Reunión pública Información

Programa de respuesta al psílido asiático de los cítricos y al huanglongbing



Crédito de la imagen: UCANR

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

Ciclo de vida del psílido asiático de los cítricos (ACP)

- Hasta 10 generaciones por año
- 5 etapas en la ninfa
- El ciclo de vida es de 15 a 47 días
- Los huevos pueden alcanzar el estado adulto en 2 semanas

Etapas de la vida



Huevos



Ninfas con túbulos cerosos



Adulto



Alimentación de adultos con ninfas

Pest Hotline:
1.800.491.1899

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

Huanglongbing (HLB)



Fruta ladeada



Moteado asimétrico de las hojas



Moteado de manchas



Venas amarillas y acorchadas

- El HLB es una enfermedad bacteriana de los cítricos y sus parientes, causada por la bacteria *Candidatus Liberibacter asiaticus.*
- El HLB puede propagarse por la alimentación del ACP o por el injerto con yemas infectadas. Los ACP ingieren la bacteria cuando se alimentan y pueden propagarla a otros árboles.
- Los síntomas incluyen brotes amarillos, moteado asimétrico de las hojas, venas de las hojas gruesas o leñosas y frutos asimétricos e incomestibles.
- No se conoce ninguna cura para el HLB. Una vez que un árbol está infectado por el HLB, morirá.
- Si sospecha que tiene un árbol de cítricos con HLB, póngase en contacto con el Departamento de Alimentos y Agricultura de California en el 1-800-491-1899.

Pest Hotline:
1.800.491.1899

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

Inspección

El personal del CDFA inspeccionará la zona en busca de todas las plantas hospedadoras y buscará síntomas de la enfermedad del ACP y el HLB.







Créditos de la imagen: Personal del CDFA

- Los inspectores del CDFA recogerán muestras de hojas y de cualquier fase de vida del ACP de todas las plantas huésped.
- Las plantas huésped incluyen todas las variedades e híbridos de cítricos (kumquat, mandarina, pomelo o toronja, naranja, limón y lima) y plantas estrechamente relacionadas como la hoja de curry y el jazmín naranja ornamental.
- Todas las muestras de plantas se envían al laboratorio del Centro de Diagnóstico de Plagas Vegetales del CDFA en Sacramento y las muestras de ACP se envían al laboratorio del Consejo de Investigación de Cítricos en Riverside para su análisis.
- Si se confirma que una muestra es positiva para el ACP o la enfermedad del HLB, se notificará al residente.

Pest Hotline:
1.800.491.1899

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

Tratamiento

- El CDFA tratará los cítricos para erradicar el ACP posiblemente infectado en la zona.
- El tratamiento será aplicado por un aplicador profesional o por el personal del CDFA.







Créditos de la imagen: Personal del CDFA

Ingredientes activos

- El programa de tratamiento del ACP utiliza productos que contienen los ingredientes activos imidacloprid y beta-ciflutrina.

- El imidacloprid es un insecticida que proporciona una protección duradera a los árboles. Está disponible en una variedad de productos de jardinería y tratamientos antipulgas para perros y gatos.

- La beta-ciflutrina es un insecticida utilizado para el control de adultos y ninfas del ACP. Es similar a un compuesto natural que se encuentra en las flores del crisantemo. Los productos con beta-ciflutrina se utilizan en hogares, restaurantes, hospitales, plantas de procesamiento de alimentos y jardines.



