

<p>ARIZONA DEPARTMENT OF AGRICULTURE</p> <p><u>DIRECTOR'S ADMINISTRATIVE ORDER</u></p> <p>PLANT SERVICES DIVISION</p> <p>GLASSY-WINGED SHARPSHOOTER <i>Homalodisca coagulata</i></p>	<p><u>DIVISION/PROGRAM: PSD</u></p> <p><u>DAO 06 - 05</u></p> <hr/> <p>/s/ Donald Butler SIGNATURE</p> <hr/> <p>5/09/06 EFFECTIVE DATE</p>
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1. PURPOSE

This Order is issued to mitigate an immediate risk of infestation of glassy-winged sharpshooters in Arizona by increasing protection against the entry the pest on nursery stock entering the state. This Order replaces DAO 06-03 issued on 5/1/06 to amend the area under quarantine and the restrictions.

The glassy-winged sharpshooter (GWSS) is an effective vector of *Xylella fastidiosa*, a bacterial pathogen that causes devastating diseases in a wide variety of agronomic and horticultural crops, as well as landscape ornamentals and shade trees (Hopkins & Purcell, 2002; Purcell 1979; Purcell & Hopkins, 1996; Purcell et al., 1979, and Purcell et al., 1999.)

Some of these diseases are emerging as serious, destructive diseases of important crops (e.g., almond, citrus, coffee, grapevines, peaches, and plums) in North and/or South America. In addition, a number of other non-crop plant species are hosts for *Xylella fastidiosa* (Purcell et al., 1999.) Pierce's Disease is a threat to the Arizona wine and grape industry, estimated at \$18 million in revenue. If realized, the disease would be devastating to the industry.

Although this Order becomes effective when signed by the Director, enforcement of its provisions is delayed until July 1, 2006 to allow affected states to communicate with their shippers. The Order will remain in effect until completion of the rulemaking process.

2. AUTHORITY

A. R. S. § 3-201.01 Associate director; powers and duties

A. R. S. § 3-202. Infested or infected plants as public nuisances

3. RESPONSIBILITY

The Associate Director, managers and supervisors shall ensure that all employees of the Plant Services Division understand and properly enforce this Order.

4. APPLICABILITY

This Order applies to the movement of regulated commodities from the area under quarantine.

5. ORDER

A. Area under quarantine:

1. In California, the entire counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura, and the infested portions of the counties of Fresno, Imperial, Kern, Sacramento, Solano, Santa Barbara, Santa Clara, and Tulare.
 2. The entire states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri, Nevada, North Carolina, South Carolina, and Texas
 3. In Arizona, any area infested with GWSS
- B. Commodities covered.
1. All live life stages of GWSS
 2. Bulk shipments of unprocessed citrus fruit
 3. Grape, propagative parts and fruit
 4. GWSS host plants
- C. Restrictions.
1. A person may ship a regulated commodity to Arizona from an area under quarantine if each shipment is accompanied by a certificate or stamp issued by a plant regulatory official of the state of origin attesting compliance with the following:
 - a. Bulk shipments of unprocessed citrus fruit are prohibited entry into Arizona, unless certified by the origin state to be GWSS-free based on a bulk citrus trapping/treatment program.
 - b. Grape plants intended for commercial planting in Arizona:
 - (1). Grape plants and propagative parts except seed, leafless budwood, and leafless grafting wood shall have been treated with a chemical effective at killing all life stages of GWSS, and
 - (2). Grape plants and propagative parts except seed shall have:
 - (a) Been tested in a manner approved by the Director to ensure freedom from *Xylella fastidiosa*, or
 - (b) Originated from a nursery certified free of both GWSS and *Xylella fastidiosa* based on trapping and annual testing.
 - c. The GWSS host plants listed in the Appendix and their propagative parts, except leafless parts and seed, and cut flowers and cut foliage, shall have:
 - (1) Been treated with a chemical effective at killing all life stages of GWSS, or
 - (2) Originated from a nursery operating under a state or county compliance agreement to ensure that plants shipped to Arizona are free of all live life stages of GWSS.
 2. Bulk shipments of unprocessed grapes are prohibited unless approved by the Director.
 3. All live life stages of GWSS are prohibited.

