Public Meeting Information

Asian Citrus Psyllid Control Program

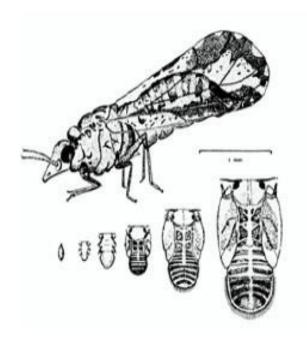


ACP Lifecycle

CITRUS PEST & DISEASE PREVENTION DIVISION

Asian Citrus Psyllid Lifecycle

- Eggs laid singly
- 5 nymphal stages
- 10 generations / year
- Life cycle takes 15-47 days
- Egg to adult in 2 weeks at
 75-80° F



Asian Citrus Psyllid Life Stages





Eggs



Nymphs with wax exudate



Adult ACP

Adult feeding with nymphs

CDFA REPORT A PEST HOTLINE: 1.800.491.1899

www.cdfa.ca.gov/go/reportapest



Huanglongbing or Citrus Greening Disease









Blotchy mottle



Asymmetric leaf mottling



Yellow Veins





Huanglongbing (HLB), also known as Citrus Greening Disease or Yellow Shoot Disease, is a very destructive bacterial disease of citrus and citrus relatives. It is spread primarily by psyllid insect vectors and through grafting with infected budwood. HLB represents a serious threat to the citrus industry worldwide and especially in California. Three separate strains of HLB have been discovered and identified: Asian, African (South Africa) and South American (Brazil).

Symptoms include yellow shoots, leaf mottle, small upright leaves and lopsided fruits with a bitter flavor. There is no known control or cure for this disease once a tree becomes infected. Diseased trees are nonproductive, have a shortened lifespan and must be removed and destroyed to prevent further spread of HLB.

This disease is spread readily by the Asian citrus psyllid (*Diaphorina citri*), which is widespread in Florida, Texas, Hawaii, Southern California and Mexico. The insect vector (both adults and nymphs) feed on the new growth flush. Orange jasmine (Murraya paniculata), an ornamental citrus relative, is the preferred host for the psyllid, although all Citrus species are hosts. The Asian strain of HLB was discovered for the first time in August 2005 in Florida, in Texas in February 2012 and in Southern California in March 2012. The first HLB infected citrus tree in California (a pummelo, grafted on lemon) was found in Hacienda Heights, Los Angeles County.

If you suspect you have citrus with HLB disease – based on the presence of the symptoms described or of the insect vector – please contact the California Department of Food and Agriculture at 1-800-491-1899.



Environmental Monitoring



To ensure protection of human health and the environment, the CDFA has contracted with DPR to oversee environmental monitoring of treatment projects.

- Sampling media include air, leaf, soil, tank, and water.
- Samples are collected before and after treatment in order to analyze the amount of product residue.

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Survey

CDFA staff will survey the area for Asian citrus psyllid and Huanglongbing disease symptoms.













- The surveyor will collect leaf samples from each host plant on the property and any life stages of the ACP that they find.
- Host plants include all citrus varieties and hybrids, including kumquat, mandarin, grapefruit, orange, lemon and lime; also including closely related plants like curry leaf and ornamental orange jasmine.
- All plant samples are processed and shipped to the CDFA Laboratory in Sacramento, California for analysis.
- If the sample is confirmed positive for the HLB disease, the resident will be notified.



PEST HOTLINE: 1.800.491.1899

Treatment



- Treatments will be made by a professional applicator and/or CDFA staff
- Only treat citrus plants and its relatives, such as murraya, curry or wampi
- Tempo: foliar treatment
- Merit: ground treatment









CDFA REPORT A PEST HOTLINE: 1.800.491.1899

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Tree Removal

- A tree that is confirmed by the CDFA lab as positive for the bacteria that causes Huanglongbing will decline in health and die.
 - It might appear healthy now, but the disease is damaging the tree's vascular system and causing the tree to starve for nutrients.
 - The diseased tree is considered a nuisance as it poses a threat to citrus trees in the surrounding community.
- There is no cure for HLB, and all confirmed positive trees must be removed.
 - CDFA will take great care with the residential property while conducting the tree removal.

