CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

PROCLAMATION OF AN EMERGENCY PROGRAM AGAINST THE GLASSY-WINGED SHARPSHOOTER

FOR THE AREA OF MODESTO IN STANISLAUS COUNTY

Between October 8, 2026 and October 15, 2026, the California Department of Food and Agriculture (CDFA) confirmed the presence of the glassy-winged sharpshooter (GWSS), the invasive vector of the bacterium that causes Pierce's disease in grapes, in the area of Modesto, Stanislaus County. Based on these detections and recommendations from CDFA GWSS staff entomologists and the Stanislaus County Agricultural Commissioner, the CDFA concludes that an infestation of GWSS exists in the area. This pest presents a significant, clear, and imminent threat to the natural environment, agriculture, economy, and private and public property. Unless emergency action is taken during these GWSS' life cycles, there is high potential for sudden future detections in Stanislaus County.

The GWSS is a dangerous, invasive, aggressive vector of Pierce's disease (PD). PD is considered one of the most devastating diseases of grapevines in the world. The bacterium that causes the disease, *Xylella fastidiosa*, kills grapevines within two to five years of infection. There is no cure for Pierce's disease. There are currently 139 properties of grape production within the county at risk from the recent GWSS detections. A total of 6,307 acres of grapes, valued at $30,464,000, was grown in Stanislaus County in 2024.

In addition to grapevines, GWSS' hosts include over 360 genera of plants, which vary widely from woody plants to annual and perennial herbaceous plants. However, GWSS is known to prefer to overwinter in citrus and can be easily moved in bulk citrus. There are currently 24 properties of citrus production within Stanislaus County. A total of 762 acres of citrus, valued at $8,065,000, was grown in Stanislaus County in 2024.

PD threatens a crop production value of $5.64 billion and associated economic activity within California of approximately $73 billion. The bacterium *Xylella fastidiosa* is also a significant threat to the nearby almond and alfalfa production in the area. *Xylella fastidiosa* can also cause almond leaf scorch and alfalfa dwarf. There are currently 4,030 properties of almond production at risk from the recent GWSS detections. A total of 217,352 acres of almonds and 11,714 acres of alfalfa were grown in Stanislaus County in 2024. The crop production value of almonds and alfalfa in Stanislaus County for 2024 was $824,208,000, and $16,440,000 respectively.

Nursery stock is a high-risk commodity for the artificial spread of GWSS. There are currently 62 production nurseries within Stanislaus County. In 2024, fruit and nut nurseries comprised 1,270 acres valued at $110,792,000, and 547 acres of ornamental nursery stock was valued at $40,320,000. The total value of nursery products grown in Stanislaus County in 2024 was $173,134,000.

If unabated by the CDFA, the spread of GWSS in California would cause significant harm to the natural environment as it would lead to increased, unmonitored use of pesticides by residents, and, where control and eradication measures are not used, increased disease in agricultural and landscape plants.

The recent detections of GWSS described above were sudden and now require immediate action to address the clear and imminent threat to California's natural environment, agriculture, economy, private and public property. Due to GWSS being a vector for the bacteria that causes PD and the pest's ability to overwinter in the adult life stage, there is a high potential for sudden future detections of GWSS in Modesto. Therefore, the Secretary is invoking Public Resources Code Section 21080(b)(4) to carry out immediate emergency action to prevent this loss and damage.

In addition, the Secretary is mandated to: thoroughly investigate the existence of the disease; determine the probability that the disease will spread; adopt regulations as are reasonably necessary to carry out the provisions of the Food and Agricultural Code (FAC); abate GWSS from the area; and prevent further economic damage. See FAC Sections 401, 403, 408, 5321-5323, 5401-5405, 5761-5763, 6047, 6047.1, and 6047.5, and Title 3 of California Code of Regulations Sections 3650-3654.

Based on the recent detections in Modesto, findings, and recommendations from GWSS staff entomologists, implementation of CDFA's rapid response strategies is necessary for eradication and control.

In accordance with integrated pest management principles, CDFA has evaluated possible treatment methods and determined that there are no physical or cultural methods available to control GWSS in this area. Therefore, it is necessary to conduct chemical treatments and, in certain circumstances, biological controls, to abate this threat. The treatment plan for the GWSS infestation will be implemented from October 2026 through November 2029. Post treatment monitoring will resume in the spring of 2030 and will determine the necessity of additional treatments.

The treatment plan for the GWSS infestation shall be implemented within a 150-meter radius of each detection site, as follows:

1. Chemical Control. All properties with host plants within a 150-meter radius around each GWSS detection site may be treated according to the following protocol to control GWSS:

    a. The pesticides Merit® 2F, 75WSP, 75WP, or CoreTect ®, (imidacloprid), may be applied to the root zone beneath GWSS host plants for controlling GWSS and providing long-term protection against reinfestation. Merit 2F, 75WSP, or 75WP may be applied as a foliar spray or soil drench, while CoreTect® tablets may be inserted two to five inches below the soil surface and watered in to initiate tablet dissolution. CoreTect may be used in place of Merit 2F, 75WSP or 75WP in situations where there are environmental concerns about soil surface runoff of the liquid Merit formulations, such as host plants growing next to ponds and other environmentally sensitive areas, or for hosts that aren't listed on the Merit label. The pesticide Tempo® SC Ultra or Ultra WP (beta-cyfluthrin) may be used as a foliar spray to control adult and nymphal stages of GWSS. The pesticide Altus™ (flupyradifurone) may be used as a foliar spray to control adult and nymphal stages of GWSS.

2. Biological Control. Biological control is a method of controlling target pests using other living organisms, such as predators, parasitoids, and pathogens. The biological control agents of GWSS used in PDCP are stingless, minute (1/16 inch) parasitic wasps that

specifically attack GWSS eggs (egg parasitoid). Female adult wasps deposit their eggs inside GWSS eggs and immature wasps develop inside the host eggs, with adult wasps eventually emerging from GWSS eggs. After mating, newly emerged wasps search for GWSS eggs to lay their eggs. Through this repeated life cycle, the parasitic wasps kill GWSS eggs and contribute to the suppression of GWSS populations. Depending on multiple factors, including but not limited to the proximity to other release sites and availability of parasitoids, additional biological control release sites may be used after treatments have been made.

