CONSENT AGENDA

1. Minutes approval from November 10, 2021 meeting

CITRUS PEST AND DISEASE PREVENTION COMMITTEE (CPDPC) WEBINAR MEETING

Meeting Minutes Wednesday, November 10, 2021

Committee Members Present:

Craig Armstrong	John Gless	Jared Plumlee
Kevin Ball	John C. Gless	Dr. Etienne Rabe
Brad Carmen	Jim Gorden	Gregorio Rundini
Aaron Dillon	Nick Hill	Roger Smith
Bob Felts Jr.	Mark McBroom	Keith Watkins

Committee Members Absent:

None

CDFA Staff:

Kelley Aubushon	Anmol Joshi	Lydia Rodriguez
Carl Baum	Marina Kaiser	Briana Russell
Fernando Berber	Sara Khalid	Heather Scheck
Karina Chu	Sarah Kraft	Claudia Vazquez
Amelia Everett	Lucita Kumagai	Jennifer Willems
Alisha Garcia	Zachary McCormack	Amelia Wright
David Gutierrez	Keith Okasaki	Helene Wright

Victoria Hornbaker David Phong

Laura Irons Grace Radabaugh

Guests:

Price Adams	Jessica Leslie	Sylvie Robillard
Teri Blaser	Dylan Lomanto	Cressida Silvers
Leah Cochran	Magally Luque-Williams	Ned Thimmayya
James Cranney	Marcy Martin	Greta Varien
Lisa Finke	Margaret O'Neill	Judy Zaninovich
Melinda Klein	Sandra Olkowski	Sandra Zwaal

Melissa Cregan Curtis Pate

Opening Comments

The committee meeting was called to order at 9:01 a.m. via webinar. Jim Gorden welcomed the committee, staff, and members of the public participating 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 September 22, 2021 Committee meeting.

Motion: To approve the consent agenda as presented.

First: Kevin Ball

Second: John C. Gless

Motion Carries: The motion passed unanimously.

FINANCE SUBCOMMITTEE REPORT

Review 2020/2021 Budget Expenditures and Revenue

Bob reported a \$1,900,000 increase in budget expenditure since last month with a total of \$28,221,801 for Fiscal Year (FY) 2020-21. He explained that Fi\$Cal has projected a total expenditure of \$29,969,000 compared with the expected total expenditure of approximately \$32,000,000.

Bob reported that revenue for FY 2020-21 has increased by \$768,000 since the previous month to a total of \$15,502,635. He noted that there is only \$705,000 to meet the \$16,200,000 projected total revenue. He added that despite the large amount of fruit drop, the total projected revenue is still expected to be met.

Review 2021/2022 Budget Expenditures and Revenue

Bob reported \$3,000 in total budget expenditure so far in FY 2021-22. He explained that there is no current revenue to report for FY 2021-22 due to harvesting just starting.

Macia's, Gini, & O'Connell Report

Leah Cochran presented the Macia's, Gini, & O'Connell (MGO) scope of work which includes analysis of the current manual tracking system of expenditures and made recommendations for improved tracking for the California Department of Food and Agriculture's (CDFA) Citrus Pest and Disease Prevention Division (CPDPD). The analysis included a review of funding sources and fund condition, a review of expenditures and expenditure tracking, an analysis of the current expenditure tracking process to determine if the existing protocol adequately captures expenditures for program activities, and advice on improving expenditure tracking and expenditure forecasting. Based on the review of the fund sources and condition report presented, MGO recommends that the fund condition statement report be presented to the Committee on a bi-annual basis and that the fiscal year be adjusted to align with the state fiscal year end of June 30th. Leah also noted that the use of manual tracking is redundant and unnecessary (apart from tracking of payroll, vehicle transactions, utilities and gas purchases) and results in errors, as the data was not reconcilable to Fi\$Cal. MGO recommends that expenditure tracking be based on Fi\$Cal data with preliminary results for July through September presented to the Committee with following adjustments presented by month (if material).

Review National Agricultural Statistics Service Crop Report and Crop Estimate

Victoria presented the FY 2021-22 projected crop estimate with National Agricultural Statistics Service (NASS) comparisons. Navel oranges were projected at 72,350,000 cartons compared to the NASS projection of 70,000,000. Lemons were projected at 46,600,000 cartons compared to the NASS projection of 42,000,000. Mandarins were projected at 38,000,000 cartons compared to the NASS projection of 42,000,000. Valencias were projected at 18,600,000 cartons compared to the NASS projection of 17,000,000. Grapefruits were projected at 8,600,000 cartons compared to the NASS projection of 7,800,000. The total cartons estimated were 184,450,000 compared to the NASS projection of 178,800,000. With the assessment rate of \$0.07 per carton, there is an approximate \$400,000 difference in between the Citrus Research Board (CRB) projected revenue and NASS projections.

EXECUTIVE COMMITTEE REPORT

CPDPC Bylaws Discussion

Victoria stated that there is an ongoing discussion about making edits to the bylaws in the Executive Committee meetings, but there was no consensus on making edits.

CEQA Decision and Impacts to CDFA

Ned Thimmayya reported that on November 15, 2021 the Third District Court of Appeals will issue a decision regarding CDFA's Program Environmental Impact Report (PEIR) litigation following pending appeals on whether the PEIR complies with the California Environmental Quality Act (CEQA). CDFA did not prevail on all counts of the appeal, so on November 24, the case will be remanded back to the trial court where the court will issue the new judgement. Ned explained that when the decision becomes final, the stay will be lifted on the trial court injunction that prohibited the CDFA from relying on the PEIR for program activities directly taken by the Department. Victoria explained that current CPDPD activities may proceed under alternative CEQA compliance guidelines.

Establish Nominating Committee for January Elections

Jim explained that a nominating committee was recommended and agreed upon by the CPDPC to ensure an adequate number of Committee Officer candidates for election. Roger Smith and John C. Gless have volunteered to tentatively lead the initial Nominating Committee.

Motion: To establish Roger Smith and John C. Gless as the Nominating Committee for the

January Executive Committee elections.

First: Dr. Etienne Rabe **Second:** Jared Plumlee

Motion Carries: The motion passed unanimously.

OPERATIONS SUBCOMMITTEE REPORT

Staffing Challenges (Seasonal/Permanent)

Victoria explained the challenges of hiring seasonal staff include the low rate of pay, limitations of working only 189 days per year, and working without benefits. Permanent positions include higher pay, no limitation to working days, and do receive benefits. In addition to difficulty hiring into seasonal positions, approximately 30-50 percent of seasonal employees leave employment to take better paying and permanent positions in other CDFA divisions or state agencies. She also noted that CPDPD does not have the authority to hire additional permanent positions above the 168 already approved positions. Additional permanent positions would need to be requested via a budget change proposal to the Governor's office.

Laboratory Update

Lucita Kumagai presented the laboratory update for the huanglongbing (HLB) testing program from the Plant Pest Diagnostics Center. 7,007 plant samples and 3,786 Asian citrus psyllid (ACP) samples were received in October, averaging 6,400 plant samples and 2,600 ACP samples per month. A total of 26,000 ACP samples were received this year with 29.47 percent from Los Angeles County, 27.02 percent from San Diego County, 18.85 percent from Riverside County, 9.47 percent from San Bernardino County, 7.22 percent from Orange County, and 7.09 percent from Ventura County. A total of 54,000 plant samples have been received this year with 19.07 percent from Los Angeles County, 18.83 percent from Orange County, 10.95 percent from San Bernardino County, 10.94 percent from Riverside County, 6.01 percent from Fresno County, 3.07 percent from Tulare County, 2.83 percent from Kern County, 2.80 percent from Imperial County, and 1.73 percent from Santa Clara County. Combined ACP and plant samples for this year equal a total of 79,392 samples at a 48 percent laboratory operating capacity. A total of 2,619 trees were found positive for HLB from 2012-2021 with the majority of HLB positive trees located in Los Angeles and Orange County areas.

HLB Risk Survey

David Phong presented data for 2020 risk survey cycle 2 and 2021 cycle 1. A total of 37 counties and 1,597 survey grids will be surveyed from November 2021 through April 2022. He explained that 2021 risk survey cycle 1 is 93 percent complete after beginning in mid-March 2021 with 32 of 36 allocated counties having been surveyed, 50,086 properties visited, and 24,901 properties sampled. Cycle 1 should be completed by the end of November 2021, at that time staff will begin working on 2021 risk cycle 2.

CDFA Operational Update

David Gutierrez presented the operational update including HLB delimitation survey and treatment areas for the Southern, Central, and Northern Districts. Riverside County has completed all re-treatments. San Diego County has also completed re-treatments with no new positive finds in that area, however 9 properties have refused treatment. Outreach letters are being sent out to the refusal properties while work begins on the abatement process. He explained that from August to October, a total of 118 trees were removed and 53 trees are scheduled and pending removal. Areawide treatments have been completed for the 2021 Summer and Fall cycle within the time frame and the 2022 Winter cycle will take place from mid-December through March 2022. Commodity survey will begin this month in the Southern District. Detection trapping is ongoing in Fresno and Madera Counties. Delimitation trapping is ongoing in Kern, Madera, and San Luis Obispo Counties with delimitation traps removed from Kings County in September. A total of 14 50-meter treatment areas have been completed in Kern County since July 2021. In Northern District, delimitation survey ended on October 15 in Contra Costa County with delimitation trapping continuing in Santa Clara County at 24 total grids, 549 total delimitation traps, and ongoing monthly *Tamarixia* releases. HLB risk survey is beginning in Sacramento, San Francisco, Santa Clara, Sonoma, Stanislaus, Tehama, and Yolo counties with winter trapping in 23 counties starting November 1. Year-round county trapping continues in three counties.

CDFA Regulatory and County Agreement Update

Keith Okasaki presented the county monthly activity report from July 2020 through June 2021. Keith reported FY 2020-21 has closed out and that overall inspections of growers, packers, and fruit sellers have increased in recent years. He says that only a few invoices have been received so far for FY 2021-22, but totals for the current year along with violation information will be reported at the next Committee meeting. He added that several counties have approached CPDPD for additional training for their inspectors. He explained the majority of violations are issued to haulers failing to properly safeguard fruit when hauling as well as violations issued to growers and packers for not meeting cleanliness standards or failure to notify offices of incoming and outgoing shipments.

Grower Liaison Update

Sara Khalid reported that there were no ACP finds for Fresno, Madera, or Northern and Southern Tulare Counties and that both grower liaisons have been continuing to update the Psyllid Management Area lists. In Kern County, there have been 4 ACP detections as of October 5 and all citrus growers within 800-meters of finds have made the requested treatments. In Ventura County growers continue with fall ACP area-wide treatments through mid-November while winter ACP area-wide treatment is scheduled to begin January 3, 2022. In San Bernardino County growers are also applying all ACP area-wide treatments with winter ACP area-wide treatments to begin mid-November. Sandra Zwaal met with the new San Bernardino County Agricultural Commissioner (CAC) and Deputies and was requested by the Redlands Citrus Preservation Committee to provide the committee with an ACP/HLB presentation to update newer committee members. In San Diego County, winter ACP area-wide treatments will begin in early January 2022. In Santa Barbara County, fall area-wide treatments have ended and winter area-wide treatments are scheduled for January 2022. There are no new

ACP detections in San Luis Obispo County. In Imperial County, area-wide treatments completed in September for conventional groves and in mid-October for organic groves. Curtis Pate also presented an ACP/HLB update at the recent Desert Valleys California Association of Pest Control Advisers meeting.

