

33955-559

01/15/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

JAN 15 2010

James Kunstman  
PBI/Gordon Corporation  
Post Office Box 014090  
Kansas City, Missouri 64101

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Mr. Kunstman:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated July 17, 2009 for:

**EPA Registration 33955-559**

**Acme Ornamec Herbicide**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.


Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

|   |   |  |                       |
|---|---|--|-----------------------|
|  | United States<br><b>Environmental Protection Agency</b><br>Washington, DC 20460 | <input type="checkbox"/> Registration<br><input type="checkbox"/> Amendment<br><input checked="" type="checkbox"/> Other | OPP Identifier Number |
|---|---|--|-----------------------|

**Application for Pesticide - Section I**

|   |   |   |
|---|---|---|
| 1. Company/Product Number<br><p style="text-align: center;"><b>33955-559</b></p>  | 2. EPA Product Manager<br><p style="text-align: center;">Joanne I. Miller</p> | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted  |
| 4. Company/Product (Name)<br><p style="text-align: center;"><b>Acme Ornamec Herbicide</b></p>   | PM#<br><p style="text-align: center;">Product Manager—Team 23</p>             |   |
| 5. Name and Address of Applicant (Include ZIP Code)<br>PBI/Gordon Corporation<br>Post Office Box 014090<br>Kansas City, Missouri 64101<br><input type="checkbox"/> Check if this is a new address |   | 6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:<br>EPA Reg. No. _____<br>Product Name _____ |

**Section - II**

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

**NOTIFICATION**

**JAN 15 2010**

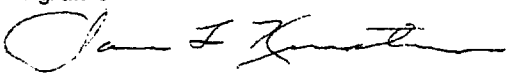
Explanation: Use additional page(s) if necessary. (For section I and Section II.)  
**Labeling notification per Pesticide Registration Notice (PRN) 2007-4:**  
 Refer to accompanying cover letter for explanation and certification statement.

e-mail to [jkunstman@pbigordon.com](mailto:jkunstman@pbigordon.com) FAX: 816-421-2731

**Section - III**

|   |  |   |                   |   |   |
|---|--|---|-------------------|---|---|
| 1. Material This Product Will Be Packaged In:   |  |   |                   | 2. Type of Container  |   |
| Child-Resistant Packaging<br><input checked="" type="checkbox"/> Yes*<br><input type="checkbox"/> No  | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No |                   |   | <input type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input type="checkbox"/> Paper<br><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<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container   |  | 4. Size(s) Retail Container<br>7.5 fl. oz., 15 fl. oz.,<br>1 pint, 1 quart, 1 gallon              |                   | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label<br><input checked="" type="checkbox"/> On Labeling accompanying product |   |
| 6. Manner in Which Label is Affixed to Product<br><input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____<br><input checked="" type="checkbox"/> Paper glued<br><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<br><p style="text-align: center;">James L. Kunstman, Ph.D.</p>  | Title<br><p style="text-align: center;">Director of Regulatory Services</p>    | Telephone No. (Include Area Code)<br><p style="text-align: center;">816-460-6292</p> |
| Certification<br><i>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.</i> |  | 6. Date Application Received<br><b>(Stamped)</b>                                     |
| 2. Signature<br>  | 3. Title<br><p style="text-align: center;">Director of Regulatory Services</p> |  |
| 4. Typed Name<br><p style="text-align: center;">James L. Kunstman, Ph.D.</p>   | 5. Date<br><p style="text-align: center;">July 17, 2009</p>                    |  |





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# ACME® ORNAMEC® HERBICIDE

NOTIFICATION

## EPA Reg. No. 33955-559

JAN 15 2010

**ACTIVE INGREDIENT:**

Fluazifop-P-butyl: Butyl(R)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoate ..... 1.70%

**INERT INGREDIENTS:** ..... 98.30%

**TOTAL** ..... 100.00%

**THIS PRODUCT CONTAINS:**

0.125 lb (+) isomer (fluazifop-P-butyl) per gallon.

Contains petroleum distillates, xylene or xylene range aromatic solvent.

### 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 or inhaled. Causes eye irritation. May cause allergic skin reactions. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wear protective clothing, PVC gloves and apron and full face shield when handling or mixing concentrate. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of barrier laminate or viton. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

| 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.</li> <li>• 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 or clothing:</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>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give any liquid to the person. 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> |
| <p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.</p> |   |
| <p><b>Note to Physician:</b> Contains petroleum distillates - vomiting may cause aspiration pneumonia.</p>   |   |

**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.

**Physical and Chemical Hazards**

Combustible. Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Intended For Outdoor Domestic Use By Homeowners Only.

This labeling must be in the possession of the user at the time of application.

**GENERAL INFORMATION FOR ORNAMENTALS, TREES, SHRUBS AND GROWDCOVERS:**

Acme® Ornamec® can be used to control grass in many newly transplanted and established plantings of ornamentals, trees, shrubs and groundcovers. Acme® Ornamec® does not control broadleaf weeds or sedges.

**Control Symptoms** - Acme® Ornamec® is a systemic herbicide which moves from the treated foliage into the shoots, roots, rhizomes, stolons, and growing points of treated grass weeds. Acme® Ornamec® 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.

**WHEN TO APPLY:** Apply Acme® Ornamec® to actively growing grasses before they exceed the recommended growth stages shown in Table A. Apply the product when the first grass species in a mixed grass weed population reaches the recommended growth stage for treatment. Do not apply to grasses which have tillered, formed seedheads, or exceeded recommended growth stages. Do not apply Acme® Ornamec® to grasses which are stressed due to moisture, temperature, low soil fertility, mechanical or chemical injury. Do not apply to ornamentals that may be harvested for food within one year after application.

| <b>Table A. Annual and perennial grasses controlled by Acme® Ornamec®.</b> |  |
|--|--|
| <b>ANNUALS</b>   |  |
| <b>Grass Species</b>   | <b>Growth Stage</b>                                  |
| Barnyardgrass ( <i>Echinochloa crusgalli</i> )                             | 2 to 8 inches tall, before tillering and/or heading. |
| Broadleaf signalgrass ( <i>Brachiaria platyphylla</i> )                    |  |
| Crabgrass, large ( <i>Digitaria sanguinalis</i> )                          |  |
| Crabgrass, smooth ( <i>Digitaria ischaemum</i> )                           |  |
| Fall Panicum ( <i>Panicum dichotomiflorum</i> )                            |  |
| Field sandbur ( <i>Cenchrus pauciflorus</i> )                              |  |
| Foxtail, giant ( <i>Setaria faberi</i> )                                   |  |
| Foxtail, green ( <i>Setaria viridis</i> )                                  |  |
| Foxtail, yellow ( <i>Setaria lutescens</i> )                               |  |
| Goosegrass ( <i>Eleusine indica</i> )                                      |  |
| Guineagrass, seedling ( <i>Panicum maximum</i> )                           |  |
| Itchgrass ( <i>Rottboellia exaltata</i> )                                  |  |
| Johnsongrass, seedling ( <i>Sorghum halepense</i> )                        |  |
| Junglerice ( <i>Echinochloa colonum</i> )                                  |  |
| Prairie cupgrass ( <i>Eriochloa contracta</i> )                            |  |
| Shattercane ( <i>Sorghum bicolor</i> )                                     |  |
| Southern sandbur ( <i>Cenchrus echinatus</i> )                             |  |
| Southwestern cupgrass ( <i>Eriochloa gracilis</i> )                        |  |
| Texas panicum ( <i>Panicum texanum</i> )                                   |  |
| Wild proso millet ( <i>Panicum milliaceum</i> )                            |  |
| Witchgrass ( <i>Panicum capillare</i> )                                    |  |
| Woolly cupgrass ( <i>Eriochloa villosa</i> )                               |  |
| <b>PERENNIALS</b>  |  |
| Bermudagrass ( <i>Cynodon dactylon</i> )                                   | 4 to 8 inch runners                                  |
| Guineagrass ( <i>Panicum maximum</i> )                                     | 6 to 12 inches tall before seedhead initiation       |
| Quackgrass ( <i>Agropyron repens</i> )                                     | 6 to 10 inches                                       |
| Rhizome johnsongrass ( <i>Sorghum halepense</i> )                          | 8 to 18 inches tall and before boot stage            |
| Torpedograss* ( <i>Panicum repens</i> )                                    | 3 to 6 inches tall (1st application)                 |
| Wirestem muhly ( <i>Muhlenbergia frondosa</i> )                            | 4 to 12 inches tall before seedhead initiation       |
| *Three applications will be needed.  |  |

