CANINE DETECTION SERVICES

ACP DETECTOR CANINES

HLB/MAC FUNDED RESEARCH PROJECT

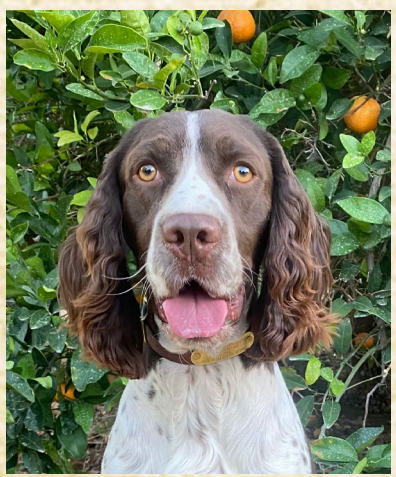
Presentation for CPDPC Operations Committee Meeting

October 7, 2020

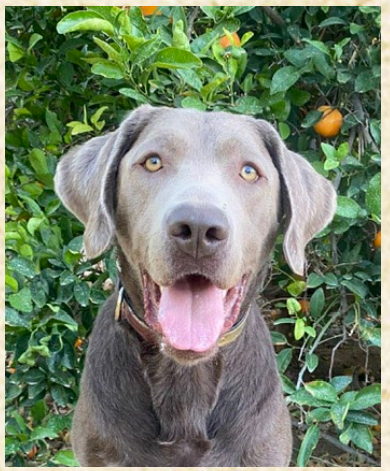
WHERE MAN'S BEST FRIEND FINDS IT!

PEST CONTROL – AGRICULTURE – FOOD SAFETY

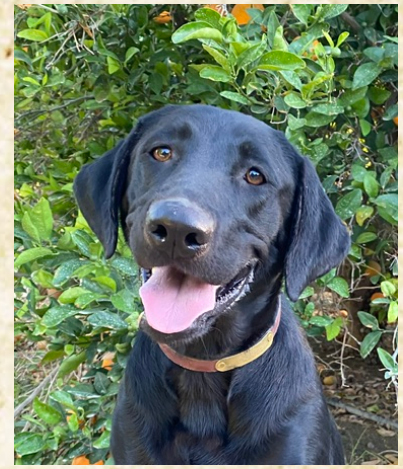
ACP Detector Canines



TANGO
English Springer Spaniel



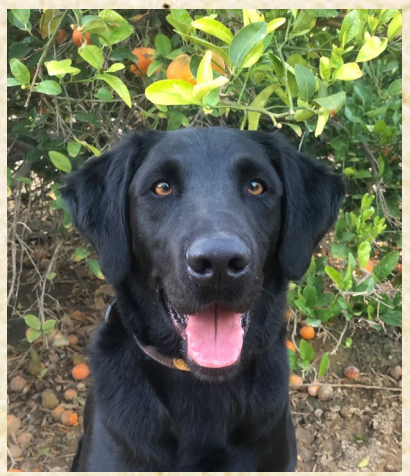
EUREKA
Silver Labrador Retriever



ENCORE
Black Labrador Retriever



SALLY
Mixed Breed



TIMBER
Black Labrador Retriever



HUNTER
German Shorthair Pointer

Current State of Program

Research Complete

Environment	Relative Accuracy
Bins	96%
Trees	80%
Tubs (1-25 ACP)	97%
Average	**91%**