Biocontrol Update

Grace Radabaugh presented the ACP biocontrol update for October 2021. She reported that biocontrol releases have been impacted due to staffing issues, challenges regarding COVID-19 as well as supply-chain issues. Other problems encountered included an unusually high infestation of thrips, several power outages at both facilities, and an ant infestation in collaborator field cages. Despite challenges, staff have released approximately 3,000,000 *Tamarixia* this year with 1,800,000 released in Los Angeles and Orange Counties around HLB find areas and along major highways. Additionally, over 700,000 were released in Riverside, San Bernardino, San Diego, and Imperial Counties around border areas and highways. She reported that the Santa Maria ACP finds have been noted and that staff is working with Michael Soltero to conduct biocontrol releases in that area. Monitoring continues to be carried out at all 28 sites with almost no ACP detected. Research shows a 75 percent reduction of ACP at the 28 monitoring sites over the four-year monitoring study with the use of *Tamarixia* as a significant factor.

SCIENCE SUBCOMMITTEE REPORT

Effectiveness of Southern California HLB Program

Etienne reported that the Science Subcommittee is working on redefining the documentation for presentation to the CPDPC and will be worked into the Science Advisory Panel meeting.

Ethyl Formate Registration Update

Etienne explained that James Cranney advised the Science Subcommittee regarding administrative issues with the U.S. Environmental Protection Agency review of ethyl formate, however registration is still expected in Summer of 2022. James will be organizing a webinar with growers on November 19 to review the potential uses of ethyl formate.

Neonicotinoid Risk Mitigation Update

Etienne reported that Casey Creamer at California Citrus Mutual indicated that there is no movement or anything new to report.

DATOC Update

Etienne reported that Dr. Neil McRoberts had no new information to report. Holly Deniston-Sheets has taken another position and Rick Dunn will cover in her absence until a replacement is hired. Sandra Olkowski will also be working with DATOC and assisting Dr. Neil McRoberts at the laboratory as well.

Sweet Orange Scab (SOS) Biology and Regulatory Discussion

Keith Okasaki explained that the SOS Working Group was formed and tasked with evaluating the biology of SOS and the regulatory impacts of either a state interior quarantine or a state-wide quarantine. After presenting both scenarios, the Science Subcommittee recommends continuing the path of pursuing a state interior quarantine where the existing regulated areas would be transitioned to quarantines through regular rulemaking, with the caveat that the working group will reduce the size of the quarantine area from the current 5-mile radius to 1 or 1.5 miles based on SOS biology. Additionally, the working group will continue to pursue altering the triggering event that causes a quarantine or quarantine expansion by petitioning the United States Department of Agriculture (USDA) to consider the trigger to be detecting reproductive spores rather than a positive polymerase chain reaction test, petition USDA to lessen quarantine requirements to allow tarping in place of stem and leaf removal for growers, continue

research to minimize packinghouse procedures, and begin working with USDA on an exit strategy to remove areas from SOS regulation through survey.

Motion: To pursue regular rulemaking for a state Sweet Orange Scab (SOS) interior quarantine to transition existing SOS regulated areas to quarantine areas, with the caveat that the working group will reduce the size of the quarantine area from the current 5-mile regulated area radius to 1-mile radius based on SOS biology.

First: Mark McBroom Second: Keith Watkins

Motion Carries: The motion passed unanimously.

Program Review / Science Advisory Panel (SAP)

Etienne reported that a list of potential panel members was identified and will be presented to Secretary Ross for selection and approval. Each candidate must be contacted to ascertain willingness to serve if selected. The program will include subject matter experts to advise the SAP and present pertinent program information to the SAP. A funding total of \$20,000 will be required for travel, accommodation, and honoraria. The panel will likely meet between early February and the end of March 2022 in Sacramento, CA. While the details of the program still need to be agreed upon, details will be discussed at a 2-day in-person meeting followed by a virtual meeting to complete a report. The tentative itinerary and scheduling were discussed by the Committee.

Motion: To approve a \$20,000 budget for travel, accommodation, and honoraria for Science

Advisory Panel members with invoices to be reviewed by the Executive Committee.

First: Aaron Dillon Second: Mark McBroom

Motion Carries: The motion passed unanimously.

OUTREACH SUBCOMITTEE REPORT

Outreach and Education

Price Adams reported that in-person outreach opportunities are back for the Citrus Pest and Disease Prevention Program (CPDPP), including booths at the Crop Consultant Conference, Oceanside Harbor Days, California Contract Cities Association, League of California Cities, and San Diego Farm Bureau Farm and Nursery Expo. Based on the recent HLB detection and quarantine expansion in San Diego County, Nuffer Smith Tucker (NST) coordinated outreach efforts directed toward homeowners, industry members, and elected officials. NST also worked very closely with the CAC's office for 48 additional earned media coverage outlets. NST also coordinated a hybrid in-person and virtual San Diego County Grower Meeting with presentations by Grower Liaison Sandra Zwaal, CDFA, San Diego CAC, University of California (UC) and San Diego Pest Control District. In ongoing media outreach, interviews were secured in San Luis Obispo regarding *Tamarixia* releases as well as with KEYT, featuring CDFA and a local Santa Barbara grower, and Kern Valley Sun. NST also held several deskside briefings with city officials in Oceanside, Vista, and Carlsbad. The City of Oceanside and Imperial County Deputy CAC Nelson Perez were also honored as the recipients of the recent Citrus Hero Awards. NST is currently working toward developing social media influencer plans, a refresh of CaliforniaCitrusThreat.org, including improved user experience and search engine optimization, homeowner outreach plan development with multicultural outreach and education, and retail nursery education.

USDA UPDATE

Helene Wright reported that USDA is still under a continuing resolution.

CRB REPORT

Marcy Martin introduced Melinda Klein to review the Citrus Research and Field Trial project rollout. Melinda announced that a position for a project manager has been advertised to help with this project. She stated that they had calls with USDA regarding data management with assistance from CPDPD. Marcy also announced that Dr. Monique Rivera will be leaving her position with the UC and that an advertisement to fill her current position will be posted in early 2022.

CITRUS PEST DETECTION PROGRAM REPORT

Dr. Subhas Hajeri presented the San Joaquin Valley Pest Control District updates for the Citrus Pest Detection Program by Central California Tristeza Eradication Agency. He explained the primary focus of the program is on ACP and HLB survey. Since starting survey using 3D traps, 2,244 traps have been deployed to all districts with 20,761 trees visually inspected. He added that a decrease in the number of visits to districts and visual inspections in the month of July was due to restrictions and concerns regarding COVID-19.

RECAP OF ACTION ITEMS FROM THIS MEETING

ACTION ITEM: Victoria will review the process of moving to state Fi\$Cal reporting at the Finance Subcommittee Meeting on December 7, 2021.

ACTION ITEM: The use of spray and move treatment material will be discussed at the Interim Science Subcommittee Meeting on December 7, 2021.

ACTION ITEM: Committee members interested in elected positions will be discussed at the Committee Meeting on January 12, 2022.

CLOSING COMMENTS AND ADJOURNMENT

There were no closing comments. The meeting adjourned at 11:57 a.m.



FY 20-21 September 2021 Expenditures Actuals

#	Group	Region	Activity	•	tember 21 nditures per FI\$Cal	Year to Date Expenditures per FI\$Cal	Committee Approved 2021 Budget	Remaining 2021 Budget
1	ACP Mgmt	Border	Treatment	\$	20,320	\$375,187	\$421,024	\$45,837
2	ACP Mgmt	Central	Survey	\$	84,297	\$2,050,152	\$2,601,010	\$550,858
3	ACP Mgmt	Central	Treatment	\$	4,433	\$434,708	\$1,601,677	\$1,166,969
4	ACP Mgmt	Northern	Survey	\$	59,759	\$1,290,701	\$2,128,360	\$837,659
5	ACP Mgmt	Northern	Treatment	\$	5,163	\$441,552	\$308,976	-\$132,576*
6	ACP Mgmt	Southern	Treatment	\$	60,340	\$950,934	\$1,619,827	\$668,893
7	ACP Mgmt	Southern	Survey	\$	23,368	\$252,944	\$326,415	\$73,471
8	ACP Mgmt	Statewide	Biocontrol	\$	164,443	\$1,107,196	\$1,692,114	\$584,918
9	ACP Mgmt	Statewide	Survey	\$	260,241	\$1,297,065	\$2,045,040	\$747,975
10	ACP Mgmt	Statewide	Regulatory	\$	165,020	\$2,040,866	\$3,511,529	\$1,470,663
11	HLB Det	Border	Survey	\$	22,191	\$238,146	\$263,732	\$25,586
12	HLB Det	Southern	Survey	\$	98,903	\$1,238,871	\$2,112,023	\$873,152
13	HLB Det	Statewide	Survey	\$	400,661	\$3,495,599	\$5,901,947	\$2,406,348
14	HLB Det	Statewide	Diagnostics	\$	133,658	\$3,190,502	\$3,322,772	\$132,270
15	HLB Erad	Southern	Treatment	\$	118,063	\$2,906,348	\$4,224,668	\$1,318,320
16	HLB Erad	Statewide	Regulatory	\$	41,190	\$577,421	\$928,610	\$351,189
17	ACP/HLB	Statewide	Admin	\$	616,441	\$6,047,758	\$5,812,114	-\$235,644**
18	ACP/HLB	Statewide	Outreach	\$	3,738	\$1,091,531	\$1,672,926	\$581,395
19	ACP/HLB	Statewide	Data Analysis	\$	60,360	\$747,124	\$1,620,510	\$873,386
20	ACP Mgmt	Statewide	Diagnostics	\$	14,583	\$152,385	\$165,988	\$13,603
			Totals	\$2	,357,172	\$29,926,990	\$42,281,262	\$12,354,272

October 2020 to September 2021 are closed in FI\$Cal

^{*}Group 5 expenditures are higher than the approved budget primarily due to (MACx Reports) time accounted on the project by staff.

