucalyptus polyanthemos</i>	B
Red gum	<i>Eucalyptus rostrata</i>	B
Arizona ash	<i>Fraxinus velutina</i>	B
Honey locust/shade master	<i>Gleditsia triacanthos</i>	B
Silk oak	<i>Grevillea robusta</i>	B
Jacaranda	<i>Jacaranda acutifolia</i>	B
Australian tea tree	<i>Leptospermum laevigatum</i>	B
American sweetgum	<i>Liquidambar styraciflua</i>	B
Oregon grapeholly	<i>Magnolia sp.</i>	B
Southern magnolia	<i>Magnolia grandiflora</i>	B
Showy crabapple	<i>Malus floribunda</i>	B
New Zealand christmas tree	<i>Metrosideros excelsus</i>	B
Ethiopia banana	<i>Musa maurelli</i>	B
Olive tree	<i>Olea europaea</i>	B
Desert Ironwood	<i>Olneya tesota</i>	B
Green palo verde, Jerusalem thorn	<i>Parkinsonia aculeata</i>	B
Golden bamboo	<i>Phyllostachys aurea</i>	B
Dwarf Ninebark	<i>Physocarpus opulifolius</i>	B

TABLE 2 BROADLEAF TREES

Common Name	Scientific Name	Application Method
Temple tree	<i>Plumeria acuminata</i>	B
Chilean mesquite	<i>Prosopis chilensis</i>	B
Carolina cherry, Ornamental cherry	<i>Prunus caroliniana compacta</i>	B
Flowering almond	<i>Prunus triloba</i>	B
Bradford pear, Ornamental pear	<i>Pyrus calleryana</i>	B
Oak, live	<i>Quercus virginiana</i>	B
African sumac standard	<i>Rhus lancea</i>	B
Corkscrew willow	<i>Salix matsudana</i>	B
Weeping willow	<i>Salix alba</i>	B
Brazilian peppertree	<i>Schinus terebinthifolius</i>	B
California peppertree	<i>Schinus molle</i>	B
Giant bird of paradise tree	<i>Strelitzia nicolai</i>	B
Yellow bells	<i>Tecoma stans</i>	B
Yellow oleander tree	<i>Thevetia peruviana</i>	B
Star jasmine	<i>Trachelospermum jasminoides</i>	B
Xylosma	<i>Xylosma congestum</i>	B

TABLE 3 GROUNDCOVERS

Common Name	Scientific Name	Application Method
Variegated ajuga, Carpet bugleweed	<i>Ajuga reptans</i>	B
Bugleweed	<i>Ajuga variegata</i>	B
Bearberry, Kinnikinnick	<i>Arctostaphylos uva-ursi</i>	A
Asparagus fern	<i>Asparagus densiflorus</i>	A
Coromandel	<i>Asystasia gangetica</i>	B
Scotch heather	<i>Calluna vulgaris</i>	A
Ceanothus	<i>Ceanothus griseu</i>	B
Snow in summer	<i>Cerastium tomentosum</i>	A
Rockrose	<i>Cistus hybridus</i>	A
Bush morningglory	<i>Convolvulus oneorum</i>	A
Bearberry cotoneaster	<i>Cotoneaster dammeri</i>	A
White iceplant (trailing)	<i>Delosperma alba</i>	B
Pothos, Pothos vine	<i>Epipremnum aureum</i>	B
Ornamental strawberry	<i>Fragaria chiloensis</i>	A
Gazania gold rush	<i>Gazania splendens</i>	A
Treasure flower	<i>Gazania ringens</i>	B
Algerian ivy	<i>Hedera canariensis</i>	A
English ivy	<i>Hedera helix</i>	A
Hahn's ivy	<i>Hedera helix</i>	A
Waffle plant/Metallic plant, Red ivy	<i>Hemigraphis sp.</i>	A
Japanese honeysuckle	<i>Lonicera japonica</i>	B
Chinese juniper	<i>Juniperus chinensis procumbens</i>	B
Jap garden juniper	<i>Juniperus procumbens</i>	B
Savin juniper	<i>Juniperus sabina</i>	B
Shore juniper	<i>Juniperus conferta</i>	B
Creeping juniper	<i>Juniperus horizontalis</i>	B
White lantana	<i>Lantana montevidensis</i>	B
Liriope	<i>Liriope spicata</i>	A
Green liriope/Variegated liriope	<i>Liriope muscari</i>	A
Moneywort/Wandering Sally	<i>Lysimachia nummularia</i>	A