Public Notification:

Residents of affected properties will be invited to a public meeting where officials from CDFA, the County Agricultural Commissioner's office, the Department of Pesticide Regulation, and the Office of Environmental Health Hazard Assessment, and the county agricultural commissioner's office shall be available to address residents' questions and concerns.

Except in circumstances where the County Agricultural Commissioner's office needs to execute an inspection or abatement warrant, residents will be notified in writing at least 48 hours in advance of any treatment in accordance with the FAC Sections 5771-5779 and 5421-5436. For any questions related to this program, please contact the local County Agricultural Commissioner's office at the number listed on the treatment notice or the CDFA Pierce's Disease Control Program at 916-900-5024. Treatment information will be posted to the CDFA website.

Following the treatment, completion notices are left with the residents detailing precautions to take and post-harvest intervals applicable to fruit bearing trees on the property.

Press releases, if issued, will be prepared by the CDFA Information Officer and the County Agricultural Commissioner in close coordination with the Program Leader responsible for treatment. Either the County Agricultural Commissioner or the Public Information Officer serves as the primary contact to the media.

Information concerning the GWSS eradication effort shall be conveyed directly to local and State political representatives and authorities via letters, emails, and/or faxes.

Enclosed are the findings regarding the treatment plan, a map of the treatment area, work plan, integrated pest management analysis of alternative treatment methods, and a pest profile.

Attachments

FINDINGS REGARDING AN EMERGENCY FOR THE GLASSY-WINGED SHARPSHOOTER
Area of Modesto in Stanislaus County
Project PD-0043

The California Department of Food and Agriculture (CDFA) confirmed the presence of the glassy-winged sharpshooter (GWSS), *Homalodisca vitripennis*, in the area of Modesto, Stanislaus County. These recent detections indicate that a breeding population exists in the area. Unless emergency action is taken during these GWSS' life cycles, then there is high potential for sudden future detections in Stanislaus County. GWSS is an invasive pest which carries the deadly grapevine disease known as Pierce's disease (PD). GWSS is not established in this community and will cause harm to California's natural environment, agriculture, economy, and public and private property if allowed to become established.

Based on this detection and recommendations from CDFA GWSS staff entomologists, I have determined it is necessary to eradicate the infestation.

The Pierce's Disease Control Program (PDCP) has evaluated feasible treatment methods in accordance with integrated pest management (IPM) principles. As part of these principles, I have considered the following treatments for control of GWSS: 1) physical controls; 2) cultural controls; 3) biological controls; and 4) chemical controls. Upon careful evaluation of each these options, including input from PDCP, and using the experience gained from 18 previous successful eradication efforts, I have determined that there is a need to control this pest using available methods. These methods include treating GWSS host material with soil treatments and foliar treatments on and near properties where GWSS was found. These methods were selected based upon minimal impacts to the natural environment, biological effectiveness, minimal public intrusiveness, and cost. Depending on multiple factors, including but not limited to, proximity to other release sites and availability of parasitoids, additional biological control release sites may be used after treatments have been made.

Background

GWSS is an invasive and aggressive vector of Pierce's disease (PD). PD is considered one of the most devastating diseases of grapevines in the world. The bacterium that causes the disease, *Xylella fastidiosa*, kills grapevines within two to five years of infection. There is no cure for Pierce's disease.

GWSS was first reported in California in 1994 but probably arrived in the late 1980s. It is native to the southeastern United States and northeastern Mexico. The range of GWSS includes many habitats, including agricultural crops, urban landscapes, native woodlands, and riparian vegetation. The host list includes over 360 genera of plants, which vary widely from woody plants to annual and perennial herbaceous plants. Since the insect feeds on the nutrient-poor xylem fluid of the plant it must consume copious amounts of fluid in order to gain enough nutrition to grow and reproduce. Consequently, the adults and nymphs excrete large amounts of liquid while feeding, which gives the fruit and foliage a whitewashed appearance. Host preference changes according to the availability and nutritional value of host plants at any given time. GWSS builds up large populations on the diverse number of host plants that support it and is a strong flyer, traveling greater distances than native sharpshooters. While the native sharpshooters tend not to move much, GWSS can readily disperse out to 90 meters and up to 7 meters in height in a 6.7 MPH wind.

This insect pest presents a significant and imminent threat to the natural environment, agriculture, and economy of California. The disease that GWSS vectors threatens a crop production value of $5.64 billion and associated economic activity within California of approximately $73.0 billion. Other crop and ornamental plant resources such as almonds (valued at $5.66 billion) and shade trees are also at risk from the Pierce's disease strain of the bacterium.

The GWSS typically has two generations per year and overwinters as an adult. These overwintering adults begin laying eggs the following spring. Eggs hatch in 10 to 14 days and the nymphs progress through five immature stages. In the summer, first generation adults begin to appear in May through July. Egg laying for the second generation occurs between mid-June and October. The nymphs emerging from these egg masses typically develop into overwintering adults. Because the GWSS detected between June and October will overwinter in the adult life stage, it is likely that there are additional GWSS in the environment that will spread and lead to future detections.

Additionally, if unabated by the Department, the spread of GWSS in California would cause significant harm to the natural environment as it would lead to increased, unmonitored use of pesticides by residents, and, where control and eradication measures are not used, increased disease in agricultural and landscape plants.

When GWSS arrived in California it had few natural enemies and its populations built up rapidly. California's first indication of the severe threat posed by this new disease and vector combination occurred in Temecula, Riverside County, in August of 1999, when over 300 acres of grapevines infested with the GWSS were infected with PD and ultimately destroyed. Between 1998 and 1999, the grape tonnage harvested in Temecula fell 36% with a lost production value estimated at $15.2 million. With the introduction of GWSS into Stanislaus County, viticulture in traditionally safe growing regions of the state is now at risk.