Deployment Training Underway

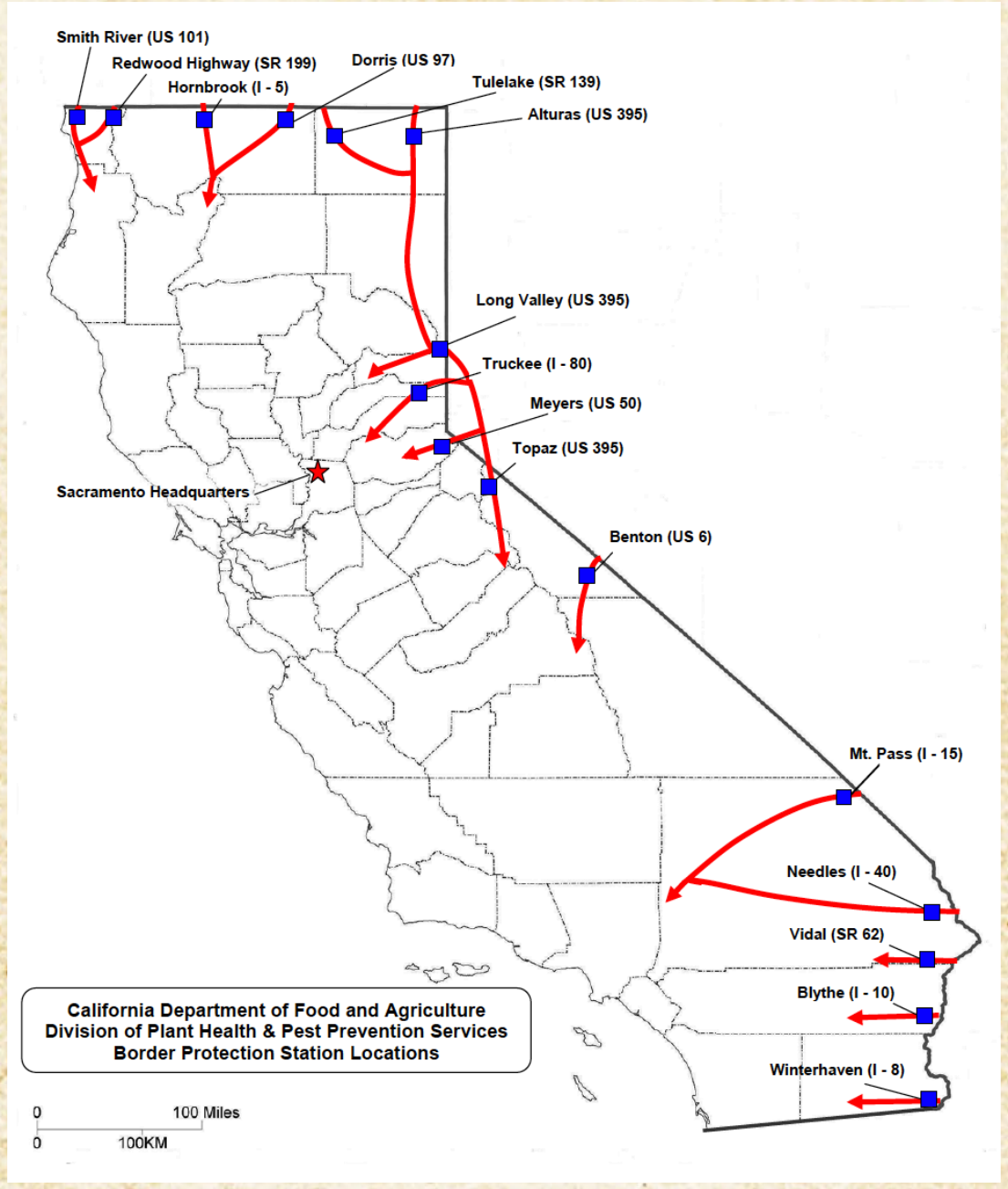
- This group of dogs did research experiment training daily for 12 months.
- Necessary transition for work readiness.
- Completed by end of October.
- November additional handlers will be hired and trained.

Possible Uses For Canine Teams

- Assist residential scouting efforts to locate more ACP for testing.
- Regular re-inspections in areas of the San Joaquin Valley and Bay Area where ACP have been found and treated.
- Inspect bulk citrus in the field or at packinghouses.
  - Possible strategy for mitigation with organic growers?
- Assist growers with ACP management efforts.
- Locate ACP coming across state and national borders and within counties bordering Mexico.

Borders

- State Border
  - Post K9 team at select Border Protection Stations (BPS) in locations where stopping ACP would be helpful.
  - Could ag inspection stations be established in other key areas?
- Federal Border
  - Post K9 team at secondary inspection areas
    - Commercial or Main Port of Entry checkpoints along Mexico border.
    - Immigration inspection stations in Imperial/SD Counties
  - Collaboration with U.S. Customs or U.S. Border Patrol
- Imperial & San Diego Counties
  - Residential, Public Property Sites



Any County

- Rural Residential
- Backyards
- Public Property
- Cover ACP found and report location to CDFA
- Teams can work independently or w/government surveyors



Program Costs

Breakdown

Time Frame	Cost
Per Hour (minimum 8)	$553
Per 8 Hour Day	$4,425
Monthly	$96,616

(Travel time from base to be included in the work day.)