TABLE 3 GROUNDCOVERS

Common Name	Scientific Name	Application Method
White African daisy	<i>Osteospermum fruticosum alba</i>	A
Japanese pachysandra, Japanese spurge	<i>Pachysandra terminalis</i>	A
Ivy geranium	<i>Pelargonium peltatum</i>	A
Capeweed	<i>Phyla nodiflora</i>	A
Creeping Charlie	<i>Pilea nummulariifolia</i>	A
Rosemary	<i>Rosmarinus officinallis</i>	A
Brown beam	<i>Sedum guatemalense</i>	A
Christmas cheer	<i>Sedum x rubrotinctum</i>	A
Green stone crop, Sedum	<i>Sedum brevifolium</i>	A
Sedum	<i>Sedum spectabile</i>	A
Spiderwort	<i>Setcreasea purpurea</i>	B
Asiatic jasmine	<i>Trachelospermum asiaticum</i>	A
Crown Vetch	<i>Vicia sp.</i>	A
Periwinkle	<i>Vinca major</i>	A
Myrtle, Dwarf periwinkle	<i>Vinca minor</i>	A

TABLE 4 HERBACEOUS PLANTS

Common Name	Scientific Name	Application Method
Common yarrow	<i>Achillea millefolium</i>	A
Fernleaf yarrow	<i>Achillea filipendulina</i>	A
Peter Pan lily of the Nile, African lily	<i>Agapanthus africanus</i>	A
Ageratum	<i>Ageratum sp.</i>	A
Fransher evergreen, Silver Queen evergreen, Ribbon evergreen	<i>Aglaonema commutatum</i>	A
Painted drop-tongue	<i>Aglaonema crispum</i>	A
Hollyhock	<i>Alcea rosea</i>	A
Chives	<i>Allium schoenopresum</i>	A
Alyssum	<i>Alyssum sp.</i>	A
Snapdragon	<i>Antirrhinum</i>	A
Columbine	<i>Aquilegia hybrida</i>	B
Sandwort	<i>Arenaria verna</i>	A
Field marigold, Pot marigold	<i>Calendula sp.</i>	A
Bellflower	<i>Campanula carpatica</i>	A
Madagascar periwinkle	<i>Catharanthus roseus</i>	B
Dusty miller	<i>Centaurea cineraria</i>	A
Spider plant, Ribbon plant	<i>Chlorophytum comosum</i>	B
Shasta daisy	<i>Chrysanthemum x superbum</i>	A
Kaffir lily	<i>Clivia miniata</i>	A
Coleus	<i>Coleus x hybridus</i>	A
Cordyline, Dracaena	<i>Cordyline stricta</i>	B
Ti, Goodluck plant	<i>Cordyline terminalis</i>	A
Threadleaf coreopsis	<i>Coreopsis verticillata</i>	A
Umbrella plant, Umbrella palm	<i>Cyperus alternifolius</i>	B
Sweet William	<i>Dianthus barbatus</i>	A
Bleeding heart	<i>Dicentra spectabilis</i>	B
Giant dumbcane	<i>Dieffenbachia amoena</i>	A
Dracaena	<i>Dracaena deremensis</i>	B
Dracaena, Corn plant	<i>Dracaena fragans</i>	B
Tricolor dracaena	<i>Dracaena marginata</i>	B
Euonymus	<i>Euonymus fortunei</i>	A