In 2000, the Legislature found and declared that PD and GWSS are a clear and present danger to California's grape industry, as well as many other commodities and plant life. The Legislature also declared that measures to prevent transmission of PD and control GWSS are in the public interest and an exercise of the police power of the State for the purpose of protecting the health, peace, safety, and general welfare of the people of California. In addition, the Legislature created the PDCP to combat PD. The PDCP implements five program elements to minimize the impacts of Pierce's disease and its vectors in California. PDCP's strategy is to slow or stop the spread of the GWSS while short and long-term solutions to Pierce's disease are developed. The five elements are:

1. **Contain the Spread**
   Prevent the spread of GWSS to new areas of the state by regulating shipments of host plants and other host material, and suppressing populations to prevent natural spread.

2. **Statewide Survey and Detection**
   Find new GWSS infestations quickly and confirm that uninfested areas remain free of infestation by conducting systematic trapping in uninfested at-risk areas.

3. **Rapid Response**
   Respond quickly to detections of GWSS in new areas by intensively surveying the area and applying treatments if necessary.

4. **Outreach**
   Raise awareness about Pierce's disease and its vectors while responding to the concerns of growers and the public by conducting outreach and education activities.

5. **Research**
   Develop long-term, sustainable solutions to Pierce's disease and its vectors by sponsoring and facilitating research and development.

The PDCP is a cooperative effort that combines the resources and expertise of federal, state, and county agriculture departments, the University of California, and grape, citrus, and other agricultural communities. The Program works cooperatively with the county agricultural commissioners (CAC) to conduct most of the first four program elements discussed above through work plans that are established between PDCP and the CAC. PDCP accomplishes the fifth element (research) by supporting research at universities and other institutions.

Since the PDCP was established, the five-element approach has led to eradication of 18 incipient infestations in counties as diverse and varied as Imperial County in the south to Butte County in the north.

Based upon input from PDCP, I find there are no physical or cultural methods that are effective for controlling GWSS and that would allow CDFA to meet its statutory obligations to protect the agriculture and environment of the state. Therefore, it is necessary to conduct chemical treatments and, in certain circumstances, biological controls, to abate this threat. As a result, I am allowing PDCP, in coordination with the Stanislaus County Agricultural Commissioner, to conduct chemical treatments for GWSS on host material using ground-based equipment within 150-meter radius around GWSS finds and any subsequent finds.

Sensitive Areas

CDFA will consult with the California Department of Fish and Wildlife's California Natural Diversity Database for threatened or endangered species, the United States Fish and Wildlife Service, and the National Marine Fisheries Service, to determine if rare and endangered species are located within the treatment area. Mitigation measures for rare and endangered species will be implemented. The CDFA, in coordination with the Stanislaus County Agricultural Commissioner, shall not apply pesticides to bodies of water or undeveloped areas of native vegetation. All treatment will be applied in accordance with federal, state, and local pesticide application laws, rules, and guidelines.

Work Plan

The proposed treatment effort will encompass this portion of Stanislaus County where GWSS has been detected, and any subsequent detection sites. The treatment plan for the GWSS infestation will be implemented from October 2026 through November 2029. This timeframe is necessary because once treatments are completed this year the post treatment monitoring will continue through November, then cease until warmer temperatures are achieved in the spring of 2030. Monitoring for GWSS becomes ineffective when temperatures are below the flight threshold for this insect, which is about 65°F. Post treatment monitoring will resume in the spring of 2030 and will determine the necessity of additional treatments. The plan will be implemented within a 150-meter radius of each detection site as follows:

1. GWSS Monitoring. Yellow panel traps may be placed in the area within one square mile of each GWSS detection site at a density of about 30 traps per square mile and will be initially serviced twice per week. After two weeks the inspection interval may be reduced to once per

week. Once the delimitation has been completed, the general trap servicing cycle will revert to once every two or three weeks.

2. GWSS Visual Survey. Host plants may be inspected for GWSS within a quarter mile radius of find sites. GWSS suspects shall be collected and forwarded to the CDFA Plant Pest Diagnostic Center (Lab) for identification and analysis.

3. Chemical Control. Treatments will be made by ground equipment only and consist of applications to the rootzone of host plants to provide long-term, systemic protection against re-infestation of GWSS. Some properties may also receive a foliar treatment. All properties and adjacent properties with host plants within 150-meters of each GWSS detection will be treated according to the following protocol to control GWSS:

   The pesticides Merit® 2F, 75WSP, 75WP, or CoreTect® (imidacloprid) may be applied to the root zone beneath GWSS host plants for controlling GWSS and providing long-term protection against reinfestation. Merit 2F, 75WSP, and 75WP may also be applied as a foliar spray or soil drench, while CoreTect tablets may be inserted two to five inches below the soil surface and watered in to initiate tablet dissolution. CoreTect may be used in place of Merit 2F, 75WSP or 75WP in situations where there are environmental concerns about soil surface runoff of the liquid Merit formulations, such as host plants growing next to ponds and other environmentally sensitive areas, or for hosts that aren't listed on the Merit label. The pesticide Tempo® SC Ultra or Ultra WP (beta-cyfluthrin) may be used as a foliar spray to control adult and nymphal stages of GWSS. The pesticide Altus™ (flupyradifurone) may be used as a foliar spray to control adult and nymphal stages of GWSS.

4. Biological Control. Biological control is a method of controlling target pests using other living organisms, such as predators, parasitoids, and pathogens. The biological control agents of GWSS used in PDCP are stingless, minute (1/16 inch) parasitic wasps that specifically attack GWSS eggs (egg parasitoid). Female adult wasps deposit their eggs inside GWSS eggs and immature wasps develop inside the host eggs, with adult wasps eventually emerging from GWSS eggs. After mating, newly emerged wasps search for GWSS eggs to lay their eggs. Through this repeated life cycle, the parasitic wasps kill GWSS eggs and contribute to suppression of GWSS populations. As a partially infested county there are already biological control release and monitoring sites in Stanislaus County. Additional release sites could be added later, depending on multiple factors including, but not limited to, number of GWSS finds and their proximity to riparian habitat.