PEST HOTLINE: 1.800.491.1899











Active Ingredients

The Asian citrus psyllid (ACP) treatment program uses products containing the active ingredients imidacloprid and beta-cyfluthrin. The products used by CDFA are the same formulation as products that can be purchased at local home and garden centers.

Imidacloprid is a systemic insecticide, in a group of chemicals called neonicotinoids. It is available in a variety of home garden use products and flea treatments for dogs and cats.

Beta-cyfluthrin is a foliar applied synthetic pyrethroid insecticide, similar to the compound produced by chrysanthemum flowers. Pyrethroids are one of the most common household insecticides used today. Beta-cyfluthrin products are used in homes, restaurants, hospitals, food processing plants and gardens.

PEST HOTLINE: 1.800.491.1899





From a Local Home Improvement Store

Beta-Cyfluthrin Product, Imidacloprid Product,
Pyrethroid Product



Biocontrol

Biological Control Method

- Use of natural enemies to suppress and control populations of invasive pests.
- Tamarixia radiata was identified as an ideal biocontrol agent for Asian citrus psyllid.
- Biocontrol is part of the Integrated Pest
 Management plan for Asian citrus psyllid.





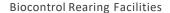






Biocontrol Rearing Process



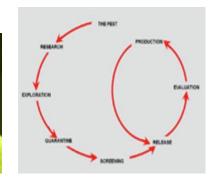




CITRUS PEST & DISEASE PREVENTION DIVISION



Asian Citrus Psyllid



PEST HOTLINE: 1.800.491.1899



Protecting Pollinators

Protecting native bees and managed hives is an important consideration in agricultural officials' efforts to protect our food supply and environment from invasive pests like the Asian citrus psyllid.

- The program follows all pesticide labels and bee safe label language.
- Program staff actively look for foraging bees.
- Treatment activities are not conducted if bees are actively foraging on host plants to be treated.
- When bees are present the treatment will be rescheduled for a time when bees are not active, like early morning.

PEST HOTLINE: 1.800.491.1899









When bees are present, we reschedule treatment for early morning when bees are dormant.







More info online at www.cdfa.ca.gov/plant/pollinators



Notifications

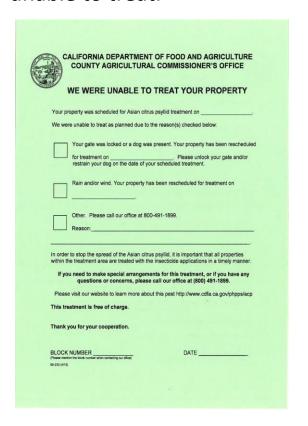
PEST HOTLINE: 1.800.491.1899



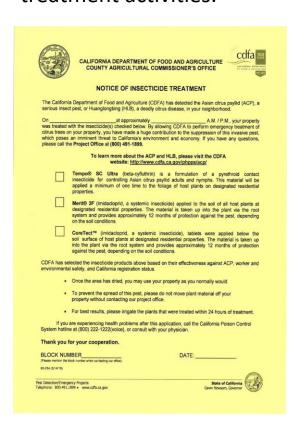
Properties will be notified at least 48 hours in advance with a pink notification.

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE COUNTY AGRICULTURAL COMMISSIONER'S OFFICE OFFICIAL NOTICE ADVANCE NOTICE OF INSECTICIDE TREATMENT The California Department of Food and Agriculture (CDFA) has detected the Asian citrus psyllid (ACP), a serious insect pest, or Huanglongbing (HLB), a deadly citrus disease, in your neighborhood. CDFA has Settous makes between general presentations and protect California from the negative environmental and economic impacts the establishment is needed to protect California from the negative environmental and economic impacts the establishment of this post throughout California would cause. To prevent the prevent of these pests, it will be necessary to apply the insecticedes TempoS SC Ultra (petalcyfluthrid on your property. These insecticides kill adult and/or immature ACP present on your citrus trees or host shrubs. The insecticides are applied using ground-based equipment CDFA has selected these products for use based on their effectiveness against Asian citrus psyllid, worker and environmental safety, and California registration status. By allowing CDFA to treat the citrus trees on your property, you will be making a huge contribution to the suppression of this invasive pest, which poses an imminent threat to California's environment and This treatment is free of charge. Your property is scheduled for treatment on conditions, such as rain or wind, may cause the treatment to be rescheduled. You do not need to be present during the treatment as long as treatment staff have access to your property, including the backyard. The treatment takes only a few minutes if you take the following steps: If possible, temporarily secure any pets and their food and water dishes indoors. Close your doors and windows. They may be opened after treatment is complete. . Move items such as barbecues, lawn furniture, toys, etc. away from your trees and shrubs. It is not necessary to harvest all of the citrus fruit from your trees before the treatment begins. Any fruit to be picked on or after the treatment date can be left on the tree and harvested after the area has dried. · Avoid contact with treated area until the treated area is dry. Contact our project office before moving any citrus plant material from your property. Please visit our website to learn more about this pest http://www.cdfa.ca.gov/phpps/acp/ If you have any questions or a situation that requires special attention, please call (800) 491-1899. Thank you for your cooperation 60-232 (3/14/18)

