



CALIFORNIA DEPARTMENT OF  
FOOD & AGRICULTURE

Karen Ross, Secretary

DATE: March 16, 2018

TO: All County Agricultural Commissioners

FROM: Plant Health and Pest Prevention Services

SUBJECT: **PEST EXCLUSION ADVISORY NO. 10-2018**  
Citrus Grove Pre-Harvest Treatment Products

The CDFA Asian citrus psyllid (ACP) program allows bulk citrus fruit to move from one bulk citrus regional quarantine zone to another for final packing if field cleaned or treated with a pre-harvest product to achieve the ACP-free performance standard. The list of eligible pre-harvest treatment products is recommended by the University of California, Integrated Pest Management Program (UC IPM) and their effectiveness and use is agreed upon by the Department. The list, along with other information for growers and grove managers, is attached to this advisory and can be found online at <http://phpps.cdfa.ca.gov/PE/InteriorExclusion/pdf/acpgrowerinformation.pdf>.

The UC IPM has recommended that the product Delegate WG (EPA Reg. 62719-541) be removed from the list of products. Field studies have shown this product to be less effective than the other eligible products at achieving the ACP-free performance standard when moving citrus fruit. The CDFA agrees with the recommendation and will be removing Delegate WG from the list of eligible products. Growers or grove managers currently using Delegate WG will be allowed to continue use of this product through April 20, 2018 while it is phased out of the program.

For questions regarding this advisory, please contact Keith Okasaki at [keith.okasaki@cdfa.ca.gov](mailto:keith.okasaki@cdfa.ca.gov) or at 916-654-0312.



**Information for Citrus Growers/Grove Managers  
in an Asian Citrus Psyllid (ACP) Bulk Citrus Regional Quarantine Zone  
or Huanglongbing (HLB) Quarantine Area**

March 16, 2018

**ACP-Free and HLB-Pest Risk Mitigated Bulk Citrus Movement from an ACP Bulk Citrus Regional Quarantine Zone ([map](#))  
or an HLB Quarantine Area ([map](#))**

The California Department of Food and Agriculture (CDFA) has implemented a State Interior Quarantine for [Asian citrus psyllid \(ACP\)](#) and [Huanglongbing Disease \(HLB\)](#). CDFA has issued Special Permits (auth. CCR 3150) to allow the movement of bulk citrus fruit from an ACP Bulk Citrus Regional Quarantine Zone or from an HLB quarantine area if meeting an ACP-free performance standard.

In order to move bulk citrus from an ACP regional quarantine zone or an HLB quarantine area under the terms of the permit(s), growers, grove managers, haulers, and harvesters must do the following:

1. Sign a compliance agreement and exhibit provided by the ACP or HLB Program;
2. Complete the applicable [ACP-Free Declaration form](#) or [HLB Pest Risk Mitigation form](#) and include an original form with each shipment;
3. Deliver bulk citrus fruit only to a Program approved packing house or processor. Please contact the local County Agricultural Commissioner for a list of approved receivers.
4. Provide the ACP-Free Declaration form or HLB Pest Risk Mitigation form to the receiving packing house or processor upon delivery; and
5. Ensure pallets or field bins are completely tarped or moved in a conveyance with solid walls.
6. The ACP-Free Declaration form or HLB Pest Risk Mitigation form must be submitted to your local County Agricultural Commissioner's office at least 72 hours in advance of harvest to ensure the shipment is free of ACP and mitigated for HLB. Please note, the acceptance of new methods may take substantially more time to review.

Shipping From	Shipping to a Packer/Processor	
	Within the Same ACP Bulk Citrus Regional Quarantine Zone or into Regional Quarantine Zone 6	In a Different ACP Bulk Citrus Regional Quarantine Zone (Not Zone 6)
ACP Regional Quarantine Zone 2, 3, 4, 5, 6, or 7	Transport Completely Tarped or in a Fully Enclosed Vehicle	Field Clean <b>OR</b> Treatment Option <b>AND</b> Transport Completely Tarped or in a Fully Enclosed Vehicle <b>AND</b> Complete ACP-Free Declaration Form

Shipping From	Shipping to a Packer/Processor	
	Within the Same Contiguous HLB Quarantine Area	Outside of HLB Quarantine Area OR Different HLB Quarantine Area
HLB Quarantine Area	Field Clean <b>OR</b> Spray & Harvest <b>AND</b> Transport Completely Tarpred or in a Fully Enclosed Vehicle <b>AND</b> Complete HLB Pest Risk Mitigation Form	Wet Wash <b>OR</b> Field Clean and Spray & Harvest <b>AND</b> Transport Completely Tarpred or in a Fully Enclosed Vehicle <b>AND</b> Complete HLB Pest Risk Mitigation Form

The following are methods that CDFA agrees would ensure the pest risk has been mitigated in bulk citrus shipments from an ACP Bulk Citrus Regional Quarantine Zone or an HLB quarantine area:

1. **Cleaned free of all stems and leaves.**
2. **All fruit must be transported to the packer/processor in a fully enclosed vehicle or completely covered by a solid or mesh tarp and in accordance with the terms listed in Compliance Agreement Exhibit "ACP Citrus-T" to prevent exposure to ACP or the loss of any fruit or plant material.**
3. **Other methods used to declare ACP-freedom or HLB mitigation in bulk citrus shipments may also be agreed upon by CDFA.** To propose additional methods, please do the following:
  - a. Complete the ACP-Free Declaration or HLB Pest Risk Mitigation form, including a description of the proposed method to declare ACP-freedom or HLB mitigation for the bulk citrus shipments. Include additional pages if necessary.
  - b. Send the complete form to your local County Agricultural Commissioner or ACP Program office prior to harvest for approval.