Acme® Ornamec® may be applied over-the-top and around those ornamentals with a tolerance rating of 1. Spray to ensure uniform coverage of target weeds. Over-the-top sprays may cause significant injury to those ornamentals with a tolerance rating of 2, 3 or 4. Direct the spray to avoid ornamental foliage and spot spray weeds only. Spray to ensure uniform coverage of target weeds. Tolerance ratings indicate ornamental injury from Acme® Ornamec® when sprayed over-the-top of ornamentals and are based on this scale.

| <b>Tolerance Rating</b> | <b>Tolerance Description</b> |
|-------------------------|------------------------------|
| 1                       | No detectable injury         |
| 2                       | Slight injury may occur      |
| 3                       | Significant injury may occur |
| 4                       | Severe injury may occur      |

**HOW TO USE:** Use hand held or pump-up sprayers. Mix 10 fluid ounces of product to one gallon of water. Apply spray to cover grass weeds. One gallon of spray will treat 1,000 to 1,200 square feet of ornamental plantings.

| <b>Optional instructions for 7.5 fluid ounce retail containers:</b>   |   |  |
|---|---|--|
| <b>HOW TO MIX:</b> Use hand held or pump-up sprayers. Mix amount of product to additional water to make final spray volume. Apply spray to cover grass weeds. |   |  |
| <b>Add this Amount of Acme® Ornamec® Herbicide</b>  | <b>With Water To Make this Spray Volume</b> | <b>Area To Be Treated, Square Feet</b> |
| 2.5 fl.oz. (4.5 Tbsp.)  | 32 fl.oz. (1 quart)                         | 250 to 300                             |
| 5 fl.oz.  | 2 quarts                                    | 500 to 600                             |
| 7.5 fl.oz.  | 3 quarts                                    | 750 to 900                             |

| <b>Optional instructions for 15 fluid ounce retail containers:</b>  |   |  |
|---|---|--|
| <b>HOW TO MIX:</b> Use hand held or pump-up sprayers. Mix amount of product to additional water to make final spray volume. Apply spray to cover grass weeds. |   |  |
| <b>Add this Amount of Acme® Ornamec® Herbicide</b>  | <b>With Water To Make this Spray Volume</b> | <b>Area To Be Treated, Square Feet</b> |
| 2.5 fl.oz. (4.5 Tbsp.)  | 32 fl.oz. (1 quart)                         | 250 to 300                             |
| 5 fl.oz.  | 2 quarts                                    | 500 to 600                             |
| 7.5 fl.oz.  | 3 quarts                                    | 750 to 900                             |
| 10 fl.oz.   | 1 gallon                                    | 1,000 to 1,200                         |
| 15 fl.oz.   | 1.5 gallons                                 | 1,500 to 1,800                         |

**Application Methods:**

A = Over the Top spray

B = Direct spray away from ornamentals

| <b>TABLE 1. BROADLEAF SHRUBS</b> |   |                |                  |               |
|----------------------------------|---|----------------|------------------|---------------|
| <b>Common Name</b>               | <b>Scientific Name</b>                  | <b>Variety</b> | <b>Tolerance</b> | <b>Method</b> |
| Glossy abelia                    | Abelia grandiflora                      |                | 1                | A             |
| Jacob's coat, Copperleaf         | Acalypha godseffiana                    |                | 4                | B             |
| Aloe                             | Aloe vera                               |                | 1                | A             |
| Aloe                             | Aloe zanzibarica                        |                | 1                | A             |
| Barbados aloe                    | Aloe barbadensis                        |                | 1                | A             |
| False spirea, Astilbe            | Astilbe x arendsii                      |                | 1                | A             |
| Saltbush, Orach                  | Atriplex sp.                            |                | 1                | A             |
| Japanese laurel                  | Aucuba japonica<br>Caesalpinia cacalaco | Variegata      | 1                | A             |
| Desert broom, Chaparral broom    | Baccharis pilularis                     |                | 3                | B             |
| Japanese barberry                | Berberis thunbergii                     | Crimson pygmy  | 1                | A             |
| Mentor barberry                  | Berberis mentorensis                    |                | 1                | A             |
| Cats claw, Yellow trumpet        | Bignonia tweediana                      |                | 2                | B             |
| Bougainvillea                    | Bougainvillea sp.                       |                | 1                | A             |
| Common boxwood                   | Buxus sempervirens                      | Welleri        | 1                | A             |
| Japanese boxwood                 | Buxus microphylla                       | Japonica       | 1                | A             |
| Korean boxwood                   | Buxus microphylla                       | Koreana        | 1                | A             |
| Bird of paradise                 | Caesalpinia gilliesii                   |                | 1                | A             |
| Bottle-brush                     | Callistemon lanceolatus                 |                | 1                | A             |
| Camellia                         | Camellia japonica                       |                | 1                | A             |
| Sasanqua camellia                | Camellia sasanqua                       |                | 1                | A             |
| Natal plum                       | Carissa grandiflora                     | Tuttlei        | 1                | A             |
| African cassia                   | Cassia didymobotrya                     |                | 1                | A             |
| Feathery cassia, Wormwood        | Cassia artemisioides                    |                | 1                | A             |
| Senna                            | Cassia bicapsularis                     |                | 3                | B             |



