CONSENT AGENDA

1. Minutes approval from September 21, 2022 meeting

CALIFORNIA CITRUS PEST AND DISEASE PREVENTION COMMITTEE MEETING

Meeting Minutes Wednesday, September 21, 2022

Committee Members Present:

Craig Armstrong*	John Gless*	Dr. Etienne Rabe
Kevin Ball	John C. Gless	Rod Radtke
Franco Bernardi	Jim Gorden	Gregorio Rundini*
Brad Carmen	Mark McBroom	Roger Smith
Aaron Dillon	Jared Plumlee*	Keith Watkins

Bob Felts Jr.

Committee Members Absent:

Nick Hill

California Department of Food and Agriculture (CDFA) Staff:

Sara Khalid*	Lea Pereira*
Sarah Kraft*	David Phong
Luci Kumagai*	Grace Radabaugh*
Betty Lee*	Briana Russell*
Daniel Lee*	Heather Scheck*
Dahmoon Maeesomy*	Michael Soltero*
Dr. David Morgan*	ThuyVy Truong*
Alex Muñiz*	Jennifer Willems*
Colleen Murphy	Amelia Wright*
Keith Okasaki*	Jason Wu*
	Sarah Kraft* Luci Kumagai* Betty Lee* Daniel Lee* Dahmoon Maeesomy* Dr. David Morgan* Alex Muñiz* Colleen Murphy

Guests:

Price Adams* Teri Blaser Casey Creamer Melissa Cregan* Ariana Geuhrig* Dr. Subhas Hajeri* Melinda Klein Jessica Leslie*	Jasmine Lopez* Maureen McGuire* Dr. Neil McRoberts* Mia Neunzig Margaret O'Neill* Sandra Olkowski* Curtis Pate* Paige Shewmaker*	Cressida Silvers* Kirsten Skala* Jacob Villagomez* David Wirta* Helene Wright* Qijun Xiang* Judy Zaninovich Sandra Zwaal*
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*Attended the meeting virtually.

Opening Comments

Mark McBroom called the Citrus Pest and Disease Prevention Committee (CPDPC) meeting to order at 9:01 a.m. Mark McBroom welcomed the committee, staff, and members of the public participating in person and online. There was a quorum for the meeting.

Public Comments

There were no public comments.

APPROVAL OF CONSENT AGENDA ITEMS

The Consent agenda contained minutes from July 13, 2022 Committee meeting, the 2022-2023 Committee and Subcommittee Calendars, the CDFA/CCTEA Memorandum of Understanding, the 2022-2023 Sweet Orange Scab (SOS) budget, the revised Biocontrol Greenhouse Renovation budget, and CPDPC member term renewals.

Motion: To approve the consent agenda as presented.

First: Keith Watkins **Second:** Jim Gorden

Motion Carries: The motion passed unanimously.

EXECUTIVE COMMITTEE REPORT

Nothing to report.

FINANCE SUBCOMMITTEE REPORT

Review 2021/2022 and 2022/23 Budget Expenditures and Revenue

Bob Felts Jr. reported that fiscal year (FY) 2021-2022 expenditures increased by \$3,876,034 since the last Full Committee Meeting scheduled September 2022 bringing the year-to-date total to \$30,363,110, leaving a remaining balance of \$14,225,700. The Financial Information System of California (FI\$Cal) has closed out the FY and the thirteenth month for financial reporting. CPDPD will perform an internal post-audit reconciliation, but does not anticipate significant expenditure total changes for the FY.

Bob reported that 2021-22 FY revenue increased by \$510,441 since the last September 2022 meeting bringing the total to \$10,987,278. CPDPD anticipates revenue to slightly increase due to packing houses report for the month of September 2022, anything following reports after September 30, 2022, will be credited to FY2022-2023. The projected revenue total will be short by \$1,528,722 likely due to the short crop year.

Bob reported that FY2022-2023 expenditures have yet to be counted due to FI\$Cal closing out prior year FY2021-2022. CPDPD expects to present FY2022-2023 expenditures once July 2022 closes in FI\$Cal.

Set 2022/2023 Assessment Rate

Bob reported that projected production was roughly 188,000,000 cartons with the number of navel oranges reduced by 4,000,000 to 76,000,000 and the number of mandarins reduced by less than 2,000,000 to 40,000,000 following the release of the citrus objective report. At \$0.07 per 40 pound equivalent, the projected revenue is \$13,160,000. A Fund Condition Statement (FCS) was previously prepared by Carl Baum based on the previous year's FCS and manually calculated in active funding for an estimated total of \$27,500,000 carry in. A current FCS may be available for the November CPDPC meeting.

Motion: To set the 2022/2023 assessment rate at \$0.07 per 40 pound equivalent.

First: Dr. Etienne Rabe **Second:** Keith Watkins

Motion Carries: The motion passed unanimously.

REVIEW AND APPROVE SCIENCE ADVISORY PANEL (SAP) REPORT

Dr. Etienne Rabe presented the recommendations from the SAP report. The goal of the SAP is to keep huanglongbing (HLB) out of California's commercial citrus groves. The recommendations were presented at the September Operations and Science subcommittees for advancement to the full committee. A strategy and prioritization session is planned with the CPDPC in November. Followed by meetings with working groups and possibly a Technical Advisory Committee (TAC) to develop implement plans for the agreed upon recommendations. For risk-based survey, the SAP recommended splitting it into Northern/Central and Southern California regions, shifting from emphasizing historic find to residential and commercial interfaces, and assessing whether the different genotyping impact management activities. For Southern California, the panel recommended weighting the risk-based model to focus survey activities near commercial citrus while continuing survey in the core area. The SAP also recommends invoking the commercial risk-based survey model in Southern California to provide more emphasis on commercial trees. For the Central Valley and Northern Districts, the panel recommended focusing on residential areas near commercial citrus and they have recommended examining the 50 and 400 meter treatment areas for residential finds in order to harmonize delimitation areas to match Southern California. For nurseries, the panel recommended establishing a working group involving all major stakeholders to address several concerns regarding risk of Asian citrus psyllid (ACP) and HLB movement on nursery stock. For communications, the SAP recommended engaging data analysis experts to work with Nuffer Smith Tucker (NST) to suggest changes in outreach strategies. In general, the panel recommended improved coordination, harmonization of data sets and data collection between different entities, involving commercial growers in sample submission, pooling of samples to increase coverage and include asymptomatic leaf collection, revisiting the HLB response plan for residential and commercial finds and ensuring that it's well-publicized, considering establishing and regularly convening a TAC, considering the use of "non-messy" traps, and developing a flow chart to outline suggested revisions to the program. These recommendations will be discussed at the November CPDPC meeting, including its financial, regulatory, implementation, and strategic plan implications.

Motion: To recommend that Secretary Ross accept the Science Advisory Panel Report

as presented.

First: Bob Felts Jr.

Second: John C. Gless

Motion Carries: The motion passed unanimously.

Motion: To recommend that Secretary Ross provide recognition to the Science Advisory Panel for their efforts in supporting the California citrus industry and CDFA.

First: Dr. Etienne Rabe **Second:** Jim Gorden

Motion Carries: The motion passed unanimously.

OPERATIONS SUBCOMMITTEE REPORT Laboratory Update

Lucita Kumagai presented the laboratory update for the HLB testing program from the Plant Pest Diagnostics Center. She reported that 6,511 plant samples and 3,715 ACP samples were received in August. The monthly total of plant samples received by CDFA for 2022 have averaged at 6,000 and at 3,000 per month received by Citrus Research Board (CRB). For 2022, the combined plant and ACP samples received by CDFA was 72,381 with a projected total of 108,000 samples by the end of the year. The tally of positive detections reflected 3,785 residential trees, 2,597 sites, and 472 ACP positive samples. 74 percent of positive trees, 71 percent of positive sites, and 60 percent of ACP positive samples were found in Orange County.

HLB Risk-based Survey

David Phong presented data for 2022 Risk Survey cycle 1. Cycle 1 2022 began in June 2022 and is 30 percent complete with 7 of the 42 allocated counties completed with 9,879 properties visited. 2,624 properties were sampled generating 833 entomology and 1,989 plant samples. In Northern California, 5 staff members from 2 offices have completed risk survey for 38 percent of 178 assigned grids with risk survey completed in 4 counties. In Central California, 18 staff members from 4 offices have completed risk survey for 50 percent of the 566 assigned grids with risk survey completed in 3 counties. In Southern California, 27 staff members from 6 offices have completed risk survey for 19 percent of 502 assigned.

CDFA Operational Update

David Gutierrez presented the operational update including ACP and HLB delimitation survey and treatment areas for the Southern, Central, and Northern Districts.

Southern District

Delimitation Survey and treatments were conducted in Orange, Los Angeles, San Bernardino, and Riverside Counties. On August 19, the first HLB positive tree was detected in Pomona, Los Angeles County. A total of 242 HLB positive trees were removed in July and August. In San Diego County, 140 samples were taken from Vista and Pauma Valley areas and sent to the lab. All plant and insect samples were negative for HLB.

Central District

Since July, there was one ACP detection in Kern County, 7 ACP detections in Tulare County, 3 ACP detections in San Luis Obispo County. There were no new detections in Fresno County. ACP detection trapping is ongoing in Fresno and Madera Counties with delimitation trapping ongoing in Fresno, Kern, Tulare, and San Luis Obispo Counties. ACP treatment for San Luis Obispo and Tulare Counties were conducted in response to the ACP detections. *Tamarixia radiata* were released in Fresno, Kern, Santa Barbara, and Tulare Counties. Citrus yellow vein clearing virus (CYVCV) survey was halted due to high temperatures but will resume when temperatures cool in the fall.

Northern District

ACP detection trapping is ongoing in Placer, San Joaquin, and Stanislaus Counties. Winter ACP trapping will resume in November 2022 and training will be provided to county pest detection supervisors and trappers. ACP delimitation trapping is ongoing in Alameda County with no subsequent detections. Delimitation trapping is also ongoing in Santa Clara County with detections ongoing and traps serviced monthly. Biocontrol releases are continuing in San Jose, Santa Clara County, with an average of 6,500 *Tamarixia* released monthly.

Santa Clara County Update

Kyle Young presented the Santa Clara County update and stated that the county has demographics and international ports of entry that make the area susceptible to ACP and HLB introductions. A decision was previously made by the committee to stop treating due to the lack of commercial citrus and focus on delimitation trapping and biocontrol releases. ACP delimitation Area 1 was established in July 2020 with 560 traps serviced monthly over 27 square miles. ACP delimitation Area 2 was established in April 2021 with 175 traps serviced monthly. Delimitation for Area 2 ended in April 2022. The delimitation area was expanded by four grids in April 2022 due to additional ACP detections. There have been detections at four new properties since June 2022. Biocontrol releases have been conducted from July 2020 through September 2022 with 165,000 *Tamarixia* released at 376 properties. A deeper dive will be presented at the November meeting.

Tree Removal Contracts

Anmol Joshi presented information on the tree removal contracts in Southern California. There are five tree removal contracts, one for each of the counties where HLB has been confirmed (Los Angeles, Orange, San Bernardino, Riverside, and San Diego). Two companies cover all five counties. Each contract is for two years and contractors need to provide adequate staff to remove up to 40 citrus trees per week. Usually, two to three contractor employees conduct the HLB infected tree removals, but a second crew is requested in case there is a need to remove more trees in a week. CPDPD staff oversee the entire tree removal process. CPDPD staff make the initial contract by visiting the property and informing the resident about the detections of an HLB positive tree. After receiving consent form the homeowner, the tree removal date and time is scheduled as early as possible. CPDPD staff mark the infected tree and conduct foliar treatment to mitigate adult ACP. The contractor must be notified every Wednesday on which trees are to be removed the following week. The contractor conducts a Dig Alert

on the scheduled properties 72 hours in advance. Staff meet with the crew and the homeowner on the day of removal. All the remaining host trees are placed on a hold and quadrant survey of the remaining trees is conducted if needed. Staff oversee and assist the tree removal team and remain at the property until the trees are removed and chipped. The chipped plant debris are transported to the approved green waste facility. The current contract for Los Angeles and Orange Counties will expire on May 30, 2023. The next bidding process will begin six months prior to the end date of the contract.