Properties will receive a green reschedule notification if staff were unable to treat.



Properties will receive a yellow notification upon completion of treatment activities.





Quarantine

PEST HOTLINE: 1.800.491.1899



What Plants are Regulated?

Asian citrus psyllid (ACP) and Huanglongbing (HLB) host plants are members of the Rutaceae family which includes all citrus as well as some ornamentals and plants grown for their leaves, such as Makrut lime and *Murraya* spp. (including curry leaf).

A quarantine has been established that includes all areas within 5 miles of each HLB positive tree. With the exception of citrus fruit that has been commercially cleaned and packed, or fruit for personal consumption that has been cleaned of all stems and leaves, ACP and HLB host plants and plant parts are regulated. Movement of regulated host material within and from a quarantine area is prohibited unless it meets regulatory requirements.

What Can I Do to Prevent the Spread of HLB?

Do not move potted citrus plants or other host plants from your property.

Homegrown fruit for personal consumption (under 25 pounds) may be moved within the quarantine area provided *all stems and leaves are removed*. Sharing fruit is discouraged due of the possibility of ACP hitchhiking to other areas.

What Establishments are Regulated?

NURSERIES

Outdoorgrown and maintained citrus nursery stock within the HLB quarantine poses a tremendous threat to spreading HLB and cannot be sold. Only nurseries witha CDFA approved structure may sell citrus plants with a red HLB quarantine tag.





GREEN WASTE

Green waste should be placed in residential yard waste bins or taken to local landfills or green waste recycling centers within the HLB quarantine area. Green waste may only be moved out of the quarantine area if compliant with quarantine requirements.



SWAP MEETS AND FARMERS MARKETS

Fruit free from stems and leaves may be sold at swap meets and farmers markets by vendors with a compliance agreement. Mandarin fruit for sale with attached leaf and stem in the HLB quarantine requires a special permit. Nursery stock may not be sold at markets within the HLB quarantine area.

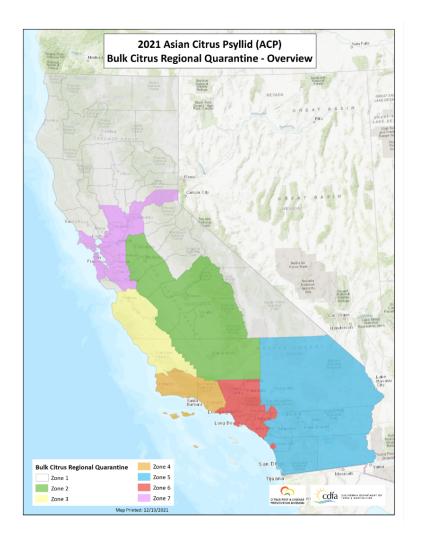


More Quarantine Information?

Visit our website for the latest regulation information: https://www.cdfa.ca.gov/Citrus



Quarantine Maps



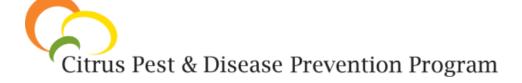






PEST HOTLINE: 1.800.491.1899

https://californiacitrusthreat.org



PROTECT YOUR CITRUS CALIFORNIA CITRUS NEWS RESOURCES



A Threat to California Citrus

A plant disease that kills citrus trees has been found in California. The disease, called Huanglongbing or citrus greening disease, isn't harmful to humans, but it is fatal for citrus trees and has no cure. The disease is spread by a pest called the Asian citrus psyllid as it feeds on citrus tree leaves. Until researchers find a solution, California homeowners who enjoy growing fresh citrus fruit in their yards, and