Tempo SC Ultra
Producto de beta-ciflutrina



Merit 2F
Producto imidacloprid

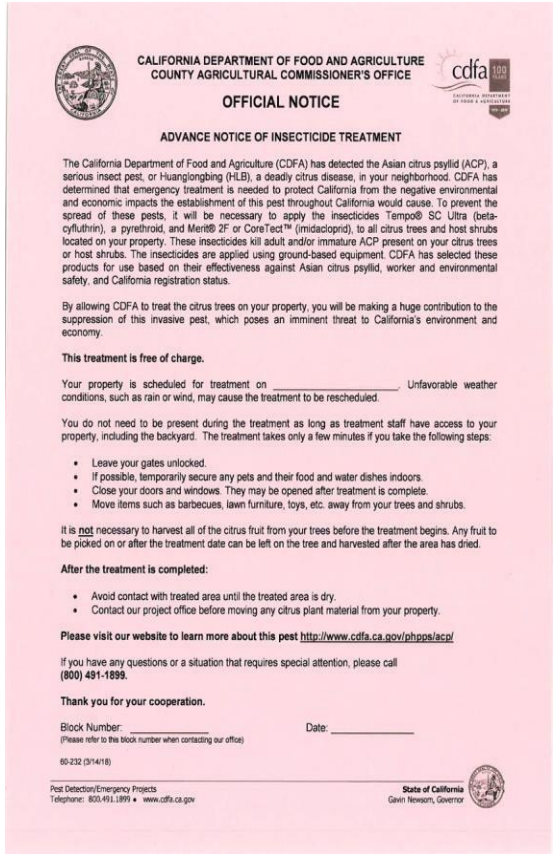


CoreTect
Producto imidacloprid

Pest Hotline:
1.800.491.1899

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

Notificaciones



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 determined that emergency treatment is needed to protect California from the negative environmental and economic impacts the establishment of this pest throughout California would cause. To prevent the spread of these pests, it will be necessary to apply the insecticides Tempo® SC Ultra (beta-cyfluthrin), a pyrethroid, and Merit® 2F or CoreTect™ (imidacloprid), 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 weather 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:

- 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.

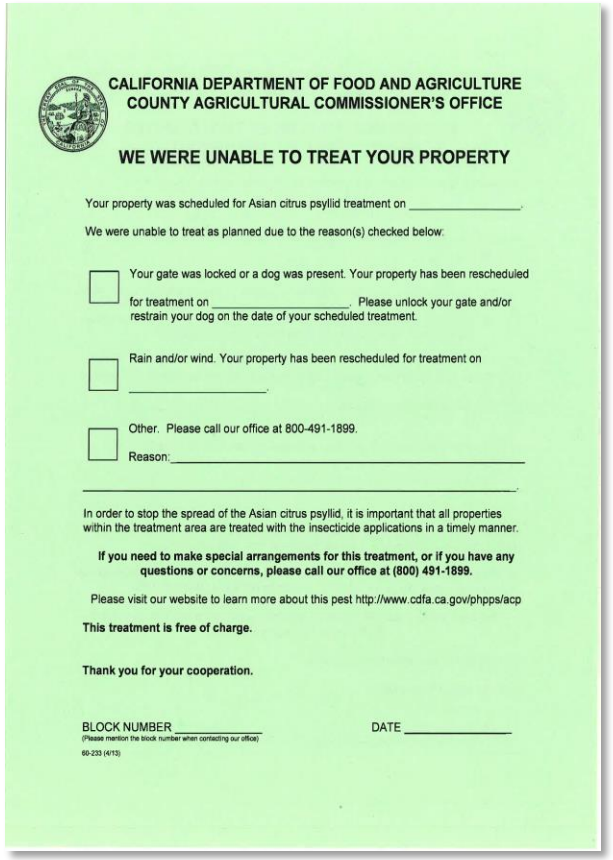
Block Number: _____ Date: _____
(Please refer to this block number when contacting our office)

60-232 (3/14/18)

Pest Detection/Emergency Projects
Telephone: 800.491.1899 • www.cdfa.ca.gov

State of California
Gavin Newsom, Governor

Notificación de pretratamiento en 48 horas



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

WE WERE UNABLE TO TREAT YOUR PROPERTY

Your property was scheduled for Asian citrus psyllid treatment on _____.

We were unable to treat as planned due to the reason(s) checked below:

☐ Your gate was locked or a dog was present. Your property has been rescheduled for treatment on _____. Please unlock your gate and/or restrain your dog on the date of your scheduled treatment.

☐ Rain and/or wind. Your property has been rescheduled for treatment on _____.

☐ Other. Please call our office at 800-491-1899.
Reason: _____

In order to stop the spread of the Asian citrus psyllid, it is important that all properties within the treatment area are treated with the insecticide applications in a timely manner.