**Group 17 expenditures are higher than the approved budget primarily due to ETR of staff salaries and benefits

FY 20-21 Expenditure Summary

September 2021 Expenditures		FY 19-20 Prior Year Comparison	Variance
September 2021 Expenditures Incurred	\$2,357,172	\$1,465,602	60%
Total Expenditures Incurred to Date (through September 2021)	\$29,926,990	\$20,732,458	44%

FY 20-21 December 2021 Revenue Summary

Month of December 2021 Revenue Metrics

Revenue Received In the Month of November and December 2021 (For the month of September 2021)

\$19,938

Total Revenue Received to Date (through December 2021)

\$15,548,341

FY 20-21 December 2021 Metrics

Month of December 2021 Revenue Metrics				
November 2021 & December 2021 Revenue	\$19,938			
FY 19-20 Prior Year December Revenue	\$18,012			
Variance	10%			

Year to Date December 2021 Revenue Metrics					
Year to Date Revenue	\$15,548,341				
FY 19-20 Prior Year-To-Date Revenue	\$18,486,063				
Variance	-15%				

Projected Revenue Metrics						
2021 Projected Revenue	\$16,208,000					
Percentage of Projected Revenue Received to Date	96%					
Outstanding Balance	\$659,658					

Significant variance for revenue is due to assessment rate change from \$0.09 to \$0.08



FY 21-22 December 2021 Expenditures Actuals

#	Group	Region	Activity	Expen	ember 21 ditures per FI\$Cal	Year to Date Expenditures per FI\$Cal	Committee Approved 2022 Budget	Remaining 2022 Budget
1	ACP Mgmt	Border	Treatment	\$	959	\$13,390	\$625,046	\$611,656
2	ACP Mgmt	Central	Survey	\$	43,803	\$509,847	\$2,659,168	\$2,149,321
3	ACP Mgmt	Central	Treatment	\$	4,302	\$28,053	\$1,290,726	\$1,262,673
4	ACP Mgmt	Northern	Survey	\$	3,525	\$161,929	\$1,540,124	\$1,378,195
5	ACP Mgmt	Northern	Treatment	\$	3,229	\$10,670	\$445,718	\$435,048
6	ACP Mgmt	Southern	Treatment	\$	147,401	\$338,676	\$1,815,452	\$1,476,776
7	ACP Mgmt	Southern	Survey	\$	4,825	\$47,167	\$281,149	\$233,982
8	ACP Mgmt	Statewide	Biocontrol	\$	5,456	\$136,824	\$1,686,369	\$1,549,544
9	ACP Mgmt	Statewide	Survey	\$	-	\$1,719	\$3,000,000	\$2,998,281
10	ACP Mgmt	Statewide	Regulatory	\$	38,985	\$400,497	\$3,215,894	\$2,815,397
11	HLB Det	Border	Survey	\$	-	\$11,709	\$212,795	\$201,086
12	HLB Det	Southern	Survey	\$	7,080	\$208,515	\$2,084,691	\$1,876,177
13	HLB Det	Statewide	Survey	\$	12,547	\$800,561	\$6,532,228	\$5,731,666
14	HLB Det	Statewide	Diagnostics	\$	5,050	\$299,501	\$3,338,979	\$3,039,478
15	HLB Erad	Southern	Treatment	\$	16,219	\$797,772	\$5,361,616	\$4,563,844
16	HLB Erad	Statewide	Regulatory	\$	55	\$98,207	\$826,945	\$728,737
17	ACP/HLB	Statewide	Admin	\$	158,291	\$1,051,740	\$5,852,176	\$4,800,436
18	ACP/HLB	Statewide	Outreach	\$	127,286	\$216,570	\$2,063,377	\$1,846,807
19	ACP/HLB	Statewide	Data Analysis	\$	-	\$108,245	\$1,547,305	\$1,439,060
20	ACP Mgmt	Statewide	Diagnostics	\$	47	\$27,055	\$209,052	\$181,997
			Totals	\$5	579,062	\$5,268,647	\$44,588,810	\$39,320,163

October 2021 to December 2021 are not closed in FI\$Cal, totals subject to change

FY 21-22 Expenditure Summary

	December 2021 Expenditures		FY 20-21 Prior Year Comparison	Variance
	December 2021 Expenditures Incurred	\$579,062	\$1,935,553	-70%
The second	Total Expenditures Incurred to Date (through December 2021) \$	55,268,647	\$5,502,444	-4%

Significant variance due to December expenditures not including staff salaries/benefits

FY 21-22 December 2021 Revenue Summary

Month of December 2021 Revenue Metrics	
Revenue Received In the Month of December 2021 (For the month of November 2021)	\$996,061
Total Revenue Received to Date (through December 2021)	\$1,417,282

FY 21-22 December 2021 Metrics

Month of December 2021 Revenue Metrics				
December 2021 Revenue	\$996,061			
FY 20-21 Prior Year December Revenue (at \$0.08)	\$840,287			
Variance	18%			

Year to Date December 2021 Revenue Metrics				
Year to Date Revenue	\$1,417,282			
FY 20-21 Prior Year-To-Date Revenue (at \$0.08)	\$1,231,974			
Variance	15%			

Projected Revenue Metrics					
2021 Projected Revenue	\$12,911,500				
Percentage of Projected Revenue Received to Date	10%				
Remaining Balance	\$11,494,217				

FY 21-22 Carton Comparison

jected FY20/21 Projected ASS) Cartons (CPDPC)	202,600,000 Cartons	rton 30,08/per carton 30,208,000
FY21/22 Projected Cartons (NASS)	178,800,000 Cartons	\$0.07/per carton \$12,516,000
FY21/22 Projected Cartons	184,450,000 Cartons	\$0.07/per carton \$12,911,500

FY20/21 collected 194,354,262

cartons at \$0.08/ per carton

Cartons	20,246,885	15,399,675*
Revenue Amount	\$1,417,282	\$1,231,974
Year to Date Revenue Received	Current YTD (\$0.07/per carton)	Prior Year FY20-21 YTD (\$0.08/per carton)



QUESTIONS?



California Department of Food & Agriculture
Plant Pest Diagnostics Center
HLB Testing Program
2021

Monthly Lab Totals – 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

% Positives - Risk-based samples

% Positives – HLB Response samples

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

Fig 1. 2021- Plant and ACP sample totals per month.

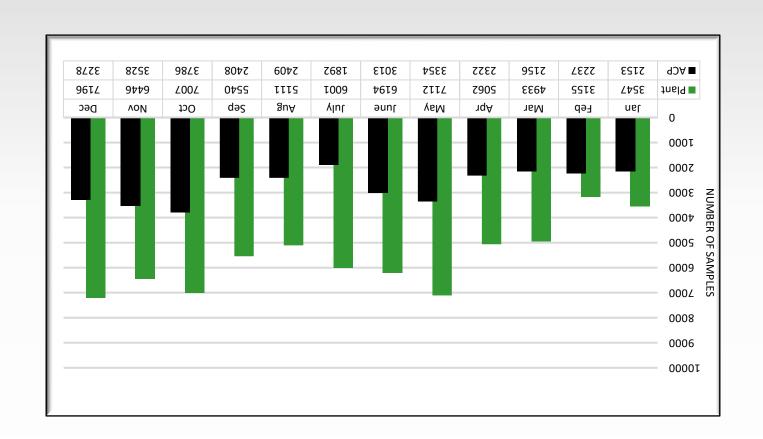
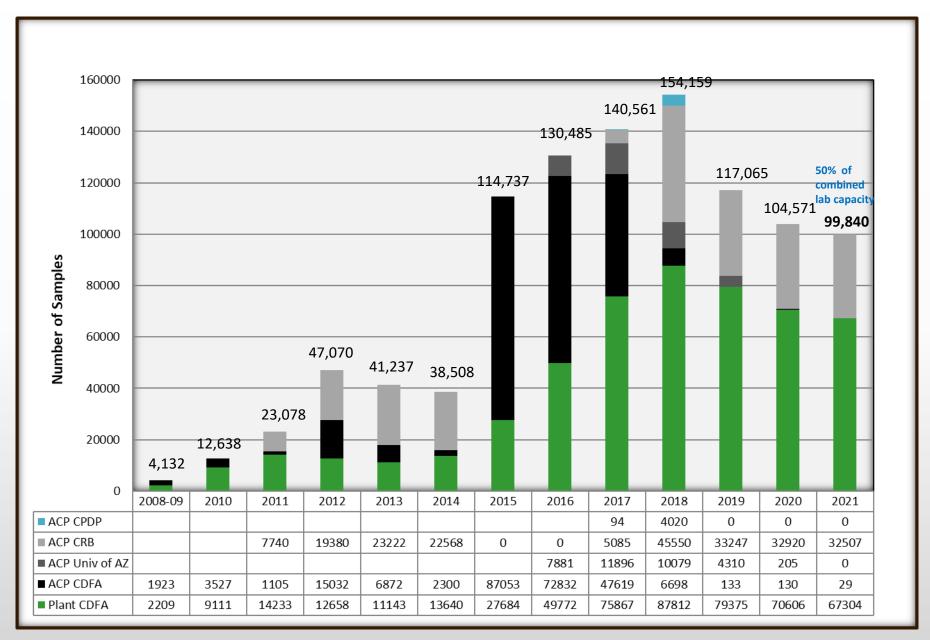


Fig 2. Number of samples tested for HLB per year from 2008 to 2021.



Combined total of plant and ACP samples tested from 2008 – 2021 is 1,027,371.

Table 1. Tally of positive detections by county and city as of 1/7/2022.

ne 1. Tally of posi	tive det	ections	by cour
City	# Citoo	# Trees	# ACP
City	# Sites	# Irees	samples
Ora	nge County	/	
Garden Grove	413	632	63
Santa Ana	381	534	49
Anaheim	380	577	100
Westminster	153	235	16
Orange	89	124	11
Tustin	11	14	3
Fountain Valley	4	10	0
Huntington Beach	21	25	1
Placentia	8	7	2
La Habra	2	3	1
Fullerton	3	1	3
Yorba Linda	3	2	2
Irvine	3	2	2
Total	1471	2166	253
Los Ar	ngeles Cou	nty	
Whittier	143	177	23
Pico Rivera	107	131	36
Montebello	62	88	1
San Gabriel	61	77	6
Rosemead	23	28	4
Paramount	17	19	3
La Mirada	10	13	4
La Puente	4	3	1
Norwalk	6	4	3
Cerritos	3	2	2
Hacienda Heights	2	2	1
Lakewood	5	6	0
Duarte	1	2	1
El Monte	3	2	1
Alhambra	1	1	0
Temple City	1	1	1
Compton	1	1	0
Glendora	1	0	1
South Gate	3	2	1
Long Beach	4	2	2
Los Angeles	1	0	1
Total	459	561	92
	rside Coun		
Corona	25	30	10
Riverside	21	21	4
Eastvale	1	1	0
Jurupa Valley	1	1	0
Moreno Valley	1	1	0
Total	49	54	14
	nardino Co		_
Rancho Cucamonga	3	7	2
Montclair	6	6	0
Colton	6	11	3
San Bernardino	2	1	1
Ontario	34	76	15
Fontana	1	0	3
Total	52	101	24
	an Diego		4
Fallbrook	1	0	1
Oceanside	5	9	4
Total	6	9	5
Grand Total	2037	2891	388

Table 2. Percent positives per county as of 1/7/2022.