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| TABLE 1. BROADLEAF SHRUBS      |   |              |           |        |
|--------------------------------|---|--------------|-----------|--------|
| Common Name                    | Scientific Name                                 | Variety      | Tolerance | Method |
| Senna                          | Cassia sturtii                                  |              | 1         | A      |
| Grape ivy, Treebine            | Cissus rhombifolia                              | Ellen Danica | 1         | A      |
| Pagoda flower                  | Clerodendrum speciosum                          |              | 1         | A      |
| Cleyera                        | Cleyera spp.                                    |              | 1         | A      |
| Croton, Variegated laurel      | Codiaeum variegatum                             |              | 1         | A      |
| Coffee, Arabica coffee         | Coffea Arabica                                  |              | 1         | A      |
| Mirror plant                   | Coprosma baueri                                 |              | 1         | A      |
| Variegated mirror plant        | Coprosma repens                                 |              | 1         | A      |
| Cotoneaster                    | Cotoneaster microphyllus                        |              | 1         | A      |
| Cotoneaster                    | Cotoneaster repens                              |              | 1         | A      |
| Cotoneaster                    | Cotoneaster divaricatus                         |              | 1         | A      |
| Cranberry cotoneaster          | Cotoneaster apiculata                           |              | 1         | A      |
| Willowleaf cotoneaster         | Cotoneaster salicifolius                        | franch       | 1         | A      |
| Crossandra, Firecracker flower | Crossandra nilotica                             |              | 1         | A      |
| Slender deutzia                | Deutzia gracilis                                |              | 1         | A      |
| Bush honeysuckle               | Diervilla lonicera                              |              | 1         | A      |
| Brittlebush                    | Encelia farinose                                |              | 1         | A      |
| Escallonia                     | Escallonia fradessii                            |              | 1         | A      |
| Escallonia                     | Escallonia rubra                                |              | 1         | A      |
| Brush cherry                   | Eugenia myrtifolia                              |              | 1         | A      |
| Spindle tree                   | Euonymus japonica                               | Silver King  | 1         | A      |
| Winged splindle tree           | Euonymus alata                                  | Compacta     | 4         | B      |
| Fatshedera. Ivy tree, Aralia   | Fatshedera lizei                                |              | 1         | A      |
| Pineapple guava                | Feijoa sellowiana                               |              | 2         | B      |
| Creeping fig, Climbing fig     | Ficus repens                                    |              | 1         | A      |
| Exotica weeping fig            | Ficus benjamina                                 |              | 1         | A      |
| Rubber tree                    | Ficus elastica                                  | decora       | 1         | A      |
| Weeping fig, laurel            | Ficus benjamina                                 |              | 1         | A      |
| Border forsythia               | Forsythia x intermedia<br>Hesperaloe parviflora |              | 1         | A      |
| Forsythia                      | Forsythia intermedia                            |              | 1         | A      |
| Forsythia                      | Forsythia sp.                                   |              | 1         | A      |
| Weeping forsythia              | Forsythia suspense                              |              | 1         | A      |
| Octotillo, Vine cactus         | Fouquieria splendens                            |              | 1         | A      |
| Octotillo, Vine cactus         | Gamolepis chrysanthemoides                      |              | 2         | B      |
| Caricature plant               | Graptophyllum pictum                            |              | 1         | A      |
| Spider flower                  | Grevillea rosmarinifolia                        |              | 1         | A      |
| Lavender star plant            | Grewia caffra                                   |              | 2         | B      |
| Althea, Rose of Sharon         | Hibiscus syriacus                               |              | 1         | A      |
| Chinese hibiscus               | Hibiscus rose-sinensis                          |              | 1         | A      |
| Oakleaf hydrangea              | Hydrangea quercifolia                           |              | 1         | A      |
| Panicle hydrangea              | Hydrangea paniculata                            |              | 1         | A      |
| American holly                 | Ilex opaca                                      |              | 1         | A      |
| Compact inkberry               | Ilex glabra                                     |              | 1         | A      |
| Dwarf burford holly            | Ilex cornuta                                    |              | 1         | A      |
| Dwarf yaupon/Tall yaupon       | Ilex vomitoria                                  |              | 1         | A      |
| Fosteria holly                 | Ilex x attenuate                                |              | 1         | A      |
| Japanese holly                 | Ilex crenata                                    |              | 1         | A      |
| Meserve holly                  | Ilex x Meserveae                                |              | 1         | A      |

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| TABLE 1. BROADLEAF SHRUBS                  |  |                            |           |        |
|--|--|----------------------------|-----------|--------|
| Common Name                                | Scientific Name                        | Variety                    | Tolerance | Method |
| Ixora, Jungle geranium                     | <i>Ixora coccinea</i>                  |                            | 1         | A      |
| Justicia                                   | <i>Justicia spicigera</i>              | Firecracker                | 1         | A      |
| King's crown, Plume flower, Flamingo plant | <i>Justicia carnea</i>                 |                            | 3         | B      |
| Mexican indigo                             | <i>Justicia spicigera</i>              |                            | 1         | A      |
| Shrimp plant, False hop                    | <i>Justicia brandegeana</i>            |                            | 3         | B      |
| Water willow                               | <i>Justicia ghiesbreghtiana</i>        |                            | 1         | A      |
| Crape myrtle                               | <i>Lagerstroemia indica</i>            |                            | 1         | A      |
| Texas sage                                 | <i>Leptospermum frutescens</i>         |                            | 1         | A      |
| Fetterbush                                 | <i>Leucothoe axillaries</i>            |                            | 2         | B      |
| Gay feather, Blazing star                  | <i>Liatris spicata</i>                 |                            | 1         | A      |
| Amur privet                                | <i>Ligustrum amurense</i>              |                            | 1         | A      |
| California privet                          | <i>Ligustrum ovalifolium</i>           |                            | 1         | A      |
| Japanese privet                            | <i>Ligustrum japonicum</i>             |                            | 2         | B      |
| Texas privet                               | <i>Ligustrum texanum</i>               |                            | 1         | A      |
| Vicari                                     | <i>Ligustrum x Vicari</i>              |                            | 1         | A      |
| Fly honeysuckle                            | <i>Lonicera xylosteum</i>              | Emerald Mound              | 1         | A      |
| Desert fern tree                           | <i>Lysiloma thornberii</i>             |                            | 1         | A      |
| Star Magnolia                              | <i>Magnolia stellata</i>               |                            | 1         | A      |
| Holly Mahonia, Oregon grape                | <i>Mahonia aquifolium</i>              |                            | 1         | A      |
| Myoporum                                   | <i>Myoporum sp.</i>                    |                            | 1         | A      |
| Wax myrtle                                 | <i>Myrica cerifera</i>                 |                            | 1         | A      |
| Heavenly bamboo                            | <i>Nandina domestica</i>               |                            | 2         | B      |
| Oleander                                   | <i>Nerium oleander</i>                 |                            | 2         | B      |
| Oleander: pink, variegated, petite         | <i>Nerium oleander</i>                 |                            | 1         | A      |
| Red justicia                               | <i>Odontonema strictum</i>             |                            | 3         | B      |
| Osmanthus, tea olive                       | <i>Osmanthus fragans</i>               |                            | 1         | A      |
| Yellow shrimp plant                        | <i>Pachystachys lutea</i>              |                            | 3         | B      |
| Mock orange                                | <i>Philadelphus coronarius</i>         | Aurea                      | 1         | A      |
| Photinia                                   | <i>Photinia x fraseri</i>              |                            | 1         | A      |
| Ninebark                                   | <i>Physocarpus opulifolius</i>         |                            | 1         | A      |
| Lily-of-the-valley bush, Pieris            | <i>Pieris japonica</i>                 |                            | 1         | A      |
| Desert willow, narrowleaf pittosporum      | <i>Pittosporum phillyraeoides</i>      |                            | 1         | A      |
| Japanese pittosporum                       | <i>Pittosporum tobira</i>              | Variegated                 | 1         | A      |
| Cane plumbago                              | <i>Plumbago capensis</i>               |                            | 1         | A      |
| Ming aralia                                | <i>Polyscias fruitcosa</i>             |                            | 1         | A      |
| Cinquefoil                                 | <i>Potentilla verna</i>                |                            | 2         | B      |
| Potentilla, Shrubby cinquefoil             | <i>Potentilla fruticosa</i>            | Gold drop, Primrose beauty | 1         | A      |
| Giant protea, King protea                  | <i>Protea cynaroids</i>                |                            | 1         | A      |
| Oleander-leaved protea                     | <i>Protea nerifolia</i>                |                            | 1         | A      |
| Protea                                     | <i>Protea compacta</i>                 |                            | 1         | A      |
| Purple false eranthemum                    | <i>Pseuderanthemum atropurpureum</i>   |                            | 1         | A      |
| Mojave firethorn, pyracantha               | <i>Pyracantha koidzumii x coccinea</i> |                            | 1         | A      |
| Pyracantha or firethorn                    | <i>Pyracantha graberi</i>              |                            | 1         | A      |
| Pyracantha, firethorn                      | <i>Pyracantha koidzumii</i>            | Lodense                    | 1         | A      |
| Scarlet firethorn                          | <i>Pyracantha coccinea</i>             | Lalandei                   | 1         | A      |
| Variegated firethorn                       | <i>Pyracantha angustifolia</i>         |                            | 1         | A      |