5. Post-Treatment Monitoring. An assessment of the GWSS populations will be conducted on a limited number of selected properties throughout the treatment area to determine the overall effectiveness of the treatments. Post-treatment sampling will be conducted using the same protocols as the pre-treatment sampling to ascertain effectiveness of the treatments.

Public Information

Residents of affected properties will be invited to a public meeting where officials from the CDFA, the County Agricultural Commissioner's Office, the California Department of Pesticide Regulation, and the Office of Environmental Health Hazard Assessment, will be present to address residents' questions and concerns.

Except in circumstances where the County Agricultural Commissioner's office needs to execute an inspection or abatement warrant, residents will be notified in writing at least 48 hours in advance of any treatment in accordance with the California Food and Agricultural Code (FAC) Sections 5771-5779 and 5421-5436.

Following the treatment, completion notices will be left with the residents detailing any precautions to take and post-harvest intervals applicable to fruit bearing trees on the property.

Press releases, if issued, will be prepared by the CDFA Information Officer in consultation with the county agricultural commissioner and PDCP staff. Either the county agricultural commissioner or the CDFA Information Officer will serve as the primary contact to the media.

Information concerning the GWSS eradication effort shall be conveyed directly to Local and State political representatives and authorities via letters, emails, and/or faxes.

Treatment information will be posted to the website located at https://www.cdfa.ca.gov/pdcp/gwss_control_projects.html. For any questions related to this program, please contact the local county agricultural commissioner's office listed on the treatment notice or the PDCP at 916-900-5024.

Findings

Due to the detection of GWSS, there exists a significant, clear, and imminent threat to California's natural environment, agriculture, public and private property, and its economy.

Unless emergency action is taken during the life cycles of recently detected GWSS, there is high potential for sudden future detections in Stanislaus County.

The work plan involving chemical and biological control of this pest is necessary to prevent loss and damage to California's natural environment, agriculture, private and public property, and its economy.

Therefore, I am invoking Public Resources Code Section 21080(b)(4) to carry out immediate emergency action to prevent this loss and damage.

My decision to adopt findings and take action is based on Sections 24.5, 401.5, 403, 407, 408, 5321-5323, 5401-5405, and 6045-6047 of the FAC, and Title 3 California Code of Regulations Sections 3650-3654.

Karen Ross

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Karen Ross
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Karen Ross, Secretary

Date

PIERCE'S DISEASE CONTROL PROGRAM

RESPONSE/CONTROL PROGRAM FOR PIERCE'S DISEASE AND ITS VECTORS, AND OTHER DESIGNATED PESTS AND DISEASES

STANISLAUS COUNTY

The County agrees to perform the listed activities in order to:

- Implement an intergovernmental, coordinated state and community-wide plan to provide detection and delimitation of the glassy-winged sharpshooter (GWSS) and other designated pests and diseases in Stanislaus County and suppress or eradicate any populations as rapidly as possible.
- Ensure the movement of products and commodities does not present a risk of moving GWSS to non-infested areas.

Designated Agency

The Stanislaus County Department of Agriculture (County) is designated by the Stanislaus County Board of Supervisors as the local public entity to conduct the Pierce's Disease Control Program (PDCP) within the County. The California Department of Food and Agriculture (CDFA) will work in cooperation with the County, the State PDCP Science Advisory Panel, officials in affected counties, the Stanislaus County PDCP Task Force (if applicable), and other interested parties in implementing this plan.

RESPONSIBILITIES

CDFA Responsibilities

The CDFA shall:

- Provide training on management practices at least one week prior to any activity occurring.
- Provide biological control program guidance and support to the County as favorable agents become available.
- Provide on-site expertise, as needed.

County Responsibilities

The County shall:

- Act as local public entity for the PDCP activities occurring within the jurisdiction of the county.
- Act as lead liaison to local City Councils, the County Board of Supervisors, county legal counsels, and other county agencies, regarding the PDCP activities.
- Activities described in this workplan qualify for the exemption to CEQA under Public Resources Code Section 21080(b)(4). The County will complete tiering strategy checklists for inspection, trapping, and treatment (if applicable) and ensure all activities follow the CDFA Management Practices and Mitigation Measures.

- Conduct a GWSS detection trapping program in accordance with GWSS Statewide Detection and Delimitation Protocols (June 2026). The County will submit a written request and justification to the PDCP if it wishes to deviate from the protocols.
- Upon discovery of a GWSS find in a non-infested area, promptly conduct all delimitation and intensive (property-by-property) surveys in the county in accordance with the GWSS Statewide Detection and Delimitation Protocols (June 2026). Additional survey staff may be contracted from the California Conservation Corps upon approval by PDCP. Provide status reports on the results of all surveys, including detailed maps of the surveyed area and infested properties.
- Implement the CDFA GWSS Nursery Shipping Protocol, bulk citrus requirements, and all other commodity-movement protocols, as necessary, including associated compliance agreements and exhibits. The list of approved products for bulk citrus and nursery treatment and/or certification is listed in CDFA's Management Practices and Mitigation Measures. The County will submit a written request and justification to the PDCP if it wishes to deviate from the protocols.
- In the event of an infestation, conduct treatments in accordance with the CDFA GWSS Treatment Protocol. Monitor nurseries within the infested area for compliance.
- Take any necessary enforcement action to ensure regulatory compliance.
- Coordinate with CDFA to fully participate in the development and implementation of a data collection system in accordance with Food and Agricultural Code Section 6046(g)(5). The data collection system will make it possible to track and report new infestations of Pierce's disease and its vectors, and other designated pests and diseases, in a manner respectful of property and other rights of those affected.

LOCAL APPEAL PROCESS

Pursuant to Section 3651(c)(3) in Title 3 of the California Code of Regulations, the Stanislaus County Department of Agriculture's PDCP Coordinator shall conduct a hearing if any application of the workplan is appealed in writing to him/her or his/her agency. Once the Coordinator receives an appeal, he/she or his/her agent will respond within 10 days to the appellant. The appellant will be given notice as to the date and time for the hearing. At the hearing, the appellant will be given the opportunity to be heard by the Coordinator and to present evidence on matters concerning the application of the workplan. The Coordinator will render a decision and respond to the appellant in writing within 30 days of the hearing. The results of said hearing will be transmitted to CDFA.