County	Sites	Trees	ACP
Orange	72.2%	74.92%	65.2%
LA	22.5%	19.41%	23.7%
Riverside	2.4%	1.87%	3.6%
San Bernardino	2.6%	3.49%	6.2%
San Diego	0.3%	0.31%	1.3%
Total	100%	100%	100%

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

Sample type	Trees		ACP	
Risk-based Survey	109	4%	171	44%
HLB Response	2782	96%	217	56%
Total	2891	100%	388	100%

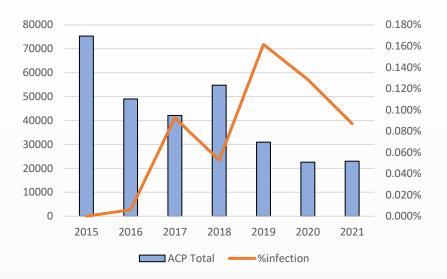
Table 4. Annual tally of positive trees per city from 2012 – 2021

COUNTIES	Total
Orange	2166
Los Angeles	561
Riverside	54
San Bernardino	101
San Diego	9
Grand Total	2891

City	2012	2015	2016	2017	2018	2019	2020	2021	Total
Anaheim				132	109	90	21	225	577
Garden Grove				13	348	115	116	40	632
La Habra				1	0	2	0	0	3
Fullerton				1	0	0	0	0	1
Santa Ana					44	168	217	105	534
Westminster					15	175	3	42	235
Yorba Linda					1	0	0	1	2
Orange					31	14	36	43	124
Tustin					5	8	1	0	14
Huntington Beach						6	2	17	25
Placentia						7	0	0	7
Fountain Valley							10	0	10
Irvine							1	1	2
Hacienda Heights	1	0	1	0	0	0	0	0	2
San Gabriel		10	17	33	10	6	0	1	77
Cerritos			1	1	0	0	0	0	2
Pico Rivera				67	35	18	10	1	131
Whittier				18	80	23	21	35	177
La Puente					0	3	0	0	3
Lakewood					1	1	0	4	6
Norwalk					1	0	2	1	4
Rosemead					17	11	0	0	28
Duarte					2	0	0	0	2
Temple City						1	0	0	1
Montebello						84	4	0	88
El Monte						1	1	0	2
Compton						1	0	0	1
Alhambra						1	0	0	1
La Mirada							7	6	13
Paramount							11	8	19
Long Beach								2	2
South Gate								2	2
Glendora									0
Los Angeles									0
Riverside				3	0	4	6	8	21
Corona						15	4	11	30
Eastvale							1	0	1
Moreno Valley							1	0	1
Jurupa Valley								1	1
Montclair						2	2	2	6
San Bernardino							1	0	1
Ontario							1	75	76
Colton							4	7	11
Rancho Cucamonga							5	2	7
Fontana									0
Oceanside								9	9
Fallbrook									0
Total	1	10	19	269	699	756	488	649	2891

Risk-based Survey Samples - % Positives

ACP Risk-based Samples					
Year	ACP Total	% positive	# of CLas+ ACP samples		
2015	75285	0.000%	0		
2016	49015	0.006%	3		
2017	42106	0.093%	39		
2018	54771	0.053%	29		
2019	30927	0.162%	50		
2020	22568	0.129%	29		
2021	22989	0.087%	20		

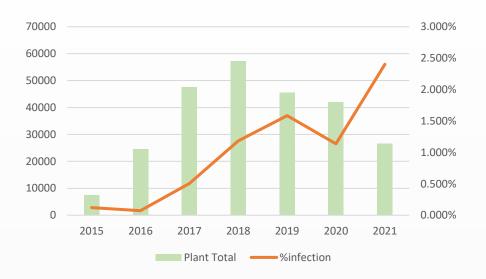


Plant Risk-based Samples					
Year	Plant Total	% positive	# of HLB+ trees		
2015	17603	0.006%	1		
2016	12383	0.008%	1		
2017	22043	0.132%	29		
2018	23683	0.089%	21		
2019	26096	0.130%	34		
2020	20019	0.050%	10		
2021	33112	0.036%	12		

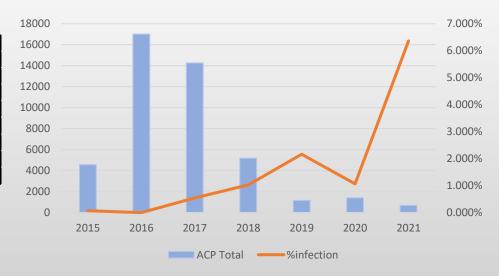


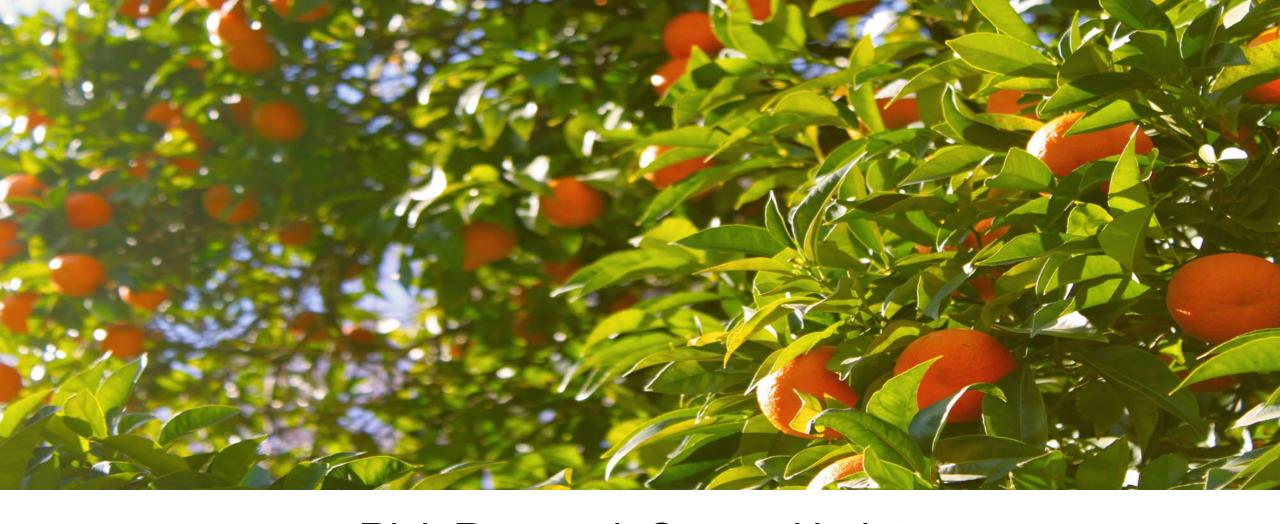
HLB Response Samples - % Positives

Plant HLB response Samples					
Year	Plant Total	% positive	# of HLB+ trees		
2015	7429	0.121%	9		
2016	24581	0.073%	18		
2017	47512	0.505%	240		
2018	57356	1.182%	678		
2019	45526	1.586%	722		
2020	42005	1.138%	478		
2021	26525	2.402%	637		



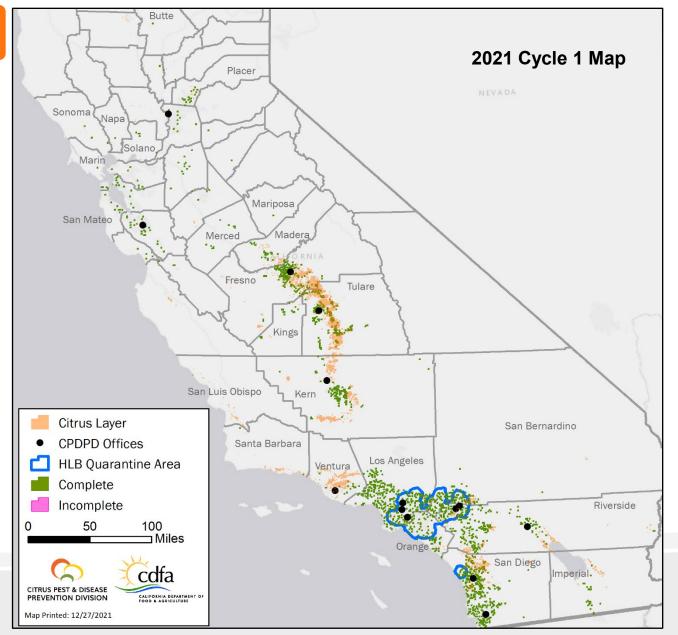
ACP HLB response Samples			
Year	ACP Total	% positive	#of CLas+ ACP samples
2015	4554	0.066%	3
2016	17011	0.000%	0
2017	14253	0.540%	77
2018	5191	1.021%	53
2019	1157	2.161%	25
2020	1405	1.068%	15
2021	692	6.358%	44





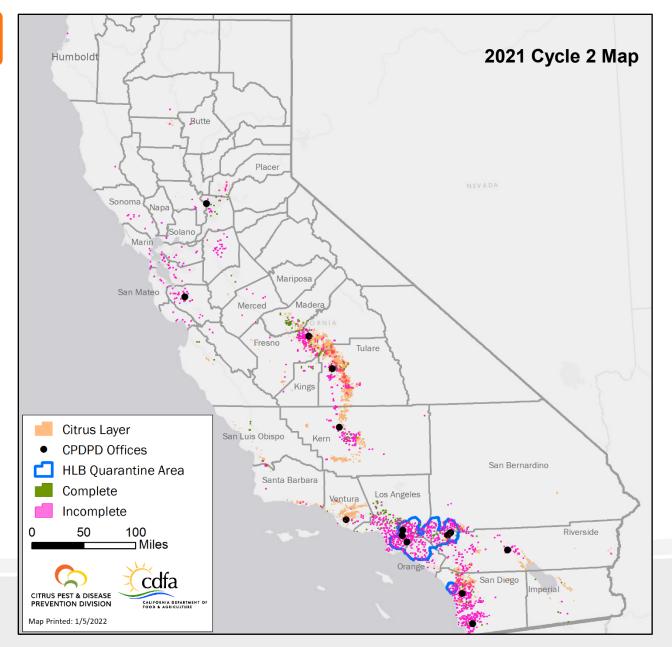
Risk Research Survey Update
California Citrus Pest and Disease Prevention Committee
January 12, 2022