CDFA Regulatory and County Agreement Update

Keith presented the county monthly regulatory activity report for July 2021 through June 2022. For this period, transporter and fruit-seller inspections have increased while grower and packing house inspections have remained the same in comparison to the prior year. Notice of violations and notice of proposed action numbers have also decreased. Counties have been performing tracebacks due to detections at packing houses in addition to issues observed while performing their own inspections. Mark McBroom suggested that all parties handling fruit be required to have compliance agreement.

Clean Nursery Stock Program

Keith Okasaki reminded the Committee that CPDPD will be taking over the clean nursery stock program from the Plant Health Division's Nursery Services Program.

Biocontrol Update

Dr. David Morgan reported that 232,000 parasitoids were released in August in Central and Southern Districts for a total of 2,000,000 released in 2022 and 26,000,000 released since the start of the program. Releases are projected to be higher than the previous year. CRB will also assist with biocontrol production. Releases are prioritized around HLB find sites with 75 percent of all biocontrol agents allocated to areas where HLB has been detected and where trees have been removed. CDFA will concentrate on new release locations and look at PDRs for ACP finds and focus efforts at those locations. Staff from the County Agricultural Commissioners' offices, CPDPD, and treatment coordinators have been assisting in conducting releases at locations specified by biocontrol staff. This year in Fresno, Kern, and Tulare Counties, 85,000 insects have been released for a total of 500,000 since the start of the program. In Ventura, Santa Barbara, and San Luis Obispo Counties, 227,000 insects have been released. In Santa Clara, 57,000 insects have been released.

SCIENCE SUBCOMMITTEE REPORT Ethyl Formate Registration Update

Dr. Etienne Rabe reported that the United States Environmental Protection Agency is anticipated to approve the use of ethyl formate in early 2023.

Neonicotinoid Risk Mitigation Update

Casey Creamer reported that there was confusion about the Department of Pesticide Regulations prohibition of the use of neonicotinoids on citrus. He noted that a second draft was released to improve the exception process. Under the revised draft, the

mitigations under the citrus category do not apply if neonicotinoids are being used on a quarantined pest. Pesticide use is allowed if a pest control advisor signs off that use is to control a quarantine pest.

Sweet Orange Scab (SOS) Regulation Update

Keith Okasaki reported that CDFA is working to investigate nursery stock coming into California and establishing an SOS regulation. Victoria Hornbaker reported that CDFA regulatory staff met with the USDA SOS Cross-Functional Working Group and where it was determined that the state cannot go to one mile quarantine but to keep it a 5 mile quarantine to mirror the existing regulated areas.

OUTREACH SUBCOMITTEE REPORT

Price Adams presented the recent outreach activities. Price explained that according to polls, 75 percent of consumers trust advertising, opinions, and product placements from influencers. Therefore, NST has been continuing working to create Citrus Pest & Disease Prevention Program (CPDPP) partnerships on Instagram, Facebook, and TikTok. CPDPP social media accounts have shared content on tips for growing, harvesting, and sharing homegrown citrus to prevent the spread of HLB and ACP. NST has also been supporting several community events including the Chula Vista Lemon Festival. NST was also secured billboard placement between Orange and Riverside Counties. The collective industry outreach team helped to promote Citrus Pest Management Field Days, hosted by University of California, Riverside (UCR), and Grower Liaison Sandra Zwaal in San Diego, Riverside, and San Bernardino Counties. In response to the detections in Pauma Valley, NST coordinated the crisis communications team in late June and early July and has been developing a response guide for HLB positive finds in a commercial grove. Coordination with USDA about outreach inquires and responses regarding CYVCV are ongoing. NST staff attended the League of California Cities Conference, met with County Agricultural Commissioners, scheduled a presentation for the Monrovia, Arcadia, and Duarte City Councils, and conducted a deskside briefing with Public Information Officers in Ventura County. For FY 2021-22, NST secured 228 total media stories with over half of content coverage earned during National Garden month. Thirty targeted ads were deployed and received 867,569 impressions at the cost of \$2.33 per 1,000 impressions. There were 16 industry meetings and conferences supported and attended, over 4,800 CPDPD annual reports distributed, and 119 new Citrus Insider email sign ups. NST attended four conferences and 26 municipalities shared CPDPP social media content. Upcoming activities include outreach at the Goleta Lemon Festival, a Master Gardener Summit webinar, assisting the SAP in finalizing and distributing recommendations, a Central Coast packinghouse meeting, the Citrus Association of Pest Control Advisors conference, scouting for a field crew supervisor to head the Spanish language trainings, and the San Diego Farm Bureau Annual Farm and Nursery Expo.

United States Department of Agriculture (USDA) REPORT

Helene Wright reported that the proposal requests for Farm Bill Plant Protection Act (PPA) 7721 closed. She endorsed the Citrus Commodity Survey to supplement the multi-pest survey due to receiving commodity survey funds from PPA 7721. She is also

working with CDFA regarding e-commerce shipments that have come from an out of state nursery. Leo Donovall will be fulfilling the role of National Operations Manager following the retirement of Leon Bunce.

California Citrus Mutual (CCM) Report

Casey Creamer reported that CCM has been working with Victoria and USDA to conduct outreach to growers and to seek additional funding for CYVCV. Victoria was able to secure some funding from CDFA while USDA secured some federal funds. CCM will work to increase the general fund allocation for FY 2022-23 and has been working with State colleagues in Texas and Florida for the FY 2022-23 appropriation's cycle.

Citrus Research Board (CRB) Report

Marcy Martin announced that CRB will host the International Research HLB Conference in 2024. Additionally, CRB's Citrus Conference will be on October 19 at the Visalia Convention Center. The CRB lab is currently running at 40 percent capacity. Up to 1,000 ACP and tissue samples may be processed per week at full capacity. CRB's crop estimate has projected 70,110,000 navels, 19,000,000 valencias, 45,125,000 lemons, 8,500,000 grapefruits, and 45,000,000, for a total of 187,735,000 total citrus.

Citrus Pest Detection Program (CPDP) Report

Dr. Subhas Hajeri presented the pest control district updates for San Joaquin Valley from April through September 2022. He explained that the CPDP uses the commercial grove risk-based survey model to deploy 3-D traps and conducting visual and perimeter survey for HLB symptoms. Plant material is only be collected if symptomatic leaves are identified. Traps are set within a block for two weeks and then collected for inspection. Each crew deploys 100 traps during the two-week window. Subhas suggested routinely testing ACP for CLas and monitoring trees as methods for preventing HLB from being established in Central California. CPDP is in the process of renewing their non-regulatory diagnostics laboratory permit for CLas testing.

CLOSING COMMENTS AND ADJOURNMENT

Program Environmental Impact Report (PEIR) Update

Victoria stated that CDFA has secured a contractor and CDFA is providing information on field operations. There is an aggressive timeline to recertify the PEIR within one year.

CYVCV Update

Victoria reported that CYVCV survey was halted due to high temperatures during the summer months because symptom expression is temperature dependent. Now that temperatures are decreasing below 100 degrees Fahrenheit for an extended period, survey for CYVCV will resume on September 26. The focus will be to deemphasize surveying the core area in the city of Tulare. CDFA has worked with USDA's Cross-Functional Working Group to develop a revised survey expanding to a 7-mile area and surveying every property bisected by the arc. Samples will be collected from all citrus trees, regardless of observable symptoms. If no detections are found, the area will be reduced to a 6-mile arc. If detections are found, the area will be expanded to an 8-mile

arc. Determining the extent of infestation will permit the engagement of regulatory work. A hold notice has been established on each property where a positive tree detection has been found, barring the property from moving plants, fruit, or any materials from the property. CDFA has entered into a Memorandum of Understanding with the Tristeza agency so that they may partner with Dr. Ray Yokomi on a transmissibility study. There has been a lot of media interest in CYVCV, but CDFA has been working with USDA and NST to ensure communications are coordinated.

The meeting adjourned at 12:20 p.m. The next meeting will be on November 9, 2022 in Visalia, California.





FY 21-22 June 2022 Expenditures

#	Group	Region	Activity	Committee Approved 2022 Budget	Remaining 2022 Budget	June 22 Expenditures per FI\$Cal	Year to Date Expenditures per FI\$Cal	Ye	year FY20-21 ear to date penditures
1	ACP Mgmt	Border	Treatment	\$625,046	\$351,695	\$ 26,256	\$ 273,351	\$	311,851
2	ACP Mgmt	Central	Survey	\$2,659,168	\$452,342	\$ 584,594	\$ 2,206,826	\$	1,766,274
3	ACP Mgmt	Central	Treatment	\$1,290,726	\$1,093,731	\$ 45,259	\$ 196,995	\$	412,189
4	ACP Mgmt	Northern	Survey	\$1,540,124	\$208,028	\$ 223,644	\$ 1,332,096	\$	1,137,917
5	ACP Mgmt	Northern	Treatment	\$445,718	\$331,242	\$ 55,554	\$ 114,475	\$	412,153
6	ACP Mgmt	Southern	Treatment	\$1,815,452	\$1,185,587	\$ 67,309	\$ 629,865	\$	826,705
7	ACP Mgmt	Southern	Survey	\$281,149	\$61,621	\$ 35,279	\$ 219,528	\$	198,307
8	ACP Mgmt	Statewide	Biocontrol	\$1,686,369	\$282,396	\$ 183,517	\$ 1,403,973	\$	951,516
9	ACP Mgmt	Statewide	Survey	\$3,000,000	\$768,234	\$ 372,295	\$ 2,231,766	\$	1,306,490
10	ACP Mgmt	Statewide	Regulatory	\$3,215,894	\$206,318	\$ 626,759	\$ 3,009,576	\$	1,695,764
11	HLB Det	Border	Survey	\$212,795	\$84,319	\$ 45,602	\$ 128,476	\$	196,486
12	HLB Det	Southern	Survey	\$2,084,691	\$1,026,053	\$ 173,171	\$ 1,058,639	\$	926,515
13	HLB Det	Statewide	Survey	\$6,532,228	\$2,640,276	\$ 443,850	\$ 3,891,952	\$	2,258,012
14	HLB Det	Statewide	Diagnostics	\$3,338,979	\$1,037,352	\$ 600,851	\$ 2,301,627	\$	2,541,265
15	HLB Erad	Southern	Treatment	\$5,361,616	\$1,738,141	\$ 591,171	\$ 3,623,475	\$	2,508,120
16	HLB Erad	Statewide	Regulatory	\$826,945	\$415,743	\$ 33,660	\$ 411,202	\$	446,293
17	ACP/HLB	Statewide	Admin	\$5,852,176	-\$208,582	\$ 129,623	\$ 6,060,758	\$	4,533,544
18	ACP/HLB	Statewide	Outreach	\$2,063,377	\$1,051,307	\$ 257,738	\$ 1,012,070	\$	1,058,087
19	ACP/HLB	Statewide	Data Analysis	\$1,547,305	\$665,756	\$ 145,771	\$ 881,549	\$	163,897
20	ACP Mgmt	Statewide	Diagnostics	\$209,052	\$32,316	\$ 59,955	\$ 176,736	\$	122,778
			Totals	\$44,588,810	<i>\$13,423,875</i>	\$4,701,857	\$31,164,934	\$	23,774,161

Overage in Group 17 is due to overhead and indirect costs

FY 2021-2022 is closed in FI\$Cal.

