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

ACP Bulk Citrus Regional Quarantine Zones (map)
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. Title 3, Section 3154 of the California Code of Regulations) 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, if required (see table below);
3. 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 and to the destination county agricultural commissioner's office at least 24 hours in advance of shipment to ensure the shipment is free of ACP and mitigated for HLB;
4. Ensure pallets or field bins are completely tarped or moved in a fully enclosed vehicle;
5. 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;
6. Provide the ACP-Free Declaration form or HLB Pest Risk Mitigation form to the receiving packing house or processor upon delivery.

Table 1: Movement of Citrus (ACP Regional Quarantine Only)

Shipping From	Shipping to a Packer/Processor	
	Within the Same ACP Bulk Citrus Regional Quarantine Zone	**In a Different ACP Bulk Citrus Regional Quarantine Zone or Within the HLB Quarantine Area**
Any ACP Regional Quarantine Zone and Outside of the HLB Quarantine	Transport Completely Tarped or in a Fully Enclosed Vehicle	Field Cleaned by Machine **OR** Treatment Option **AND** Transport Completely Tarped or in a Fully Enclosed Vehicle **AND** Complete ACP-Free Declaration Form

Table 2: Movement of Citrus Grown in an HLB Quarantine Area

Shipping Fruit Grown In	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 Cleaned by Machine **OR** Spray & Harvest **AND** Transport Completely Tarped or in a Fully Enclosed Vehicle **AND** Complete HLB Pest Risk Mitigation Form	Wet Wash **OR** Field Cleaned by Machine and Spray & Harvest **AND** Transport Completely Tarped or in a Fully Enclosed Vehicle **AND** Complete HLB Pest Risk Mitigation Form

Note: All fruit moved outside the HLB quarantine area may only move to a packinghouse or processor under compliance to receive HLB quarantine area fruit.

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. Additionally, 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. Mechanically cleaned to be practically free from stems and leaves.

2. Grate cleaned citrus. Any grower or packinghouse interested in using a grate cleaning method to meet the ACP-free performance standard must follow the steps listed in the Grate Cleaning Protocol which can be found at http://phpps.cdfa.ca.gov/PE/InteriorExclusion/pdf/gratecleaningprotocol.pdf

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 completed form to your local county agricultural commissioner or ACP Program office prior to harvest for approval. Please note, the acceptance of new methods may take substantially more time to review.

Cooperative ACP/HLB Program Offices

Sacramento 2800 Gateway Oaks Drive Sacramento, CA 95833 Phone: 916-654-0317 Fax: 916-654-0986	**Visalia** 724 N Ben Maddox Way, Suite D Visalia, CA 93292 Phone: 559-625-1040 Fax: 559-625-1050	**Camarillo** 555 Airport Way Camarillo, CA 93010 Phone: 916-654-0317 Fax: 916-654-0986
Cerritos 16308 Arthur Street Cerritos, CA 90703 Phone: 562-926-3628	**Palm Desert** 73-710 Fred Warring Drive, Suite 211 Palm Desert, CA 92260 Phone: 760-773-0941 Fax: 760-836-0140	**San Diego** 1425 Presioca Street Spring Valley, CA 91977 Phone: 916-654-0317 Fax: 916-654-0986

4. Foliar preharvest application of a product applied within 14 days prior to harvest**.** A list of foliar products and use rates recommended by the 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 as a foliar application. Reference the California Department of Pesticide Regulation to obtain product and label information: 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	Rate per Acre	Rate of Active Ingredient	PHI	REI	Maximum Amount per Crop Season	Minimum Application Volume by Air
Actara	100-938	25% thiamethoxam	4.0 - 5.5 fl oz	0.063 - 0.086 lb ai thiamethoxam	0d	12h	11 oz maximum per season	5 pga
Admire Pro[1 2 3]	264-827	4.6 lb ai/gal imidacloprid	7 fl oz	0.25 lb ai per acre	0d	12h	14 oz	25 gpa
Baythroid XL	264-840	1 lb ai/gal beta-cyfluthrin	3.2 - 6.4 fl oz	0.025 - 0.050 lb ai beta cyfluthrin	0d	12h	6.4 fl oz of cyfluthrin or beta-cyfluthrin	25 gpa
Danitol 2.4 EC Spray	59639-35	2.4 lb ai/gal fenpropathrin	16 - 21.3 fl oz	0.3 - 0.4 lb ai fenpropathrin	1d	24h	21.3 oz	5 gpa
Fujimite SC	71711-4	Fenpyroximate	2-4 pt	.11-.21 lb aI/acre	3d	12h	8 pints	Not allowed
Fujimite XLO	71711-40	Fenpyroximate	2-4 pt	.11-.21 lb aI/acre	3d	12h	8 pints	Not allowed

Leverage 360	264-1104	1 lb ai/gal beta-cyfluthrin + 2 lb ai/gal imidacloprid	3.2 - 6.4 fl oz	0.025 - 0.50 lb ai beta-cyfluthrin + 0.05 - 0.1 lb ai imidacloprid	0d	12h	6.4 fl oz of cyfluthrin or beta-cyfluthrin	25 gpa
Mustang	279-3126	17.1% by weight zeta cypermethrin	4.3 oz	0.05 lb ai zeta cypermethrin	1d	12h	17.2 fl oz appl. 14 days apart	10 gpa
Sivanto 200 SL	264-1141	Flupyradifurone	10.5-14 fl oz	.144-.183 lbs AI /acre	1d	12h	28 fl oz	10 gpa
Sivanto HL	264-1198	Flupyradifurone	5.5-7 fl oz	.144-.183 lbs AI /acre	1d	12h	14 fl oz	10 gpa
Sivanto Prime	264-1141	Flupyradifurone	10.5-14 fl oz	.144-.183 lbs AI /acre	1d	12h	28 fl oz	10 gpa
Tombstone	34704-912	2 lb ai/gal cyfluthrin	3.2 - 6.4 fl oz	0.10 lb ai cyfluthrin	0d	12h	6.4 fl oz of cyfluthrin or beta-cyfluthrin	25 gpa
Tombstone Helios	34704-978	2 lb ai/gal cyfluthrin	3.2 - 6.4 fl oz	0.10 lb ai cyfluthrin	0d	12h	6.4 fl oz of cyfluthrin or beta-cyfluthrin	25 gpa

[1]Do not use if a soil imidacloprid treatment has been applied to the orchard in the same season.
[2]Any 4F formulation of imidacloprid may be used at a rate of 8 oz.
[3]Any 4.6F formulation of imidacloprid may be used at a rate of 7 oz.

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 Keith Okasaki at Keith.Okasaki@cdfa.ca.gov.