If you need to make special arrangements for this treatment, or if you have any questions or concerns, please call our office at (800) 491-1899.

Please visit our website to learn more about this pest http://www.cdfa.ca.gov/phpps/acp

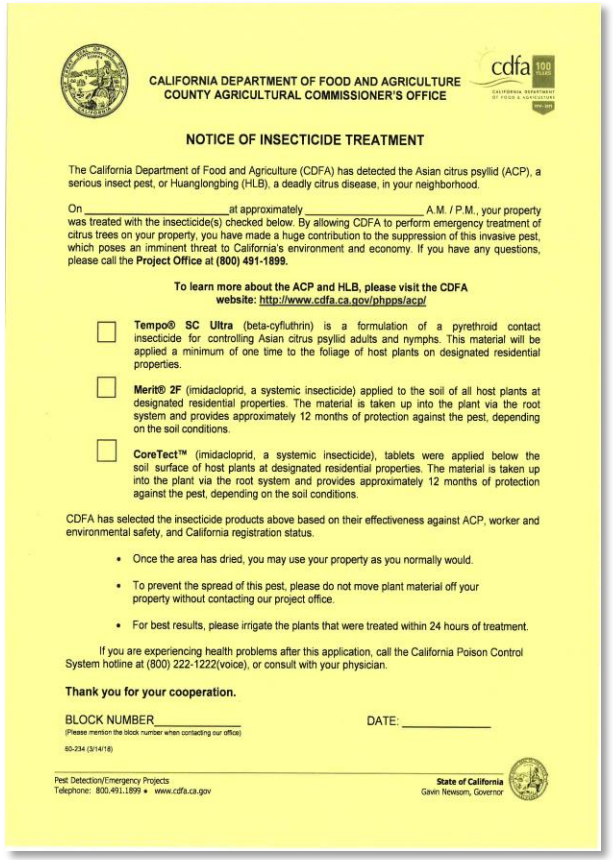
This treatment is free of charge.

Thank you for your cooperation.

BLOCK NUMBER _____ DATE _____
(Please mention the block number when contacting our office)

60-233 (4/13)

Notificación de reprogramación



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

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.

On _____ at approximately _____ A.M. / P.M., your property was treated with the insecticide(s) checked below. By allowing CDFA to perform emergency treatment of citrus trees on your property, you have made a huge contribution to the suppression of this invasive pest, which poses an imminent threat to California's environment and economy. If you have any questions, please call the **Project Office** at **(800) 491-1899.**

To learn more about the ACP and HLB, please visit the CDFA website: http://www.cdfa.ca.gov/phpps/acp/

☐ **Tempo® SC Ultra** (beta-cyfluthrin) is a formulation of a pyrethroid contact insecticide for controlling Asian citrus psyllid adults and nymphs. This material will be applied a minimum of one time to the foliage of host plants on designated residential properties.

☐ **Merit® 2F** (imidacloprid, a systemic insecticide) applied to the soil of all host plants at designated residential properties. The material is taken up into the plant via the root system and provides approximately 12 months of protection against the pest, depending on the soil conditions.

☐ **CoreTect™** (imidacloprid, a systemic insecticide), tablets were applied below the soil surface of host plants at designated residential properties. The material is taken up into the plant via the root system and provides approximately 12 months of protection against the pest, depending on the soil conditions.

CDFA has selected the insecticide products above based on their effectiveness against ACP, worker and environmental safety, and California registration status.

- Once the area has dried, you may use your property as you normally would.
- To prevent the spread of this pest, please do not move plant material off your property without contacting our project office.
- For best results, please irrigate the plants that were treated within 24 hours of treatment.

If you are experiencing health problems after this application, call the California Poison Control System hotline at (800) 222-1222(voice), or consult with your physician.

Thank you for your cooperation.

BLOCK NUMBER _____ DATE: _____
(Please mention the block number when contacting our office)

60-234 (3/14/18)

Pest Detection/Emergency Projects
Telephone: 800.491.1899 • www.cdfa.ca.gov

State of California
Gavin Newsom, Governor

Notificación posterior al tratamiento

Pest Hotline:
1.800.491.1899

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

Eliminación de árboles

- No hay cura para el HLB; una vez que un árbol está infectado, morirá.

