


2217-854

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 <p align="center"> U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460 </p> <p align="center"> NOTICE OF PESTICIDE: Registration <u>X</u> Reregistration (under FIFRA, as amended) </p>	EPA Reg. Number: 2217-854	Date of Issuance: 20 MAR 2009
	Term of Issuance:	
	Name of Pesticide Product: EH1392 Herbicide	
Name and Address of Registrant (include ZIP Code): PBI/Gordon Corporation 1217 West 12 th St. P.O. Box 014090 Kansas City, MO 64101-0090		
<p>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.</p> <p>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.</p> <p>This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data. 2. Submit one-year Storage Stability (830.6317) and Corrosion Characteristics (830.6320) studies in fulfillment of the PDCI by April 2010. 3. Make the following changes to the product label: <ol style="list-style-type: none"> a. Revise the heading from "Inert Ingredients" to "Other Ingredients". b. Revise the Hazards to Humans and Domestic Animals statement as follows: <ol style="list-style-type: none"> i) The text "Avoid breathing spray mist." is optional and may be removed. ii) Revise the text "Wash thoroughly with soap and water after handling." to read "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet." iii) Add <u>either</u> the text "Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves made of any waterproof material." <u>or</u> add a PPE section directly above the First Aid box that reads 		
Signature of Approving Official: Joanne Miller Product Manager 23 Herbicide Branch Registration Division (7505P)	Date: 20 MAR 2009	

“Applicators and other handlers must wear:

- Long-sleeved shirt,
- Long pants,
- Shoes and socks, and
- Chemical-resistant gloves made of any waterproof material.”

- c. Revise the First Aid heading “If on Skin” to read “If on Skin or Clothing”. The statements for “If Swallowed” and “If Inhaled” are optional due to the acute toxicity review.
- d. An emergency medical treatment phone number should be included in the First Aid section.
- e. It is suggested that the following User Safety Requirements statement be added.
“Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.”
- f. It is suggested that the following User Safety Recommendations statement be added, and preferably placed in a box.

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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.

- g. It is suggested that the following Directions for Use statements be added.
“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.”
- h. It is suggested that the following restriction be added to the label.
“Do not enter or allow others to enter the treated area until sprays have dried.”
- i. Revise the Environmental Hazards text “Do not apply directly to water.” to read “Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.”
- j. On page 2, remove, modify, or provide efficacy data to substantiate the overly broad claim “roots **and all**”.

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- k. On page 2, revise the text to read "...when applied as ~~recommended~~ directed on this label."
- l. On page 3, revise the heading to read "Annual and Perennial Grass Control ~~Recommendations~~ Directions".
- m. Add the statement "Do not contaminate water, food, or feed by storage and disposal." directly below the Storage and Disposal heading.
- n. Revise the heading "Storage" to read "Pesticide Storage", and provide additional information regarding pesticide storage as outlined in PR Notice 83-3.
- o. Add the subsection "Pesticide Disposal" and provide information regarding pesticide disposal as outlined in PR Notice 83-3.
- p. Revise the Container Disposal statement as outlined in PR Notice 2007-4.
- q. Add the phrase "To the extent consistent with applicable law" directly in front of the warranty statement "The manufacturer neither makes nor intends any other express or implied warranties..."

The basic Confidential Statement of Formula (CSF) dated April 10, 2008 is acceptable and will supercede all previous basic and alternate CSFs.

A stamped copy of your label is enclosed for your records. Submit one (1) 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.

Enclosure

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ACCEPTED
with COMMENTS
in EPA Letter Dated

20 MAR 2009

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

2217-854

EH1392 HERBICIDE

EPA Reg. No. 2217-854

ACTIVE INGREDIENT:

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

INERT INGREDIENTS:..... 99.83%

TOTAL..... 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

SHAKE WELL BEFORE USING

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

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.

