Public Meeting Information

Asian Citrus Psyllid and

Huanglongbing Response Program



CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

Asian Citrus Psyllid (ACP) Life Cycle

- Up to 10 generations per year
- 5 nymph stages
- Life cycle is 15 47 days
- Eggs can reach the adult stage in 2 weeks

Life Stages



Pest Hotline:

Eggs

Nymphs with waxy tubules



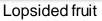
Adult

Adult feeding with nymphs



Huanglongbing (HLB)







Asymmetric leaf mottling



Blotchy mottling



Yellow, corked veins

- HLB is a bacterial disease of citrus and citrus relatives, caused by the bacteria *Candidatus* Liberibacter asiaticus.
- HLB can be spread by ACP feeding or grafting with infected budwood. ACP ingest the bacteria when feeding and can spread it to other trees.
- Symptoms include yellow shoots, asymmetric leaf mottle, thick or woody leaf veins, and lopsided, inedible fruit.
- There is no known cure for HLB. Once a tree is infected with HLB, it will die.
- If you suspect you have a citrus tree with HLB, please contact the California Department of Food and Agriculture at 1-800-491-1899.



Survey

CDFA staff will survey the area for all host plants and look for ACP and HLB disease symptoms.







- CDFA surveyors will collect leaf samples and any ACP life stages from all host plants.
- Host plants include all citrus varieties and hybrids (kumquat, mandarin, grapefruit, orange, lemon, and lime) and closely related plants like curry leaf and ornamental orange-jasmine.
- All plant samples are shipped to the CDFA Plant Pest Diagnostics Center laboratory in Sacramento and ACP samples are shipped to the Citrus Research Board laboratory in Riverside for analysis.
- If a sample is confirmed positive for ACP or the HLB disease, the resident will be notified.



Treatment

- CDFA will be treating citrus trees to eradicate possibly infected ACP in the area.
- Treatment will be applied by a professional applicator or CDFA staff.









Active Ingredients

- The ACP treatment program uses products containing the active ingredients imidacloprid and beta-cyfluthrin.
- Imidacloprid is an insecticide that provides lasting protection to trees. It is available in a variety of home garden products and flea treatments for dogs and cats.
- Beta-cyfluthrin is an insecticide used for the control of ACP adults and nymphs. It is similar to a natural compound found in chrysanthemum flowers. Beta-cyfluthrin products are used in homes, restaurants, hospitals, food processing plants and gardens.



Tempo SC Ultra Beta-cyfluthrin product



Merit 2F Imidacloprid product



CoreTect Imidacloprid product

Pest Hotline: 1.800.491.1899



Notifications

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CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	
COUNTY AGRICULTURAL COMMISSIONER'S OFFICE	
OFFICIAL NOTICE	2

cdfa 100

Carlos Contras

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 determined that emergency treatment is needed to protect California from the negative environmental celementa last energials, idealies a lection by the peritors Calcinate and on the legane environmenta and economic impacts the establishment of this peritors bet throughout California would cause. To prevent the spread of these pests, it will be necessary to apply the insectiones Tempo® SC Ultra (beta-cyfultrini), a privitinxia, and Merit® 27 or CoreEcte™ (imitacioprid), to all citrus trees and host shrubs located 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 economy.

This treatment is free of charge.

Your property is scheduled for treatment on	. Unfavorable	weathe
conditions, such as rain or wind, may cause the treatment to be rescheduled.	- Section 2	

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:

- Leave your gates unlocked.
- · 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.

After the treatment is completed:

- · 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.

Block Number: (Please refer to this block number when contacting our office)	Date:	
60-232 (3/14/18)		0
Pest Detection/Emergency Projects Telephone: 800.491.1899 • www.cdfa.ca.gov	State of California Gavin Newson, Governor	

48-hour Pre-treatment notification

Reschedule notification

Post-treatment notification

Pest Hotline:



Tree Removal

- There is no cure for HLB; once a tree is infected it will die.
- If an HLB positive tree is confirmed, the tree will be removed to prevent spread of the HLB disease to other citrus trees.





