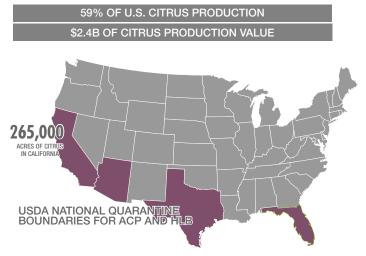
HOLD THE LINE AGAINST HUANGLONGBING.

THE TIME HAS COME TO MEET ACP HEAD ON.

The Asian citrus psyllid (ACP) feeds on new leaf growth and is a vector of the bacterium that causes Huanglongbing (HLB). Once a citrus tree is infected, the disease is fatal. At this time there is no known cure for the disease.

WHAT'S AT STAKE IN CALIFORNIA?¹



HLB CAN BE DEVASTATING

HLB is the most devastating citrus disease worldwide and threatens all commercial citrus production.

IMPACT OF ACP AND HLB¹



HOW ACP WORKS IN CITRUS PLANTS²



The psyllid damages citrus directly by feeding on new leaf growth (flush).

More importantly, the psyllid is a vector of the bacterium, *Candidatus* Liberibacter asiaticus (CLa), that causes HLB and transmits the bacteria into the phloem when it feeds on flush. HLB disease spreads from tree to tree when a bacteria-carrying psyllid flies to a healthy plant and transmits the bacteria as it feeds on the leaves and stems.

The bacteria multiply in the tree's phloem tissue, blocking the flow of nutrients through the plant. If not well managed, trees will eventually die within three to five years.



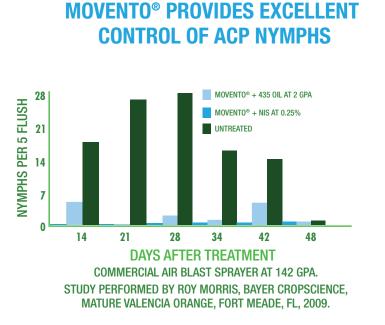
Effective control of Asian citrus psyllid reduces the chance that a citrus tree will become infected by the bacteria and helps ensure a healthy, productive tree.

(3)

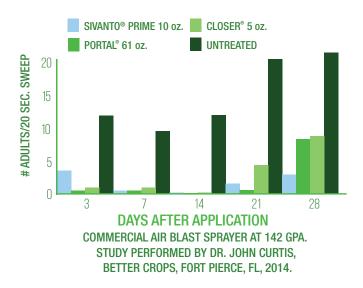


ACP AND INSECT MANAGEMENT FROM BAYER

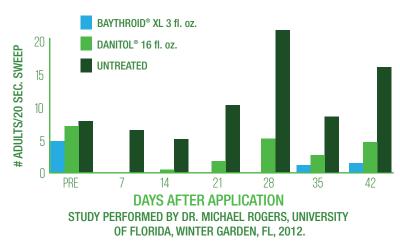
The Bayer portfolio of insecticides that control other citrus pests in CA also provides the foundation of season-long Asian citrus psyllid (ACP) control with multiple modes of action, application times and methods to ensure crop quality and help growers stay ahead of Huanglongbing (HLB).



SIVANTO[®] PRIME CONTROLS ACP



BAYTHROID® XL PROVIDES EXCELLENT KNOCKDOWN AND CONTROL OF ACP



ADMIRE® PRO & SIVANTO® PRIME CAUSE A FEEDING CESSATION IN ADULT ACP



UNTREATED ADMIRE® PRO SIVANTO® PRIME

*Admire Pro and Sivanto Prime cause a feeding cessation in adult Asian citrus psyllid that reduces and prevents, respectively, xylem and phloem feeding and HLB bacterium transmission. STUDY PERFORMED BY DR. MICHAEL ROGERS, UNIVERSITY OF FLORIDA, WINTER GARDEN, FL, 2012.

PROVEN SEASON-LONG PROTECTION APPLICATION TIMELINE

PEST	PRE- BLOOM JAN-FEB	FULL BLOOM MAR-APR	POST- BLOOM MAY-JUN	FRUIT GROWTH JUL-AUG	HARVEST SEP-DEC
ASIAN Citrus Psyllids		\checkmark			
CITRUS Thrips		*			*
RED SCALE					
KATYDIDS					
CITRICOLA Scale					
IRAC Groups**	GROUP 23 Spirotetramat	GROUP 4 (D) Flupyradifurone	GROUP 4 (A) Imidacloprid	GROUP 23 Spirotetramat	GROUP 3 B-Cyfluthrin

*Suppression only. **Insecticide Resistance Action Committee's mode of action groups.



PROTECTING THE CALIFORNIA CITRUS INDUSTRY

Bayer has partnered with the California Citrus Mutual (CCM) to help prevent the spread of Huanglongbing and preserve the California citrus industry through the Abandoned Citrus Tree (ACT) Removal Program. Without monitoring, trees that neighbor a commercial grove could easily become a host and bring pests and Huanglongbing into an otherwise healthy area. The ACT Removal Program allows growers to identify and request removal of abandoned trees that pose a threat to their groves.

Visit www.CropScience.Bayer.us for more information. To stay informed on the latest Bayer products and solutions, visit www.CropScience.Bayer.us/email-alerts-and-updates.

MOVENTO SIVANTO



BAYTHROID[®] XL

Sources:

¹USDA's National Agricultural Statistics Service Florida Citrus Statistics (2005–2006, 2015–2016 and 2017–2018 reports). ²University of California Integrated Pest Management Program, *How to Manage Pests: Asian Citrus Psyllids and Huanglongbing Disease.*

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