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.			
Application Methods: A = Over the Top; B = Directed spray			
BROADLEAF SHRUBS			
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
BROADLEAF TREES			
Ash	B	Maple	B
Beech	B	Maple - Japanese maple, Norway maple, Red maple, Silver maple	B
Birch	B	Moutain Ash	B
Bradford pear, Ornamental pear	B	Oak	B
Brazillian peppertree	B	Pear (flowering)	B
Cherry - Carolina cherry, Flowering cherry, Ornamental cherry	B	Plum (flowering)	B
Crab apple	B	Quince (flowering)	B
Dogwood - American dogwood, Cornelian cherry dogwood, Flowering dogwood, Red Twig dogwood	B	Red bud	B
Elm	B	Sweet gum	B
Magnolia	B	Tulip Tree	B
	B	Willow	B
	B	Xylosma	B
GROUNDCOVERS			

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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
HERBACEOUS PLANTS			
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 Swiss mountain pine, Eastern white pine, Scotch pine	B
Cedar - Red cedar, Eastern red cedar, White cedar	B	Spruce - Blue spruce, Norway spruce, Serbian spruce, White spruce	B
Fir - Concolor fir, Douglas fir, Fraser fir, Noble fir	B	Yew - Anglojap yew, Dense yew, Japanese yew, Southern yew	B
Juniper - Creeping juniper, Japgarden juniper, Savin juniper	B		
GRASSES			
Green fountain grass	B	Mondo grass	B
Red fountain grass	B		

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.

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.

APPENDIX

1. Statements which may appear on different label components depending on packaging configuration.

- See next panel for additional Precautionary Statements and First Aid
- Net Contents: _____
- EPA Est. No. _____

2. 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.
- READY TO USE
- WATER BASED FORMULATION

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	Abelia grandiflora	A
Jacob's coat, Copperleaf	Acalypha godseffiana	B
Aloe	Aloe vera	A
Aloe	Aloe zanzibarica	A
Barbados aloe	Aloe barbadensis	A
False spirea, Astilbe	Astilbe x arendsii	A
Saltbush, Orach	Atriplex sp.	A
Japanese laurel	Aucuba japonica Caesalpinia cacalaco	A
Desert broom, Chaparral broom	Baccharis pilularis	B
Japanese barberry	Berberis thunbergii	A
Mentor barberry	Berberis mentorensis	A
Cats claw, Yellow trumpet	Bignonia Tweediana	B
Bougainvillea	Bougainvillea sp.	B
Common boxwood	Buxus sempervirens	A
Japanese boxwood	Buxus microphylla	A
Korean boxwood	Buxus microphylla	A
Bird of paradise	Caesalpinia gilliesii	A
Bottle-brush	Callistemon lanceolatus	A
Camellia	Camellia japonica	A
Sasanqua camellia	Camellia sasanqua	A
Natal plum	Carissa grandiflora	A
African cassia	Cassia didymobotrya	A
Feathery cassia, Wormwood	Cassia artemisioides	A
Senna	Cassia bicapsularis	B