PEST & DISEASE PROTECT YOUR CITRUS CALIFORNIA CITRUS NEWS

RESOURCES

Public Meetings

In addition to being available on <u>CDFA's website</u>, presentations for recent public meetings are av CaliforniaCitrusThreat.org. Presentations include information the pest and disease, upcoming ac agricultural officials in specific communities and regulations in place to limit the spread of the ps

Learn More





https://californiacitrusthreat.org

"	June	August »

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28 CDFA Ventura County Public Meeting	29 CDFA Orange County Public Meeting	30	31	1	2

« June August »

Webinar Public Meeting on Treatment Plans in Your Neighborhood

A tiny insect called the Asian citrus psyllid has been found nearby and can spread a deadly citrus tree disease called Huanglongbing as it feeds on citrus tree leaves. Emergency treatment and quarantine action is needed to protect California from the negative economic and environmental impacts the establishment of this pest and disease would cause.

The best way to protect citrus trees from Huanglongbing is to stop the spread of the Asian citrus psyllid (ACP). The California Department of Food and Agriculture (CDFA) has consulted with scientists and pest experts about methods to prevent the spread of the ACP through treatments. Treatments are ONLY for citrus and are free of cost. All residents of properties scheduled for treatment for ACP will be notified at least 48 hours prior to the application. A webinar meeting for your area has been organized by CDFA to address planned treatment activities.

Documents

Meeting Presentation (English)

Presentación de la reunión (Español)

Ventura County Notice of Treatment

Map: Camarillo East (Ventura County)

Map: Camarillo, El Rio (Ventura County)

Map: Camarillo West (Ventura County)

Map: Moorpark (Ventura County)

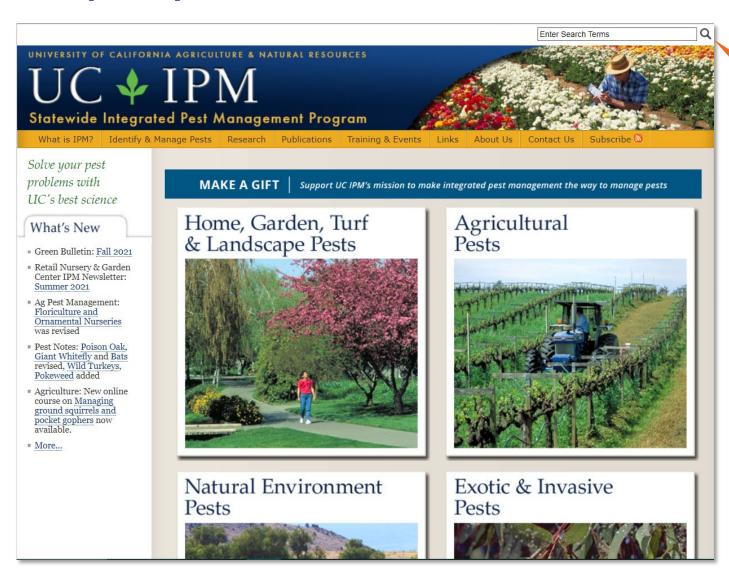
Map: Santa Paula (Ventura County)