Includes

CPDPC directed mobile teams with ACP Lab.

- Currently: 2 handlers, 2 scouts and 6 dogs traveling and working together.
- Starting December 1: 3 mobile teams, with vehicles and two dogs each if needed

All operational and travel expenses

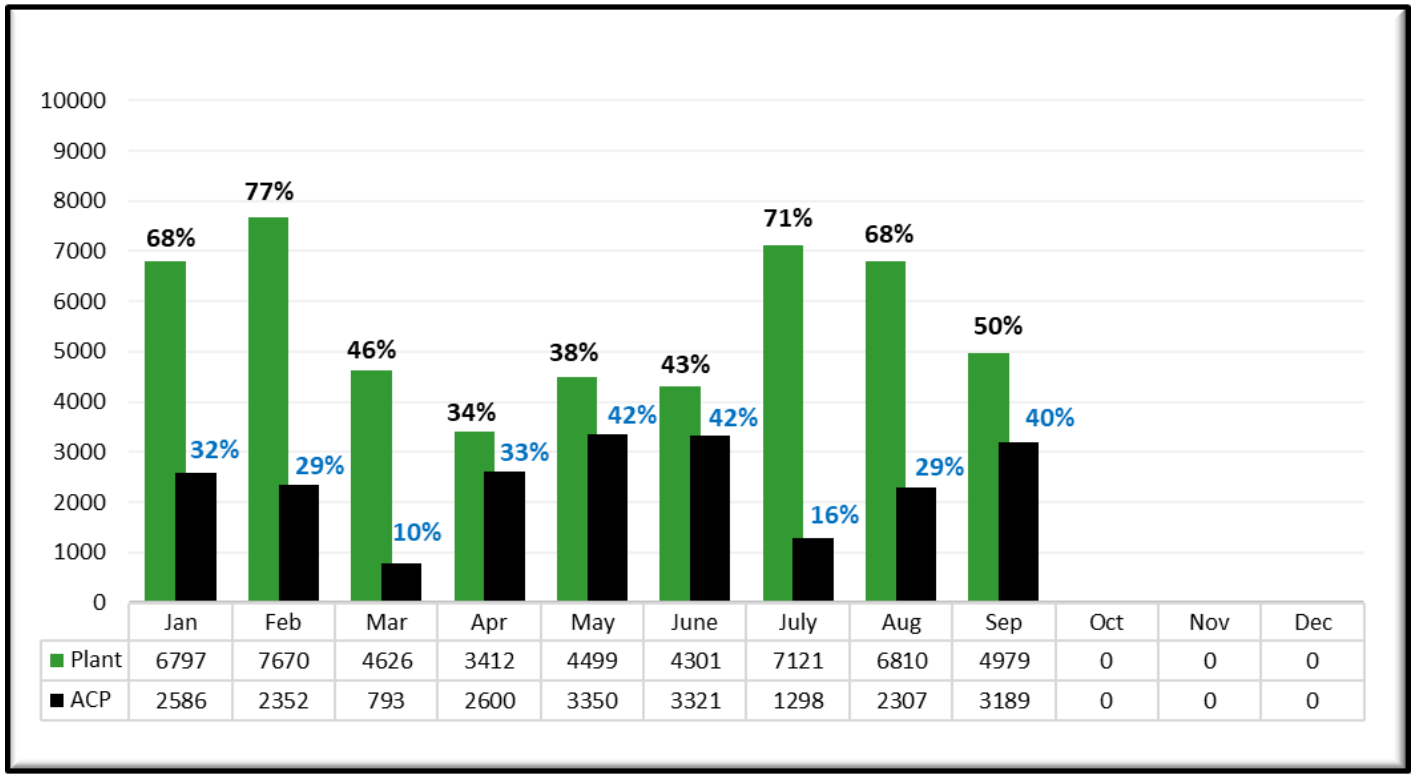




California Department of Food & Agriculture
Plant Pest Diagnostics Center
HLB Testing Program
09/28/2020

Monthly Lab Totals – Fig. 1
HLB Yearly Totals – Fig. 2
Tally of Positive Detections by County and City – Tables 1 and 2
Tally of Positive Detections by City per Year – Tables 3
Map of HLB Positive Trees – Fig. 3
If you have any questions, please call or email me at 916-738-6710 lucita.kumagai@cdfa.ca.gov.