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TABLE 1. BROADLEAF SHRUBS		
Common Name	Scientific Name	Application Method
Grape ivy, Treebine	Cissus rhombifolia	A
Pagoda flower	Clerodendrum speciosum	A
Cleyera	Cleyera spp.	A
Croton, Variegated laurel	Codiaeum variegatum	A
Coffee, Arabica coffee	Coffea arabica	A
Mirror plant	Coprosma baueri	A
Variegated mirror plant	Coprosma repens	A
Cotoneaster	Cotoneaster microphyllus	A
Cotoneaster	Cotoneaster repens	A
Cotoneaster	Cotoneaster divaricatus	A
Cranberry cotoneaster	Cotoneaster apiculata	A
Willowleaf cotoneaster	Cotoneaster salicifolius	A
Crossandra, Firecracker flower	Crossandra nilotica	A
Slender deutzia	Deutzia gracilis	A
Bush honeysuckle	Diervilla lonicera	A
Brittlebush	Encelia farinosa	A
Escallonia	Escallonia fradessii	A
Escallonia	Escallonia rubra	A
Brush cherry	Eugenia myrtifolia	A
Spindle tree	Euonymus japonica	B
Winged spindle tree	Euonymus alata	B
Fatshedera, Ivy tree, Aralia	Fatshedera lizei	A
Pineapple guava	Feijoa sellowiana	B
Creeping fig, Climbing fig	Ficus repens	A
Exotica weeping fig	Ficus benjamina	A
Rubber tree	Ficus elastica	A
Weeping fig, laurel	Ficus benjamina	A
Border forsythia	Forsythia x intermedia Hesperaloe parviflora	A
Forsythia	Forsythia intermedia	A
Forsythia	Forsythia sp.	A
Weeping forsythia	Forsythia suspensa	A
Octotillo, Vine cactus	Fouquieria splendens	B
Caricature plant	Graptophyllum pictum	A
Spider flower	Grevillea rosmarinifolia	A
Lavender star plant	Grewia caffra	B
Althea, Rose of Sharon	Hibiscus syriacus	A
Chinese hibiscus	Hibiscus rose-sinensis	A
Oakleaf hydrangea	Hydrangea quercifolia	A
Panicle hydrangea	Hydrangea paniculata	A
American holly	Ilex opaca	A
Compact inkberry	Ilex glabra	A
Dwarf burford holly	Ilex cornuta	A
Dwarf yaupon/Tall yaupon	Ilex vomitoria	A
Fosteria holly	Ilex x attenuata	A
Japanese holly	Ilex crenata	A
Meserve holly	Ilex x Meserveae	A
Ixora, Jungle geranium	Ixora coccinea	A

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TABLE 1. BROADLEAF SHRUBS		
Common Name	Scientific Name	Application Method
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
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 fruitcosa</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

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TABLE 1. BROADLEAF SHRUBS		
Common Name	Scientific Name	Application Method
Korean azalea, Yodogawa azalea	Rhododendron yedoense	B
Korean azalea	Rhododendron poukhanensis	B
Macranthum azalea	Rhododendron indicum	B
P.J.M. Hybrids of Rododendron	Rhododendron x. carolinianum x. R. dauricum sempervirens	B
Rhododendron	Rhododendron sp.	B
Rhododendron "Gable Hybrid"	Rhododendron "Gable Hybrid"	B
Rhododendron	Rhododendron formosa	B
Fragrant sumac	Rhus aromatica	B
Banksia rose	Rosa banksiae	B
Hybrid tea rose	Rosa hybrida	A
Rose	Rosa sp.	A
Lavender cotton, Santolina	Santolina chamaecy parissus	A
Jojoba, goat nut	Simmondsia chinensis	A
Billiard spirea	Spiraea x billiardii	A
Snowmound spirea	Spiraea nipponica	A
Spiraea or Bridal wreath	Spiraea x bumalda	A
Crispa spirea	Spiraea x bumalda	A
Vanhoutte spirea	Spiraea x vanhouteii	B
Firewheel tree, Wheel of fire	Stenocarpus sinuatus	A
Chinese lilac	Syringa chinensis	B
Korean lilac	Syringa patula	A
Lilac	Syringa meyeri	A
Late Lilac	Syringa villosa	A
Australian brush cherry	Syzygium paniculatum	A
Cape honeysuckle	Tecomaria capensis	A
Cleyera	Ternstroemia gymnanthera	A
Laurel-leaved thunbergia	Thunbergia laurifolia	B
Asiatic jasmine	Trachelospermum asiaticum	A
Ornamental blueberry, Rabbiteye blueberry	Vaccinium ashei	B
Compact cranberrybush viburnum	Viburnum trilobum	A
Cranberry bush	Viburnum opulus	A
Doublefile viburnum	Viburnum plicatum	A
Sandankwa viburnum	Viburnum suspensum	A
Viburnum	Viburnum x juddii	A
Viburnum	Viburnum odoratissium	A
Viburnum/willowwood	Viburnum x rhytidophylloides	A
Pink weigelia	Weigela florida	A
Weigela	Weigela florida	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

