Citrus Pest and Disease Prevention Committee (CPDPC)
Science and Technology Subcommittee Meeting

Meeting Minutes
February 8, 2022

There was a quorum of the Science Subcommittee and the following were in attendance:

Science Subcommittee Members Present:

Aaron Dillon	Dr. Melinda Klein	Ram Uckoo
Dr. Subhas Hajeri	Dr. Etienne Rabe	Jack Williams

CDFA Staff:

Karina Chu	Victoria Hornbaker	Briana Russell
Kiana Dao	Anmol Joshi	Jennifer Willems
David Gutierrez	Keith Okasaki	

Other Attendees:

Price Adams	Dr. Weiqi Luo	Judy Zaninovich
Teri Blaser	Dr. Neil McRoberts	Sandra Zwaal
Rick Dunn	Dr. Sandra Olkowski	
Dr. Jonathan Kaplan	Dr. Drew Posny	

All attendees participated via webinar.

Opening Comments
Dr. Etienne Rabe called the meeting to order at 1:05 p.m. The Citrus Pest and Disease Prevention Program (CPDPP) review slide deck will be discussed at the next Science Subcommittee meeting before presentation to the scientific review panel.

Ethyl Formate Registration
No update.

Preharvest Treatment Insecticides
Keith Okasaki reported that Dr. Frank Byrne evaluated the list of foliar products recommended by the University of California (UC) and agreed upon by the California Department of Food and Agriculture (CDFA) for preharvest management of Asian citrus psyllid (ACP). Dr. Byrne concluded that most of the products on the list provide good efficacy against ACP. He noted that resistance management is recommended using imidacloprid and beta-cyfluthrin independently, as both are alone highly effective, rather than with Leverage 360, a product containing both active ingredients.

Dr. Byrne additionally reviewed two organic insecticides not on the list of preharvest insecticides, Entrust and PyGanic. His review underscored previous assessments by Dr. Beth Grafton-Cardwell and Dr. Monique Rivera, namely that these insecticides are

toxic to ACP adults if the insecticides directly contact ACP during application and the residual life of these products is extremely short due to ultraviolet breakdown. Additionally, Entrust is slow acting and can take several days for the full toxic effect to occur. Dr. Byrne advised that growers should only use these insecticides with a minimal preharvest interval.

Dr. Byrne is an independent research contractor not associated with the UC. He advised the California Department of Food and Agriculture (CDFA) to wait for an official UC recommendation from Dr. Monique Rivera's replacement. Dr. Neil McRoberts will contact UC Agriculture and Natural Resources regarding an emeritus professor's ability to make recommendations on behalf of the UC.

Sweet Orange Scab (SOS) Regulation Update
Per Mr. Okasaki, the rulemaking documents are prepared for further review, including CDFA's Legal Office and the Office of Administrative Law. CDFA will first meet with the United States Department of Agriculture (USDA) and California Citrus Quality Council to discuss harmonizing California's intentions with the federal order for or moving a regulated articles from a SOS quarantine area.

Scientific Review of the Citrus Pest and Disease Prevention Program
This topic will be discussed further at the next Science Subcommittee meeting.

Rate of Huanglongbing (HLB)-Positive Tree Detection Discussion
Jim Gorden observed the rate of HLB-positive tree detections increased as the delimitation area around positive trees was reduced from 800- to 250-meters. The reduced delimitation area focuses survey and sampling around positive trees, limiting the reservoir of healthy trees to sample and therefore increasing the positivity rate. The reduced delimitation area saves time and resources but potentially allows for a small percentage of undetected positive trees beyond the 250-meter area. Dr. McRoberts reported that Dr. Weiqi Luo and Dr. Drew Posny of USDA are reviewing new methods for estimating the HLB positivity rate in residential trees, which will be presented at the next Science Subcommittee meeting.

Anmol Joshi stated the number of HLB-positive tree detections may have increased due root sampling, whereas previous only leaves were collected. Root samples collected in delimitation areas have produced positive results when leaf samples from the same tree were negative. Due to COVID-19, staff conducting risk-based survey activities only survey host trees in front yards. In delimitation areas, staff leave notices on the doors, schedule surveys, and sample all host trees. The additional sampling in delimitation areas likely contributed to more detections than in areas where only risk-based survey is conducted. Dr. McRoberts will review the change in the HLB positivity rate and provide a report at the next Science Subcommittee meeting.

Other Items and Adjournment
At the next Science Subcommittee meeting, Drs. Luo and Posny will present their evaluation of the HLB risk-based survey, the Data Analysis and Tactical Operations

Center will report on the rate of HLB-positive trees, and the group will review the CPDPP review slide deck. Dr. Rabe adjourned the meeting at 2:04 p.m.