2021 Cycle 1

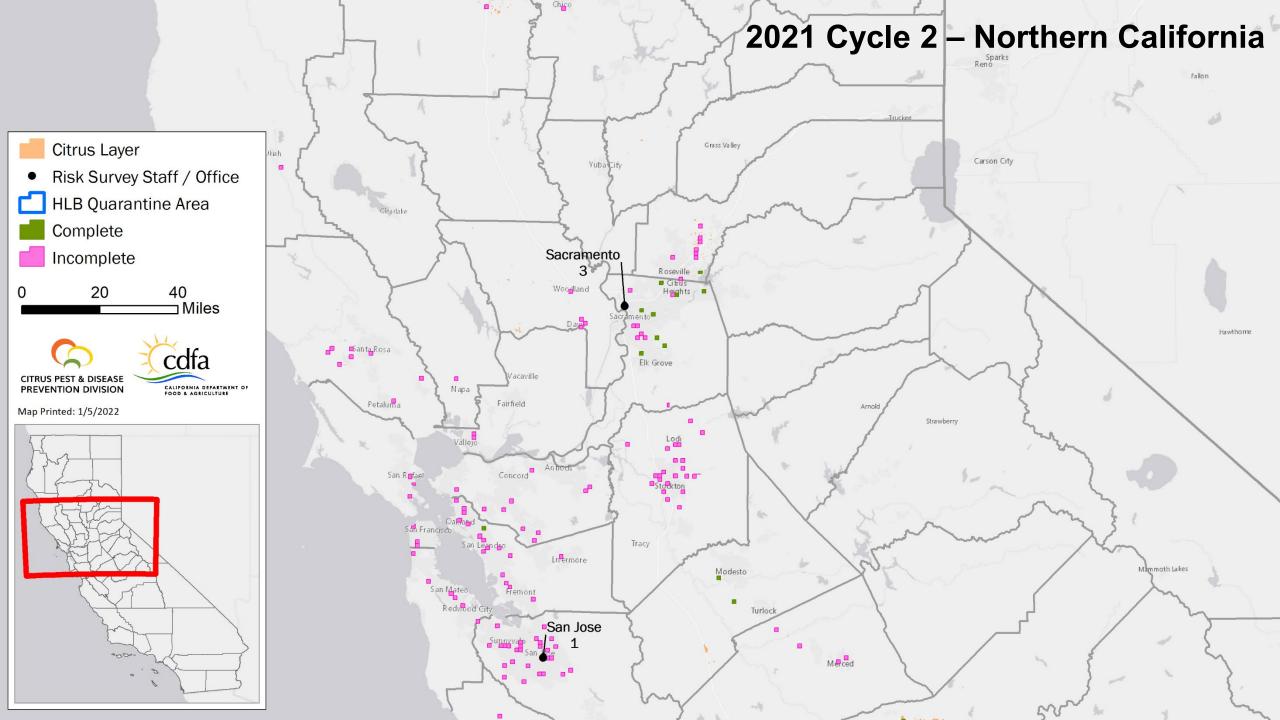


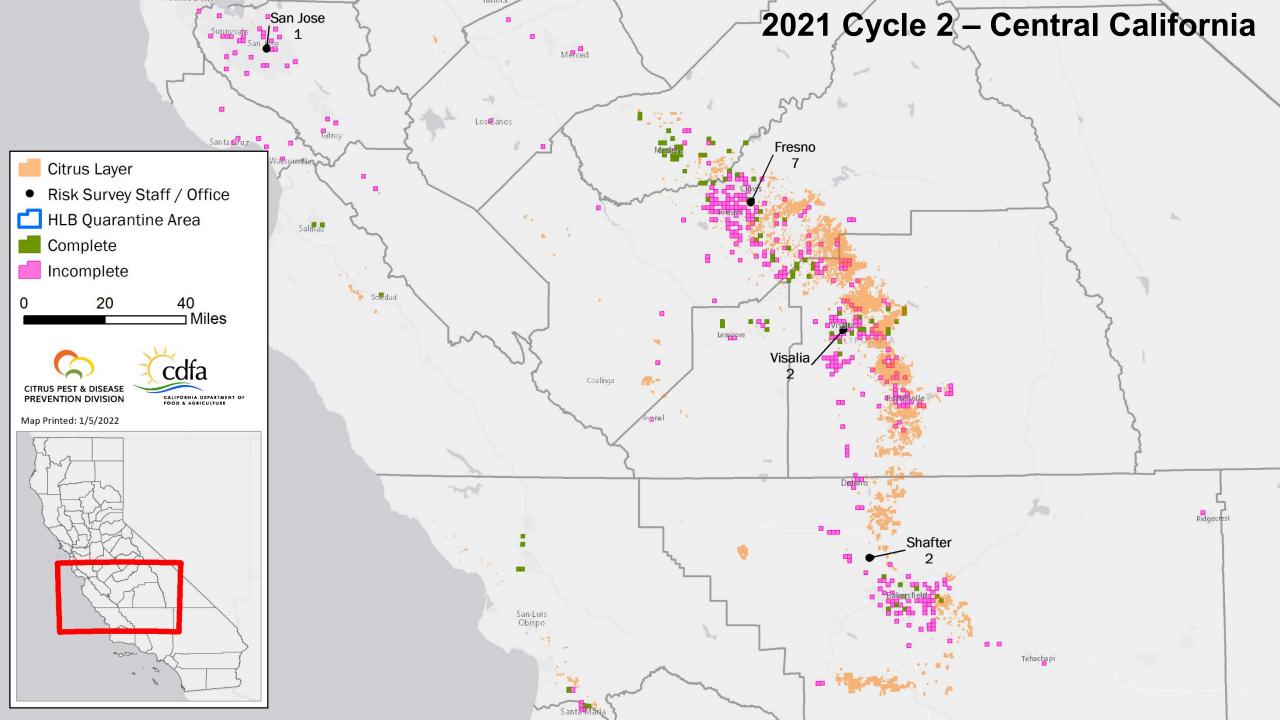
- March 2021 December 2021
- 36 Counties
- 1,642 Survey Grids
- 55,194 Properties Visited
- 27,824 Properties Sampled
- 12,946 Entomology PDRs
- 19,379 Plant PDRs

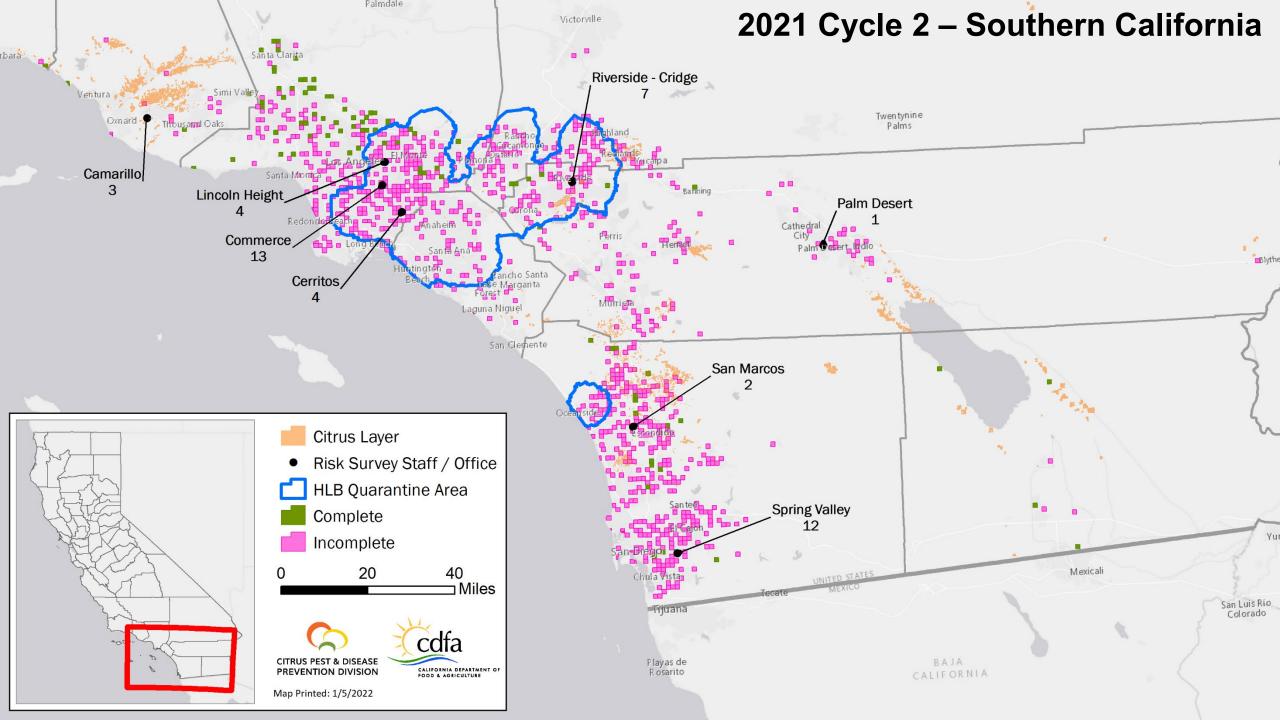
2021 Cycle 2



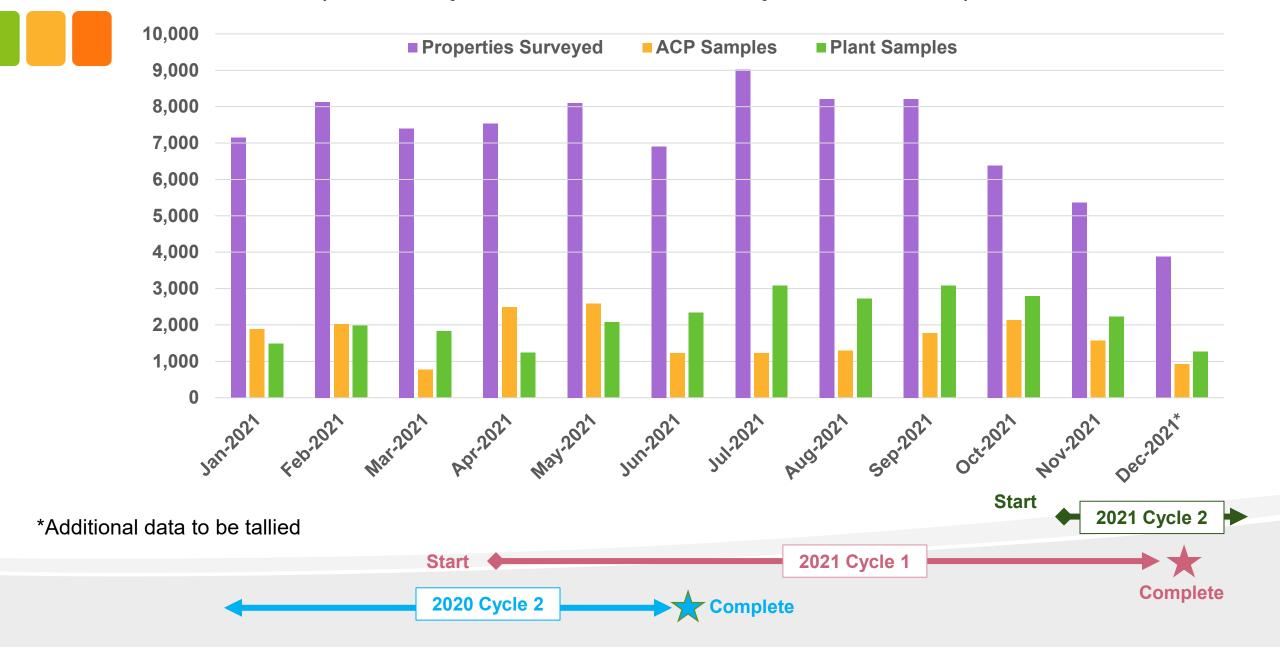
- Began November 2021
- 12% Complete
- Survey Complete in 2 of 37 Allocated Counties
- 4,836 Properties Visited
- 2,230 Properties Sampled
- 1,167 Entomology PDRs
- 1,546 Plant PDRs







Statewide Trends (2020 Cycle 2, and 2021 Cycle 1 and 2)





Operational Update

CPDPC Meeting

January 12, 2022

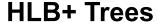
Southern District



- HLB Delimitation Survey and Treatment Areas
- Orange County
 - Survey was conducted in Westminster (1) & Anaheim (17,18).
 - Delimitation treatments were conducted in Anaheim (17,20) & Orange (47, 48).
- Los Angeles County
 - Survey was conducted in Pico Rivera (45).
- San Bernardino County
 - Survey was conducted in Ontario (2,3,4,5) & Rancho Cucamonga (1,2,3).
 - Delimitation treatments were conducted in Rancho Cucamonga (3) & Ontario (2,3,4).
- Riverside County
 - Survey was conducted in Riverside (1).



Southern District



County	Trees Removed in Nov/Dec	Cumulative Pending Trees
Orange	167	54
Los Angeles	2	14
San Bernardino	19	35
Riverside	1	4
TOTAL	189	107

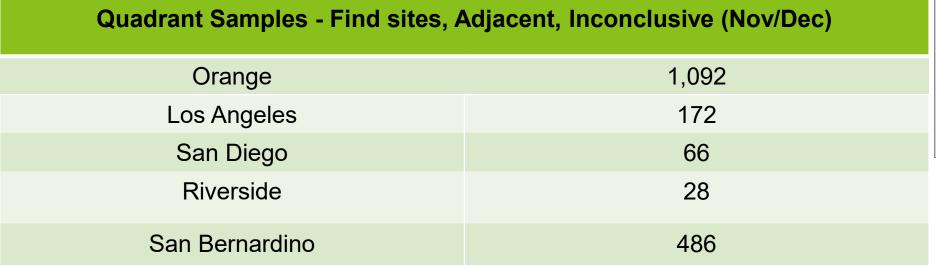


- 23 trees are scheduled for removal on Jan 7 in San Bernardino County. 30 trees are scheduled for removal in Orange County in mid-January.
- Staff is in the process of scheduling the removal of the remaining trees.

Commodity Survey

 The 2021 commodity survey was completed at the end of December. A total of 7,500 acres of citrus groves were surveyed for different pests and diseases in Imperial, San Diego, Riverside, Orange, and San Bernardino Counties.