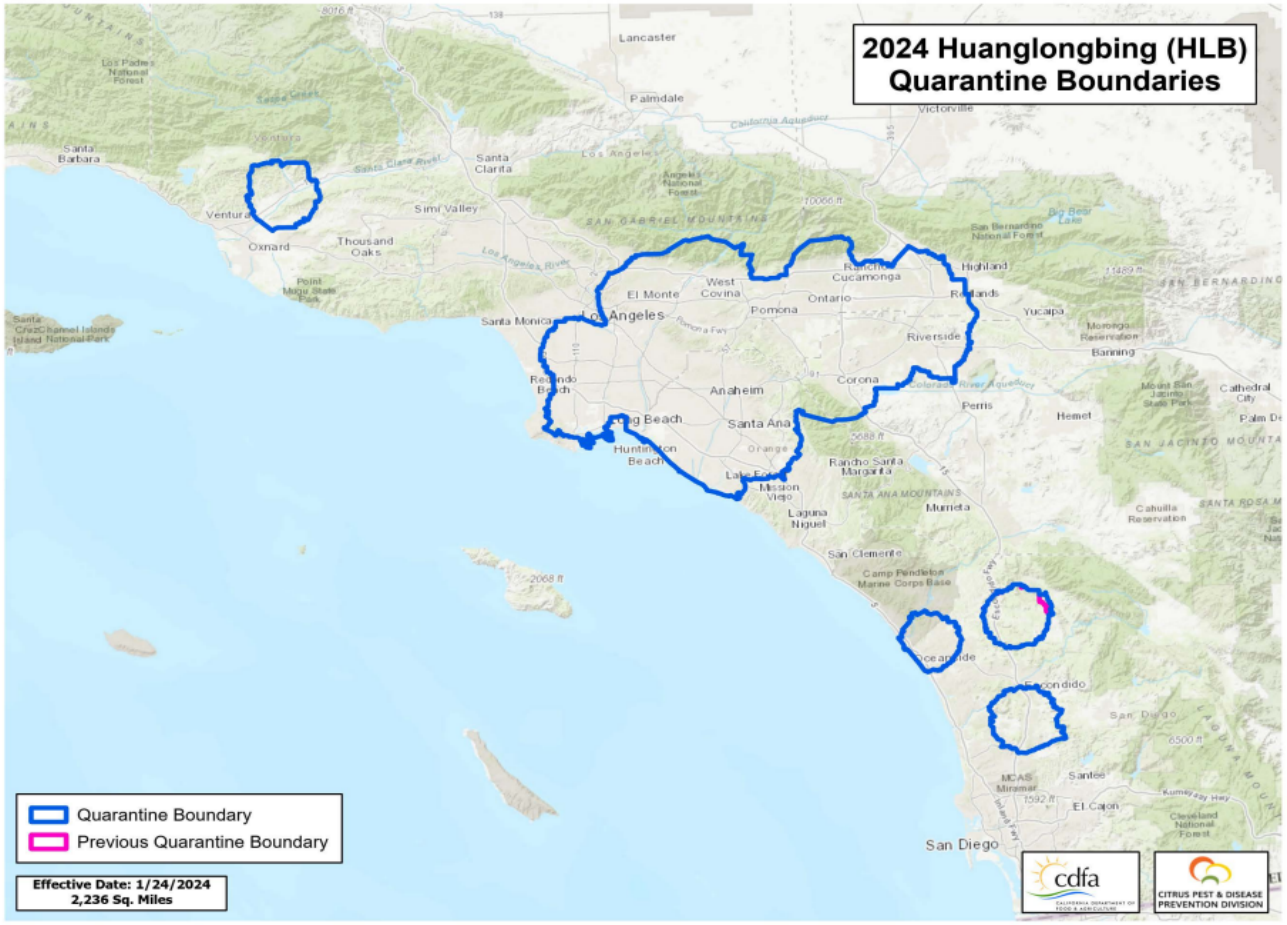
- Si se confirma que un árbol es positivo al HLB, se eliminará el árbol para evitar la propagación de la enfermedad del HLB a otros cítricos.