FY 21-22 June 2022 Expenditures Percentage

#	Group	Region	Activity	Committee Approved 2022 Budget	Remaining 2022 Budget	Year to Date Expenditures per FI\$Cal	Percentage Expended
1	ACP Mgmt	Border	Treatment	\$625,046	\$351,695	\$ 273,351	44%
2	ACP Mgmt	Central	Survey	\$2,659,168	\$452,342	\$ 2,206,826	83%
3	ACP Mgmt	Central	Treatment	\$1,290,726	\$1,093,731	\$ 196,995	15%
4	ACP Mgmt	Northern	Survey	\$1,540,124	\$208,028	\$ 1,332,096	86%
5	ACP Mgmt	Northern	Treatment	\$445,718	\$331,242	\$ 114,475	26%
6	ACP Mgmt	Southern	Treatment	\$1,815,452	\$1,185,587	\$ 629,865	35%
7	ACP Mgmt	Southern	Survey	\$281,149	\$61,621	\$ 219,528	78%
8	ACP Mgmt	Statewide	Biocontrol	\$1,686,369	\$282,396	\$ 1,403,973	83%
9	ACP Mgmt	Statewide	Survey	\$3,000,000	\$768,234	\$ 2,231,766	74%
10	ACP Mgmt	Statewide	Regulatory	\$3,215,894	\$206,318	\$ 3,009,576	94%
11	HLB Det	Border	Survey	\$212,795	\$84,319	\$ 128,476	60%
12	HLB Det	Southern	Survey	\$2,084,691	\$1,026,053	\$ 1,058,639	51%
13	HLB Det	Statewide	Survey	\$6,532,228	\$2,640,276	\$ 3,891,952	60%
14	HLB Det	Statewide	Diagnostics	\$3,338,979	\$1,037,352	\$ 2,301,627	69%
15	HLB Erad	Southern	Treatment	\$5,361,616	\$1,738,141	\$ 3,623,475	68%
16	HLB Erad	Statewide	Regulatory	\$826,945	\$415,743	\$ 411,202	50%
17	ACP/HLB	Statewide	Admin	\$5,852,176	-\$208,582	\$ 6,060,758	104%
18	ACP/HLB	Statewide	Outreach	\$2,063,377	\$1,051,307	\$ 1,012,070	49%
19	ACP/HLB	Statewide	Data Analysis	\$1,547,305	\$665,756	\$ 881,549	57%
20	ACP Mgmt	Statewide	Diagnostics	\$209,052	\$32,316	\$ 176,736	85%
			Totals	\$44,588,810	<i>\$13,423,875</i>	\$31,164,934	70%

FY 21-22 June Expenditure Metrics

Month of June 2022 Expenditure Metrics

June 2022 Expenditures \$4,701,857

FY 20-21 Prior Year June Expenditures \$3,338,660

Variance 40.8%

Year to Date June 2022 Expenditure Metrics

Year to Date Expenditures \$31,164,934

FY 20-21 Prior Year-To-Date Expenditures \$23,774,161

Variance 31.1%

Variance high due to invoices being actualized quicker than prior year

Committee Budget

FY21-22 Committee Approved Budget \$44,588,810

Percentage of Expenditures to Date 70%

Remaining Balance \$13,423,875



FY 21-22 Revenue Summary

Revenue	Received
ite venue	

Revenue Received To Date (October 2021 to September 2022) \$11,905,476

Last Meeting (September 6, 2022) Revenue Received to Date \$10,987,278

Increased from last meeting to current \$918,198

Aug 2022: \$610,975

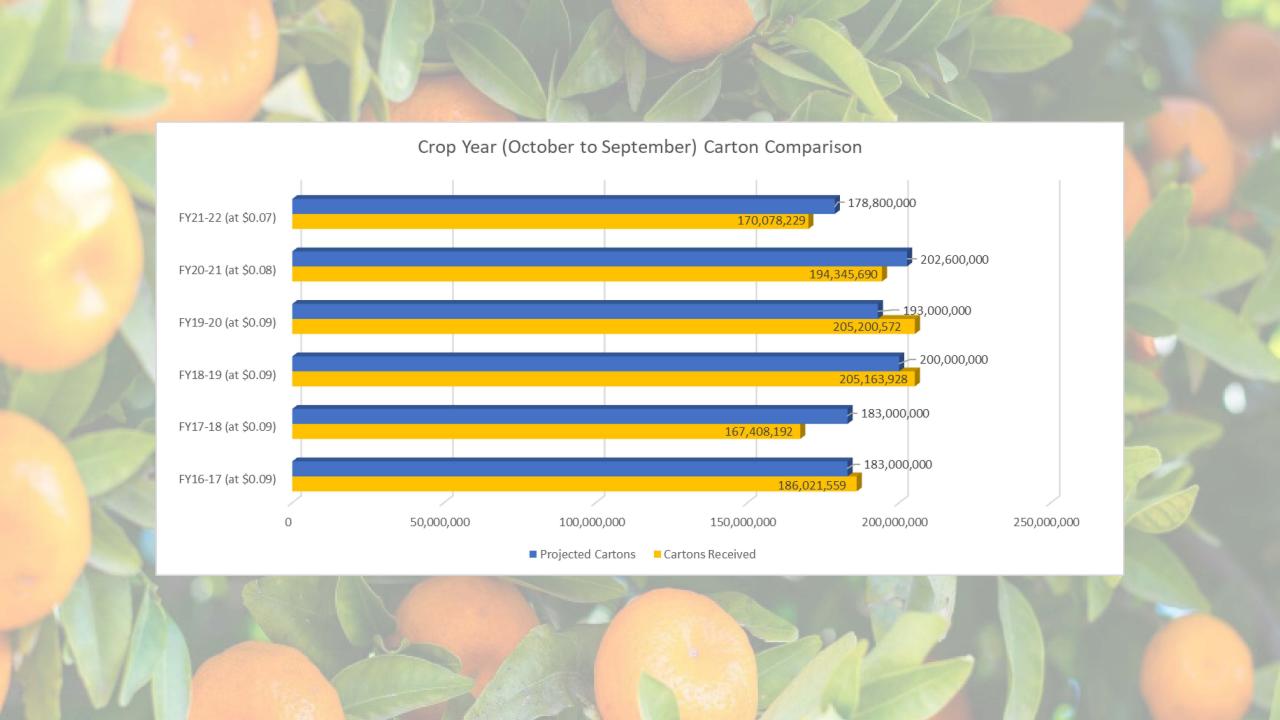
Sep 2022: \$307,233

FY 21-22 Carton Comparison

FY21/22 Projected Cartons	FY21/22 Projected Cartons (NASS)	FY20/21 Projected Cartons (CPDPC)
184,450,000	178,800,000	202,600,000
Cartons	Cartons	Cartons
\$0.07/per carton	\$0.07/per carton	\$0.08/per carton
\$12,911,500	\$12,516,000	\$16,208,000

FY20/21 collected 194,354,687 cartons at \$0.08/ per carton

Year to Date Revenue Received	Revenue Amount	Cartons
Current YTD (\$0.07/per carton)	\$11,905,476	170,078,229
Prior Year FY20-21 YTD (\$0.08/per carton)	\$15,099,102	188,738,775





FY 22-23 Expenditures

Month Closed in FI\$Cal	Monthly Total Closed	YTD Total		
July 2022	\$1,503,811	\$1,1503,811		
August 2022	\$2,356,987	\$3,860,798		
September 2022	\$3,094,488	\$6,955,286		

FY 22-23 July 2022 Expenditures

#	Group	Region	Activity	Committee Approved 2022- 23 Budget	Remaining 2022-23 Budget	July 2022 Expenditures per FI\$Cal	Year to Date Expenditures per FI\$Cal	Prior year FY21-22 Year to date Expenditures
1	. ACP Mgmt	Border	Treatment	\$724,879	\$722,929	\$ 1,950	\$ 1,950	\$ 12,861
2	ACP Mgmt	Central	Survey	\$3,029,321	\$2,952,645	\$ 76,676	\$ 76,676	\$ 66,236
3	ACP Mgmt	Central	Treatment	\$1,523,191	\$1,478,677	\$ 44,514	\$ 44,514	\$ 5,049
4	ACP Mgmt	Northern	Survey	\$1,763,771	\$1,719,664	\$ 44,107	\$ 44,107	\$ 45,319
Ę	ACP Mgmt	Northern	Treatment	\$455,799	\$454,906	\$ 893	\$ 893	\$ 3,099
6	ACP Mgmt	Southern	Treatment	\$2,489,759	\$2,475,902	\$ 13,857	\$ 13,857	\$ 21,499
7	ACP Mgmt	Southern	Survey	\$225,853	\$220,605	\$ 5,248	\$ 5,248	\$ 9,205
8	ACP Mgmt	Statewide	Biocontrol	\$1,909,711	\$1,889,129	\$ 20,582	\$ 20,582	\$ 24,346
g	ACP Mgmt	Statewide	Survey	\$3,000,000	\$3,000,000	\$ -	\$ -	\$ 49
1	O ACP Mgmt	Statewide	Regulatory	\$3,239,008	\$3,170,283	\$ 68,725	\$ 68,725	\$ 82,226
1	1 HLB Det	Border	Survey	\$224,385	\$224,043	\$ 342	\$ 342	\$ 3,614
1	2 HLB Det	Southern	Survey	\$2,126,158	\$2,012,315	\$ 113,843	\$ 113,843	\$ 104,379
1	3 HLB Det	Statewide	Survey	\$6,601,352	\$6,208,250	\$ 393,102	\$ 393,102	\$ 446,654
1	4 HLB Det	Statewide	Diagnostics	\$3,353,434	\$3,287,913	\$ 65,521	\$ 65,521	\$ 70,995
1	5 HLB Erad	Southern	Treatment	\$5,358,641	\$5,214,059	\$ 144,582	\$ 144,582	\$ 127,410
1	6 HLB Erad	Statewide	Regulatory	\$844,501	\$802,018	\$ 42,483	\$ 42,483	\$ 35,104
1	7 ACP/HLB	Statewide	Admin	\$3,624,361	\$3,206,707	\$ 417,654	\$ 417,654	\$ 331,695
1	8 ACP/HLB	Statewide	Outreach	\$1,970,527	\$1,967,230	\$ 3,297	\$ 3,297	\$ 4,160
1	9 ACP/HLB	Statewide	Data Analysis	\$1,739,067	\$1,692,674	\$ 46,393	\$ 46,393	\$ 48,659
2	O ACP Mgmt	Statewide	Diagnostics	\$215,393	\$215,352	\$ 41	\$ 41	\$ 51
			Totals	\$44,419,111	\$42,915,300	\$1,503,811	\$1,503,811	\$1,442,610

FY 22-23 August 2022 Expenditures

#	Group	Region	Activity	Committee Approved 2022- 23 Budget	Remaining 2022-23 Budget	August 2022 Expenditures per FI\$Cal	Year to Date Expenditures per FI\$Cal	Prior year Year to Expend	o date
1	ACP Mgmt	Border	Treatment	\$724,879	\$704,150	\$ 18,778	\$20,729	\$	43,016
2	ACP Mgmt	Central	Survey	\$3,029,321	\$2,849,172	\$ 103,473	\$180,149	\$	199,581
3	ACP Mgmt	Central	Treatment	\$1,523,191	\$1,432,649	\$ 46,028	\$90,542	\$	18,086
4	ACP Mgmt	Northern	Survey	\$1,763,771	\$1,666,827	\$ 52,837	\$96,944	\$	93,025
5	ACP Mgmt	Northern	Treatment	\$455,799	\$453,147	\$ 1,759	\$2,652	\$	24,236
6	ACP Mgmt	Southern	Treatment	\$2,489,759	\$2,435,374	\$ 40,527	\$54,385	\$	63,888
7	ACP Mgmt	Southern	Survey	\$225,853	\$213,058	\$ 7,547	\$12,795	\$	31,270
8	ACP Mgmt	Statewide	Biocontrol	\$1,909,711	\$1,800,017	\$ 89,111	\$109,694	\$	82,382
9	ACP Mgmt	Statewide	Survey	\$3,000,000	\$2,892,559	\$ 107,441	\$107,441	\$	2,987
10	ACP Mgmt	Statewide	Regulatory	\$3,239,008	\$3,110,765	\$ 59,518	\$128,243	\$	180,083
11	HLB Det	Border	Survey	\$224,385	\$221,543	\$ 2,500	\$2,842	\$	19,469
12	HLB Det	Southern	Survey	\$2,126,158	\$1,890,536	\$ 121,779	\$235,622	\$	213,453
13	HLB Det	Statewide	Survey	\$6,601,352	\$5,696,887	\$ 511,363	\$904,465	\$	836,927
14	HLB Det	Statewide	Diagnostics	\$3,353,434	\$3,066,583	\$ 221,329	\$286,851	\$	241,660
15	HLB Erad	Southern	Treatment	\$5,358,641	\$5,004,256	\$ 209,803	\$354,385	\$	280,165
16	HLB Erad	Statewide	Regulatory	\$844,501	\$755,307	\$ 46,712	\$89,194	\$	89,938
17	ACP/HLB	Statewide	Admin	\$3,624,361	\$2,581,092	\$ 625,615	\$1,043,269	\$	836,592
18	ACP/HLB	Statewide	Outreach	\$1,970,527	\$1,942,977	\$ 24,253	\$27,550	\$	29,706
19	ACP/HLB	Statewide	Data Analysis	\$1,739,067	\$1,638,599	\$ 54,075	\$100,468	\$	105,501
20	ACP Mgmt	Statewide	Diagnostics	\$215,393	\$202,814	\$ 12,537	\$12,579	\$	15,025
			Totals	\$44,419,111	\$40,558,313	\$2,356,987	\$3,860,798	\$3,40	6,989