Southern District



Public Meetings – Delimitation treatments						
Nov 15, 2021	Dec 2, 2021	Dec 22, 2021	Jan 3, 2022	Jan 19, 2022		
New areas in Los Angeles and Orange County	New areas in Ontario & Rancho Cucamonga	New areas in Riverside and San Bernardino Counties	New areas in Los Angeles County	New areas in Orange County		



Northern District



- Monthly delimitation trapping continues.
- 27 delimitation grids in total.
- 598 delimitation traps in total.
- Ongoing monthly Tamarixia releases.

> HLB Risk Survey

- Survey in progress in Alameda, Butte, Placer, Sacramento, San Joaquin, Santa Clara, Tehama, and Yolo Counties.
- Survey completed in Stanislaus County.

ACP Detection

- Winter trapping in 23 counties began November 1.
- Year-round county trapping continues in three counties.

> ACP Treatment

No active treatment projects.



Central District



New County Detections

- Tulare County
 - December 10 one adult ACP confirmed (Visalia, residential).
 - Treatment in 50 m was conducted on December 30, 2021.
- Fresno County
 - December 23 one adult ACP confirmed (Fowler, packing house).
 - Regulatory incident.
- Monterey County
 - December 30 one adult ACP confirmed (Salinas, residential).
 - Delimitation trap deployment the first week of January.

Detection trapping

- Fresno and Madera Counties Ongoing.
- Delimitation trapping
 - Kern County Ongoing, last detection was confirmed on December 2 (Bakersfield, commercial).
 - Madera County Delimitation traps removed, returned to detection trapping density.
 - > San Luis Obispo County Ongoing, last detection confirmed on December 23 (Santa Maria, commercial).



Central District



Treatment

- > Kern and Tulare Counties All residential areas treated within 50 m.
- ➤ Monterey County 50 m treatment tentatively scheduled, scheduling public meeting & weather permitting.

HLB Risk-Based Survey

Central began Cycle-2 2021 mid-Nov and ongoing.

Citrus Commodity Survey

> Staff completed citrus commodity survey for the Fall 2021 survey period.



Central District



Santa Maria Background

- ➤ SLO County delimitation trapping Ongoing.
 - December 23 one ACP confirmed.
- ➤ Santa Barbara border traps
 - October 19 7 traps with ACP; average 17 ACP/trap.
 - November 17 11 traps with ACP; average 17 ACP/trap.
 - December 20 pending.
- ➤ Santa Maria follow up
 - SLO requesting treatment in the Santa Maria area.
 - Santa Barbara Agricultural Commissioner granted permission to treat in Santa Maria.



County Regulatory Activity July 2021 - October 2021

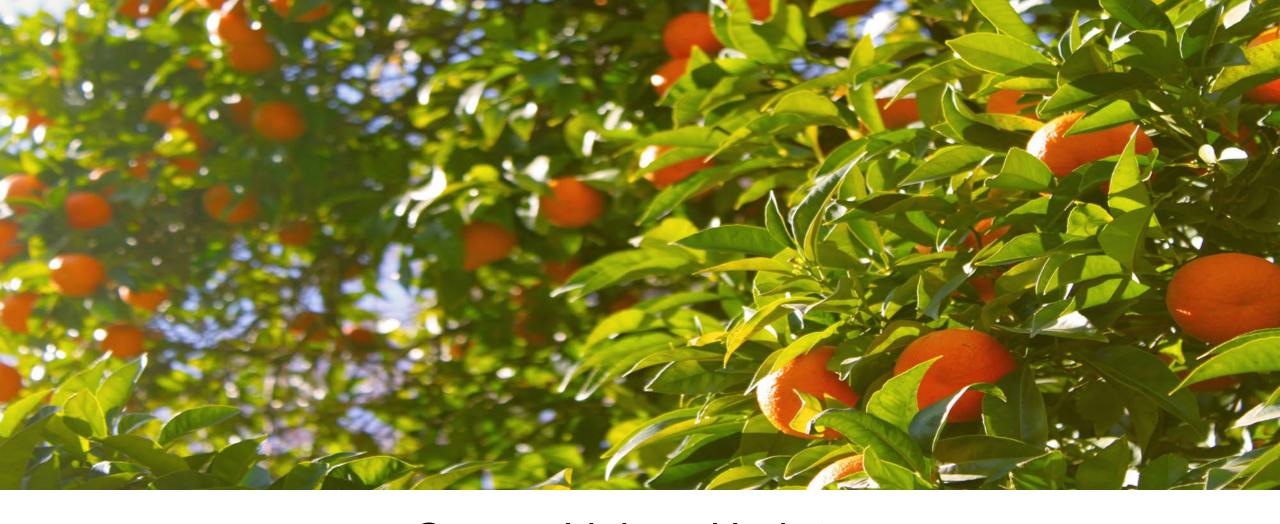
County	FY 2021-22	Percent	CAs Issued	Grower	Transporter	Packer/Processor	Fruit Seller	NOVs	NOPAs
County	Budget Amount	Expended	CAS ISSUEU	Inspections	Inspections	Inspections	Inspections	NOVS	NOPAS
Fresno (*1)	\$93,419.64	8%	14	0	6	0	0	0	0
Imperial	\$49,682.53	23%	1	10	10	0	0	1	0
Kern	\$75,000.00	33%	3	0	254	1	0	0	0
Kings (*4)	\$26,138.94	0%	0	0	0	0	0	0	0
Los Angeles	\$271,839.35	45%	0	1	0	162	17	0	0
Monterey (*1)	\$16,171.55	32%	0	59	0	0	0	0	0
Orange	\$86,712.60	36%	3	29	2	1	0	0	0
Riverside	\$752,709.87	28%	11	120	508	5	10	0	0
San Bernardino (*1)	\$25,557.50	11%	0	0	0	0	0	0	0
San Diego	\$680,841.88	35%	24	66	67	19	7	3	0
San Luis Obispo (*1)	\$10,970.71	28%	2	3	0	0	0	0	0
Santa Barbara	\$19,886.44	60%	6	12	1	0	3	0	0
Tulare	\$380,000.29	23%	41	0	827	1	0	48	19
Ventura (*4)	\$146,007.26	0%	0	0	0	0	0	0	0
Total	\$2,634,938.56	21%	105	300	1,675	189	37	52	19

^{(*#) =} number of invoices missing from reporting period

Grate Cleaning Inspections January - September 2021

Date	Origin County	Receiving County	Bins Received	Bins Inspected	Max Number of Leaves/Bin	Avg Number of
4/4/2024		Di saida	40	-	Observed	Leaves/Bin
1/4/2021	Fresno	Riverside	48	5	23	17.2
1/6/2021	Kern	Riverside	44	5	34	16.8
1/6/2021	Kern	Riverside	48	5	26	9.4
1/6/2021	Kern	Riverside	48	5	24	15.4
1/6/2021	Kern	Riverside	48	5	40	32.6
1/6/2021	Kern	Riverside	48	5	30	13.6
1/11/2021	Fresno	Riverside	48	5	28	15.2
1/12/2021	Kern	Riverside	42	5	0	0.0
1/12/2021	Kern	Riverside	48	5	22	10.6
1/12/2021	Kern	Riverside	48	5	37	30.2
1/14/2021	Kern	Riverside	48	5	34	19.4
1/14/2021	Fresno	Riverside	48	5	13	8.6
1/14/2021	Fresno	Riverside	48	5	20	12.8
1/15/2021	Kern	Riverside	48	5	28	21.6
1/20/2021	Kern	Riverside	48	5	22	18.8
1/20/2021	Kern	Riverside	48	5	1	0.2
1/21/2021	Kern	Riverside	48	5	2	0.4
1/28/2021	Kern	Riverside	48	5	1	0.4
3/1/2021	Ventura	San Diego	48	4	0	0.0
7/30/2021	Ventura	Tulare	45	14	8	2.2
8/2/2021	Ventura	Tulare	90	42	15	4.0
8/2/2021	Ventura	Tulare	90	48	12	3.6
8/9/2021	Ventura	Tulare	67	67	6	1.3
8/11/2021	Ventura	Riverside	40	16	1	0.1
8/12/2021	Ventura	Tulare	49	48	9	3.0
8/13/2021	Ventura	Tulare	48	48	9	2.8
8/16/2021	Ventura	Tulare	50	50	8	2.2
8/17/2021	Ventura	Riverside	40	12	2	0.4
8/18/2021	Ventura	Tulare	68	68	9	4.7
8/19/2021	Ventura	Tulare	55	48	9	2.9
8/20/2021	Ventura	Tulare	36	21	5	2.2
8/26/2021	Ventura	Tulare	50	22	8	3.5
8/27/2021	Ventura	Tulare	29	28	9	3.4
8/30/2021	Ventura	Tulare	48	48	41	18.0
9/28/2021	Ventura	Tulare	49	49	12	4.0
-, -, -	of Shipments:	35	1,756	723	26	8.6

41% of bins shipped were inspected



Grower Liaison Updates
CPDPC Full Committee Meeting

January 12, 2022





Central District: Grower Liaison Updates

Fresno, Madera, Northern Tulare: Teri Blaser

- December 10 one confirmed adult ACP on a County trap in Visalia.
- December 27 one confirmed adult ACP on a GWSS trap in Fowler.

Southern Tulare: Jessica Leslie

- No new ACP finds.
- Updating/Reaching out to PMA team leaders.

Kern County: Judy Zaninovich

- December 2 one confirmed adult ACP in a commercial grove in Bakersfield.
- Growers have been notified and are cooperating with treatments.
- 18 detections total for 2021.





Southern Districts: Grower Liaison Updates

<u>Ventura County:</u> Cressida Silvers

- Growers applied their second treatments in mid November.
- Winter ACP emergency response treatments to be determined.
- New leadership expected for ACP Task Force in 2022.
- Followed up with growers for properties that had no record of fall treatment.

San Luis Obispo County: Cressida Silvers

- December 23 one confirmed adult ACP in a commercial grove.
- Grower was notified.

San Bernardino County: Sandra Zwaal

- Growers are applying winter treatments.
- One 25+ property within 250 meters of a confirmed positive HLB tree. Trees are in the process of being treated.





Southern Districts: Grower Liaison Updates Continued

San Diego County: Sandra Zwaal

- Winter ACP emergency response treatments to be determined.
- Citrus layer information is being updated.
- Grower participation thresholds for fall were Pauma 67%, San Pasqual 100%, Borrego 95%.

Santa Barbara County: Cressida Silvers

- Winter emergency response treatments to be determined.
- Growers are treating early for broad mite/ACP detections.

Imperial County: Curtis Pate

- The ACP canine detection team alerted to multiple ACP detections in eight orchard hedgerows in December 2021.
- ACP samples from the Imperial County Citrus Pest Control District traps and canine finds were sent to the University of California, Riverside for testing. Samples were negative for *Clas*.
- No "spray and move" blocks have had detections.
- Winter emergency response treatments to be determined.