Pest Hotline: 1.800.491.1899

CITRUS PEST & DISEASE PREVENTION DIVISION

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURI

Quarantine

- ACP and HLB quarantines help prevent the spread of citrus pests.
- Avoid sharing fruit, if possible.
 - Homegrown fruit without stems and leaves maybe moved within the quarantine (25 pounds or less).
- Do not move potted citrus plants, budwood, cuttings, and other host plants from your property.
- Only graft using plant parts received from an approved source.
- Only nurseries with a CDFA approved structure may sell citrus plants with a **red** HLB quarantine tag.
- Contact CDFA for questions about moving citrus plants or fruit.





For more quarantine information:

www.cdfa.ca.gov/citrus/pests_diseases /hlb/regulation Pest Hotline: 1.800.491.1899



Biological Control

- *Tamarixia radiata* is an effective biocontrol agent and a natural enemy of ACP.
- This method alone is not enough to stop the spread of ACP.
- Strategic releases, along with treatment applications, help suppress ACP.
- *Tamarixia* are not a threat to humans or pets.



ACP Mummy



Tamarixia radiata



Tamarixia and ACP



Tamarixia laying eggs on an ACP nymph



Pest Hotline: 1.800.491.1899

Protecting Pollinators

- Protecting native bees and managed hives is essential to maintaining our food supply and ۲ the environment.
- CDFA staff actively look for foraging bees and take precautions to prevent pesticide drift. ٠
- The program follows all pesticide labels and instructions for bee safety. ٠
- CDFA will not treat if bees are present. ٠







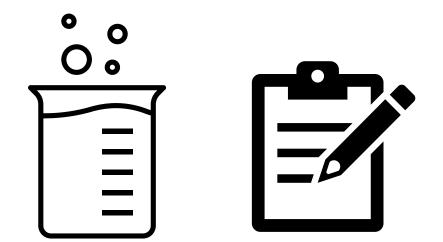
Pest Hotline:

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



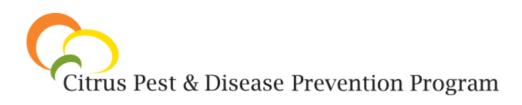
Environmental Consultation and Monitoring

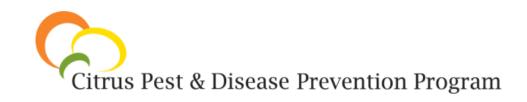
- Consultations are conducted with other State agencies prior to beginning any activity.
- Monitoring is conducted when activities move into new counties.
 - Air, soil, leaf and fruit samples are collected and tested for pesticide levels before and after applications.





https://californiacitrusthreat.org





EASE PROTECT YOUR CITRUS CALIFORNIA CITRUS NEWS RESOURCES CONTACT

♠ PEST & DISEASE 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

Public Meetings

In addition to being available on <u>CDFA's website</u>, presentations for recent public meetings are av <u>CaliforniaCitrusThreat.org</u>. 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

Pest Hotline:

1.800.491.1899

Learn More



http://ipm.ucanr.edu/

UNIVERSITY OF CALIFORNIA AGRICULTURE & NATURAL RESOURCES

UC & IPM

Statewide Integrated Pest Management Program

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Solve your pest problems with UC's best science

What's New

- Green Bulletin: Fall 2021
- Retail Nursery & Garden Center IPM Newsletter: Summer 2021
- Ag Pest Management: Floriculture and Ornamental Nurseries was revised
- Pest Notes: Poison Oak, Giant Whitefly and Bats revised, Wild Turkeys, Pokeweed added
- Agriculture: New online course on Managing ground squirrels and pocket gophers now available.
- More...

MAKE A GIFT | Support UC IPM's mission to make integrated pest management the way to manage pests

Home, Garden, Turf & Landscape Pests



Natural Environment

Pests

Agricultural Pests

Enter Search Terms

Exotic & Invasive Pests



Pest Hotline: 1.800.491.1899



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



Hot Topics What to Expect when CDFA is Inspecting, Trapping and Treating Health Questions and Answers - CoreTect[®] Health Questions and Answers - Merit[®] 2F Health Questions and Answers - Tempo[®] SC Ultra Analyses regarding the state of ACP and HLB in California Pests and Diseases Ouarantines



Regulatory Information



Pest Hotline:

1.800.491.1899

CITRUS PEST & DISEASE PREVENTION DIVISION CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

Thank you for attending!

- <u>https://californiacitrusthreat.org</u>
- <u>http://ipm.ucanr.edu/</u>
- <u>https://www.cdfa.ca.gov/citrus/</u>
- <u>https://www.cdfa.ca.gov/plant/reportapest/</u>