FY 22-23 September 2022 Expenditures

	#	Group	Region	Activity	Committee Approved 2022- 23 Budget	Remaining 2022-23 Budget	September 2022 Expenditures per FI\$Cal	Year to Date Expenditures per FI\$Cal	Prior year FY21-22 Year to date Expenditures
	1	ACP Mgmt	Border	Treatment	\$724,879	\$689,681	\$ 14,470	\$35,198	\$ 63,336
	2	ACP Mgmt	Central	Survey	\$3,029,321	\$2,699,874	\$ 149,298	\$329,447	\$ 283,878
	3	ACP Mgmt	Central	Treatment	\$1,523,191	\$1,351,729	\$ 80,920	\$171,462	\$ 22,519
	4	ACP Mgmt	Northern	Survey	\$1,763,771	\$1,609,371	\$ 57,456	\$154,400	\$ 152,784
	5	ACP Mgmt	Northern	Treatment	\$455,799	\$453,146	\$ 1	\$2,653	\$ 29,399
	6	ACP Mgmt	Southern	Treatment	\$2,489,759	\$2,377,157	\$ 58,217	\$112,602	\$ 124,229
	7	ACP Mgmt	Southern	Survey	\$225,853	\$201,374	\$ 11,684	\$24,479	\$ 54,637
	8	ACP Mgmt	Statewide	Biocontrol	\$1,909,711	\$1,713,803	\$ 86,214	\$195,908	\$ 246,825
	9	ACP Mgmt	Statewide	Survey	\$3,000,000	\$2,748,531	\$ 144,029	\$251,469	\$ 263,229
	10	ACP Mgmt	Statewide	Regulatory	\$3,239,008	\$3,032,302	\$ 78,463	\$206,706	\$ 345,103
7	11	HLB Det	Border	Survey	\$224,385	\$216,809	\$ 4,734	\$7,576	\$ 41,660
	12	HLB Det	Southern	Survey	\$2,126,158	\$1,746,699	\$ 143,837	\$379,459	\$ 312,356
	13	HLB Det	Statewide	Survey	\$6,601,352	\$5,244,589	\$ 452,298	\$1,356,763	\$ 1,237,588
	14	HLB Det	Statewide	Diagnostics	\$3,353,434	\$2,757,302	\$ 309,281	\$596,132	\$ 375,318
	15	HLB Erad	Southern	Treatment	\$5,358,641	\$4,488,834	\$ 515,422	\$869,807	\$ 398,228
	16	HLB Erad	Statewide	Regulatory	\$844,501	\$715,540	\$ 39,767	\$128,961	\$ 131,128
	17	ACP/HLB	Statewide	Admin	\$3,624,361	\$1,902,934	\$ 678,158	\$1,721,427	\$ 1,436,226
	18	ACP/HLB	Statewide	Outreach	\$1,970,527	\$1,813,308	\$ 129,669	\$157,219	\$ 33,444
	19	ACP/HLB	Statewide	Data Analysis	\$1,739,067	\$1,510,724	\$ 127,875	\$228,343	\$ 163,861
	20	ACP Mgmt	Statewide	Diagnostics	\$215,393	\$190,118	\$ 12,696	\$25,275	\$ 29,607
				Totals	\$44,419,111	<i>\$37,463,825</i>	\$3,094,488	\$6,955,286	<i>\$5,747,355</i>



QUESTIONS?

	AB 281	NASS Comparison					
Туре	Projected FY21/22 Cartons	Projected FY22/23 Cartons	Source	Revised Projected FY22/23 Cartons	Source		
Navels	70,000,000	76,000,000	NASS California Navel Orange Objective Measurement Report 9/12/22	76,000,000	NASS Projection 10/12/22		
Lemons	42,000,000	46,000,000	NASS Citrus July Forcast 7/12/22	46,000,000	NASS Projection 10/12/22		
Mandarins	42,000,000	40,000,000	NASS Citrus July Forcast 7/12/22	40,000,000	NASS Projection 10/12/22		
Valencias	17,000,000	18,000,000	NASS Citrus July Forcast 7/12/22	18,200,000	NASS Projection 10/12/22		
Grapefruit	7,800,000	8,000,000	NASS Citrus July Forcast 7/12/22	8,200,000	NASS Projection 10/12/22		
Total	178,800,000	188,000,000		188,400,000			

FY 21/22 \$ per Carton								
\$.07/carton	\$.08/carton	\$.09/carton	\$.10/carton	\$.11/carton	\$.12/cartor			
\$12,516,000	\$14,304,000	\$16,092,000	\$17,880,000	\$19,668,000	\$21,456,00			
		FY 22/23 \$ per Carto	n					
\$.07/carton	\$.08/carton	FY 22/23 \$ per Carto \$.09/carton	s.10/carton	\$.11/carton	\$.12/carto			

Revised FY 22/23 \$ per Carton								
\$.07/carton	\$.07/carton \$.08/carton \$.09/carton \$.10/carton \$.11/carton \$.12/carton							
\$13,188,000	\$15,072,000	\$16,956,000	\$18,840,000	\$20,724,000	\$22,608,000			

USDA Funding

CHRP Base Funding \$12,144,000
22/23 CHRP Requested Funding \$14,500,000
CHRP CYVCV Funding \$325,000

On-going \$5,000,000

CYVCV Emergency Funds \$551,368
Canker Emergency Funds \$234,525



California Department of Food & Agriculture
Plant Pest Diagnostics Center
HLB Testing Program
2022

Total number of plant and ACP samples per month – Fig. 1 HLB yearly totals – Fig. 2

Tally of positive detections by county and city – Tables 1-3

Tally of positive detections by city per year - Tables 4

If you have any questions, please call or email me at 916-738-6710 <u>lucita.kumagai@cdfa.ca.gov</u>.

Fig 1. 2022 - Total number of plant and ACP samples submitted per month.

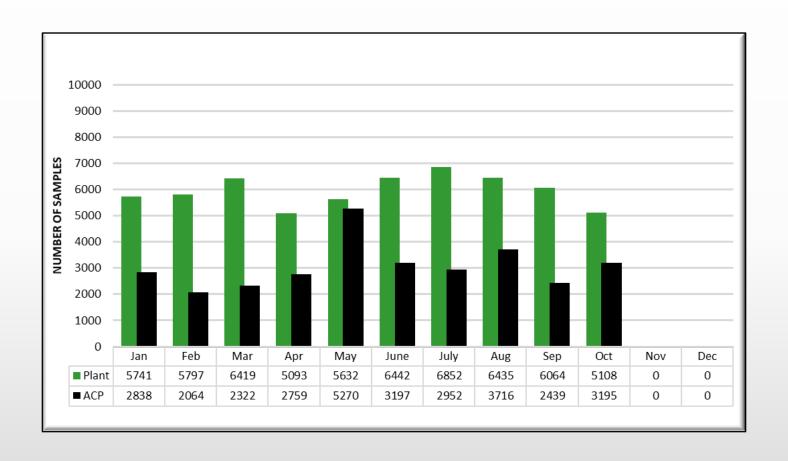
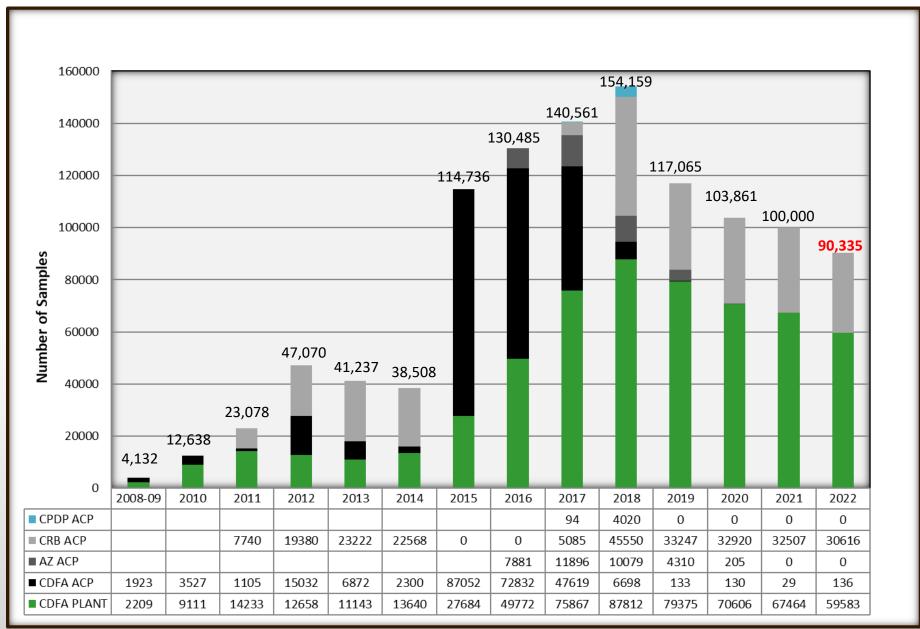


Fig 2. Number of samples tested for HLB per year from 2008 - October 2022.



Combined total of plant and ACP samples tested from 2008 – 2022 is 1,117,865.

HLB Positive Detections								
City	# Sites	# Trees	# ACP samples					
	inge Coui							
Garden Grove	470	733	64					
Santa Ana Anaheim	418	587	57					
Westminster	479 335	772 537	110 20					
Orange	114	153	19					
Tustin	12	15	3					
Fountain Valley	6	10	2					
Huntington Beach	22	25	2					
Placentia	9	8	3					
<u>La Habra</u>	3	4	1					
Fullerton	4	5	3					
Yorba Linda Irvine	<u>3</u> 5	<u>2</u> 4	<u>2</u> 3					
Total	1880	2855	289					
	ngeles Co		203					
Whittier	167	208	34					
Pico Rivera	111	135	38					
Montebello	71	99	1					
San Gabriel	67	83	7					
Rosemead	28	33	6					
Paramount	29	34	5					
La Mirada La Puente	31	44 11	6					
Norwalk	10 9	6	<u>6</u> 4					
Cerritos	3	2	2					
Hacienda Heights	2	2	1					
Lakewood	5	6	0					
Duarte	37	43	3					
El Monte	15	15	8					
South El Monte	10	21	4					
Alhambra	1	1	0					
Temple City	3 1	2 1	0					
<u>Compton</u> Glendora	1	0	1					
South Gate	7	6	4					
Long Beach	4	2	2					
Los Angeles	1	0	1					
Downey	9	12	3					
Carson	4	3	1					
Monrovia	14	19	0					
Rowland Heights	2	0	2					
Pomona Artesia	10 1	12 1	0					
Total	653	801	143					
	rside Cou		143					
Corona	46	77	19					
Riverside	25	27	5					
Eastvale	1	1	0					
Jurupa Valley	14	11	4					
Moreno Valley	1	1	0					
Total	87	117	28					
Rancho Cucamonga	nardino (County 7	2					
Montclair	6	6	0					
Colton	6	11	3					
San Bernardino	2	1	1					
Ontario	53	112	18					
Fontana	17	22	9					
Chino	2 1		1					
Total	89	160	34					
	San Diego		1					
Fallbrook Oceanside	4	9	4					
Pauma Valley	1	0	1					
Vista	1	0	1					
Total	7	7						

3942

501

2716

Grand Total

Table 1. Tally of positive sites, positive trees, and CLas+ ACP samples by county and city as of 10/25/2022.