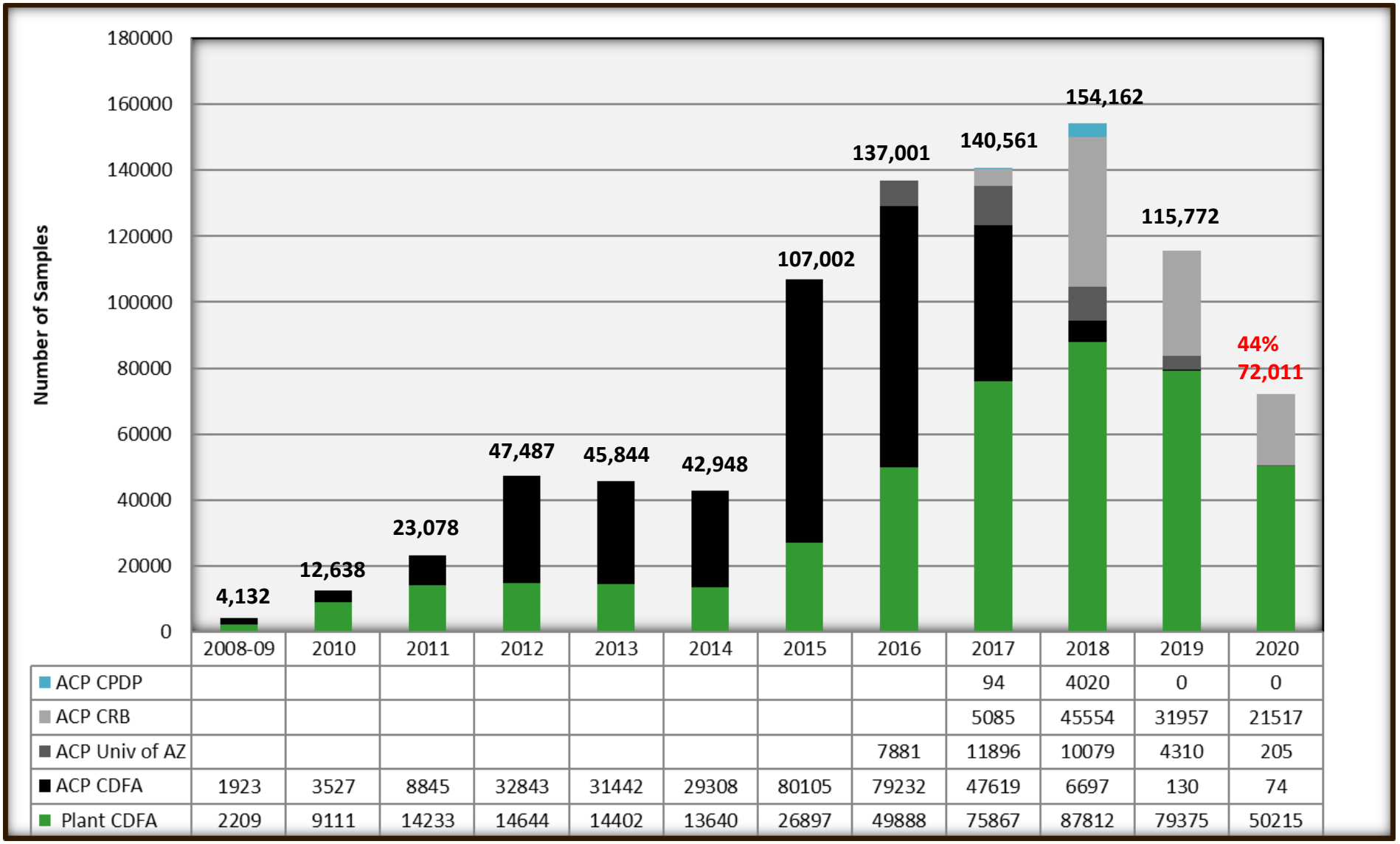
Fig 1. 2020 CDFA/CRB lab totals for plant and ACP samples and the % capacity use per month.