GWSS TREATMENT PROTOCOL

Treatment Options

The following treatment information is based on the option of treating all known infested properties. It is intended as a guideline and may be modified to adapt to local and/or changing situations. At all stages of the program, an assessment will be made as to the probability of success. For example, if GWSS is found to be infesting a very large area or is infesting wide areas of sensitive habitat, the County will immediately consult with the CDFA to determine the preferred course of action.

Treatment Material Selection

A list of registered materials will be reviewed to determine the most appropriate to use based on: 1) registered use as a general treatment for residential plantings; 2) registered on most plant species known to be hosts (feeding and oviposition) for GWSS; and 3) known to control leafhoppers. The list of approved products for residential use is listed in CDFA's management practices and mitigation measures.

Threatened/Endangered Species/Environmentally Sensitive Areas

The County and the CDFA will identify any threatened/endangered species and/or environmentally sensitive areas within the proposed treatment area before treatments begin. If needed, appropriate mitigation measures will be developed, in consultation with the U.S. Fish and Wildlife Service, the California Department of Fish and Wildlife, and the CDFA, for these sensitive areas. The County will notify all registered beekeepers near the infested area of the GWSS treatment activities.

Beekeeper Notification

The County will identify registered beekeepers in the treatment zone, in addition to the following:

- Notify registered beekeepers with information about the upcoming treatments.
- Notify ground personnel of any properties that are known to have bees.
- Identify potential unregistered beekeepers by educating ground personnel to be on the lookout for beehives.
- Educate ground personnel on how to handle bee encounters.
- Adhere to label requirements for pollinators.
- Adhere to label requirements for flowering hosts and bloom issues.

Public Outreach

The County will act as lead spokesperson for the PDCP activities within the County. The County, in cooperation with the CDFA, will generate press releases and distribute information to all affected communities.

- A telephone help line will be established and staffed to answer calls concerning the PDCP activities. Multi-lingual speakers may be required to adequately staff this help line. The help line will also be coordinated to include public health and animal health information.
- Informational meetings will be held to advise homeowners and other interested parties of treatment activities.

The CDFA will develop technical information and provide technical support and training, assist in the development and dissemination of literature, and act as a clearinghouse for information to the public and the press.

Medical/Veterinarian Information

The County will contact the County Health Officer (CHO) with details of any proposed treatment. If the CHO has questions about public health aspects of the program, please contact the Branch Chief of the Pierce's Disease Control Program at 916-900-5024.

Questions relating to Animal Health will be referred to CDFA's Animal Health and Food Safety Services at (916) 900-5002. A "Veterinary Fact Sheet" may be prepared and provided for questions relating to pets or livestock.

Pre-Treatment Notification

Pre-treatment notification will be conducted through the local news media and by door-to-door notification.

- Notices will be in languages appropriate to the affected community and will include information regarding material used, precautions, date of application, and a telephone number and contact for the PDCP staff.
- Notices will be given "door-to-door" to infested properties and adjacent properties.

General Treatment Procedures

Treatments will begin following the intensive survey and after all help lines are established and community relations measures have been taken. Maintenance of good community relations will be essential. All pesticide applications will be made by certified Pest Control Operators under the direction of the County, or by the County with agreement from the PDCP. Pesticides will be used according to registration and label directions. Sound pesticide safety procedures will be followed.

- Interval: As allowed by label.
- Rate: Follow label directions.
- Post-treatment notice with re-entry statement and pre-harvest interval for treated fruits/vegetables.
- Treatment crews will be properly trained and equipped according to established CDFA protocols for treatment of residential properties.
- Property treatment records will be kept.
- The County will ensure that all treatment activities are in compliance with all pesticide laws and regulations.

Environmental Monitoring

The CDFA, in cooperation with County, will arrange for environmental monitoring to be conducted by the California Department of Pesticide Regulation (CDPR), Environmental Monitoring/Pest Management Branch. The County personnel will work closely with environmental monitoring personnel to identify suitable sites. The following may be monitored:

- Surface water, turf, foliage, available fruits and vegetables, outside air and tank mix.
- Identified sensitive areas.

Additional monitoring may be necessary if needs are identified. However, if sufficient data are gathered indicating no adverse environmental impacts, the environmental monitoring may be modified or deleted from the program. This decision will rest with the CDFA and the County.

Post-Treatment Monitoring

An assessment of the GWSS populations will be conducted on a limited number of selected properties throughout the treatment area to determine the overall effectiveness of the treatments.

- Pre-treatment sampling will be conducted and counts of the GWSS will be made to determine numbers of the GWSS life forms.
- Post-treatment sampling will be conducted using the same protocols to ascertain effectiveness of the treatment(s).

PEST PROFILE

Common Name: Glassy-winged Sharpshooter

Scientific Name*: Homalodisca vitripennis*

Order and Family: Hemiptera, Cicadellidae

Description: The glassy-winged sharpshooter (GWSS) is a relatively large leafhopper, measuring about 0.5 inches long. Adult GWSS are generally dark brown to black when viewed from the top or side, with small yellow dots on the head and thorax. The nymphs look similar to adults except they are smaller, wingless, and grayish in color. Females lay their eggs in masses of about 10 to 12 eggs on the lower surface of leaves. The egg masses resemble green blisters.

History: Although it was first reported in California in 1994, GWSS likely arrived in the state in the late 1980s as egg masses on plants. In 1999, significant vineyard losses in Southern California were determined to be due to GWSS spreading Pierce's disease to grapevines. This was the first indication of the severe threat posed by this new invasive pest.

Distribution: GWSS is native to the southeastern United States and northeastern Mexico. Since its initial introduction into Southern California, GWSS has spread throughout most of Southern California and into parts of the southern San Joaquin Valley.