APPENDIX – GWSS HOST PLANTS

Abelia spp.	Abelia	Brachychiton spp.	Bottle tree
Acacia spp.	Acacia	Brunfelsia spp.	Brunfelsia
Acer spp.	Japanese maple	<i>Buddleja</i> spp.	Butterfly bush
Aeonium spp.	Aeonium	Buxus spp.	Boxwood
Aeschynanthus spp.	Basket plant	Calliandra spp.	Powderpuff
Agapanthus spp.	Agapanthus	Callistemon spp.	Bottlebrush
Agonis spp.	Willow myrtle	Calodendrum spp.	Cape chestnut
Ajuga spp.	Bugleweed	Camellia spp.	Camellia
Albizia spp.	Albizzia	Campsis spp.	Trumpet creeper
Aleurites spp.	Aleurites	Canna spp.	Canna
Alnus spp.	Alder	Capsicum spp.	Pepper, chili
Althaea spp.	Hollyhock	Carica spp.	Papaya
Amaranthus spp.	Amaranth	Carissa spp.	Natal plum
Ambrosia spp.	Ragweed	<i>Caryota</i> spp.	Fishtail palm
Amelanchier spp.	Serviceberry	Cassia spp.	Senna
Ananas spp.	Ananas	Castanopsis spp.	Chinquapin
Annona spp.	Annona (Cherimoya)	Castanospermum spp.	Castanospermum
Antirrhinum spp.	Snapdragon	Catalpa spp.	Catawba
Aptenia spp.	Aptenia	Ceanothus spp.	Redroot
Aralia spp.	Japanese aralia	Ceratonia spp.	Carob
Arbutus spp.	Strawberry tree	Ceratostigma spp.	Ceratostigma
Archontophoenix spp.	Seaforthia	Cercidium spp.	Palo Verde
Arctostaphylos spp.	Manzanita	Cercis spp.	Redbud
Arecastrum (Syagrus) spp.	Queen Palm	Cercocarpus spp.	Mountain mahogany
Arecastrum spp.	Arecastrum	<i>Chamaedorea</i> spp.	Palms
Aronia spp.	Chokecherry	Chenopodium spp.	Lambsquarter
Asclepias spp.	Milkweed	<i>Chilopsis</i> spp.	Desert willow
Asparagus spp.	Asparagus	Chionanthus spp.	Fringe tree
Aspidistra spp.	Aspidistra	Chitalpa spp.	Chitalpa
Baccharis spp.	Baccharis	Chlorophytum spp.	St. Bernard's lily
Bauhinia spp.	Bauhinia	Chorisia spp.	Floss-silk tree
Berberis spp.	Barberry	Chrysanthemum spp.	Chrysanthemum
Betula spp.	Birch	Cinnamomum spp.	Cinnamomum
Bignonia spp.	Bignonia		
Bougainvillea spp.	Bougainvillea		

Cissus spp.	Grape ivy	Fortunella spp.	Kumquat
Cistus spp.	Rock rose	Fraxinus spp.	Ash
Citrus spp.	Citrus	Gardenia spp.	Gardenia
<i>Clematis</i> spp.	Evergreen clematis	Gazania spp.	Gazania
Clytostoma spp.	Clytostoma	Geijera spp.	Geijera
Cocculus spp.	Cocculus	Gelsemium spp.	Yellow jessamine
Cocos spp.	Cocos	<i>Gerbera</i> spp.	Transvaal
Coffea spp.	Coffee	Ginkgo spp.	Ginkgo
Coprosma spp.	Coprosma	Gladiolus spp.	Gladiolus
Cordyline spp.	Ti	Gossypium spp.	Cotton
Cornus spp.	Dogwood	Grevillea spp.	Spider flower
Cotoneaster spp.	Cotoneaster	Grewia spp.	Grewia
Crassula spp.	Crassula	Hardenbergia spp.	Hardenbergia
Cupaniopsis spp.	Cupaniopsis	Harpephyllum spp.	Kaffir plum
Cycas spp.	Cycad	Hedera spp.	Ivy
<i>Dalbergia</i> spp.	Indian rosewood	Helianthus spp.	Sunflower
Datura spp.	Jimsonweed	Hemerocallis spp.	Daylily
Dianthus spp.	Dianthus	Heteromeles spp.	Toyon
Dietes spp.	Dietes	Hibiscus spp.	Hibiscus
Diospyros spp.	Persimmon	Howea spp.	Sentry palm
Dodonaea spp.	Dodonaea	<i>Hydrangea</i> spp.	Hydrangea
Elaeagnus spp.	Elaeagnus	Hymenosporum spp.	Hymenosporum
Elaeocarpus spp.	Elaeocarpus	Hypericum spp.	St. John's-wort
Ensete spp.	Ensete	Ilex spp.	Holly
Erigeron spp.	Fleabane	<i>Ipomea</i> spp.	Morning Glory
Eriobotrya spp.	Eriobotrya	Itea spp.	Itea
Erythrina spp.	Coral tree	Jacaranda spp.	Green ebony
Escallonia spp.	Escallonia	Jasminum spp.	Jasmine
Eucalyptus spp.	Eucalyptus	Juglans spp.	Walnut
Eugenia spp.	Eugenia	Koelreuteria spp.	Golden-rain tree
Euonymus spp.	Euonymus	Lactuca spp.	Lettuce
Eupatorium spp.	Boneset	Lagerstroemia spp.	Crape myrtle
Euryops spp.	Euryops	Lantana spp.	Shrub verbena
Fatshedera spp.	Aralia ivy	Laurus spp.	Laurel
Fatsia spp.	Japanese fatsia	<i>Leucophyllum</i> spp.	Texas Ranger
Feijoa spp.	Feijoa	<i>Leucospermum</i> spp.	Pincushion
Ficus spp.	Fig	Ligustrum spp.	Privet
Forsythia spp.	Golden-bells	Limonium spp.	Statice