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TABLE 2 BROADLEAF TREES		
Common Name	Scientific Name	Application Method
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
Acacia	Acacia latifolia	B
Shoe-string acacia	Acacia stenophylla	B
Sweet acacia	Acacia farnesiana	B
Willow acacia	Acacia saligna	B
Willow-leafed acacia	Acacia salicina	B
Japanese maple	Acer palmatum	B
Norway maple	Acer platanoides	B
Red maple	Acer rubrum	B
Silver maple	Acer saccharinum	B
Australia tree fern	Alsophia australis	B
Strawberry tree	Arbutus unedo	B
Birch/River	Betula nigra	B
Bottle tree, Kurrajong	Brachychiton populneus	B
Carob tree	Ceratonia siliqua	B
Palo verde	Cercidium floridum	B
Red bud	Cercis canadensis	B
Fiddlewood	Citharexylum spinosum	B
Grapefruit	Citrus paradisi	B
Sour orange	Citrus aurantium	B
American dogwood	Cornus sericea	B
Cornelian cherry dogwood	Cornus mas	B
Flowering dogwood	Cornus florida	B
Red twig dogwood	Cornus sericea	B
Carrot wood	Cupaniopsis anacardiopsis	B
Purple hopseed bush	Dodonea viscosa purpurea	B
Russian olive	Elaeagnus angustifolia	B
Fastadiata, Swamp immortelle	Erythrina fusca	B
Desert gum	Eucalyptus rudis	B
Gum-barked coolibah	Eucalyptus microtheca	B
Lemon-scented gum	Eucalyptus citriodora	B
Narrow-leaved black peppermint	Eucalyptus nicholii	B
Narrow-leaf gimlet, Swamp mallee	Eucalyptus spathulata	B
Red box gum, Silver dollar gum	Eucalyptus polyanthemos	B
Red gum	Eucalyptus rostrata	B
Arizona ash	Fraxinus velutina	B
Honey locust/shade master	Gleditsia triacanthos	B
Silk oak	Grevillea robusta	B

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TABLE 2 BROADLEAF TREES		
Common Name	Scientific Name	Application Method
Jacaranda	Jacaranda acutifolia	B
Australian tea tree	Leptospermum laevigatum	B
American sweetgum	Liquidambar styraciflua	B
Oregon grapeholly	Magnolia sp.	B
Southern magnolia	Magnolia grandiflora	B
Showy crabapple	Malus floribunda	B
New Zealand christmas tree	Metrosideros excelsus	B
Ethiopia banana	Musa maurelli	B
Olive tree	Olea europaea	B
Desert Ironwood	Olneya tesota	B
Green palo verde, Jerusalem thorn	Parkinsonia aculeata	B
Golden bamboo	Phyllostachys aurea	B
Dwarf Ninebark	Physocarpus opulifolius	B
Temple tree	Plumeria acuminata	B
Chilean mesquite	Prosopis chilensis	B
Carolina cherry, Ornamental cherry	Prunus caroliniana compacta	B
Flowering almond	Prunus triloba	B
Bradford pear, Ornamental pear	Pyrus calleryana	B
Oak, live	Quercus virginiana	B
African sumac standard	Rhus lancea	B
Corkscrew willow	Salix matsudana	B
Weeping willow	Salix alba	B
Brazilian peppertree	Schinus terebinthifolius	B
California peppertree	Schinus molle	B
Giant bird of paradise tree	Strelitzia nicolai	B
Yellow bells	Tecoma stans	B
Yellow oleander tree	Thevetia peruviana	B
Star jasmine	Trachelospermum jasminoides	B
Xylosma	Xylosma congestum	B

TABLE 3 GROUNDCOVERS		
Common Name	Scientific Name	Application Method
Variegated ajuga, Carpet bugleweed	Ajuga reptans	B
Bugleweed	Ajuga variegata	B
Bearberry, Kinnikinick	Arctostaphylos uva-ursi	A
Asparagus fern	Asparagus densiflorus	A
Coromandel	Asystasia gangetica	B
Scotch heather	Calluna vulgaris	A
Ceanothus	Ceanothus griseu	B
Snow in summer	Cerastium tomentosum	A
Rockrose	Cistus hybridus	A
Bush morningglory	Convolvulus oneorum	A
Bearberry cotoneaster	Cotoneaster dammeri	A
White iceplant (trailing)	Delosperma alba	B
Pothos, Pothos vine	Epipremnum aureum	B
Ornamental strawberry	Fragaria chiloensis	A
Gazania gold rush	Gazania splendens	A