	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Plant	6797	7670	4626	3412	4499	4301	7121	6810	4979	0	0	0
ACP	2586	2352	793	2600	3350	3321	1298	2307	3189	0	0	0

Maximum sample capacity per month: Plant 10K, ACP 8K

Fig 2. Number of samples submitted for HLB testing per year from 2008 to 9/28/2020.



	2008-09	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
ACP CPDP									94	4020	0	0
ACP CRB									5085	45554	31957	21517
ACP Univ of AZ								7881	11896	10079	4310	205
ACP CDFA	1923	3527	8845	32843	31442	29308	80105	79232	47619	6697	130	74
Plant CDFA	2209	9111	14233	14644	14402	13640	26897	49888	75867	87812	79375	50215

Combined total of plant and ACP samples tested from 2008 – September 2020 is 902,636.

Tables 1 and 2. Tally of positive detections by county and city as of 9/28/2020

County	+ Sites	+ Trees	+ ACP
Orange	71.3%	75.0%	67.6%
LA	26.1%	23.0%	26.3%
Riverside	1.7%	1.3%	4.2%
San Bernardino	0.9%	0.7%	1.9%
Total	100%	100%	100%

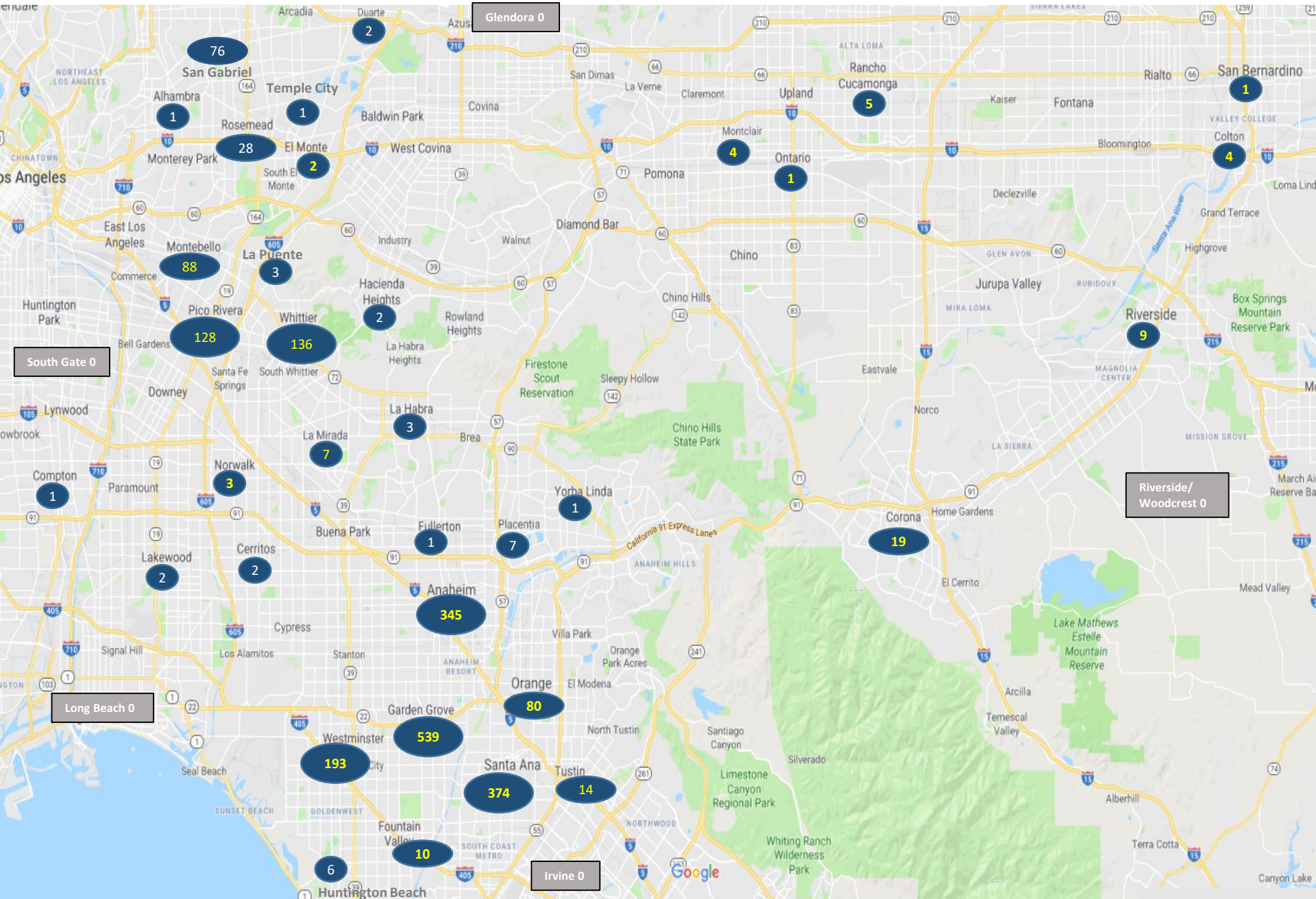
Positives	# Sites	# Trees	# ACP samples
Orange County			
Anaheim	245	345	88
Garden Grove	345	539	56
La Habra	2	3	1
Fullerton	2	1	2
Santa Ana	264	374	35
Westminster	127	193	11
Yorba Linda	2	1	2
Orange	62	80	10
Tustin	11	14	3
Huntington Beach	6	6	0
Placentia	8	7	2
Fountain Valley	4	10	0
Irvine	1	0	1
Total	1079	1573	211
Los Angeles County			
Alhambra	1	1	0
San Gabriel	60	76	6
Cerritos	3	2	2
Hacienda Heights	2	2	1
La Puente	4	3	1
Lakewood	2	2	0
Norwalk	4	3	2
Pico Rivera	106	128	36
Rosemead	23	28	4
Whittier	111	136	19
Duarte	1	2	1
Temple City	1	1	1
Montebello	62	88	1
El Monte	3	2	1
Compton	1	1	0
Glendora	1	0	1
La Mirada	8	7	4
South Gate	1	0	1
Long Beach	1	0	1
Total	395	482	82
Riverside County			
Riverside	10	9	4
Corona	16	19	9
Woodcrest	0	0	0
Total	26	28	13
San Bernardino County			
San Bernardino	2	1	1
Montclair	4	4	0
Ontario	2	1	1
Colton	4	4	3
Rancho Cucamonga	2	5	1
Total	14	15	6
Grand Total	1514	2098	312