Lippia spp.	Lippia	Par kinsonia sp.	Mexican palo verd
Liquidambar spp.	Sweet gum	Parthenocissus spp.	Woodbine
Liriodendron spp.	Tulip tree	Passiflora spp.	Passion fruit
<i>Liriope</i> spp.	Giant turf lily	Pelargonium spp.	Pelargonium
Litchi spp.	Lychee	Penstemon spp.	Beard-tongue
Lonicera spp.	Honeysuckle	<i>Pereskia</i> spp.	Barbados Gooseberry
Loropetalum spp.	Loropetalum	Persea spp.	Avocado
Macadamia spp.	Macadamia	Philadelphus spp.	Mock orange
Magnolia spp.	Magnolia	Philodendron spp.	Philodendron
Malus spp.	Apple	Phlox spp.	Phlox
Malva spp.	Mallow	Phoenix spp.	Date palm
Mandevilla spp.	Mandevilla	Phormium spp.	Flax lily
Mangifera spp.	Mango	Photinia spp.	Photinia
Maytenus spp.	Maytenus	Phyla spp.	Frogfruit
Melaleuca spp.	Honey myrtle	Phytolacca spp.	Pokeweed
Melia spp.	Chinaberry	Pinus spp.	Pine
Metrosideros spp.	Metrosideros	Pistacia spp.	Pistachio
Michelia spp.	Champak	Pittosporum spp.	Pittosporum
Mirabilis spp.	Umbrella wort	Platanus spp.	Sycamore
Monarda spp.	Wild bergamot	Platycerium spp.	Staghorn fern
Morus spp.	Mulberry	Plumbago spp.	Leadwort
Murraya spp.	Orange jessamine	Podocarpus spp.	Podocarpus
Musa spp.	Banana	Polygala spp.	Milkwort
Myoporum spp.	Myoporum	Polygonum spp.	Polygonum
Myrsine spp.	Myrsine	Populus spp.	Cottonwood
Myrtus spp.	Myrtle	Portulacaria spp.	Portulacaria
Nandina spp.	Nandina	Protea spp.	Protea
Nephrolepis spp.	Sword fern	Prunus spp.	Prunus
Nerium spp.	Oleander	Psidium spp.	Guava
Nicotiana spp.	Tree tobacco	Punica spp.	Pomegranate
Nyssa spp.	Tupelo	Pyracantha spp.	Pyracantha/Firethorn
Oenothera spp.	Evening primrose	Pyrus spp.	Pear
Olea spp.	Olive	Quercus spp.	Oak
Opuntia spp.	Cactus	Raphiolepis spp.	Raphiolepis
Osmanthus spp.	Osmanthus	Rhamnus spp.	Buckthorn
Osteospermum spp.	Osteospermum	Rhododendron spp.	Azalea
Pachysandra spp.	Spurge	Rhus spp.	Sumac
Pandorea spp.	Pandorea	Robinia spp.	Locust

Rosa spp.	Rose
Rubus spp.	Blackberry
Rudbeckia spp.	Coneflower
Salix spp.	Willow
<i>Salvia</i> spp.	Sage
Sambucus spp.	Elderberry
Sapium spp	Sapium
Sarcocca spp.	Sweet box
Sassafras spp.	Sassafras
Schefflera spp.	Umbrella tree
Schinus spp.	Schinus
Schlumbergera spp.	Christmas cactus
Simmondsia spp.	Jojoba
Solanum spp.	Solanum
Solidago spp.	Goldenrod
Sonchus spp.	Sonchus
Sorbus spp.	Mountain ash
Sorghum spp.	Sorghum
Strelitzia spp.	Bird of paradise
Syringa spp.	Lilac
Syzygium spp.	Syzygium
Tabebuia spp.	Trumpet tree
Tecomaria spp.	Tecomaria
Ternstroemia spp.	Ternstroemia
Thuja spp.	Arborvitae
Tipuana spp.	Tipu Tree
Trachelospermum spp.	Trachelospermum
Tradescantia spp.	Spiderwort
Tristania spp.	Tristania
Tulbaghia spp.	Tulbaghia
Tupidanthus spp.	Tupidanthus
Ulmus spp.	Elm
Vauquelinia spp.	Arizona rosewood
Veronica spp.	Speedwell
Viburnum spp.	Viburnum
Vigna spp.	Vigna
Vinca spp.	Periwinkle

Viola spp.	Violet
Vitis spp.	Grape
Washingtonia spp.	Washington palm
Wisteria spp.	Wisteria
Xanthium spp.	Cocklebur
Xylosma spp.	Xylosma
Yucca spp.	Yucca
Zantedeschia spp.	Calla lily
Zea spp.	Zea