Table 2. Percent positives per county

County	Sites	Trees	ACP
Orange	69.2%	72.43%	57.7%
LA	24.0%	20.32%	28.5%
Riverside	3.2%	2.97%	5.6%
San Bernardino	3.3%	4.06%	6.8%
San Diego	0.3%	0.23%	1.4%
Total	100%	100%	100%

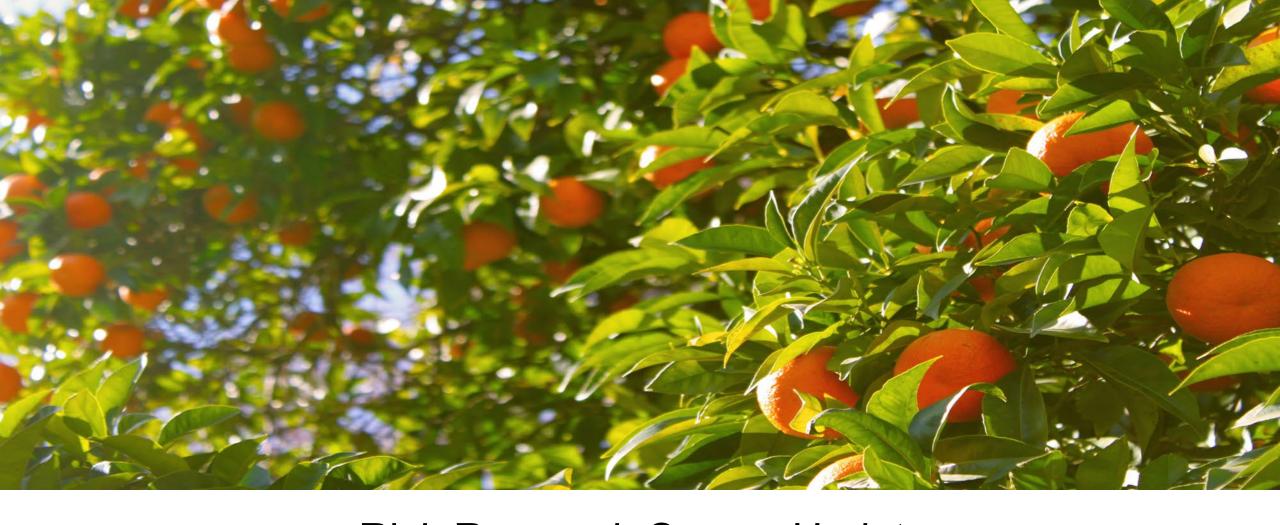
Table 3. Tally of positive samples from Risk-based and HLB Response surveys.

Sample type	Tr	ees	ACP		
Risk-based Survey	151	4%	237	47%	
HLB Response	3791	96%	264	53%	
Total	3942	100%	501	100%	

Table 4. Annual tally of positive trees per city from 2012 – 2022 as of 10/25/2022

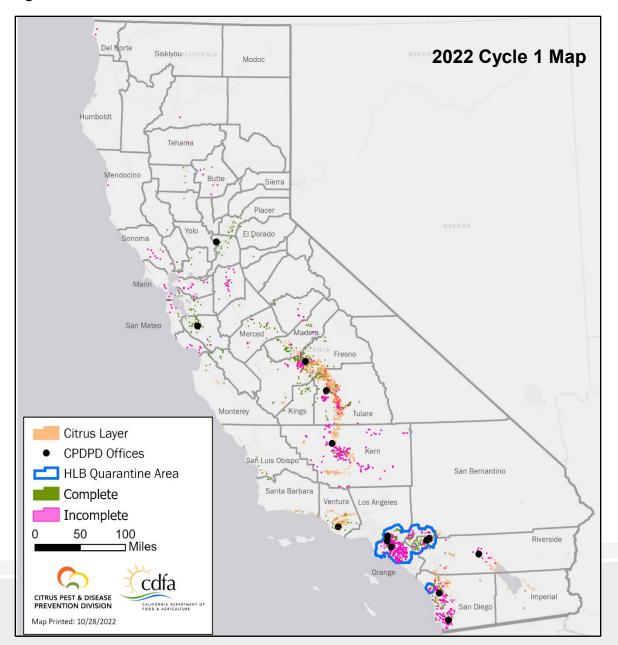
County	Total
Orange	2855
Los Angeles	801
Riverside	117
San Bernardino	160
San Diego	9
Grand Total	3942

HLB Positive Tree Detections										
City	2012	2015	2016	2017	2018	2019	2020	2021	2022	Total
Anaheim				132	109	90	21	200	220	772
Garden Grove				13	348	115	116	34	107	733
La Habra				1	0	2	0	0	1	4
Fullerton				1	0	0	0	0	4	5
Santa Ana					44	168	217	99	59	587
Westminster					15	175	3	39	305	537
Yorba Linda					1	0	0	1	0	2
Orange					31	14	36	43	29	153
Tustin					5	8	1	0	1	15
Huntington Beach						6	2	17	0	25
Placentia						7	0	0	1	8
Fountain Valley							10	0	0	10
Irvine							1	1	2	4
Hacienda Heights	1	0	1	0	0	0	0	0	0	2
San Gabriel		10	17	33	10	6	0	1	6	83
Cerritos			1	1	0	0	0	0	0	2
Pico Rivera				67	35	18	10	1	4	135
Whittier				18	80	23	21	35	31	208
La Puente					0	3	0	0	8	11
Lakewood					1	1	0	4	0	6
Norwalk					1	0	2	1	2	6
Rosemead					17	11	0	0	5	33
Duarte					2	0	0	0	41	43
Temple City						1	0	0	1	2
Montebello						84	4	0	11	99
El Monte						1	1	0	13	15
Compton						1	0	0	0	1
Alhambra						1	0	0	0	1
La Mirada							7	6	31	44
Paramount							11	8	15	34
Long Beach								2	0	2
South Gate								2	4	6
Downey									12	12
Carson									3	3
Monrovia									19	19
Pomona									12	12
South El Monte									21	21
Artesia									1	1
Glendora										
Rowland Heights										
Los Angeles										
Riverside				3	0	4	6	8	6	27
Corona						15	4	11	47	77
Eastvale							1	0	0	1
Moreno Valley							1	0	0	1
Jurupa Valley								1	10	11
Montclair						2	2	2	0	6
San Bernardino							1	0	0	1
Ontario							1	64	47	112
Colton							4	7	0	11
							5	2	0	7
Rancho Cucamonga							3	Z		
Fontana									22	22
Chino									1	1
Oceanside								9	0	9
								3	J	,
Fallbrook										
Pauma Valley										
Vista										
Total	1	10	19	269	699	756	488	598	1102	3942

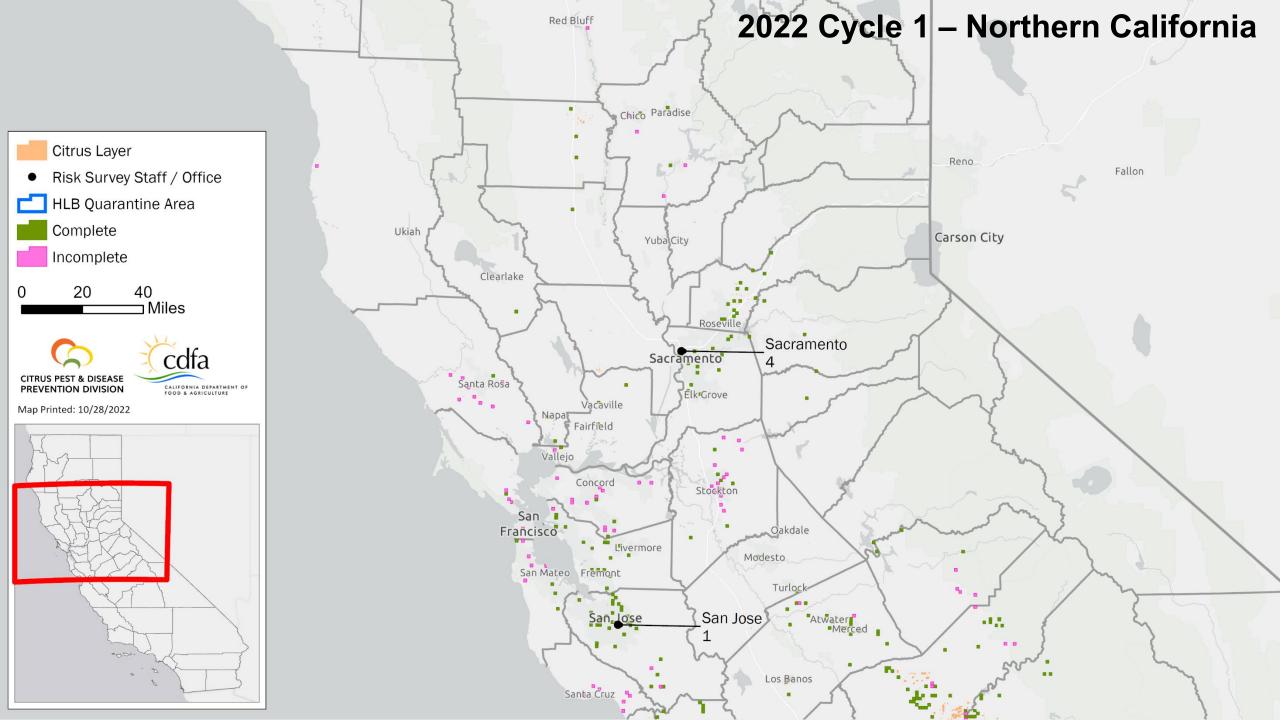


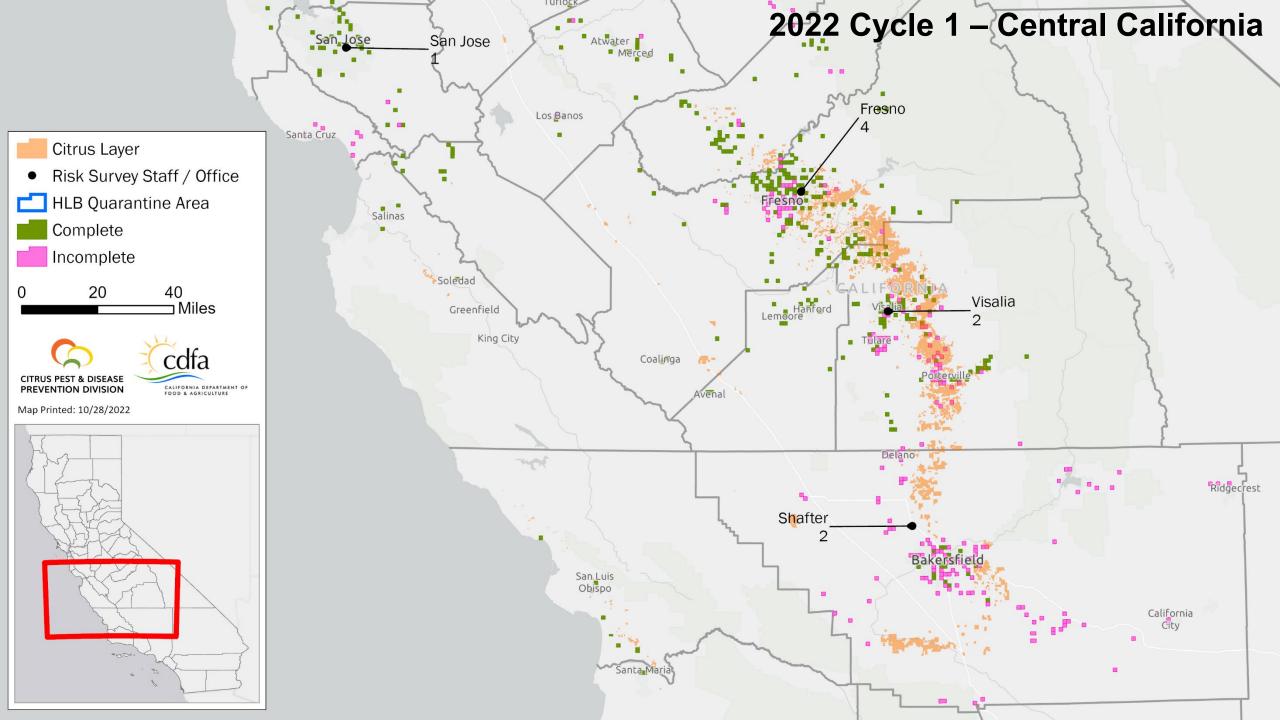
Risk Research Survey Update
California Citrus Pest and Disease Prevention Committee
November 9, 2022

