

**AT A GLANCE:**  
**VOLUNTARY GROWER RESPONSE PLAN FOR HUANGLONGBING**  
 UPDATED JUNE 10, 2019



	<b>SCENARIO 1</b> Orchards outside a 5-mile HLB quarantine	<b>SCENARIO 2</b> Orchards between 1 and 5 miles from HLB detection	<b>SCENARIO 3</b> Orchards within 1 mile of HLB, but not known to be infected	<b>SCENARIO 4</b> Orchards with HLB
<b>AWARENESS</b>	<ul style="list-style-type: none"> <li>Stay informed: communicate with others, such as Grower Liaisons, Cooperative Extension, or Pest Control Advisors, and attend meetings.</li> <li>Get to know your neighbors.</li> <li>Sign up for alerts on CitrusInsider.org.</li> </ul>	All actions from Scenario 1, plus: <ul style="list-style-type: none"> <li>Help educate your neighbors about the seriousness of HLB.</li> <li>Be prepared to help with communications and spray applications.</li> </ul>	All actions from Scenario 2, plus: <ul style="list-style-type: none"> <li>Offer to lead your psyllid management area's communication network.</li> </ul>	All actions from Scenario 3, plus: <ul style="list-style-type: none"> <li>Help connect your neighbors to organizations that assist homeowners with citrus tree removal.</li> </ul>
<b>SCOUT FOR ACP</b>	<ul style="list-style-type: none"> <li>Deploy trained scouts every 2 weeks.</li> <li>If ACP are found, treat before they reach 0.5 nymphs/flush.</li> </ul>	All actions from Scenario 1.	All actions from Scenario 1, plus: <ul style="list-style-type: none"> <li>Pay special attention to vigorously flushing trees or areas under high ACP pressure, such as edges that border residences, or where ACP have previously been found.</li> </ul>	All actions from Scenario 3.
<b>CONTROL ACP WITH INSECTICIDES</b>	<ul style="list-style-type: none"> <li>Try to eliminate psyllids.</li> <li>Apply extra treatments within label limits if ACP populations start to increase before a scheduled areawide treatment.</li> <li>In mature orchards, a perimeter-only treatment can be applied if the center is free of psyllids.</li> <li>Treat the orchard border before the center.</li> <li>Make applications at night when psyllids are inactive.</li> <li>When treating for other pests, utilize insecticides known to have efficacy against ACP.</li> </ul>	All actions from Scenario 1, plus: <ul style="list-style-type: none"> <li>Treat the entire orchard at least 3 times per year with an ACP-effective, long-residual insecticide. Coordinate with your liaison, PCD, and/or local task force for timing. If psyllids exceed 0.5 nymphs/flush between the 3 applications, treat again, if an additional treatment is within label limits.</li> </ul>	<ul style="list-style-type: none"> <li>Treat the entire orchard at least 3 times per year with an ACP-effective, long-residual insecticide. Coordinate with your liaison, PCD, and/or local task force for timing.</li> <li>Treat the orchard border before the center.</li> <li>If psyllids exceed 0.5 nymphs/flush between the 3 applications, treat the entire orchard again if an additional treatment is within label limits.</li> <li>Make applications at night.</li> <li>Use ACP-effective insecticides when treating for other pests.</li> </ul>	All actions from Scenario 3.
<b>YOUNG TREES / REPLANT PROTECTION</b>	<ul style="list-style-type: none"> <li>Consider additional protectants for young trees and replants, such as psyllid-proof mesh covers, kaolin, or insecticides.</li> </ul>	All actions from Scenario 1, plus: <ul style="list-style-type: none"> <li>Treat orchards in their entirety (do not use border treatments).</li> </ul>	All actions from Scenario 2, plus: <ul style="list-style-type: none"> <li>Replant with tolerant/resistant trees as they become available.</li> </ul>	All actions from Scenario 3. <ul style="list-style-type: none"> <li>Infection of unprotected replants is highly likely if ACP are present.</li> </ul>
<b>BARRIERS/ REPELLENTS</b>	<ul style="list-style-type: none"> <li>Create barriers and/or apply repellents to limit ACP establishing on the perimeter of the orchard.</li> </ul>	All actions from Scenario 1.	All actions from Scenario 1.	All actions from Scenario 1.
<b>VISUAL SURVEY FOR HLB</b>	<ul style="list-style-type: none"> <li>Conduct a survey for HLB symptoms in the orchard perimeter and the uppermost part of the canopy once a year.</li> </ul>	<ul style="list-style-type: none"> <li>Conduct a survey for HLB symptoms in the border rows/trees and in the uppermost part of the canopy <b>twice a year</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Conduct a survey for HLB symptoms in the <b>entire</b> orchard, including the uppermost part of the canopy <b>twice a year</b>.</li> </ul>	All actions from Scenario 3.
<b>DIRECT CLAS DETECTION PROTOCOL</b>	N/A	<ul style="list-style-type: none"> <li>Test foliage and psyllids from 10 trees in each corner of the block (40 trees total) using direct methods of bacterium detection (such as PCR).</li> </ul>	<ul style="list-style-type: none"> <li>Test foliage and psyllids from all perimeter trees using a direct method of bacterium detection (such as PCR).</li> <li>Test additional trees through a laboratory or commercial kit.</li> </ul>	All actions from Scenario 3.
<b>TREE HEALTH</b>	<ul style="list-style-type: none"> <li>Ensure appropriate nutrient and water applications to tend to your grove's root health.</li> </ul>	All actions from Scenario 1.	All actions from Scenario 1.	All actions from Scenario 1.