Asian Citrus Psyllid Biocontrol Update

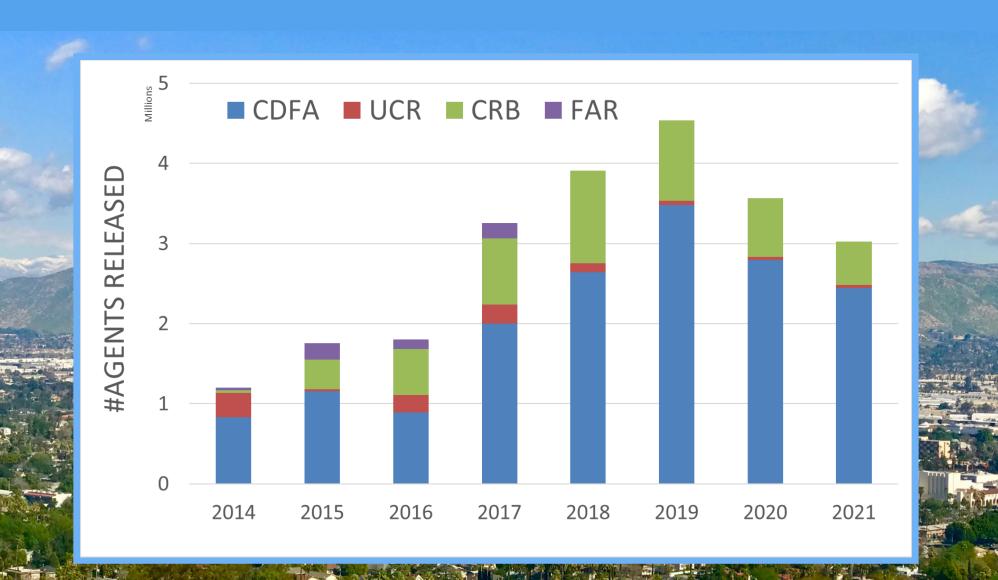


David J. W. Morgan

California Department of Food and Agriculture

January, 2020

Released Biological Control Agents



Biological Control Agent Releases December 2011 – December 2021

	Releases, 2021	Releases 2	eleases 2011-2021		
County	T. radiata	Tamarixia	D. aligarhensis		
	Released	Released	Released		
Imperial	61,534	519,143	10,295		
Los Angeles	802,364	6,583,715	107,734		
Orange	804,464	4,962,476	71,179		
Riverside	355,107	3,532,202	127,739		
San Bernardino	242,609	1,800,475	57,252		
San Diego	251,248	2,724,088	86,403		
Ventura	258,844	2,030,056	16,830		
Santa Barbara	80,000	230,482	12,012		
Kern	71,055	224,164	0		
Santa Clara	59,500	135,137	0		
Placer	0	3,400	0		
San Luis Obispo	4,800	109,500	0		
Tulare	0	36,000	0		
Monterey	0	14,400	0		
Arizona	29,100	158,100	0		
Mexico	0	306,000	0		
TOTAL	3,020,625	23,369,338	489,444		
	TOTAL (2011-2021): 23,858,782				

Biological Control Agent Release Areas

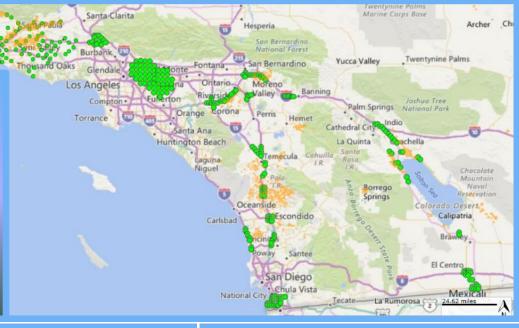
HLB Quarantine areas

Borders

Trade routes

Area-wide management

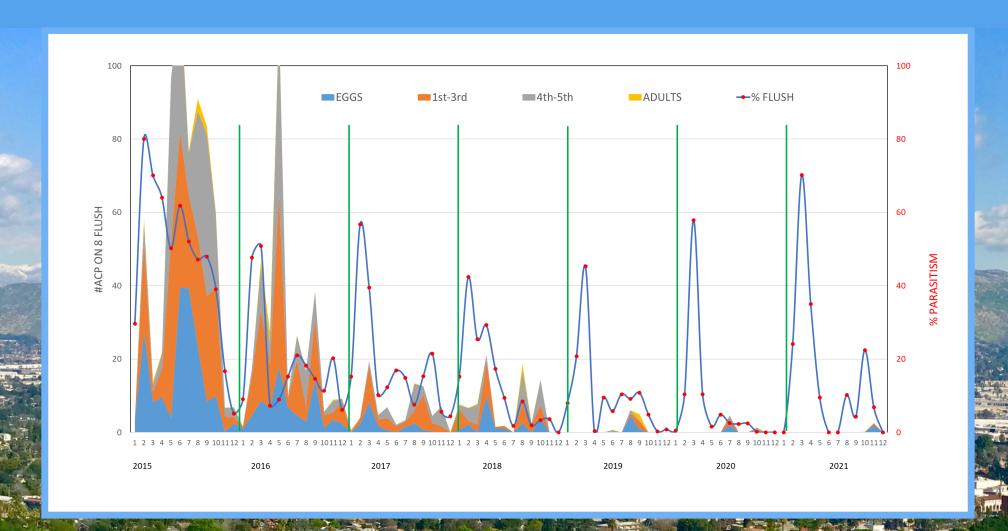
Newly established ACP



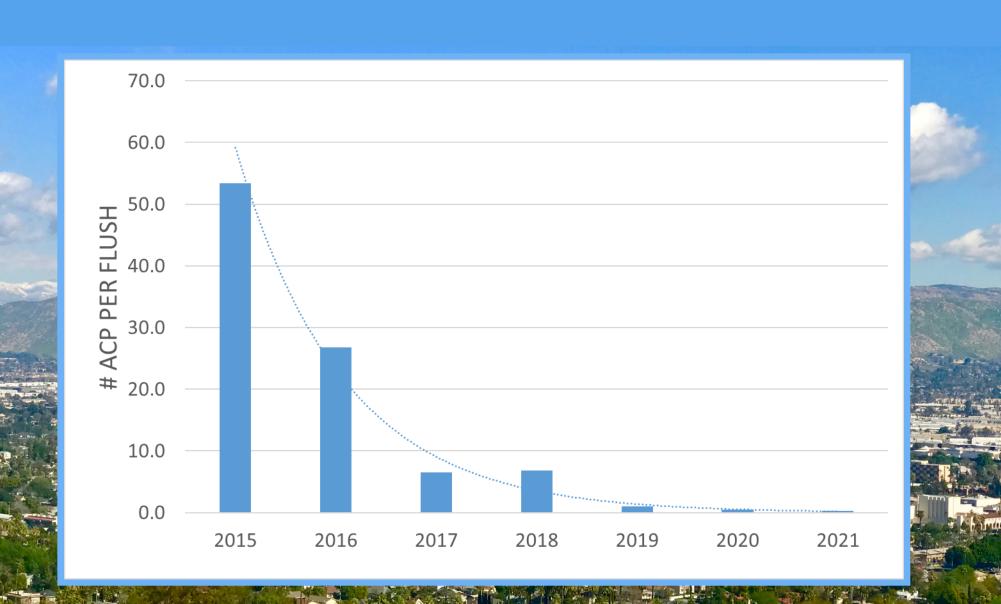


Release Type	2020		2021		
	# Agents	%	# Agents	%	
Borders	538,823	15	90,634	3	
HLB	2,565,101	71	2,455,792	81	
New	68,800	2	135,355	4	
Routes	435,498	12	339,244	11	

ACP Abundance in Citrus 2015 - 2021



ACP Abundance in Citrus 2015 - 2021



Publication on 2015-2020 Urban ACP Monitoring



Contents lists available at ScienceDirect

Biological Control

journal homepage: www.elsevier.com/locate/ybcon



Density dependent mortality, climate, and Argentine ants affect population dynamics of an invasive citrus pest, *Diaphorina citri*, and its specialist parasitoid, *Tamarixia radiata*, in Southern California, USA



Ivan Milosavljević ^{a,*}, David J.W. Morgan ^b, Rachael E. Massie ^b, Mark S. Hoddle ^{a,c}

- ^a University of California, Department of Entomology, 900 University Ave, Riverside, CA 92521, USA
- ^b California Department of Food and Agriculture, 4500 Glenwood Drive, Riversidez, CA 92501, USA
- ^c Center for Invasive Species Research, University of California, Riverside 92521, USA

HIGHLIGHTS

- Highest D. citri densities were found in intermediate and coastal regions.
- Parasitism rates averaged 25% with lag density-dependent parasitism being detected.
- Parasitism by T. radiata was>50% greater when L. humile was absent.
- Diaphorina citri densities declined by over 75% across all study sites over four years.
- Reduced D. citri densities may have slowed spread of Candidatus Liberibacter asiaticus in California.



CPDPP OUTREACH REPORT



Homeowner Outreach Activities





CPDPP IN THE NEWS

Biocontrol Media Coverage

 18+ earned print, online and radio stories placed in English, Spanish, Chinese, Vietnamese and Korean.



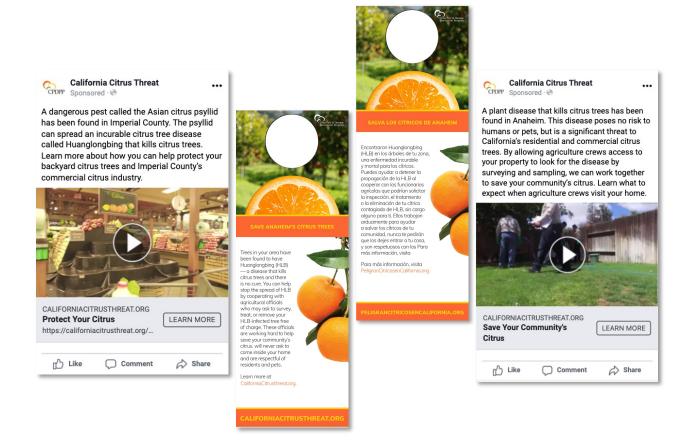
Central Coast Feature

- Secured five broadcast segments on three different news stations in Santa Barbara County.
- Focused on increased ACP detections and what residents can do to help.



URGING HOMEOWNERS TO ACT

- Coordinated Facebook ads and doorhangers urging homeowners to cooperate with ag officials and inspect their trees.
 - Targeted zip codes in Anaheim and Imperial Valley
 - English and Spanish



Citrus Pest & Disease Prevention Program

Industry Outreach Activities



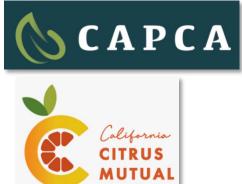


INDUSTRY OUTREACH ACTIVITIES AND EVENTS

Events and Tradeshows

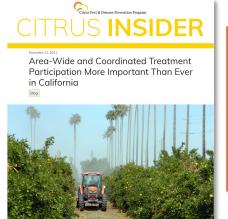
- In-person outreach opportunities and events are slowly returning, including:
 - CAPCA Spring Summit
 - World Ag Expo
 - CCM Citrus Showcase





Digital Communications

- Citrus Insider remains a top resource for industry members on the latest news and information.
 - Letter from Jim Gorden urging participation in Winter AWT
 - Updated treatment dates







Elected Official Outreach Activities



CONNECTING WITH ELECTED OFFICIALS

Conference Attendance

- CPDPP recently had presence at:
 - California State Association of Counties
 - League of California Cities





Ongoing Communications

- Ongoing outreach to cities in and near HLB quarantine areas with cityowned citrus trees.
- November Citrus Hero Award: Imperial County Agriculture Commissioner's Office





Upcoming Activities





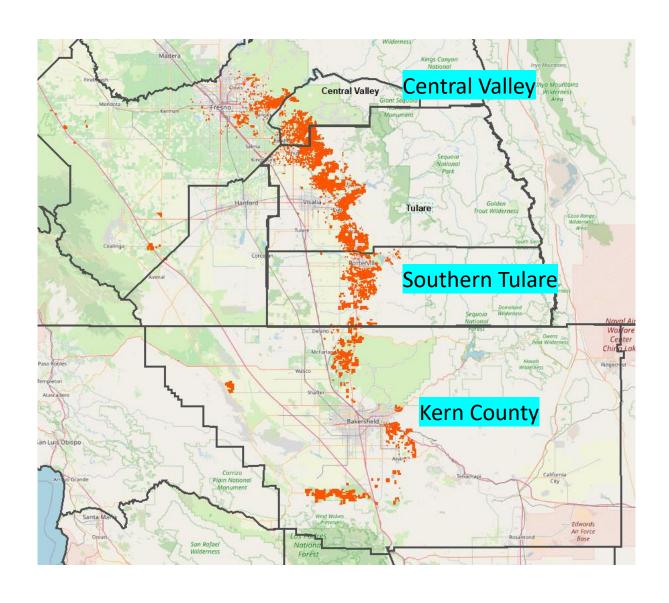
UPCOMING OUTREACH ACTIVITIES

- Annual report development.
- Developing social media influencer campaign plans.
- Refresh of CaliforniaCitrusThreat.org, including improved user experience and SEO best practices.
- Exploring new advertising opportunities to reach homeowners.