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TABLE 3 GROUNDCOVERS

Common Name	Scientific Name	Application Method
Treasure flower	Gazania ringens	B
Algerian ivy	Hedera canariensis	A
English ivy	Hedera helix	A
Hahn's ivy	Hedera helix	A
Waffle plant/Metallic plant, Red ivy	Hemigraphis sp.	A
Japanese honeysuckle	Lonicera japonica	B
Chinese juniper	Juniperus chinensis procumbens	B
Japgarden juniper	Juniperus procumbens	B
Savin juniper	Juniperus sabina	B
Shore juniper	Juniperus conferta	B
Creeping juniper	Juniperus horizontalis	B
White lantana	Lantana montevidensis	B
Liriope	Liriope spicata	A
Green liriope/Variegated liriope	Liriope muscari	A
Moneywort/Wandering Sally	Lysimachia nummularia	A
White African daisy	Osteospermum fruticosum alba	A
Japanese pachysandra, Japanese spurge	Pachysandra terminalis	A
Ivy geranium	Pelargonium peltatum	A
Capweed	Phyla nodiflora	A
Creeping Charlie	Pilea nummulariifolia	A
Rosemary	Rosmarinus officinalis	A
Brown beam	Sedum guatemalense	A
Christmas cheer	Sedum x rubrotinctum	A
Green stone crop, Sedum	Sedum brevifolium	A
Sedum	Sedum spectabile	A
Spiderwort	Setcreasea purpurea	B
Asiatic jasmine	Trachelospermum asiaticum	A
Crown Vetch	Vicia sp.	A
Periwinkle	Vinca major	A
Myrtle, Dwarf periwinkle	Vinca minor	A

TABLE 4 HERBACEOUS PLANTS

Common Name	Scientific Name	Application Method
Common yarrow	Achillea millefolium	A
Fernleaf yarrow	Achillea filipendulina	A
Peter Pan lily of the Nile, African lily	Agapanthus africanus	A
Ageratum	Ageratum sp.	A
Fransher evergreen, Silver Queen evergreen, Ribbon evergreen	Aglaonema commutatum	A
Painted drop-tongue	Aglaonema crispum	A
Hollyhock	Alcea rosea	A
Chives	Allium schoenopresum	A
Alyssum	Alyssum sp.	A
Snapdragon	Antirrhinum	A
Columbine	Aquilegia hybrida	B
Sandwort	Arenaria verna	A
Field marigold, Pot marigold	Calendula sp.	A
Bellflower	Campanula carpatica	A