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TABLE 4 HERBACEOUS PLANTS

Common Name	Scientific Name	Application Method
Spreading euonymus	<i>Euonymus kiautschovica</i>	B
Grayleaf daisy	<i>Euryops pectinatus</i>	A
Gardenia, dwarf	<i>Gardenia jasminoides</i>	A
Gazania	<i>Gazania uniflora leucholaena</i>	A
Treasure flower	<i>Gazania rigens</i>	B
Carolina jessamine, Evening trumpet flower	<i>Gelsemium sempervirens</i>	A
Geranium	<i>Geranium pratense</i>	A
Gladiolus	<i>Gladiolus x hortulanus</i>	B
Daylily	<i>Hemerocallis hybrids</i>	A
Green carpet, Rupturewort	<i>Herniaria glabra</i>	B
Variegated hosta	<i>Hosta lancifolia</i>	A
Candytuff	<i>Iberis sempervirens</i>	A
Iris	<i>Iris sp.</i>	A
Blue star creeper	<i>Isotoma sp.</i>	A
Chandelier plant	<i>Kalanchoe tubiflora</i>	B
Lavender-scallopes	<i>Kalanchoe fedtschenkoi</i>	B
Compact burningbush	<i>Kochia scoparia trychophylla</i>	A
Bush lantana	<i>Lantana camara</i>	A
Purple lantana (trailing)	<i>Lantana sellowiana</i>	A
Liriope	<i>Liriope spicata</i>	A
Morrow honeysuckle	<i>Lonicera x morrowii</i>	A
Purple trailing ice plant	<i>Mesembryanthemum lampranthus</i>	A
Red spike ice plant	<i>Mesembryanthemum lampranthus spectabilis</i>	A
Rose ice plant	<i>Mesembryanthemum drosanhemum hispidum</i>	A
Sword fern	<i>Nephrolepis exaltata</i>	A
Mexican evening primrose	<i>Oenothera berlandier</i>	B
Passion flower	<i>Passiflora pfordtii</i>	A
Geranium, Martha Washington geranium	<i>Pelargonium domesticum</i>	A
Baby rubber plant	<i>Peperomia obtusifolia</i>	B
Radiator plant	<i>Peperomia scandens</i>	A
Petunia	<i>Petunia sp.</i>	A
Philodendron	<i>Philodendron sp.</i>	B
Philodendron	<i>Philodendron selloum</i>	A
Velvetleaf philodendron	<i>Philodendron oxycardium</i>	A
Swedish ivy	<i>Plectranthus australis</i>	B
Pinkhead knotweed	<i>Polygonum capitatum</i>	B
Leatherleaf fern	<i>Polystichum capense</i>	A
Ruellia	<i>Ruellia ciliosa</i>	B
Salvia	<i>Salvia greggii</i>	A
Sansevierias	<i>Sansevieria sp.</i>	A
Mother-in-law's tongue, Snake plant	<i>Sansvieria trifasciata</i>	A
Hen and chickens, common houseleek	<i>Sempervivum tectorum</i>	A
Annual statice	<i>Statice sinuata</i>	A
Bird of paradise	<i>Strelitzia reginae</i>	A
Marigold	<i>Tagetes sp.</i>	A
Oyster plant, Salsify	<i>Tragopogon porrifolius</i>	B
Strawberry clover	<i>Trifolium fragiferum</i>	A
Spanish dagger	<i>Yucca gloriosa</i>	A
Weeping dagger	<i>Yucca pendula</i>	A
Yucca	<i>Yucca filamentosa</i>	A
Wandering jew, Inch plant	<i>Zebrina pendula</i>	B