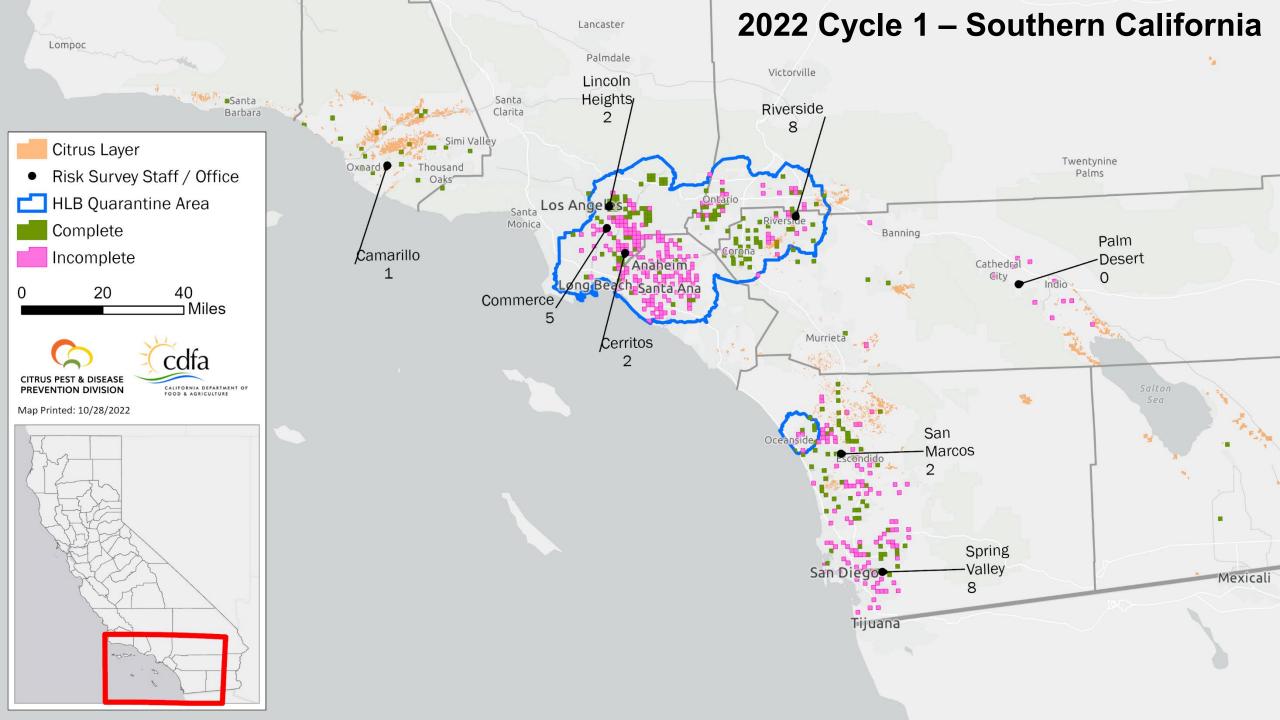
2022 Cycle 1



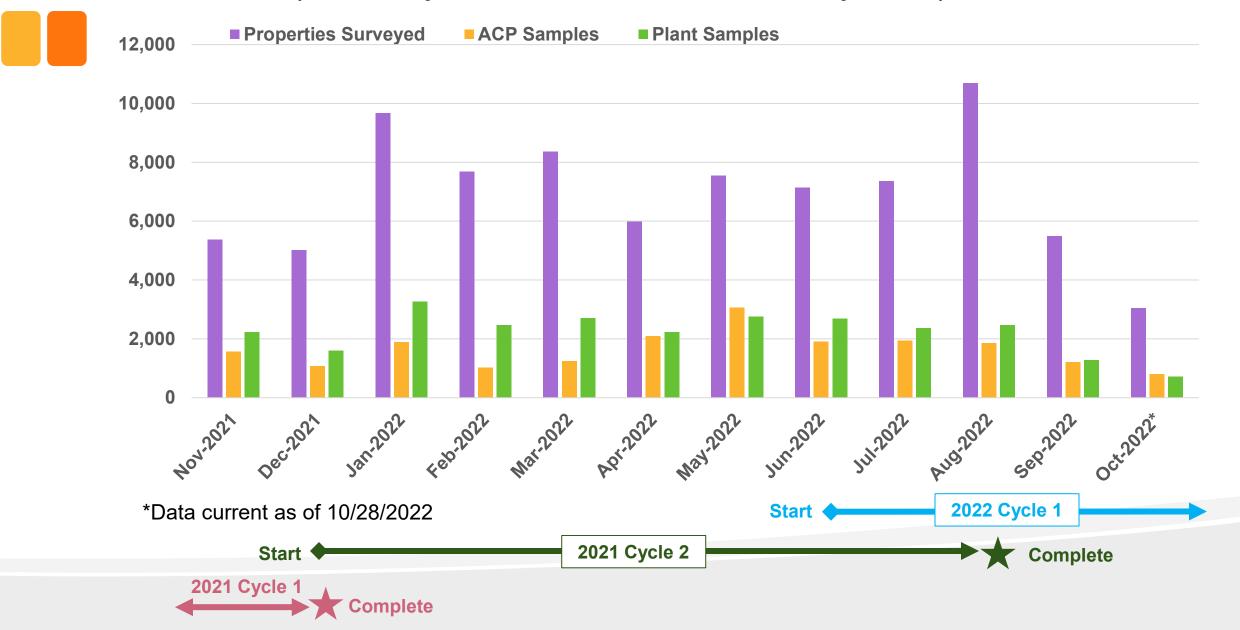
- Began June 2022
- 52% Complete
- Survey Complete in 16 of 42 Allocated Counties
- 19,584 Properties Visited
- 6,629 Properties Sampled
- 3,219 Entomology PDRs
- 4,282 Plant PDRs







Statewide Trends (2021 Cycle 1 and 2, and 2022 Cycle 1)





Operational Update

CPDPC Meeting

November 9, 2022

Southern District



Delimitation Survey

County	Areas surveyed in the cities of
Orange	Anaheim, Tustin, Santa Ana, Orange, and Westminster
	Duarte, El Monte, Norwalk, San Gabriel, La Mirada, Montebello, Pico
Los Angeles	Rivera, Whittier, and Paramount
San Bernardino	Fontana and Chino
Riverside	Jurupa Valley and Corona

Delimitation Treatments

County	Areas treated in the cities of
Orange	Fountain Valley, Irvine, Anaheim, Garden Grove, Fullerton, Santa Ana, Tustin, Westminster, and Orange
Los Angeles	Whittier, La Mirada, San Gabriel, Duarte, Paramount, El Monte, Montebello, Pico Rivera, and Rolling Heights
San Bernardino	Chino and Fontana
Riverside	Jurupa Valley and Corona



Southern District

HLB Positive Trees

County	Trees Removed (Sept - Oct)	Cumulative Pending Trees*
Orange	107	36
Los Angeles	53	79
San Bernardino	18	3
Riverside	27	11
San Diego	0	0
TOTAL	205	129

^{*} In the process of scheduling the removals. This number includes trees at the Refusal Properties.

Quadrant Samples – Find Site, Adjacent, Inconclusive (Sept - Oct)					
Orange	485				
Los Angeles	1,131				
San Diego	4				
Riverside	310				
San Bernardino	581				
Total	2,511				



Southern District



Detection and Treatment Updates

- Treatments around the commercial citrus groves(TACCG) were completed in San Bernardino, UCR, Hemet, and San Pasqual.
- Treatments in the 2-mile buffer along the US/MEX border in San Diego were also completed at the end of October.
- First HLB positive tree was detected in Artesia, Los Angeles County.

Public Meetings

Date	County/Areas	Purpose
9/20/2022	Los Angeles and Orange Counties	Delimitation Treatments
10/04/2022	Riverside and San Bernardino Counties	Delimitation Treatments
10/18/2022	Los Angeles and Orange Counties	Delimitation Treatments
11/1/2022	Riverside and San Bernardino Counties	Delimitation Treatments



Central District



County ACP Detections

• ACP detections from September 21, 2022 – October 31, 2022

County	# Detections*	Treatment	Public Meeting
Fresno	1	No – Reg. Incident	No
Kern	53	Yes	Yes
Madera	1	Yes	Yes
San Luis Obispo	6	Yes	Yes
Tulare	5	Yes	Yes



Central District



ACP Detection trapping

- > Fresno and Madera Counties Ongoing.
- ➤ In Ventura County, staff deployed "No-Mess" traps alongside the yellow panel traps for the trap catch comparison trial.
- ➤ Kern County deployed "No-Mess" traps the week of October 24.

ACP Delimitation trapping

- Fresno County Ongoing.
- Kern County Ongoing.
- Madera County Just began, on weekly servicing schedule.
- > Tulare County Ongoing.
- San Luis Obispo County Ongoing.



Central District



ACP Treatment

- > Treatment is ongoing for all the residential detections.
- ➤ Public meetings were held on October 11 for Kern County, October 25 for SLO County, November 2 for Tulare County, and November 9 for Madera County.
- Ventura and Santa Barbara treatment around commercial citrus groves was completed.

Biocontrol

Tamarixia released in Fresno, Kern, San Luis Obispo, Santa Barbara, and Tulare Counties.

HLB Risk-Based Research Survey

Staff continue to work on 2022 cycle 1.

Citrus Commodity Survey

Surveys began in September.

CYVCV Survey

Surveys resumed September 27 with a focus on the 7-mile arc to delimit how widespread the virus is.



Northern District



ACP Detection

- Ongoing trapping in Placer, San Joaquin, and Stanislaus Counties.
- Winter trapping started November 2022, will continue through April 2023.

ACP Delimitation

- Ongoing delimitation in Alameda County.
 - No subsequent detections.
 - 127 traps serviced monthly, ending in December 2022.
- Ongoing delimitation in Santa Clara County.
 - Detections ongoing, traps serviced monthly.
 - Delimitation expanded by 3 square miles to the southeast of the previous area.

Biocontrol

- Tamarixia releases ongoing in San Jose, Santa Clara County.
- Average 5,500 releases monthly.