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TABLE 4 HERBACEOUS PLANTS

Common Name	Scientific Name	Application Method
Madagascar periwinkle	Catharanthus roseus	B
Dusty miller	Centaurea cineraria	A
Spider plant, Ribbon plant	Chlorophytum comosum	B
Shasta daisy	Chrysanthemum x superbum	A
Kaffir lily	Clivia miniata	A
Coleus	Coleus x hybridus	A
Cordyline, Dracaena	Cordyline stricta	B
Ti, Goodluck plant	Cordyline terminalis	A
Threadleaf coreopsis	Coreopsis verticillata	A
Umbrella plant, Umbrella palm	Cyperus alternifolius	B
Sweet William	Dianthus barbatus	A
Bleeding heart	Dicentra spectabilis	B
Giant dumbcane	Dieffenbachia amoena	A
Dracaena	Dracaena deremensis	B
Dracaena, Corn plant	Dracaena fragans	B
Tricolor dracaena	Dracaena marginata	B
Euonymus	Euonymus fortunei	A
Spreading euonymus	Euonymus kiautschovica	B
Grayleaf daisy	Euryops pectinatus	A
Gardenia, dwarf	Gardenia jasminoides	A
Gazania	Gazania uniflora leucholaena	A
Treasure flower	Gazania rigens	B
Carolina jessamine, Evening trumpet flower	Gelsemium sempervirens	A
Geranium	Geranium pratense	A
Gladiolus	Gladiolus x hortulanus	B
Daylily	Hemerocallis hybrids	A
Green carpet, Rupturewort	Herniaria glabra	B
Variiegated hosta	Hosta lancifolia	A
Candytuff	Iberis sempervirens	A
Iris	Iris sp.	A
Blue star creeper	Isotoma sp.	A
Chandelier plant	Kalanchoe tubiflora	B
Lavender-scallopes	Kalanchoe fedtschenkoi	B
Compact burningbush	Kochia scoparia trychophylla	A
Bush lantana	Lantana camara	A
Purple lantana (trailing)	Lantana sellowiana	A
Liriope	Liriope spicata	A
Morrow honeysuckle	Lonicera x morrowii	A
Purple trailing ice plant	Mesembryanthemum lampranthus	A
Red spike ice plant	Mesembryanthemum lampranthus spectabilis	A
Rose ice plant	Mesembryanthemum drosanhemum hispidum	A
Sword fern	Nephrolepis exaltata	A
Mexican evening primrose	Oenothera berlandier	B
Passion flower	Passiflora pfordtii	A
Geranium, Martha Washington geranium	Pelargonium domesticum	A
Baby rubber plant	Peperomia obtusifolia	B
Radiator plant	Peperomia scandens	A
Petunia	Petunia sp.	A

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TABLE 4 HERBACEOUS PLANTS		
Common Name	Scientific Name	Application Method
Philodendron	Philodendron sp.	B
Philodendron	Philodendron selloum	A
Velvetleaf philodendron	Philodendron oxycardium	A
Swedish ivy	Plectranthus australis	B
Pinkhead knotweed	Polygonum capitatum	B
Leatherleaf fern	Polystichum capense	A
Ruellia	Ruellia ciliosa	B
Salvia	Salvia greggii	A
Sansevierias	Sansevieria sp.	A
Mother-in-law's tongue, Snake plant	Sansevieria trifasciata	A
Hen and chickens, common houseleek	Sempervivum tectorum	A
Annual statice	Statice sinuata	A
Bird of paradise	Strelitzia reginae	A
Marigold	Tagetes sp.	A
Oyster plant, Salsify	Tragopogon porrifolius	B
Strawberry clover	Trifolium fragiferum	A
Spanish dagger	Yucca gloriosa	A
Weeping dagger	Yucca pendula	A
Yucca	Yucca filamentosa	A
Wandering jew, Inch plant	Zebrina pendula	B
Zinnia	Zinnia sp.	A

TABLE 5 NEEDLED EVERGREENS		
Common Name	Scientific Name	Application Method
Concolor fir	Abies concolor	B
Fraser fir	Abies fraseri	B
Noble fir	Abies procera	B
Norfolk Island pine	Araucaria heterophylla	B
Hinoki falsecypress	Chamaecyparis obtusa	B
Allum Lawson cypress	Chamaecyparis lawsoniana	B
Sawara cypress	Chamaecyparis pisifera	B
Leyland cypress	Cupressocyparis leylandi	B
Italian cypress	Cupressus sempervirens	B
Red cedar, Eastern red cedar	Juniperus virginiana	B
Creeping juniper	Juniperus horizontalis	B
Chinese juniper	Juniperus chinensis	B
Jaggarden juniper	Juniperus procumbens	B
Rocky Mountain juniper, Colorado red cedar	Juniperus scopulorum	B
Savin juniper	Juniperus sabina	B
Blue spruce	Picea pungens	B
Norway spruce	Picea abies	B
Serbian spruce	Picea omorika	B
White spruce	Picea glauca	B
Austrian pine/Black pine	Pinus nigra	B
Canary Island pine	Pinus canariensis	B
Dwarf Swiss mountain pine	Pinus mugo	B
Eastern white pine	Pinus strobus	B

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TABLE 5 NEEDLED EVERGREENS

Common Name	Scientific Name	Application Method
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
Golden fruited palm, Yellow palm	<i>Chrysalidocarpus lutescens (small)</i>	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