Life Cycle: GWSS typically has two generations per year and overwinters as an adult. Overwintering adults begin laying eggs in February, with most of egg laying occurring between late March and April. Nymphs hatch in 10 to 14 days and feed on young succulent stems while they progress through five nymphal stages. The first-generation adults appear in May through July, with egg laying occurring between June and October. The nymphs emerging from these egg masses develop into adults, which overwinter and lay eggs the following spring.

Hosts, Range, and Economic Importance: The range of GWSS includes many habitats, including agricultural crops, urban landscapes, native woodlands, and riparian vegetation. The host list includes over 360 genera of plants, and ranges widely from woody plants to annual and perennial herbaceous plants. Since the insect feeds on the nutrient-poor xylem fluid of the plant, GWSS must consume large amounts of fluid to gain enough nutrition to grow and reproduce. Consequently, the adults and nymphs excrete large amounts of liquid while feeding, which gives fruit and foliage a whitewashed appearance. Host preference changes according to the availability and nutritional value of host plants at any given time.

GWSS is a significant vector of *Xylella fastidiosa,* the bacterium that causes Pierce's disease of grapes. Although Pierce's disease has been in California for over 100 years, native vectors do not transmit the bacterium as extensively as GWSS. GWSS is a serious threat to California vineyards because it moves faster and flies greater distances into vineyards than native sharpshooters. It also builds up large populations and can feed on the tougher, lower parts of grapevine stems. When the GWSS feeds on a plant that is infected with *X. fastidiosa,* it acquires the bacteria, which multiplies within the insect's mouthparts. The sharpshooter then transfers the bacteria to other plants when it feeds. Symptoms include chlorosis and scorching of leaves, with entire grapevines dying within one to five years.

In California, in addition to the strains of *X. fastidiosa* that cause Pierce's disease, there are also strains that cause other plant diseases such as alfalfa dwarf, almond leaf scorch, mulberry leaf scorch, oleander leaf scorch, and sweetgum dieback. At this time there is no known cure for any of these diseases.

Host List:

Common Name	Scientific Name
Abelia	*Abelia* spp.
Acacia	*Acacia* spp.
Aeonium	*Aeonium* spp.
African tulip tree	*Spathodea* spp.
Agapanthus	*Agapanthus* spp.
Agave	*Agave* spp.
Albizzia	*Albizia* spp.
Alder	*Alnus* spp.
Aleurites	*Aleurites* spp.
Aloe plant	*Aloe* spp.
Amaranth	*Amaranthus* spp.
American linden tree	*Tilia* spp.
Ananas	*Ananas* spp.
Annona (cherimoya)	*Annona* spp.
Apple	*Malus* spp.
Aptenia	*Aptenia* spp.
Aralia ivy	*Fatshedera* spp.
Arborvitae	*Thuja* spp.
Arizona rosewood	*Vauquelinia* spp.
Ash	*Fraxinus* spp.
Asparagus	*Asparagus* spp.
Aspidistra	*Aspidistra* spp.
Aucuba	*Aucuba* spp.
Australian bluebell creeper	*Sollya* spp.
Australian tree fern	*Alsophila* spp.
Avocado	*Persea* spp.
Ayo ginger	*Hedychium* spp.
Azalea	*Rhododendron* spp.
Baccharis	*Baccharis* spp.
Baja pitcher sage	*Lepechinia* spp.
Banana	*Musa* spp.
Barbados Gooseberry	*Pereskia* spp.
Barberry	*Berberis* spp.
Basket plant	*Aeschynanthus* spp.
Bauhinia	*Bauhinia* spp.
Bean	*Phaseolus* spp.
Beard-tongue	*Penstemon* spp.
Bee bee Tree	*Tetradium* spp.
Beech tree	*Fagus* spp.
Begonia	*Begonia* spp.
Bignonia	*Bignonia* spp.
Birch	*Betula* spp.
Bird-of-paradise	*Strelitzia* spp.
Blackberry	*Rubus* spp.
Blood-trumpet	*Distictus* spp.
Blue sky flower	*Thunbergia* spp.
Blueberry	*Vaccinium* spp.

Boneset	*Eupatorium* spp.
Bottle tree	*Brachychiton* spp.
Bottlebrush	*Callistemon* spp.
Bougainvillea	*Bougainvillea* spp.
Box tree	*Lophostemon* spp.
Boxleaf azara	*Azara* spp.
Boxwood	*Buxus* spp.
Brazilian dutchman's pipe	*Aristolochia* spp.
Brunfelsia	*Brunfelsia* spp.
Buckthorn	*Rhamnus* spp.
Bugleweed	*Ajuga* spp.
Butterfly bush	*Buddleja* spp.
Cactus	*Opuntia* spp.
Caesalpinia	*Caesalpinia* spp.
Calla lily	*Zantedeschia* spp.
Camellia	*Camellia* spp.
Canna	*Canna* spp.
Cape chestnut	*Calodendrum* spp.
Cardboard sago	*Zamia* spp.
Carob	*Ceratonia* spp.
Castanospermum	*Castanospermum* spp.
Castorbean	*Ricinus* spp.
Cat's claw	*Macfadenya* spp.
Catawba	*Catalpa* spp.
Ceratostigma	*Ceratostigma* spp.
Cestrum	*Cestrum* spp.
Champak	*Michelia* spp.
Chaste tree	*Vitex* spp.
Chinaberry	*Melia* spp.
Chinese tallow	*Sapium (Triadica)* spp.
Chinquapin	*Castanopsis* spp.
Chitalpa	*Chitalpa* spp.
Chokecherry	*Aronia* spp.
Christmas cactus	*Schlumbergera* spp.
Chrysanthemum	*Chrysanthemum* spp.
Cinnamomum	*Cinnamomum* spp.
Citrus	*Citrus* spp.
Cleyera	*Cleyera* spp.
Clytostoma	*Clytostoma* spp.
Cocculus	*Cocculus* spp.
Cocklebur	*Xanthium* spp.
Cocos	*Cocos* spp.
Coffee	*Coffea* spp.
Coleus	*Coleus* spp.
Coneflower	*Rudbeckia* spp.
Coprosma	*Coprosma* spp.
Coral tree	*Erythrina* spp.
Coreopsis	*Coreopsis* spp.
Cotoneaster	*Cotoneaster* spp.
Cotton	*Gossypium* spp.
Cottonwood	*Populus* spp.
Cranesbill	*Geranium* spp.
Crape myrtle	*Lagerstroemia* spp.
Crassula	*Crassula* spp.
Cupaniopsis	*Cupaniopsis* spp.
Cuphea	*Cuphea* spp.