HLB Risk Survey

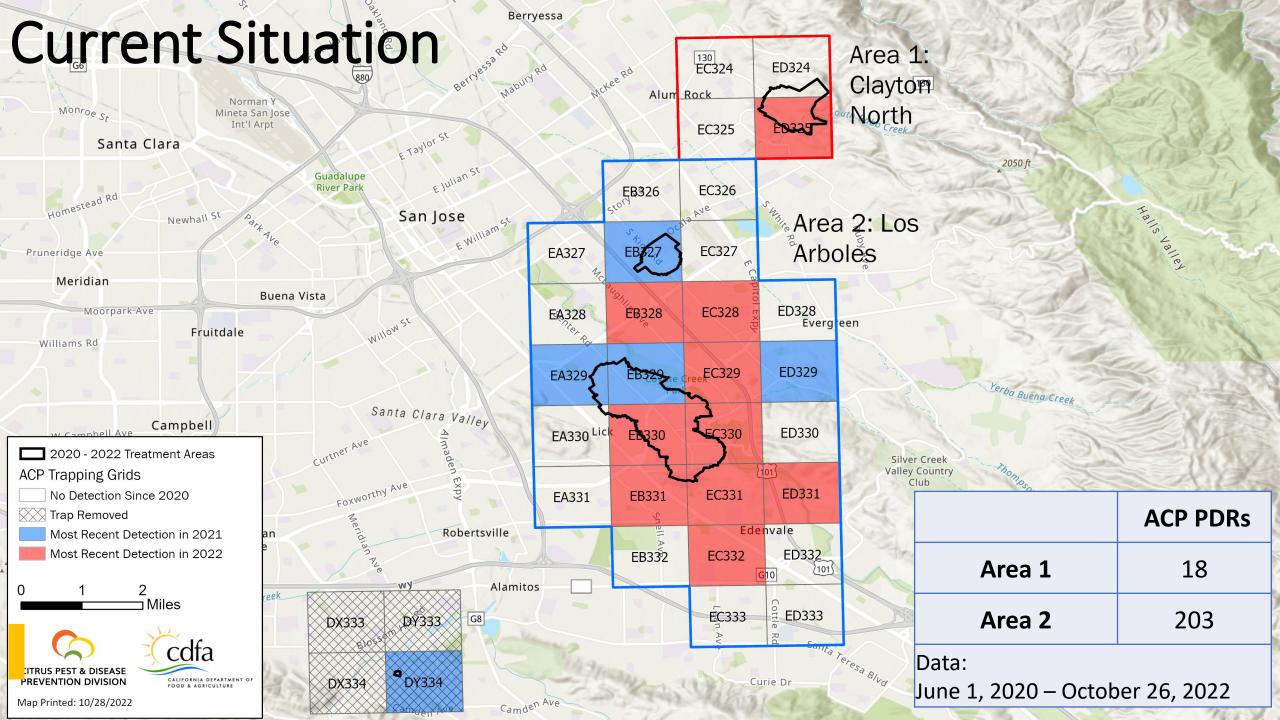
- > 2022 Cycle 1 is 60% complete as of October 24.
- Surveying continues in 17 counties.



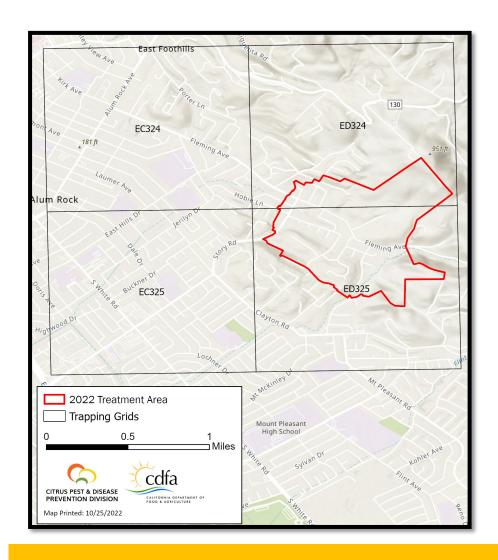
Update: Santa Clara County Clayton North and Los Arboles Delimitations







Area 1: Clayton North

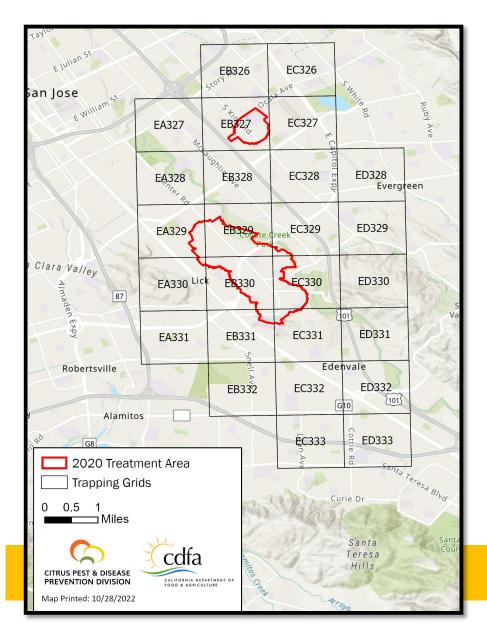


- 18 ACP detections confirmed.
- Possible epicenter: Fleming Avenue, grid ED325.
 - 12/18 PDRs confirmed from two properties.
- Previous treatment:
 - April May 2022

Area 1 Options 2022:

- 1. Continue monitoring and releasing parasitoids.
- 2. Treatment of find sites and adjacent properties
 - Estimated cost: ~\$3,000 (Contractor)
- 3. Treatment of 400 meters surrounding each detection.
 - Estimated cost: ~\$61,000 (Contractor)

Area 2: Los Arboles



- 203 ACP detections confirmed.
 - 42 ACP confirmed since September 2022.
- December 2020: treatment ceased.
- Possible epicenter: grid EC330.
 - 19/42 ACP confirmed since September 2022.
- Visual survey of new find sites and adjacent properties.

Area 2 Options 2022

- 1. Continue monitoring, expanding, and releasing parasitoids.
 - Relocate traps from inactive sites or hosts.
- 2. Slow the spread-type strategy using current parasitoid allotment.
- 3. Treatment of find sites and adjacent properties
 - Estimated cost: ~\$52,000 (Contractor)
- 4. Treatment of 400 meters surround each find site.
 - Estimated cost: ~\$376,000 (Contractor)

QUESTIONS?



Asian Citrus Psyllid Biocontrol Update



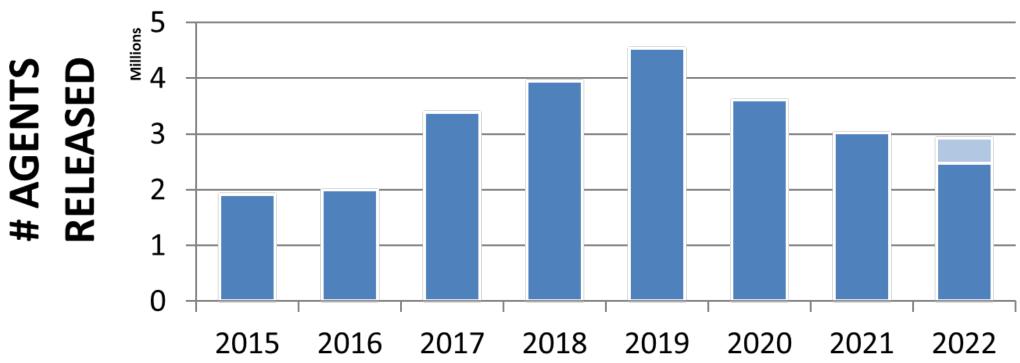
October 2022



Tamarixia Releases in California

Total Releases by Year

With Estimate of Remainder of This Year's Release





Biological Control Agent Releases

December 2011 – November 2022

	Releases, 2022	Releases	2011-2022
County	T. radiata	Tamarixia	D. aligarhensis
	Released	Released	Released
Imperial	60,200	579,343	10,295
Los Angeles	667,394	7,249,909	107,734
Orange	584,900	5,548,776	71,179
Riverside	242,600	3,775,202	127,739
San Bernardino	192,180	1,995,855	57,252
San Diego	230,876	2,955,164	86,403
Ventura	171,600	2,201,656	16,830
Santa Barbara	98,700	329,182	12,012
Kern	76,000	300,164	0
Santa Clara	68,300	203,437	0
Placer	0	3,400 0	
San Luis Obispo	9,600	119,100	0
Tulare	16,400	52,400	0
Fresno	13,400	13,400	0
Monterey	0	14,400	0
Arizona	49,400	209,500	0
Mexico	0	306,000	0
TOTAL	2,481,550	25,856,888	489,444
	TOTAL (2011-2021):		26,346,332



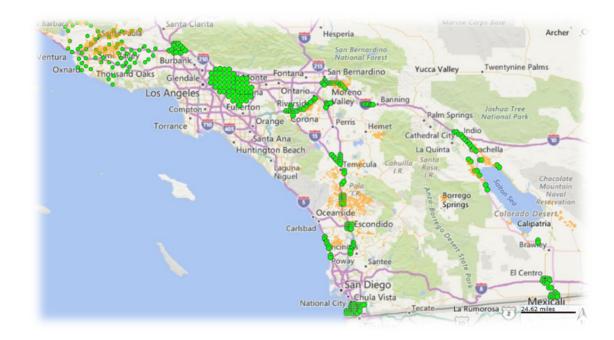
Biological Control Agent Release Areas

Releases in:

- HLB Quarantine areas
- Borders
- Trade routes
- Area-wide management
- Newly established ACP

Changes 2022:

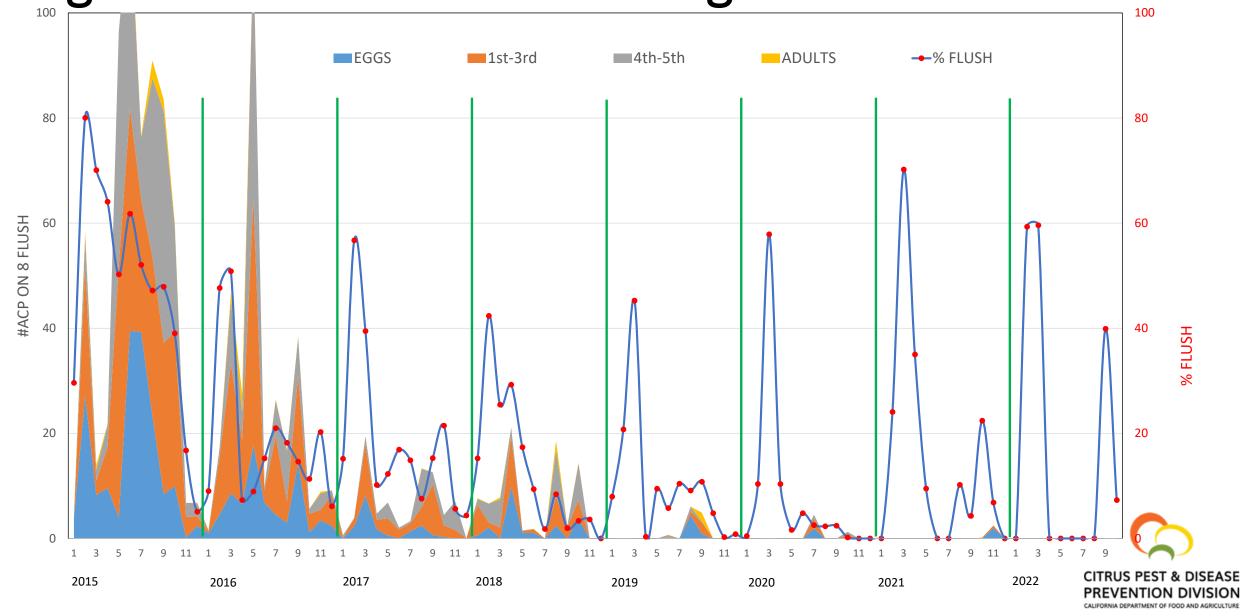
- Fewer releases, larger numbers
- Rapid response:
 - Canine Alerts
 - PDR clusters
 - New cities



Release Type	2021		e 2021		20	22
	# Agents %		# Agents	%		
Borders	92,634	3	109,600	4		
HLB	2,456,592 81		1,917,950	78		
New	135,355	4	170,300	7		
Routes	339,244	11	270,300	11		



Region-Wide Urban Monitoring 2015 - Present







Recent Outreach Activities



Homeowner Outreach Activities

What to Expect Video

- Newly developed "What to Expect" video targeted toward homeowners to educate them on CPDPD activities.
 - o Surveying, sampling and treatment
 - Virtual public meeting
- New video more accurately represents what the current protocols look like in residential areas.