Cuarentena

- Las cuarentenas de ACP y HLB ayudan a prevenir la propagación de las plagas de los cítricos.
- Evite compartir la fruta, si es posible.
  - La fruta cultivada en casa, sin tallos ni hojas, puede moverse dentro de la cuarentena (25 libras o menos).
- No traslade las plantas de cítricos en maceta, los brotes, los esquejes y otras plantas huésped de su propiedad.
- Sólo se puede injertar utilizando partes de plantas recibidas de una fuente autorizada.
- Sólo los viveros con una estructura aprobada por el CDFA pueden vender plantas de cítricos con una etiqueta de cuarentena **roja** de HLB.
- Póngase en contacto con el CDFA si tiene preguntas sobre el traslado de plantas o frutas de cítricos.





Para más información sobre la cuarentena:
www.cdfa.ca.gov/citrus/pests_diseases/hlb/regulation

Pest Hotline:
1.800.491.1899

CITRUS PEST & DISEASE PREVENTION DIVISION
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Control biológico

- *Tamarixia radiata* es un eficaz agente de biocontrol y un enemigo natural del ACP.
- Este método por sí solo no es suficiente para detener la propagación del ACP.
- Las liberaciones estratégicas, junto con las aplicaciones de tratamiento, ayudan a suprimir el ACP.
- *Tamarixia* no son una amenaza para los humanos o las mascotas.



Momia de ACP



Tamarixia radiata



Tamarixia y ACP



Tamarixia poniendo huevos en una ninfa de ACP

Pest Hotline:
1.800.491.1899

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

Protegiendo a los polinizadores

- La protección de las abejas autóctonas y de las colmenas gestionadas es esencial para mantener nuestro suministro de alimentos y el medio ambiente.
- El personal del CDFA busca activamente a las abejas en busca de alimento y toma precauciones para evitar la deriva de los pesticidas.
- El programa sigue todas las etiquetas de los pesticidas y las instrucciones para la seguridad de las abejas.
- **El CDFA no tratará si hay abejas.**







Más información en línea en www.cdfa.ca.gov/plant/pollinators

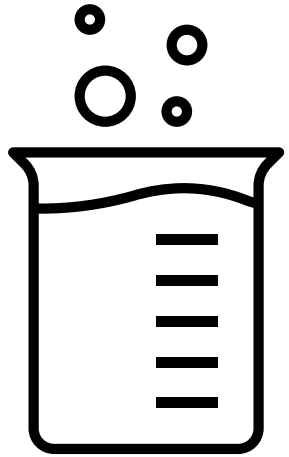
Pest Hotline:
1.800.491.1899

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

Consulta y seguimiento medioambiental

- Se realizan consultas con otras agencias estatales antes de iniciar cualquier actividad.

- El seguimiento se realiza cuando las actividades se trasladan a nuevos condados.
    - Se recogen muestras de aire, suelo, hojas y frutos y se analizan los niveles de plaguicidas antes y después de las aplicaciones.





https://californiacitrusthreat.org

Citrus Pest & Disease Prevention Program

SEASE PROTECT YOUR CITRUS CALIFORNIA CITRUS NEWS RESOURCES CONTACT



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

Citrus Pest & Disease Prevention Program

PEST & DISEASE PROTECT YOUR CITRUS CALIFORNIA CITRUS NEWS RESOURCES

Public Meetings

In addition to being available on CDFA's website, 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

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1.800.491.1899

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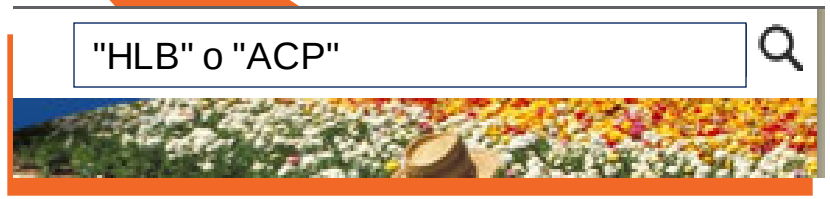
CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

http://ipm.ucanr.edu/





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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



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CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

¡Gracias por asistir!

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