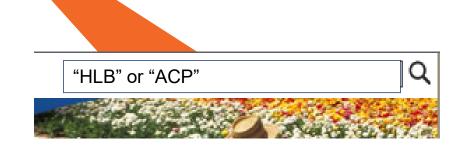
Tempo Insecticidal Products Q&A

Merit Insecticidal Products Q&A



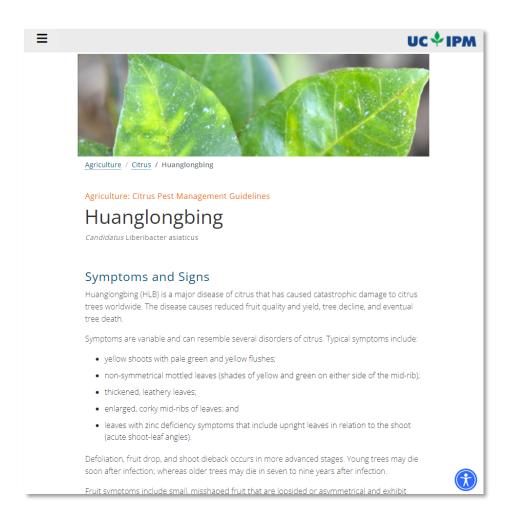
http://ipm.ucanr.edu/

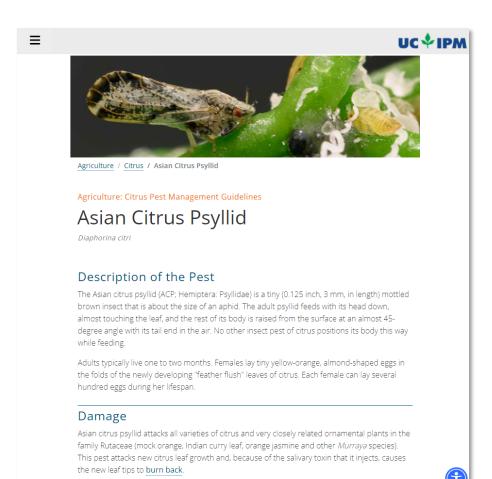






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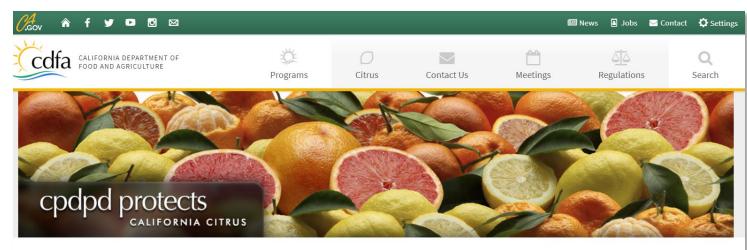




However, the more serious damage that it causes is due to the psyllid vectoring the bacterium



https://www.cdfa.ca.gov/citrus/



CDFA Home | Citrus Pest and Disease Prevention Division

Citrus Pest and Disease Prevention Division

1220 "N" Street, Sacramento, CA 95814 • 916-274-6300 • cdfa.cpdpd@cdfa.ca.gov

A Pest Hotline: 1-800-491-1899

The California Department of Food and Agriculture (CDFA) established the Citrus Pest and Disease Prevention Program (CPDPP) in 2009 to sustain and protect California citrus in accordance with the Food and Agriculture Code, section 5911-5940. In response to increasing pest and disease pressure, the Citrus Pest and Disease Prevention Committee recommended that CDFA seek dedicated resources to implement the CPDPP. Dedicated resources were secured in the 2019 Budget Act and the Citrus Pest and Disease Prevention Division (CPDPD) was established in July 2019. CPDPP activities previously carried out by the CDFA Plant Health and Pest Prevention Services Division have been transitioned

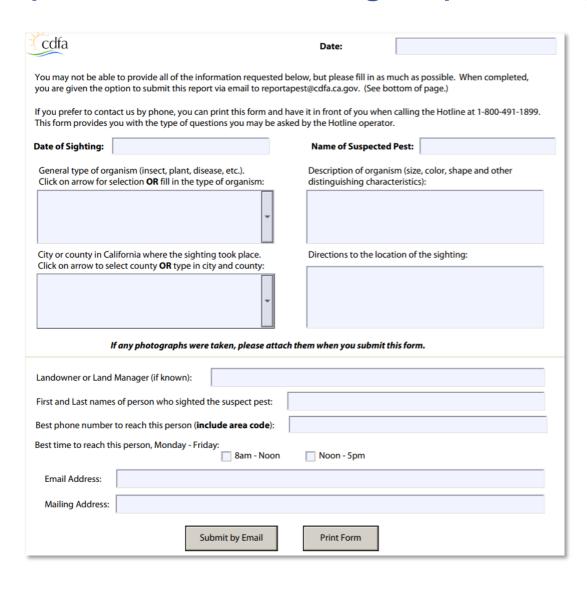








https://www.cdfa.ca.gov/plant/reportapest/



If you think you have a pest, you can report it by:

- Completing the CDFA "Report a Pest Sighting" form
 - Submit online or by mail
 - Include photos if possible

or

Calling the Pest Hotline at 1-800-491-1899



PEST HOTLINE: 1.800.491.1899

Questions?



To ask a question:

- 1. Raise your hand you will be unmuted and can ask verbally.
- 2. Type your question into the question box.