Homeowner Outreach Activities

HLB Quarantine Outreach

- Outreach strategies in areas with first HLB detections in Southern California.
 - Quarantine expansions
- Targeting publications in areas with new detections, including South El Monte and Pomona.





Community Events and Homeowner Engagement

- Goleta Lemon Festival
- Historic Citrus Park Celebration
- Targeted Homeowner Outreach
 - Coordinating with Grower Liaisons on opportunities for homeowner outreach in areas experiencing recent ACP detections or population spikes.
 - Deploying social media ads in targeted zip codes as a way to reach residents in areas with survey or treatment refusals.
 - Running radio ads in English and Spanish to raise awareness about the ACP and HLB.



Elected Official Outreach Activities

Events and Conferences

- League of California Cities
- California State Association of Counties conference
- Arroyo Grande Festival
 - Coordinated with San Luis Obispo County Agricultural Commissioner's office on outreach materials.



Deskside Briefings and Meetings

- Monrovia, Arcadia and Duarte Town Council meeting presentation
- Ventura County Public Information Office staff briefing



Industry Outreach Activities

Grower Liaisons and Connecting with Industry Members

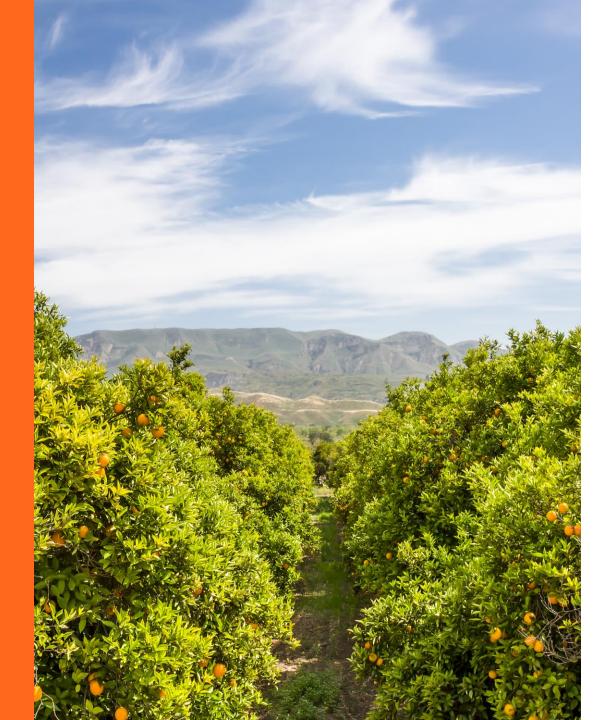
- Grower Liaison Outreach Meeting
 - Assisted in meeting with CPDPD and Grower Liaisons on SOP development
- CAPCA Annual Conference
- CYVCV Outreach and Coordination



Virtual Packinghouse Meeting

- Coordinated virtual packinghouse meeting to communicate regulatory processes
 - Presentations from CPDPD,
 California Citrus Mutual, Ventura
 County Ag Commissioner
 - o 24 attendees





Science Advisory Panel Facilitation

- Citrus Pest and Disease Prevention Committee SAP Recommendations Workshop:
 - Pre-survey development and review of all recommendations prior to meeting.
 - Coordination with CPDPD on meeting details.
 - Meeting facilitation preparation.
 - Work plan preparation.



Current and Upcoming Activities

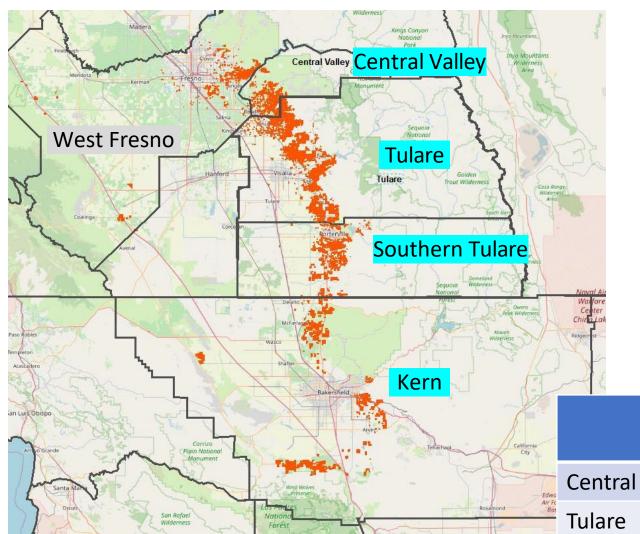
- California State Association of Counties Conference
- City of Chino staff briefing
- Elected official curated content distribution
- Post-election elected official partner database evaluation
- Mountain Mandarin Festival
- PSA Digital and Broadcast Distribution
- CaliforniaCitrusThreat.org refresh

- San Diego County Farm Bureau 8th annual Farm & Nursery Expo
- Latino Farmer Conference
- CCN Pro study guide development
- FY 2021-2022 Annual Report
- Citrus Insider Fruit for Thought Newsletter
- Nursery tree tag development
- Field crew supervisor Spanish language trainings for ACP scouting









SJV Pest Control Districts ACP/HLB Survey

Sept-Oct 2022

PCD	#Traps	#Vials	#ACP	#Tree Inspected
Central Valley	200	139	0	1,175
Tulare	200	136	0	1,205
Southern Tulare	200	163	0	1,315
Kern	402	266	0	2,309
Total	1,002	704	0	6,004



Citrus yellow vein clearing virus (CYVCV)



Dr. Ray Yokomi (USDA-ARS, Parlier)

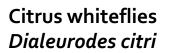
Cotton/melon aphids Aphis gossypii



Transmission studies:

Spirea/Green aphids A. spiraecola









Host Range studies:

Eureka Lemon	Murcott or Tango
Lisbon Lemon	Nules Clementine
Washington Navel orange	Minneola
Valencia Sweet orange	Chandler pummelo
Star Ruby Grapefruit	



Citrus Yellow Vein Clearing Virus (CYVCV) Survey Update

Kelley Aubushon – CDFA Senior Environmental Scientist Supervisor, Visalia

CYVCV Timeline in California

- 1st suspect sample sent to USDA.
- CDFA initiated 400-m survey (core).

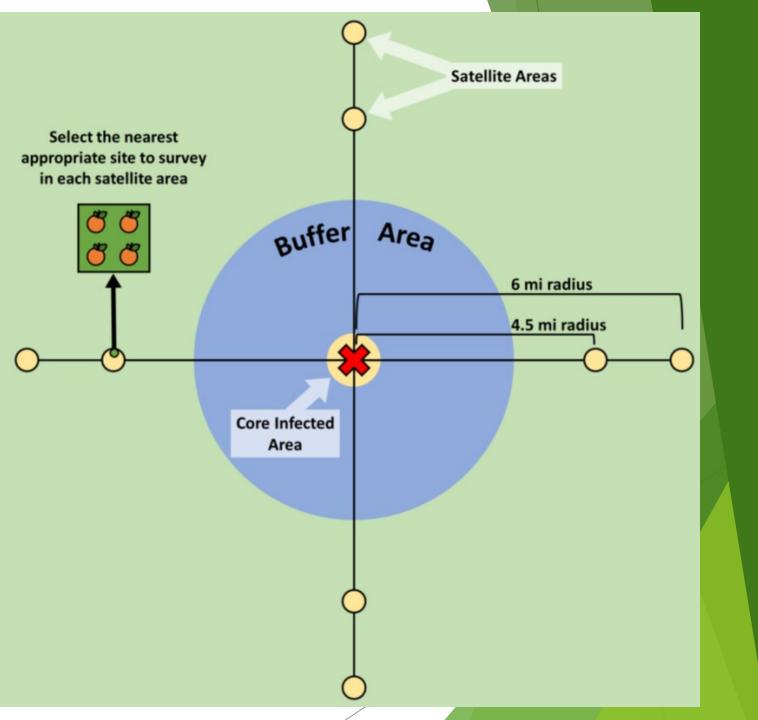
March

April

- USDA confirmed CYVCV.
- CDFA expanded core to 1-mile.
- CDFA started satellite and 3-mile buffer surveys.

- Travel census surveys in Fresno, Kings, & Tulare counties.
- Commercial grove surveys in Fresno & Tulare counties.
- CYVCV detected in 3mile buffer survey, triggered core 2.

May



CYVCV Survey Overview

- Core 1-mile survey.
- ► 3-mile buffer survey.
- Satellite survey at 4.5& 6 miles.
- Precautions are taken when collecting samples.



Core 1 and 2

- ▶ 1-mile delimitation survey.
- Sample every citrus host.
- Goal is 100% contact with every property.

3-Mile Buffer Survey

- Grids are 1 mile square.
- Samples collected from symptomatic citrus hosts, if vectors are present, or asymptomatic species (trifoliate or jiaogan).



Census Grid Overview Map 5/11/2022 Census Survey Grids Core Survey Area Risk Survey Office

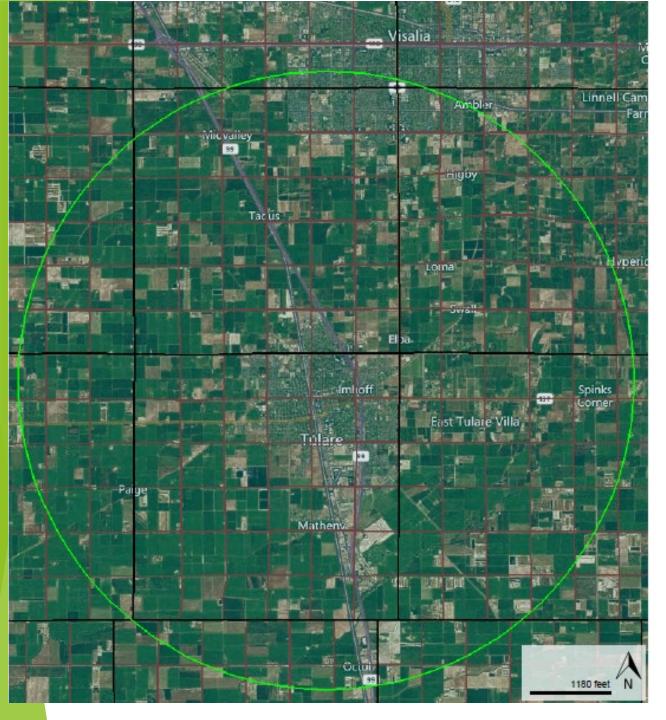
Census Survey

- This survey is based on USDA census data and predicts areas of high risk for CYVCV.
- Surveys in Visalia, Tulare, Hanford, Corcoran, Delano, Fresno, and Clovis.
- Samples collected from symptomatic citrus hosts, if vectors are present, or asymptomatic species (trifoliate and jiaogan).

CYVCV Survey Results – As of September 8

Survey Area	Total Properties	Completed Properties	Host Properties	No Host Properties	Total Host Trees	Total Samples Collected	Positive Samples
Core 1	20,678	2,826	702	2,124	1,581	1,239	300
Core 2	4,759	1,660	463	1,197	1,170	1,080	278
Total	25,437	4,486	1,165	3,321	2,751	2,319	578

Survey Area	County	Total Number of Groves Surveyed	Total Acres Surveyed	Total Trees in the Orchard	Total Trees Surveyed	Total Samples Collected
Commercial Grove (outside the buffer)	Tulare	30	396	72,790	8,180	7
Commercial Grove	Fresno	30	379	68,186	8,357	26
Total		60	775	140,976	16,537	33



7-Mile Arc Survey

- 7-mile arc centered on merged core.
- All parcels that touch the arc are surveyed.
- Samples are collected from all citrus hosts.

CYVCV 7-Mile Arc Survey Results – As of October 21

Survey Time Period	Total Properties	Completed Properties	Host Properties	No Host Properties	Total Host Trees	Total Samples Collected
9/27-10/6	159*	139	21	118	66	66
10/7-10/20	194*	144	51	93	167	163**
Total	353*	283	72	211	233	229

^{*}Estimated number.

^{**}Some trees were too small to sample.









