

Asian Citrus Psyllid (ACP) Collection Instructions for Growers Submitting for HLB Testing

The purpose of ACP collections is to conduct screening for the presence of HLB-infected ACP (so-called “hot psyllids”) in citrus groves. The presence of an HLB-infected psyllid would lead to further survey and testing to find the infected ‘source’ tree in and/or around the find site. The following instructions are provided to ensure that growers requesting psyllid testing follow the California Department of Food and Agriculture (CDFA) required ACP collection and handling protocols. Separate instructions are available if there is a need to collect and test citrus plant samples.

Note: All the samples submitted to the laboratory **must be** accompanied by the pertinent collection information. The laboratory is not authorized to test samples without the required collection information. Pursuant to CDFA Permit requirements, any HLB positive or “inconclusive” results will be reported directly to CDFA by the Alliance of Pest Control Districts laboratory.

ACP Sample Collection, Handling, and Shipping

1. Visually/closely inspect new/young leaf flush for the presence of ACP eggs, nymphs, and adults. Also, look for any notched leaves and waxy tubules of ACP nymphs on new flushes, as pictured below.



Adult ACP are small brown insects of no more than 1/8th of an inch, feed on citrus leaves with their body at a 45-degree angle



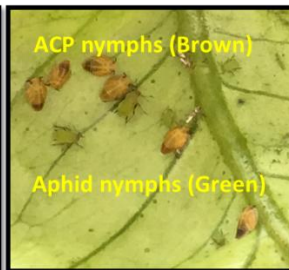
Notched leaves can be a sign that the psyllid has been there feeding young flush



Golden orange colored eggs of ACP on feather flush



Nymphs produce white waxy tubules and ants protect the nymphs



ACP nymphs (Brown)

Aphid nymphs (Green)



Aspirator for collection of adult ACP

2. Collect the adult ACP with an aspirator, as shown above. After about 25 adult psyllids have been collected, pour 95% non-denatured ethanol into the aspirator container and cap it.

Note: Adult ACPs from different trees in the same grove/block may be pooled into one vial.

3. Inspect new growth for nymphs. Nymphs should be collected using a small paintbrush and placed in a vial with 95% non-denatured ethanol.

Note: Do NOT mix nymphs from different trees in the same vial.

Note: Always place the adult psyllids and the nymphs in separate vials.

4. Using permanent ink, label vials with the date collected, location address, city, cross street, county, the exact location of tree(s) (essential only for the nymphs), and unique sample identifier number.
6. Complete the "Sample collection and submission form" with these instructions and include the sample identification information. Place vials inside zip-loc bag with form into a shipping box, then ship to receiving lab as below.

Ship to: **Alliance of Pest Control Districts**
Attn: PCR Laboratory
22847 Road 140
Tulare, CA 93274-9367
Phone: (559)686-4973

Reminder: Pursuant to CDFA Permit requirements, any HLB positive or "inconclusive" results will be reported directly to CDFA by the Alliance of Pest Control Districts laboratory.

SAMPLE COLLECTION and SUBMISSION FORM

Please complete items 1 – 6(a-f); add comments if necessary.

1. Name of Company/Grower:		2. Contact Person:	
3. Address:			
4. Phone Number:		5. E-mail Address:	
Sample Information (use additional sheet(s) if necessary):			
6a. Grove Location (where ACP samples were collected):			
6b. Date Collected		6c. Host Cultivar	6d. Grove Age
6e. Unique Sample ID #	6f. Tree location (i.e., Block/Row/Tree#, GPS points); must be sufficient to relocate the specific tree sampled for ACP collection	6e. Unique Sample ID #	6f. Tree location (i.e., Block/Row/Tree#, GPS points); must be sufficient to relocate the specific tree sampled for ACP collection
6. Any additional comments:			
APCD Laboratory Use Only			
Received by:		Date Received:	
Laboratory Notes / Comments:			