Cycad	*Cycas* spp.
Date palm	*Phoenix* spp.
Daylily	*Hemerocallis* spp.
Deodar cedar	*Cedrus* spp.
Desert willow	*Chilopsis* spp.
Dianella	*Dianella* spp.
Dianthus	*Dianthus* spp.
Dietes	*Dietes* spp.
Dodonaea	*Dodonaea* spp.
Dogwood	*Cornus* spp.
Dracaena	*Dracaena* spp.
Elaeagnus	*Elaeagnus* spp.
Elaeocarpus	*Elaeocarpus* spp.
Elderberry	*Sambucus* spp.
Elephant Ear	*Colocasia* spp.
Elm	*Ulmus* spp.
Ensete	*Ensete* spp.
Eriobotrya	*Eriobotrya* spp.
Escallonia	*Escallonia* spp.
Eucalyptus	*Eucalyptus* spp.
Eugenia	*Eugenia* spp.
Euonymus	*Euonymus* spp.
Euphorbia	*Euphorbia* spp.
Euryops	*Euryops* spp.
Evening primrose	*Oenothera* spp.
Evergreen clematis	*Clematis* spp.
Evergreen grape	*Rhoicissus* spp.
Feijoa	*Feijoa* spp.
Fig	*Ficus* spp.
Firewheel tree	*Stenocarpus* spp.
Fishtail	*Caryota* spp.
Five finger	*Pseudopanax* spp.
Flax lily	*Phormium* spp.
Fleabane	*Erigeron* spp.
Floss-silk tree	*Chorisia* spp.
Foxglove	*Digitalis* spp.
Fringe tree	*Chionanthus* spp.
Frogfruit	*Phyla* spp.
Gardenia	*Gardenia* spp.
Gazania	*Gazania* spp.
Geijera	*Geijera* spp.
Giant turf lily	*Liriope* spp.
Giant turf lily	*Lirope* spp.
Ginger	*Alpinia* spp.
Ginko	*Ginkgo* spp.
Gladiolus	*Gladiolus* spp.
Gold cup	*Solandra* spp.
Gold dust plant	*Aucuba* spp.
Golden dewdrop	*Duranta* spp.
Golden-bells	*Forsythia* spp.
Golden-rain tree	*Koelreuteria* spp.
Goldenrod	*Solidago* spp.
Grape	*Vitis* spp.
Grape ivy	*Cissus* spp.
Green ebony	*Jacaranda* spp.
Grewia	*Grewia* spp.

Griselinia	*Griselinia* spp.
Guava	*Psidium* spp.
Guinea Gold Vine	*Hibbertia* spp.
Hardenbergia	*Hardenbergia* spp.
Hebe	*Hebe* spp.
Hibiscus	*Hibiscus* spp.
Holly	*Ilex* spp.
Hollyhock	*Althaea* spp.
Honey locust	*Gleditsia* spp.
Honey myrtle	*Melaleuca* spp.
Honeysuckle	*Lonicera* spp.
Hornbeam	*Carpinus* spp.
Horsechestnut	*Aesculus* spp.
Hydrangea	*Hydrangea* spp.
Hymenosporum	*Hymenosporum* spp.
Indian Rosewood	*Dalbergia* spp.
Indian snakeroot tree	*Rauvolfia* spp.
Itea	*Itea* spp.
Ivy	*Hedera* spp.
Japanese aralia	*Aralia* spp.
Japanese fatsia	*Fatsia* spp.
Japanese Maple	*Acer* spp.
Japanese silvertree	*Neolitsea* spp.
Jasmine	*Jasminum* spp.
Jimsonweed	*Datura* spp.
Jojoba	*Simmondsia* spp.
Jujube	*Ziziphus* spp.
Juniper	*Juniperus* spp.
Kaffir lily	*Clivia* spp.
Kaffir plum	*Harpephyllum* spp.
Kalanchoe	*Kalanchoe* spp.
Kangaroo Paw	*Anigozanthos* spp.
Kumquat	*Fortunella* spp.
Lady palm	*Rhapis* spp.
Lambsquarter	*Chenopodium* spp.
Laurel	*Laurus* spp.
Leadwort	*Plumbago* spp.
Lemon verbena	*Aloysia* spp.
Leptospermum	*Leptospermum* spp.
Lettuce	*Lactuca* spp.
Leucodendron	*Leucodendron* spp.
Lilac	*Syringa* spp.
Lionstail	*Leonotis* spp.
Lippia	*Lippia* spp.
Liriope	*Liriope* spp.
Lithocarpus	*Lithocarpus* spp.
Locust	*Robinia* spp.
Loropetalum	*Loropetalum* spp.
Luma	*Luma* spp.
Lychee	*Litchi* spp.
Macadamia	*Macadamia* spp.
Madagascar jasmine	*Stephanotis* spp.
Madagascar periwinkle	*Catharanthus* spp.
Magnolia	*Magnolia* spp.
Majestic palm	*Ravenea* spp.
Mallow	*Malva* spp.