Table 3. Annual tally of positive trees per city

Cities	2012	2015	2016	2017	2018	2019	9/28/2020	Total
Anaheim				132	109	90	14	**345**
Garden Grove				13	348	115	63	**539**
La Habra				1	0	2	0	**3**
Fullerton				1	0	0	0	**1**
Santa Ana					44	168	162	**374**
Westminster					15	175	3	**193**
Yorba Linda					1	0	0	**1**
Orange					31	14	35	**80**
Tustin					5	8	1	**14**
Huntington Beach						6	0	**6**
Placentia						7	0	**7**
Fountain Valley							10	**10**
Irvine								**0**
Hacienda Heights	1	0	1	0	0	0	0	**2**
San Gabriel		10	17	33	10	6	0	**76**
Cerritos			1	1	0	0	0	**2**
Pico Rivera				67	35	18	8	**128**
Whittier				18	80	23	15	**136**
La Puente					0	3	0	**3**
Lakewood					1	1	0	**2**
Norwalk					1	0	2	**3**
Rosemead					17	11	0	**28**
Duarte					2	0	0	**2**
Temple City						1	0	**1**
Montebello						84	4	**88**
El Monte						1	1	**2**
Compton						1	0	**1**
Alhambra						1	0	**1**
La Mirada							7	**7**
Glendora								**0**
South Gate								**0**
Long Beach								**0**
Riverside				3	0	4	2	**9**
Corona						15	4	**19**
Montclair						2	2	**4**
San Bernardino							1	**1**
Ontario							1	**1**
Colton							4	**4**
Rancho Cucamonga							5	**5**
Total	**1**	**10**	**19**	**269**	**699**	**756**	**344**	**2098**

Orange
Los Angeles
Riverside
San Bernardino

Fig 3. HLB+ Trees. As of 9/28/2020, a total of **2,098 HLB+** trees have been detected and removed: **482** from Los Angeles Co, **1,573** from Orange Co, **28** from Riverside, and **15** from San Bernardino Co. Only CLas+ ACP was detected in Glendora, South Gate, Long Beach, Irvine, and Woodcrest.