| TABLE 1. BROADLEAF SHRUBS      |   |  |           |        |
|--------------------------------|---|--|-----------|--------|
| Common Name                    | Scientific Name   | Variety  | Tolerance | Method |
| Hawthorn, Indian               | Raphiolepis indica  |  | 1         | A      |
| Hawthorn, Yedda                | Raphiolepis umbellate                                       |  | 1         | A      |
| Tallhedge buckthorn            | Rhamnus frangula  |  | 1         | A      |
| Catawba Rhododendron           | Rhododendron catawbiense                                    | Less dark purple,<br>Purpureum elegans,<br>White cattauba,<br>Roseum elegans,<br>Purple elegans,<br>Roseum superbum,<br>English roseum   | 1         | A      |
| Hiryu azalea                   | Rhododendron obtusum  | Hino Crimson   | 4         | B      |
| Hiryu azalea                   | Rhododendron obtusum  | Hershey's Red,<br>Hinodegiri, Hino pink  | 3         | B      |
| Hiryu azalea                   | Rhododendron obtusum  | Amoenum, Coral bells   | 1         | A      |
| Hiryu azalea, Kirishima azalea | Rhododendron obtusum  | Eureka and Kurume  | 2         | B      |
| Korean azalea, Yodogawa azalea | Rhododendron yedoense                                       | Poukhanense  | 1         | A      |
| Korean azalea                  | Rhododendron poukhanensis                                   |  | 3         | B      |
| Macranthum azalea              | Rhododendron indicum  | Indica   | 2         | B      |
| Macranthum azalea              | Rhododendron indicum  | Formosa  | 3         | B      |
| P.J.M. Hybrids of Rododendron  | Rhododendron x. carolinianum x.<br>R. dauricum sempervirens |  | 2         | B      |
| Rhododendron                   | Rhododendron sp.  | Blaauw's pink,<br>Rutherfordiana<br>Constance, White<br>cascade, Prize, Kluis<br>sensation, Sweetheart,<br>Kaempo, Royalty, Hahm<br>red, Red wing,<br>Gumpo white, Salmon<br>Spray, Road runner,<br>Tradition, Gloria,<br>Gumpo pink, Greeting,<br>Pink pearl, Pericat,<br>Tabor, Mother's Day,<br>Snow, Masasoit, Red<br>ruffle, Delaware Valley<br>white, Purple Gem, H.H.<br>Hume, Stewartsonian,<br>Hino red, Rosebud,<br>Fashion, Herbert,<br>Gibraltar,<br>Gerard's rose, Boule de<br>neige, President Lincoln | 1         | A      |
| Rhododendron "Gable Hybrid"    | Rhododendron "Gable Hybrid"                                 | Elizabeth Gable, Purple<br>splendor, Rose greely   | 1         | A      |
| Rhododendron                   | Rhododendron formosa  |  | 1         | A      |
| Fragrant sumac                 | Rhus aromatica  |  | 3         | B      |
| Banksia rose                   | Rosa banksiae   |  | 1         | A      |
| Hybrid tea rose                | Rosa hybrida  |  | 1         | A      |
| Rose                           | Rosa sp.  |  | 1         | A      |
| Lavender cotton, Santolina     | Santolina chamaecy parissus                                 |  | 1         | A      |
| Jojoba, goat nut               | Simmondsia chinensis  |  | 1         | A      |
| Billiard spirea                | Spiraea x billiardii  |  | 1         | A      |

| Common Name                               | Scientific Name                     | Variety                                   | Tolerance | Method |
|---|-------------------------------------|---|-----------|--------|
| Snowmound spirea                          | <i>Spiraea nipponica</i>            |   | 1         | A      |
| Spiraea or Bridal wreath                  | <i>Spiraea x bumalda</i>            | Anthony Waterer,<br>Froebelii, Gold Flame | 1         | A      |
| Crispa spirea                             | <i>Spiraea x bumalda</i>            |   | 1         | A      |
| Vanhoutte spirea                          | <i>Spiraea x vanhouteii</i>         |   | 2         | B      |
| Firewheel tree, Wheel of fire             | <i>Stenocarpus sinuatus</i>         |   | 1         | A      |
| Chinese lilac                             | <i>Syringa chinensis</i>            |   | 2         | B      |
| Korean lilac                              | <i>Syringa patula</i>               |   | 1         | A      |
| Lilac                                     | <i>Syringa meyeri</i>               | Palibin                                   | 1         | A      |
| Lilac                                     | <i>Syringa villosa</i>              |   | 1         | A      |
| Australian brush cherry                   | <i>Syzygium paniculatum</i>         |   | 1         | A      |
| Cape honeysuckle                          | <i>Tecomaria capensis</i>           |   | 1         | A      |
| Cleyera                                   | <i>Ternstroemia gymnanthera</i>     |   | 1         | A      |
| Laurel-leaved thunbergia                  | <i>Thunbergia laurifolia</i>        |   | 3         | B      |
| Asiatic jasmine                           | <i>Trachelospermum asiaticum</i>    |   | 1         | A      |
| Ornamental blueberry, Rabbiteye blueberry | <i>Vaccinium ashei</i>              |   | 3         | B      |
| Compact cranberrybush viburnum            | <i>Viburnum trilobum</i>            |   | 1         | A      |
| Cranberry bush                            | <i>Viburnum opulus</i>              | Nanum                                     | 1         | A      |
| Doublefile viburnum                       | <i>Viburnum plicatum</i>            | Tomentosum                                | 1         | A      |
| Sandankwa viburnum                        | <i>Viburnum suspensum</i>           |   | 1         | A      |
| Viburnum                                  | <i>Viburnum x juddii</i>            | Judd                                      | 1         | A      |
| Viburnum                                  | <i>Viburnum odoratissimum</i>       |   | 1         | A      |
| Viburnum/willowwood                       | <i>Viburnum x rhytidophylloides</i> |   | 1         | A      |
| Pink weigelia                             | <i>Weigela florida</i>              |   | 1         | A      |
| Weigela                                   | <i>Weigela florida</i>              | Newport red                               | 1         | A      |