Mandevilla	*Mandevilla* spp.
Mango	*Mangifera* spp.
Manzanita	*Arctostaphylos* spp.
Marigold	*Tagetes* spp.
Markhamia	*Markhamia* spp.
Matilija poppy	*Romneya* spp.
Maytenus	*Maytenus* spp.
Mesquite	*Prosopis* spp.
Metrosideros	*Metrosideros* spp.
Mexican bluebells	*Ruellia* spp.
Mexican Palo Verde	*Parkinsonia* spp.
Milkweed	*Asclepias* spp.
Milkwort	*Polygala* spp.
Mock orange	*Philadelphus* spp.
Monstera	*Monstera* spp.
Moringa	*Moringa* spp
Morning glory	*Ipomoea* spp.
Mother fern	*Asplenium* spp.
Mountain ash	*Sorbus* spp.
Mountain mahogany	*Cercocarpus* spp.
Mulberry	*Morus* spp.
Myoporum	*Myoporum* spp.
Myrsine	*Myrsine* spp.
Myrtle	*Myrtus* spp.
Nandina	*Nandina* spp.
Natal Plum	*Carissa* spp.
New Zealand laurel	*Corynocarpus* spp.
Oak	*Quercus* spp.
Oleander	*Nerium* spp.
Olive	*Olea* spp.
Orange Jessamine; curry leaf	*Murraya* spp.
Oregon grape	*Mahonia* spp.
Osmanthus	*Osmanthus* spp.
Osteospermum	*Osteospermum* spp.
Palms	*Chamaedorea* spp.
Palo Verde	*Cercidium* spp.
Pandorea	*Pandorea* spp.
Papaya	*Carica* spp.
Passion fruit	*Passiflora* spp.
Pear	*Pyrus* spp.
Pelargonium	*Pelargonium* spp.
Pepper plant	*Piper* spp.
Pepper, chile	*Capsicum* spp.
Periwinkle	*Vinca* spp.
Persimmon	*Diospyros* spp.
Peruvian lily	*Alstroemeria* spp.
Philodendron	*Philodendron* spp.
Phlox	*Phlox* spp.
Photinia	*Photinia* spp.
Pincushion	*Leucospermum* spp.
Pine	*Pinus* spp.
Pistachio	*Pistacia* spp.
Pithecellobium	*Pithecellobium* spp.
Pittosporum	*Pittosporum* spp.
Plectranthus	*Plectranthus* spp.
Plumeria	*Plumeria* spp.

Podocarpus	*Podocarpus* spp.
Pokeweed	*Phytolacca* spp.
Polygonum	*Polygonum* spp.
Pomegranate	*Punica* spp.
Portulacaria	*Portulacaria* spp.
Powderpuff	*Calliandra* spp.
Privet	*Ligustrum* spp.
Protea	*Protea* spp.
Prunus	*Prunus* spp.
Pyracantha/Firethorn	*Pyracantha* spp.
Queen Palm	*Arecastrum (Syagrus)* spp.
Quince	*Cydonia* spp.
Ragweed	*Ambrosia* spp.
Raphiolepis	*Raphiolepis* spp.
Red emu bush	*Eremophila* spp.
Redbud	*Cercis* spp.
Redroot	*Ceanothus* spp.
Rock rose	*Cistus* spp.
Rose	*Rosa* spp.
Sage	*Salvia* spp.
Sapium	*Sapium* spp.
Sassafras	*Sassafras* spp.
Sawleaf Zelkova	*Zelkova* spp.
Scalebroom	*Lepidospartum* spp.
Schinus	*Schinus* spp.
Seaforthia	*Archontophoenix* spp.
Senna	*Cassia* spp.
Sentry palm	*Howea* spp.
Serviceberry	*Amelanchier* spp.
Shrub verbena	*Lantana* spp.
Snapdragon	*Antirrhinum* spp.
Solanum	*Solanum* spp.
Sonchus	*Sonchus* spp.
Sorghum	*Sorghum* spp.
Speedwell	*Veronica* spp.
Spider flower	*Grevillea* spp.
Spiderwort	*Tradescantia* spp.
Spurge	*Pachysandra* spp.
St. Bernard's lily	*Chlorophytum* spp.
St. John's-wort	*Hypericum* spp.
Staghorn fern	*Platycerium* spp.
Star gooseberry	*Phyllanthus* spp.
Statice	*Limonium* spp.
Strawberry tree	*Arbutus* spp.
Sumac	*Rhus* spp.
Sun king sophora	*Sophora* spp.
Sunflower	*Helianthus* spp.
Sweet box	*Sarcococca* spp.
Sweet gum	*Liquidambar* spp.
Sword fern	*Nephrolepis* spp.
Sycamore	*Platanus* spp.
Syzygium	*Syzygium* spp.
Tecomaria	*Tecomaria* spp.
Ternstroemia	*Ternstroemia* spp.
Texas Ranger	*Leucophyllum* spp.
Thornless hawthorn	*Crataegus* spp.

Threadleaf aralia	*Aralia* spp.
Ti	*Cordyline* spp.
Tipu Tree	*Tipuana* spp.
Toyon	*Heteromeles* spp.
Trachelospermum	*Trachelospermum* spp.
Transvaal daisy	*Gerbera* spp.
Tree fern	*Dicksonia* spp.
Tree tobacco	*Nicotiana* spp.
Tristania	*Tristania* spp.
Trumpet creeper	*Campsis* spp.
Trumpet tree	*Tabebuia* spp.
Tulbaghia	*Tulbaghia* spp.
Tulip tree	*Liriodendron* spp.
Tupelo	*Nyssa* spp.
Tupidanthus	*Tupidanthus* spp.
Umbrella catchbird tree	*Pisonia* spp.
Umbrella tree	*Schefflera* spp.
Umbrella wort	*Mirabilis* spp.
Viburnum	*Viburnum* spp.
Vigna	*Vigna* spp.
Violet	*Viola* spp.
Walnut	*Juglans* spp.
Washington palm	*Washingtonia* spp.
Water gum	*Tristaniopsis* spp.
White sapote	*Casimiroa* spp.
Wild bergamot	*Monarda* spp.
Willow	*Salix* spp.
Willow myrtle	*Agonis* spp.
Wind palm	*Trachycarpus* spp.
Wisteria	*Wisteria* spp.
Wollemia	*Wollemia* spp.
Woodbine	*Parthenocissus* spp.
Xylosma	*Xylosma* spp.
Yellow jessamine	*Gelsemium* spp.
Yellowbells	*Tecoma* spp.
Yucca	*Yucca* spp.
Zea	*Zea* spp.
Zinnia	*Zinnia* spp.

(updated 08/14/2026)

Glassy-winged Sharpshooter - Modesto, Stanislaus County - 10/16/2026

Date Created: 10/16/2026