TABLE 4 HERBACEOUS PLANTS

Common Name	Scientific Name	Application Method
Zinnia	<i>Zinnia sp.</i>	A

TABLE 5 NEEDLED EVERGREENS

Common Name	Scientific Name	Application Method
Concolor fir	<i>Abies concolor</i>	B
Fraser fir	<i>Abies fraseri</i>	B
Noble fir	<i>Abies procera</i>	B
Norfolk Island pine	<i>Araucaria heterophylla</i>	B
Hinoki falsecypress	<i>Chamaecyparis obtusa</i>	B
Allum Lawson cypress	<i>Chamaecypraris lawsoniana</i>	B
Sawara cypress	<i>Chamaecyparis pisifera</i>	B
Leyland cypress	<i>Cupressocyparis leylandi</i>	B
Italian cypress	<i>Cupressus sempervirens</i>	B
Red cedar, Eastern red cedar	<i>Juniperus virginiana</i>	B
Creeping juniper	<i>Juniperus horizontalis</i>	B
Chinese juniper	<i>Juniperus chinensis</i>	B
Japgarden juniper	<i>Juniperus procumbens</i>	B
Rocky Mountain juniper, Colorado red cedar	<i>Juniperus scopulorum</i>	B
Savin juniper	<i>Juniperus sabina</i>	B
Blue spruce	<i>Picea pungens</i>	B
Norway spruce	<i>Picea abies</i>	B
Serbian spruce	<i>Picea omorika</i>	B
White spruce	<i>Picea glauca</i>	B
Austrian pine/Black pine	<i>Pinus nigra</i>	B
Canary Island pine	<i>Pinus canariensis</i>	B
Dwarf Swiss mountain pine	<i>Pinus mugo</i>	B
Eastern white pine	<i>Pinus strobus</i>	B
Mexican border pine	<i>Pinus strobiformis</i>	B
Red pine	<i>Pinus resinosa</i>	B
Scotch pine	<i>Pinus sylvestris</i>	B
Western yellow pine or Ponderosa pine	<i>Pinus ponderosa</i>	B
African fern pine	<i>Podocarpus gracilior</i>	B
Southern yew, Japanese yew	<i>Podocarpus macrophyllus</i>	B
Yew pine	<i>Podocarpus macrophylla</i>	B
Douglas fir	<i>Pseudotsuga menziessi</i>	B
Anglojap yew, Dense yew	<i>Taxus x media</i>	B
Japanese yew	<i>Taxus cuspidata</i>	B
American arborvitae, White cedar	<i>Thuja occidentalis</i>	B
Oriental arborvitae	<i>Thuja orientalis</i>	B
Eastern hemlock	<i>Tsuga canadensis</i>	B

TABLE 6 PALMS, CACTUS, SUCCULENTS, GRASSES

Common Name	Scientific Name	Application Method
Queen palm	<i>Acrecastrum romanzoffianum</i>	A
Century plant, American aloe	<i>Agave americana</i>	A
Baby sun rose	<i>Aptenia cordifolia</i>	B
Saguaro cactus	<i>Carnegiea gigantea</i>	A
Mediterranean fan palm	<i>Chamaerops humilis</i>	A
Windmill palm	<i>Chamaerops excelsa</i>	A



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TABLE 6 PALMS, CACTUS, SUCCULENTS, GRASSES

Common Name	Scientific Name	Application Method
Golden fruited palm, Yellow palm	<i>Chrysalidocarpus lutescens</i> (small)	A
Pampas grass	<i>Cortaderia selloana</i>	B
Jade plant, Dollar plant	<i>Crassula argentea</i>	B
Sago palm	<i>Cycas revoluta</i>	A
Hedgehog cactus	<i>Echinocactus sp.</i>	A
Candelabra cactus, Falsecactus	<i>Euphorbia lactea</i>	A
Barrel cactus	<i>Ferocactus sp.</i>	A
Chinese fan palm	<i>Livistona chinensis</i>	A
Mondo grass	<i>Ophiopogon japonicum</i>	B
Cholla cactus	<i>Opuntia cholla</i>	A
Prickly pear cactus	<i>Opuntia sp.</i>	A
Slipper flower, Redbird flower	<i>Pedilanthus tithymaloides</i>	B
Green fountain grass	<i>Pennisetum sectaceum</i>	B
Red fountain grass	<i>Pennisetum setaceum</i>	B
Canary Island date palm	<i>Phoenix canariensis</i>	A
Pygmy date palm	<i>Phoenix roebelenii</i>	A
Mexican fan palm	<i>Washingtonia robusta</i>	A