| Common Name            | Scientific Name               | Variety    | Tolerance | Method |
|------------------------|-------------------------------|------------|-----------|--------|
| Acacia                 | <i>Acacia latifolia</i>       |            | 3         | B      |
| Shoe-string acacia     | <i>Acacia stenophylla</i>     |            | 1         | A      |
| Sweet acacia           | <i>Acacia farnesiana</i>      |            | 3         | B      |
| Willow acacia          | <i>Acacia saligna</i>         |            | 1         | A      |
| Willow-leaved acacia   | <i>Acacia salicina</i>        |            | 1         | A      |
| Japanese maple         | <i>Acer palmatum</i>          |            | 1         | A      |
| Norway maple           | <i>Acer platanoides</i>       |            | 1         | A      |
| Red maple              | <i>Acer rubrum</i>            |            | 2         | B      |
| Silver maple           | <i>Acer saccharinum</i>       |            | 1         | A      |
| Australia tree fern    | <i>Alsophia australis</i>     |            | 4         | B      |
| Strawberry tree        | <i>Arbutus unedo</i>          |            | 2         | B      |
| Birch/River            | <i>Betula nigra</i>           |            | 4         | B      |
| Bottle tree, Kurrajong | <i>Brachychiton populneus</i> |            | 3         | B      |
| Carob tree             | <i>Ceratonia siliqua</i>      |            | 1         | A      |
| Palo verde             | <i>Cercidium floridum</i>     |            | 3         | B      |
| Red bud                | <i>Cercis Canadensis</i>      |            | 1         | A      |
| Fiddlewood             | <i>Citharexylum spinosum</i>  |            | 3         | B      |
| Grapefruit             | <i>Citrus paradise</i>        |            | 1         | A      |
| Sour orange            | <i>Citrus aurantium</i>       |            | 1         | A      |
| American dogwood       | <i>Cornus sericea</i>         | Flaviramea | 1         | A      |

| TABLE 2 BROADLEAF TREES             |                             |                  |           |        |
|-------------------------------------|-----------------------------|------------------|-----------|--------|
| Common Name                         | Scientific Name             | Variety          | Tolerance | Method |
| Cornelian cherry dogwood            | Cornus mas                  |                  | 1         | A      |
| Flowering dogwood                   | Cornus florida              |                  | 1         | A      |
| Red twig dogwood                    | Cornus sericea              |                  | 1         | A      |
| Carrot wood                         | Cupaniopsis anacardiopsis   |                  | 3         | B      |
| Purple hopseed bush                 | Dodonea viscosa purpurea    |                  | 1         | A      |
| Russian olive                       | Elaeagnus angustifolia      |                  | 1         | A      |
| Fastadiata, Swamp immortelle        | Erythrina fusca             |                  | 1         | A      |
| Desert gum                          | Eucalyptus rudis            |                  | 1         | A      |
| Gum-barked coolibah                 | Eucalyptus microtheca       |                  | 1         | A      |
| Lemon-scented gum                   | Eucalyptus citriodora       |                  | 2         | B      |
| Narrow-leaved black peppermint      | Eucalyptus nicholii         |                  | 3         | B      |
| Narrow-leaf gimlet,<br>Swamp mallee | Eucalyptus spathulata       |                  | 1         | A      |
| Red box gum, Silver dollar gum      | Eucalyptus polyanthemos     |                  | 1         | A      |
| Red gum                             | Eucalyptus rostrata         |                  | 1         | A      |
| Arizona ash                         | Fraxinus velutina           |                  | 1         | A      |
| Honey locust/shade master           | Gleditsia triacanthos       | inermis          | 1         | A      |
| Silk oak                            | Grevillea robusta           |                  | 1         | A      |
| Jacaranda                           | Jacaranda acutifolia        |                  | 1         | A      |
| Australian tea tree                 | Leptospermum laevigatum     |                  | 1         | A      |
| American sweetgum                   | Liquidambar styraciflua     |                  | 1         | A      |
| Oregon grapeholly                   | Magnolia sp.                |                  | 1         | A      |
| Southern magnolia                   | Magnolia grandiflora        |                  | 3         | B      |
| Showy crabapple                     | Malus floribunda            |                  | 1         | A      |
| New Zealand christmas tree          | Metrosideros excelsus       |                  | 1         | A      |
| Ethiopia banana                     | Musa maurelli               |                  | 1         | A      |
| Olive tree                          | Olea europaea               |                  | 1         | A      |
| Desert Ironwood                     | Olneya tesota               |                  | 1         | A      |
| Green palo verde, Jerusalem thorn   | Parkinsonia aculeate        |                  | 1         | A      |
| Golden bamboo                       | Phyllostachys aurea         |                  | 1         | A      |
| Dwarf Ninebark                      | PHYSOCARPUS opulifolius     | Nanus, Gold drop | 1         | A      |
| Temple tree                         | Plumeria acuminata          |                  | 2         | B      |
| Chilean mesquite                    | Prosopis chilensis          |                  | 1         | A      |
| Carolina cherry, Ornamental cherry  | Prunus caroliniana compacta |                  | 1         | A      |
| Flowering almond                    | Prunus triloba              |                  | 1         | A      |
| Bradford pear, Ornamental pear      | Pyrus calleryana            |                  | 1         | A      |
| Oak, live                           | Quercus virginiana          |                  | 1         | A      |
| African sumac standard              | Rhus lancea                 |                  | 1         | A      |
| Corkscrew willow                    | Salix matsudana             | Tortuosa         | 1         | A      |
| Weeping willow                      | Salix alba                  |                  | 1         | A      |
| Brazilian peppertree                | Schinus terebinthifolius    |                  | 1         | A      |
| California peppertree               | Schinus molle               |                  | 1         | A      |
| Giant bird of paradise tree         | Strelitzia nicolai          |                  | 1         | A      |
| Yellow bells                        | Tecoma stans                | angustate        | 1         | A      |
| Yellow oleander tree                | Thevetia peruviana          |                  | 1         | A      |
| Star jasmine                        | Trachelospermum jasminoides |                  | 1         | A      |
| Xylosma                             | Xylosma congestum           |                  | 1         | A      |

| TABLE 3 GROUNDCOVERS                  |                                |   |           |        |
|---------------------------------------|--------------------------------|---|-----------|--------|
| Common Name                           | Scientific Name                | Variety   | Tolerance | Method |
| Variiegated ajuga, Carpet bugleweed   | Ajuga reptans                  |   | 2         | B      |
| Bugleweed                             | Ajuga variegata                |   | 2         | B      |
| Bearberry, Kinnikinick                | Arctostaphylos uva-ursi        |   | 1         | A      |
| Asparagus fern                        | Asparagus densiflorus          | Myres, Sprenger   | 1         | A      |
| Coromandel                            | Asystasia gangetica            |   | 3         | B      |
| Scotch heather                        | Calluna vulgaris               |   | 1         | A      |
| Ceanothus                             | Ceanothus griseu               |   | 2         | B      |
| Snow in summer                        | Cerastium tomentosum           |   | 1         | A      |
| Rockrose                              | Cistus hybridus                |   | 1         | A      |
| Bush morningglory                     | Convolvulus oneorum            |   | 1         | A      |
| Bearberry cotoneaster                 | Cotoneaster dammeri            | Coral beauty, Royal beauty  | 1         | A      |
| White iceplant (trailing)             | Delosperma alba                |   | 3         | B      |
| Pothos, Pothos vine                   | Epipremnum aureum              | Marble Queen  | 3         | B      |
| Ornamental strawberry                 | Fragaria chiloensis            |   | 1         | A      |
| Gazania gold rush                     | Gazania splendens              |   | 1         | A      |
| Treasure flower                       | Gazania ringens                | Leucolaena  | 2         | B      |
| Algerian ivy                          | Hedera canariensis             |   | 1         | A      |
| English ivy                           | Hedera helix                   |   | 1         | A      |
| Hahn's ivy                            | Hedera helix                   | hahnii  | 1         | A      |
| Waffle plant/Metallic plant, Red ivy  | Hemigraphis sp.                |   | 1         | A      |
| Japanese honeysuckle                  | Lonicera japonica              |   | 2         | B      |
| Chinese juniper                       | Juniperus chinensis            | Blue vase   | 1         | A      |
| Chinese juniper                       | Juniperus chinensis procumbens | Variegata   | 2         | B      |
| Japgarden juniper                     | Juniperus procumbens           |   | 1         | A      |
| Savin juniper                         | Juniperus Sabina               | Arcadia, Prostrata, Tamariscifolia, Scandia Variegated, Broadmoor | 2         | B      |
| Savin juniper                         | Juniperus Sabina               | Scandia, Pepin, Buffalo   | 1         | A      |
| Shore juniper                         | Juniperus conferta             |   | 1         | A      |
| Shore juniper                         | Juniperus conferta             | Blue Pacific  | 2         | B      |
| Creeping juniper                      | Juniperus horizontalis         | Plumosa   | 1         | A      |
| Creeping juniper                      | Juniperus horizontalis         | Blue rug, Wiltonii, Hughes, Youngtown compacta                    | 2         | B      |
| White lantana                         | Lantana montevidensis          |   | 2         | B      |
| Liriope                               | Liriope spicata                |   | 1         | A      |
| Green liriope/Variegated liriope      | Liriope muscari                |   | 1         | A      |
| Moneywort/Wandering Sally             | Lysimachia nummularia          |   | 1         | A      |
| White African daisy                   | Osteospermum fruticosum alba   |   | 1         | A      |
| Japanese pachysandra, Japanese spurge | Pachysandra terminalis         |   | 1         | A      |
| Ivy geranium                          | Pelargonium peltatum           |   | 1         | A      |
| Capeweed                              | Phyla nodiflora                |   | 1         | A      |
| Creeping Charlie                      | Pilea nummulariifolia          |   | 1         | A      |
| Rosemary                              | Rosmarinus officinalis         | prostratus  | 1         | A      |
| Brown beam                            | Sedum guatemalense             |   | 1         | A      |
| Christmas cheer                       | Sedum x rubrotinctum           |   | 1         | A      |