HLB Detection, Delimitation, and Tree Removal Updates

Southern District
Oct 7, 2020

Detection in Rancho Cucamonga

- New area in San Bernardino County
- Total 5 HLB Positive Trees
  - 4 trees at the same property
    - Removed one tree, owner refusing to remove other three trees
    - Total host trees on site were 7
  - 1 tree on the adjacent property
    - Pending removal
- Surveyed and Treated the find sites & the adjacent properties
- An ACP + with *CL*as was also detected at the find site

Delimitation Survey

County	Active Areas
Orange	City of Orange, Santa Ana, Garden Grove
Los Angeles	Whittier, La Mirada
Riverside	City of Riverside
San Bernardino	Rancho Cucamonga

Quadrant Survey

(Find Site, Adjacent, Inconclusive)

County	# Samples
Orange	369
Los Angeles	452
San Bernardino	48
Riverside	34

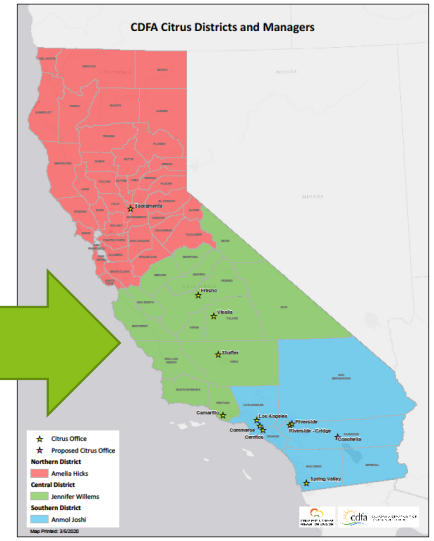
HLB Positive Trees- September

County	Tested Positive	Trees Removed	Pending Removal
Orange	29	56	26
Los Angeles	1	5	7
Riverside	2	3	0
San Bernardino	5	1	4
TOTAL	**37**	**65**	**37**

Warrant Properties

County	Number	Anticipated Execution
Orange	3	Mid Oct
Los Angeles	6	Mid to Late Oct