**Cooperative ACP / HLB Program Offices**

<u>Visalia Office</u> 724 N Ben Maddox Way, Suite D Visalia, CA 93292 Phone: 559-625-1040 Fax: 559-625-1050	<u>Palm Desert Office</u> 73-710- Fred Waring Dr. Suite 211 Palm Desert, CA 92260 Phone: 760-773-0941 Fax: 760-836-0140	<u>Upland Office</u> 1111 East Eighth St. Upland, CA 91786 Phone: 909-367-7981 Fax: 909-949-7378
<u>Camarillo Office</u> 745 W. Ventura Blvd. Suite A Camarillo, CA 93010 Phone: 805-445-1382 Fax: 805-482-2901	<u>San Diego Office</u> 123 Camino de la Reina, Suite 201 East San Diego, CA 92108 Phone: 619-295-2913 Fax: 619-295-2918	<u>Sacramento Office</u> 1220 N Street, Suite 325 Sacramento, CA 95814 Phone: 916-654-0312 Fax: 916-654-0986

**4. Pre-harvest application of a product applied within 14 days prior to harvest.** A list of products and use rates recommended by University of California, Integrated Pest Management Program (UC IPM), and agreed upon by CDFA, are provided below.

It is incumbent upon the user to follow all label directions when using any of the products listed below. Reference the California Department of Pesticide Regulation to obtain product and label information: [www.cdpr.ca.gov](http://www.cdpr.ca.gov)

When applying by ground use 100-200 gallons per acre (gpa) water volume for mature trees. Adjust water volume for young trees as necessary. When applying by air use 5-25 gpa water volume depending upon pesticide used.

Products listed below are subject to change.

Product	EPA No.	Active ingredient	Treatment Method	Rate per acre	Rate of Active ingredient	PHI	REI	Maximum amount per crop season	Minimum application volume by air
<b>Leverage 360</b>	264-1104	1 lb ai/gal beta-cyfluthrin + 2 lb ai/gal imidacloprid	foliar	3.2 - 6.4 fl oz	0.025-0.50 lb ai beta-cyfluthrin + 0.05 – 0.1 lb ai imidacloprid	0 day	12 h	6.4 fl.oz of cyfluthrin or beta-cyfluthrin	25 gpa
<b>Baythroid XL</b>	264-840	1 lb ai/gal beta-cyfluthrin	foliar	3.2 - 6.4 fl.oz.	0.025 – 0.050 lb ai beta cyfluthrin	0 day	12 h	6.4 fl.oz of cyfluthrin or beta cyfluthrin	25 gpa
<b>Tombstone</b>	34704-912	2 lb ai/gal cyfluthrin	foliar	3.2 - 6.4 fl oz	0.10 lb ai cyfluthrin	0 day	12 h	6.4 fl oz of cyfluthrin or beta-cyfluthrin	25 gpa
<b>Tombstone Helios</b>	34704-978	2 lb ai/gal cyfluthrin	foliar	3.2 - 6.4 fl oz	0.10 lb ai cyfluthrin	0 day	12 h	6.4 fl oz of cyfluthrin or beta-cyfluthrin	25 gpa
<b>Danitol 2.4 EC Spray</b>	59639-35	2.4 lb ai/gal fenpropathrin	foliar	16 - 21.3 fl oz	0.3-0.4 lb ai fenpropathrin	1 day	24 h	21.3 oz	5 gpa
<b>Mustang</b>	279-3126	17.1% by weight zeta cypermethrin	foliar	4.3 oz	0.05 lb ai zeta cypermethrin	1 day	12 h	17.2 fl oz appl. 14 days apart	10 gpa
<b>Actara</b>	100-938	25% thiamethoxam	foliar	4.0 – 5.5 fl oz	0.063 – 0.086 lb ai thiamethoxam	0 day	12 h	11 oz maximum/season	5 gpa
<b>Lannate LV*</b>	352-284	methomyl	foliar	1.5 – 3 pints	0.45-0.9 lbs ai methomyl	1 day	72 h	9 pints, 4 applications/season	15 gpa
<b>Lannate SP*</b>	352-342	methomyl	foliar	0.5 – 1.0 lb	0.45-0.9 lbs ai methomyl	1 day	72 h	3 pints, 4 applications/season	15 gpa

\*Product to be used during citrus bloom.

DISCLAIMER – The 14-day treatment interval and all pesticides listed in the above table are solely the recommendations of the University of California. The California Department of Food and Agriculture bears no responsibility for the efficacy of these recommendations.

If you have any questions, please contact Victoria Hornbaker at [Victoria.Hornbaker@cdfa.ca.gov](mailto:Victoria.Hornbaker@cdfa.ca.gov).