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| Common Name               | Scientific Name           | Variety | Tolerance | Method |
|---------------------------|---------------------------|---------|-----------|--------|
| Green stone crop, Sedum   | Sedum brevifolium         |         | 1         | A      |
| Sedum                     | Sedum spectabile          |         | 1         | A      |
| Asiatic jasmine           | Trachelospermum asiaticum |         | 1         | A      |
| Crown Vetch               | Vicia sp.                 |         | 1         | A      |
| Periwinkle                | Vinca major               |         | 1         | A      |
| Periwinkle, Myrtle, dwarf | Vinca minor               |         | 1         | A      |

| Common Name  | Scientific Name              | Variety         | Tolerance | Method |
|--|------------------------------|-----------------|-----------|--------|
| Common yarrow  | Achillea millefolium         |                 | 1         | A      |
| Fernleaf yarrow  | Achillea filipendulina       | Coronation gold | 1         | A      |
| Peter Pan lily of the Nile, African lily                     | Agapanthus africanus         |                 | 1         | A      |
| Ageratum   | Ageratum sp.                 |                 | 1         | A      |
| Fransher evergreen, Silver Queen evergreen, Ribbon evergreen | Aglaonema commutatum         |                 | 1         | A      |
| Painted drop-tongue  | Aglaonema crispum            |                 |           | A      |
| Hollyhock  | Alcea rosea                  |                 | 1         | A      |
| Chives   | Allium schoenopresum         |                 |           | A      |
| Alyssum  | Alyssum sp.                  |                 | 1         | A      |
| Snapdragon   | Antirrhinum                  |                 | 1         | A      |
| Columbine  | Aquilegia hybrida            |                 | 2         | B      |
| Sandwort   | Arenaria verna               |                 | 1         | A      |
| Field marigold, Pot marigold                                 | Calendula sp.                |                 | 1         | A      |
| Bellflower   | Campanula carpatica          |                 | 1         | A      |
| Madagascar periwinkle  | Catharanthus roseus          |                 | 4         | B      |
| Dusty miller   | Centaurea cineraria          |                 | 1         | A      |
| Spider plant, Ribbon plant                                   | Chlorophytum comosum         |                 | 4         | B      |
| Shasta daisy   | Chrysanthemum x superbum     |                 | 1         | A      |
| Kaffir lily  | Clivia miniata               |                 | 1         | A      |
| Coleus   | Coleus x hybridus            |                 | 1         | A      |
| Cordylone, Dracaena  | Cordylone stricta            |                 | 3         | B      |
| Ti, Goodluck plant   | Cordylone terminalis         |                 | 1         | A      |
| Threadleaf coreopsis   | Coreopsis verticillata       |                 | 1         | A      |
| Umbrella plant, Umbrella palm                                | Cyperus alternifolius        |                 | 3         | B      |
| Sweet William  | Dianthus barbatus            |                 | 1         | A      |
| Bleeding heart   | Dicentra spectabilis         |                 | 3         | B      |
| Giant dumbcane   | Dieffenbachia amoena         |                 | 1         | A      |
| Dracaena   | Dracaena deremensis          |                 | 3         | B      |
| Dracaena, Corn plant   | Dracaena fragans             | Massangeana     | 2         | B      |
| Tricolor dracaena  | Dracaena marginata           |                 | 2         | B      |
| Euonymus   | Euonymus fortunei            |                 | 1         | A      |
| Spreading euonymus   | Euonymus kiautschovica       |                 | 1         | A      |
| Winged spindle tree  | Euonymus alata               | Siebold         | 1         | A      |
| Grayleaf daisy   | Euryops pectinatus           |                 | 1         | A      |
| Gardenia, dwarf  | Gardenia jasminoides         |                 | 1         | A      |
| Gazania  | Gazania uniflora leucholaena |                 | 1         | A      |
| Treasure flower  | Gazania rigens               |                 | 2         | B      |