- Participation in Ag Day at the Capitol.
- Grower liaison meeting.
- CAPCA Continuing Education course.
- Science Advisory Panel facilitation.



SJV Pest Control Districts Updates





Citrus Pest Detection Program

Central California Tristeza Eradication Agency



Subhas Hajeri, PhD Program Director/Plant Pathologist



ACP/HLB Survey Overview

High-Risk/Agent based Survey Model State/Regional Level Apply Risk Factors to select Blocks/Properties **Section Level Block/Property Level** Perimeter Survey Highly Reliable Sample for Lab Testing Tree Level

3D traps and Visual Inspection for ACP and HLB

- Detection Program
 - Central California Tristeza

Citrus Pest

- **Transportation corridors**
- **Organic citrus**
- **Proximity to Residential Citrus**
- **Proximity to Packing Houses**
- **Recent ACP find locations**
- **Proximity to ill-managed citrus**

- 3D traps for ACP monitoring
- Visual Inspection for ACP and HLB symptoms









Luo and Gottwald, USDA-ARS, Fort Pierce, FL



ACP nymph on flush



Leaf damage from **ACP** feeding



Blotchy mottle





Asian Citrus Psyllid Survey





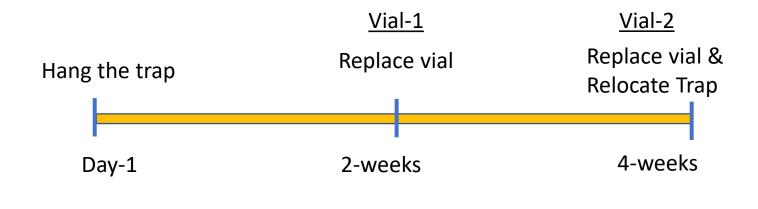
Propylene Glycol/Salt solution



10 traps deployed per day per crew 100 traps deployed in two weeks



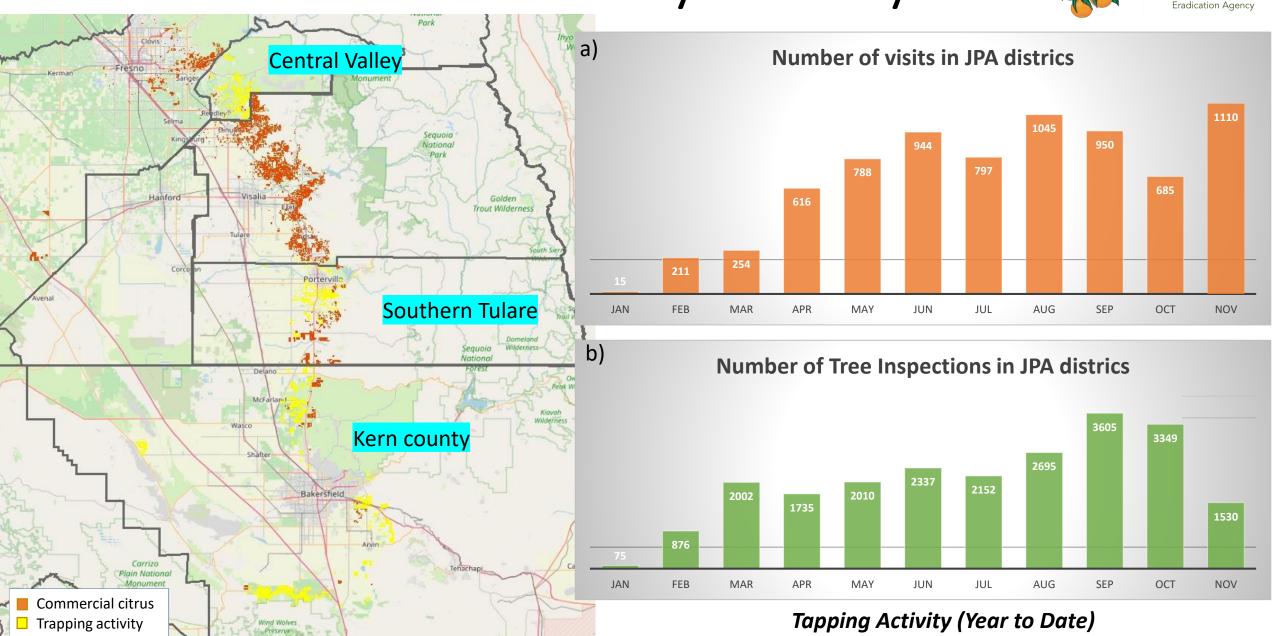
Replace vial in 2 weeks

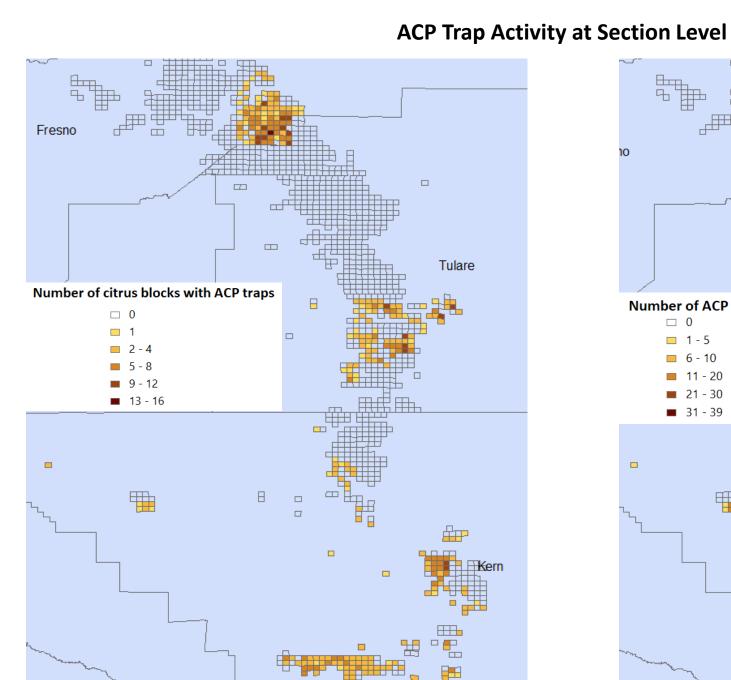




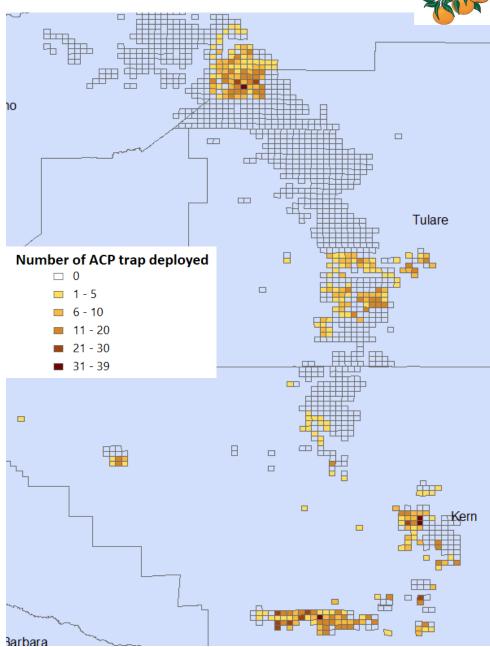
Asian Citrus Psyllid Survey





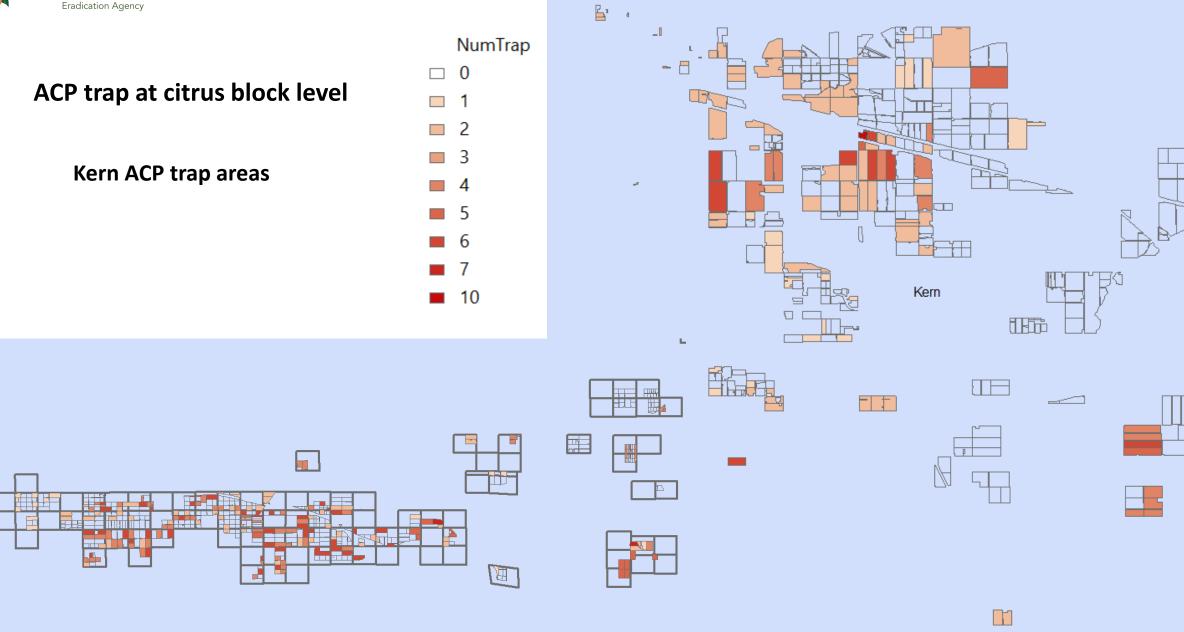






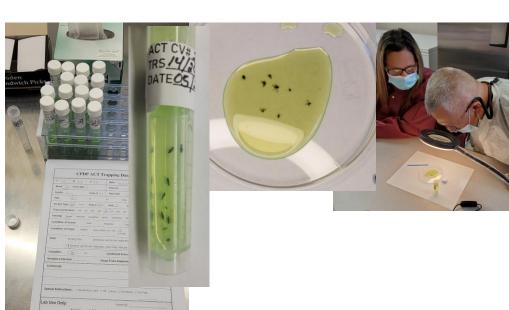
Courtesy: Weiqi Luo, USDA-ARS, Florida





Asian Citrus Psyllid Survey









ACP in glass vial as a control