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| TABLE 4 HERBACEOUS PLANTS                  |  |                                    |           |        |
|--|--|------------------------------------|-----------|--------|
| Common Name                                | Scientific Name                          | Variety                            | Tolerance | Method |
| Carolina jessamine, Evening trumpet flower | Gelsemium sempervirens                   |                                    | 1         | A      |
| Geranium                                   | Geranium pretense                        | Cranesbill                         | 1         | A      |
| Gladiolus                                  | Gladiolus x hortulanus                   | Gallery                            | 2         | B      |
| Gladiolus                                  | Gladiolus x hortulanus                   | Debbie, Jennie, Mahogany, Stargaze | 1         | A      |
| Daylily                                    | Hemerocallis hybrids                     |                                    | 1         | A      |
| Green carpet, Rupturewort                  | Herniaria glabra                         |                                    | 2         | B      |
| Variiegated hosta                          | Hosta lancifolia                         |                                    | 1         | A      |
| Candytuff                                  | Iberis sempervirens                      |                                    | 1         | A      |
| Iris                                       | Iris sp.                                 |                                    | 1         | A      |
| Blue star creeper                          | Isotoma sp.                              |                                    | 1         | A      |
| Chandelier plant                           | Kalanchoe tubiflora                      |                                    | 4         | B      |
| Lavender-scallopes                         | Kalanchoe fedtschenkoi                   |                                    | 4         | B      |
| Compact burningbush                        | Kochia scoparia trychophylla             |                                    | 1         | A      |
| Bush lantana                               | Lantana camara                           |                                    | 1         | A      |
| Purple lantana (trailing)                  | Lantana sellowiana                       |                                    | 1         | A      |
| Liriope                                    | Liriope spicata                          |                                    | 1         | A      |
| Morrow honeysuckle                         | Lonicera x morrowii                      |                                    | 1         | A      |
| Purple trailing ice plant                  | Mesembryanthemum lampranthus             |                                    | 1         | A      |
| Red spike ice plant                        | Mesembryanthemum lampranthus spectabilis |                                    | 1         | A      |
| Rose ice plant                             | Mesembryanthemum drosanhemum hispidum    |                                    | 1         | A      |
| Sword fern                                 | Nephrolepsis exaltata                    |                                    | 1         | A      |
| Mexican evening primrose                   | Oenothera berlandier                     |                                    | 3         | B      |
| Passion flower                             | Passiflora pfordtii                      |                                    | 1         | A      |
| Geranium, Martha Washington geranium       | Pelargonium domesticum                   |                                    | 1         | A      |
| Baby rubber plant                          | Peperomia obtusifolia                    |                                    | 3         | B      |
| Radiator plant                             | Peperomia scandens                       |                                    | 1         | A      |
| Petunia                                    | Petunia sp.                              |                                    | 1         | A      |
| Philodendron                               | Philodendron sp.                         |                                    | 2         | B      |
| Philodendron                               | Philodendron selloum                     |                                    | 1         | A      |
| Velvetleaf philodendron                    | Philodendron oxycardium                  | Micans                             | 1         | A      |
| Swedish ivy                                | Plectranthus australis                   |                                    | 3         | B      |
| Pinkhead knotweed                          | Polygonum capitatum                      |                                    | 3         | B      |
| Leatherleaf fern                           | Polystichum capense                      |                                    | 1         | A      |
| Ruellia                                    | Ruellia ciliosa                          |                                    | 2         | B      |
| Salvia                                     | Salvia greggii                           |                                    | 1         | A      |
| Sansevierias                               | Sansevieria sp.                          |                                    | 1         | A      |
| Mother-in-law's tongue, Snake plant        | Sansvieria trifasciata                   | Hahnii                             | 1         | A      |
| Hen and chickens, common houseleek         | Sempervivum tectorum                     |                                    | 1         | A      |
| Spiderwort                                 | Setcreasea purpurea                      | Purple heart                       | 4         | B      |
| Annual statice                             | Statice sinuate                          |                                    | 1         | A      |
| Bird of paradise                           | Strelitzia reginae                       |                                    | 1         | A      |
| Marigold                                   | Tagetes sp.                              |                                    | 1         | A      |
| Oyster plant, Salsify                      | Tragopogon porrifolius                   |                                    | 2         | B      |



**TABLE 4 HERBACEOUS PLANTS**

| Common Name               | Scientific Name      | Variety | Tolerance | Method |
|---------------------------|----------------------|---------|-----------|--------|
| Strawberry clover         | Trifolium fragiferum |         | 1         | A      |
| Spanish dagger            | Yucca gloriosa       |         | 1         | A      |
| Weeping dagger            | Yucca pendula        |         | 1         | A      |
| Yucca                     | Yucca filamentosa    |         | 1         | A      |
| Wandering jew, Inch plant | Zebrina pendula      |         | 4         | B      |
| Zinnia                    | Zinnia sp.           |         | 1         | A      |

**TABLE 5 NEEDLED EVERGREENS**

| Common Name                                | Scientific Name           | Variety  | Tolerance | Method |
|--|---------------------------|--|-----------|--------|
| Concolor fir                               | Abies concolor            |  | 1         | A      |
| Fraser fir                                 | Abies fraseri             |  | 2         | B      |
| Noble fir                                  | Abies procera             |  | 1         | A      |
| Norfolk Island pine                        | Araucaria heterophylla    |  | 1         | A      |
| Hinoki falsecypress                        | Chamaecyparis obtuse      |  | 1         | A      |
| Allum Lawson cypress                       | Chamaecypraris lawsoniana |  | 1         | A      |
| Sawara cypress                             | Chamaecyparis pisifera    | Plumosa  | 1         | A      |
| Leyland cypress                            | Cupressocyparis leylandi  |  | 2         | B      |
| Italian cypress                            | Cupressus sempervirens    |  | 1         | A      |
| Red cedar, Eastern red cedar               | Juniperus virginiana      | Burkii   | 3         | B      |
| Red cedar                                  | Juniperus virginiana      | Grey owl, Sky Rocket   | 2         | B      |
| Red cedar                                  | Juniperus virginiana      |  | 1         | A      |
| Creeping juniper                           | Juniperus horizontalis    | Admiral  | 1         | A      |
| Creeping juniper                           | Juniperus horizontalis    | Bar Harbor, Blue Chip, Prince of Wales   | 4         | B      |
| Chinese juniper                            | Juniperus chinensis       | Hetzii, Torulosa, Gold tip, Nicks compact juniper, Keteleeri, Hollywood, Blue Point, Blue vase juniper, Parsoni, Gold coast juniper, Sargentii | 1         | A      |
| Chinese juniper                            | Juniperus chinensis       | Pfitzeriana, Nana, Old Gold, Robusta Green, Maney, Spearmint   | 2         | B      |
| Chinese juniper                            | Juniperus chinensis       | Armstrong  | 3         | B      |
| Chinese juniper                            | Juniperus chinensis       | Sea Green  | 4         | B      |
| Jaggarden juniper                          | Juniperus procumbens      |  | 1         | A      |
| Rocky Mountain juniper, Colorado red cedar | Juniperus scopulorum      | Pathfinder, Welchii  | 2         | B      |
| Rocky Mountain juniper, Colorado red cedar | Juniperus scopulorum      | Blue Haven   | 4         | B      |
| Rocky Mountain juniper, Colorado red cedar | Juniperus scopulorum      | Witchita blue, Cologreen   | 1         | A      |
| Colorado red cedar, Rocky Mountain juniper | Juniperus scopulorum      |  | 3         | B      |
| Savin juniper                              | Juniperus Sabina          | Pepin, Buffalo   | 1         | A      |
| Blue spruce                                | Picea pungens             |  | 1         | A      |
| Norway spruce                              | Picea abies               |  | 1         | A      |
| Serbian spruce                             | Picea omorika             |  | 1         | A      |
| White spruce                               | Picea glauca              | Dwarf Alberta, Black Hills, Densata  | 1         | A      |

| <b>TABLE 5 NEEDLED EVERGREENS</b>     |                                |   |                  |               |
|---------------------------------------|--------------------------------|---|------------------|---------------|
| <b>Common Name</b>                    | <b>Scientific Name</b>         | <b>Variety</b>  | <b>Tolerance</b> | <b>Method</b> |
| Austrian pine/Black pine              | <i>Pinus nigra</i>             |   | 1                | A             |
| Canary Island pine                    | <i>Pinus canariensis</i>       |   | 1                | A             |
| Dwarf Swiss mountain pine             | <i>Pinus mugo</i>              |   | 1                | A             |
| Eastern white pine                    | <i>Pinus strobes</i>           |   | 1                | A             |
| Mexican border pine                   | <i>Pinus strobiformus</i>      |   | 1                | A             |
| Red pine                              | <i>Pinus resinosa</i>          |   | 1                | A             |
| Scotch pine                           | <i>Pinus sylvestris</i>        |   | 1                | A             |
| Western yellow pine or Ponderosa pine | <i>Pinus ponderosa</i>         |   | 1                | A             |
| African fern pine                     | <i>Podocarpus gracilior</i>    |   | 1                | A             |
| Southern yew, Japanese yew            | <i>Podocarpus macrophyllus</i> | Maki  | 2                | B             |
| Yew pine                              | <i>Podocarpus macrophylla</i>  |   | 1                | A             |
| Douglas fir                           | <i>Pseudotsuga menziessi</i>   |   | 1                | A             |
| Anglojap yew, Dense yew               | <i>Taxus x media</i>           | Thayerae, Hicksii, Densiformis                                  | 1                | A             |
| Japanese yew                          | <i>Taxus cuspidate</i>         |   | 1                | A             |
| American arborvitae, White cedar      | <i>Thuja occidentalis</i>      | Emerald green, Woodwardii, Techny, Pyramidalis, Globosa, Techny | 1                | A             |
| Oriental arborvitae                   | <i>Thuja orientalis</i>        | Berkman's   | 1                | A             |
| Eastern hemlock                       | <i>Tsuga Canadensis</i>        |   | 1                | A             |

| <b>TABLE 6 PALMS, CACTUS, SUCCULENTS, GRASSES</b> |   |                    |                  |               |
|---|---|--------------------|------------------|---------------|
| <b>Common Name</b>                                | <b>Scientific Name</b>                    | <b>Variety</b>     | <b>Tolerance</b> | <b>Method</b> |
| Queen palm  | <i>Acrecastrum romanzoffianum</i>         |                    | 1                | A             |
| Century plant, American aloe                      | <i>Agave Americana</i>                    |                    | 1                | A             |
| Baby sun rose                                     | <i>Aptenia cordifolia</i>                 | Hearts and flowers | 3                | B             |
| Saguaro cactus                                    | <i>Carnegiea gigantean</i>                |                    | 1                | A             |
| Mediterranean fan palm                            | <i>Chamaerops humilis</i>                 |                    | 1                | A             |
| Windmill palm                                     | <i>Chamaerops excelsa</i>                 |                    | 1                | A             |
| Golden fruited palm, Yellow palm                  | <i>Chrysalidocarpus lutescens</i> (small) |                    | 1                | A             |
| Pampas grass                                      | <i>Cortederia selloana</i>                |                    | 4                | B             |
| Jade plant, Dollar plant                          | <i>Crassula argentea</i>                  |                    | 3                | B             |
| Sago palm   | <i>Cycas revolute</i>                     |                    | 1                | A             |
| Hedgehog cactus                                   | <i>Echniocactus</i> sp.                   |                    | 1                | A             |
| Candelabra cactus, Falsecactus                    | <i>Euphorbia lacteal</i>                  |                    | 1                | A             |
| Barrel cactus                                     | <i>Ferocactus</i> sp.                     |                    | 1                | A             |
| Chinese fan palm                                  | <i>Livistona chinensis</i>                |                    | 1                | A             |
| Mondo grass                                       | <i>Ophiopogon japonicum</i>               |                    | 2                | B             |
| Cholla cactus                                     | <i>Opuntia cholla</i>                     |                    | 1                | A             |
| Prickly pear cactus                               | <i>Opuntia spray.</i>                     |                    | 2                | B             |
| Slipper flower, Redbird flower                    | <i>Pedilanthus tithymaloides</i>          |                    | 3                | B             |
| Green fountain grass                              | <i>Pennisetum sectaceum</i>               |                    | 2                | B             |
| Red fountain grass                                | <i>Pennisetum setaceum</i>                |                    | 1                | A             |
| Canary Island date palm                           | <i>Phoenix canariensis</i>                |                    | 1                | A             |
| Pygmy date palm                                   | <i>Phoenix roebelenii</i>                 |                    | 1                | A             |
| Mexican fan palm                                  | <i>Washingtonia robusta</i>               |                    | 1                | A             |

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**DIRECTIONS FOR USE ON TURFGRASS:**

**Turfgrass Species:** EH 951 Grass Herbicide may be applied only to the following established turfgrass species: Tall fescue, Zoysiagrass. **Do not** apply this product to any other turfgrass species.

**Weed Species Suppressed:** EH 951 will control or suppress the growth of common bermudagrass and hybrid bermudagrass in tall fescue and zoysiagrass lawns. EH 951 Herbicide controls only emerged bermudagrass at the time of application.

**For spot treatments of tall fescue with hand-operated sprayers:** Make applications in the spring and fall. Begin applications in early spring (April-May) as bermudagrass begins growth. Avoid applications to tall fescue during the summer months (July and August). Continue applications at 30-day intervals from late summer until fall to maintain the growth suppression of bermudagrass. Complete control may take 1 to 2 growing seasons.

Avoid applications to tall fescue under stress due to drought, temperature extremes, or chemical injury. Use hand-operated sprayers (backpack sprayers, compression or pump-up sprayers, knapsack sprayers or tank type sprayers). Add 2.0 fl.oz. of products per one (1.0) gallon of water to treat each 1000 sq.ft. of turf. Additional spray preparations for tall fescue are presented in the following table:

| Amount of Product  | Amount of Spray Needed<br>(at rate of one gallon per 1,000 sq.ft. of turf) |           |           |
|--|--|-----------|-----------|
|  | 1 gallon   | 2 gallons | 5 gallons |
| fl.oz.   | 2  | 4         | 10        |
| Teaspoons (tsp.)   | 12   | 24        | 64        |
| Equal measures: 1.0 fl.oz. = 6 Teaspoons (tsp.) and 8 fl.oz. = 1 cup |  |           |           |

Allow time (up to 24 hours) for this product to be absorbed and translocated before mowing the treated area. Wait 14 days before re-seeding treated areas of tall fescue.

Note: The application of this product will show slight discoloration to the desirable turfgrass. Symptoms are temporary and chlorosis will subside.

**For spot treatments of zoysiagrass with hand-operated sprayers:** Begin applications in late spring (near June 1) as bermudagrass begins growth. Repeat applications at 30-day intervals throughout the summer until fall to continue the growth suppression of bermudagrass. Complete control may take 1 to 2 growing seasons.

Avoid applications to zoysiagrass under stress due to drought, temperature extremes, or chemical injury. Use hand-operated sprayers (backpack sprayers, compression or pump-up sprayers, knapsack sprayers or tank type sprayers). Add 1.3 fl.oz. of product per one (1.0) gallon of water to treat each 1000 sq.ft. of turf. Additional spray preparations for zoysiagrass are presented in the following table:

| Amount of Product  | Amount of Spray Needed<br>(at rate of one gallon per 1,000 sq.ft. of turf) |           |           |
|--|--|-----------|-----------|
|  | 1 gallon   | 2 gallons | 5 gallons |
| fl.oz.   | 1.3  | 2.6       | 6.5       |
| Teaspoons (tsp.)   | 8.0  | 16.0      | 40.0      |
| Equal measures: 1.0 fl.oz. = 6 Teaspoons (Tbs.) and 8 fl.oz. = 1 cup |  |           |           |

Allow time (up to 24 hours) for this product to be absorbed and translocated before mowing the treated area.

### STORAGE AND DISPOSAL

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

**PESTICIDE 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.~~

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or [www.website.com](http://www.website.com) 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.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.
- 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.
- Kills unwanted grasses in and around ornamental plants.
- Spray ornamentals "over-the-top".
- Kills unwanted grasses in flower and shrub beds...without harming most desirable plants.
- Mix 10 fluid ounces to 1 gallon of water.

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## **DOCUMENT CONTROL INFORMATION**

**1. Unique Label Identifier:** 033955-00559.20090717.notif-proposed.doc

**2. Reason for Issue:** Incorporation EPA comments, PRN 2007-4