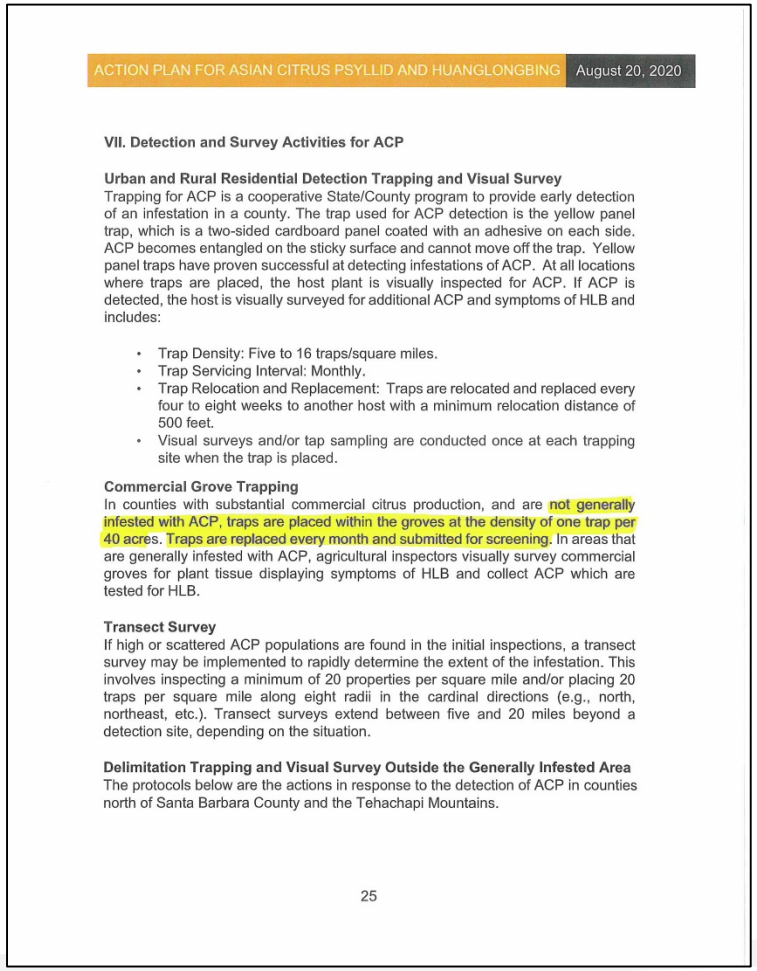
Commerical Grove Trapping Discussion



- Uses of Yellow Panel Traps
  - Detection trapping
  - Delimitation trapping
  - Commercial Grove trapping

- All of these trapping scenarios are serviced on a monthly basis, except commercial grove traps in the Central Valley.

Commercial Grove Trapping Discussion



ACTION PLAN FOR ASIAN CITRUS PSYLLID AND HUANGLONGBING August 20, 2020

VII. Detection and Survey Activities for ACP

Urban and Rural Residential Detection Trapping and Visual Survey
Trapping for ACP is a cooperative State/County program to provide early detection of an infestation in a county. The trap used for ACP detection is the yellow panel trap, which is a two-sided cardboard panel coated with an adhesive on each side. ACP becomes entangled on the sticky surface and cannot move off the trap. Yellow panel traps have proven successful at detecting infestations of ACP. At all locations where traps are placed, the host plant is visually inspected for ACP. If ACP is detected, the host is visually surveyed for additional ACP and symptoms of HLB and includes:

- Trap Density: Five to 16 traps/square miles.
- Trap Servicing Interval: Monthly.
- Trap Relocation and Replacement: Traps are relocated and replaced every four to eight weeks to another host with a minimum relocation distance of 500 feet.
- Visual surveys and/or tap sampling are conducted once at each trapping site when the trap is placed.

Commercial Grove Trapping
In counties with substantial commercial citrus production, and are not generally infested with ACP, traps are placed within the groves at the density of one trap per 40 acres. Traps are replaced every month and submitted for screening. In areas that are generally infested with ACP, agricultural inspectors visually survey commercial groves for plant tissue displaying symptoms of HLB and collect ACP which are tested for HLB.

Transect Survey
If high or scattered ACP populations are found in the initial inspections, a transect survey may be implemented to rapidly determine the extent of the infestation. This involves inspecting a minimum of 20 properties per square mile and/or placing 20 traps per square mile along eight radii in the cardinal directions (e.g., north, northeast, etc.). Transect surveys extend between five and 20 miles beyond a detection site, depending on the situation.

Delimitation Trapping and Visual Survey Outside the Generally Infested Area
The protocols below are the actions in response to the detection of ACP in counties north of Santa Barbara County and the Tehachapi Mountains.

25

- ACP/HLB Action Plan commercial grove trapping service interval is monthly
- The current servicing schedule for Commercial Groves in the Central Valley is bi-weekly
- Guidance on moving forward-
  - Adhere to Committee Approved Action Plan or amend the action plan and continue to trap on a bi-weekly schedule?

Commercial Grove Trapping Discussion

Monthly Servicing

- Pros to Monthly servicing:
  - Reduced CASS salary expenditures
  - Reduced trapping supply costs (**$16,971**/year for yellow panel traps)
  - County and Grove trapping would be on the same schedule.
- Cons to Monthly servicing:
  - Delay in identification of ACP

Bi-Weekly Servicing

- Pros for Bi-Weekly servicing:
  - ACP detected earlier
- Cons for Bi-Weekly servicing:
  - Additional workload for screeners
  - Increased CASS salary expenditures
  - Increased trapping supply costs (**$33,942**/ year for yellow panel traps)

Commercial Grove Trapping Discussion

In conclusion:

- If the Central Valley commercial grove traps remain on a bi-weekly servicing schedule, the workload will increase for the trap screeners (PDEP is no longer screening ACP traps), trapping supply costs and salary expenditures remain high. Action Plan will need to be amended to reflect the bi-weekly servicing schedule.
- If the Central Valley commercial grove traps follow the same monthly servicing schedule as all other ACP traps, then Program expenditures will be reduced, while covering the same citrus acreage. The Action Plan would remain current.



HLB Treatment Updates

Southern District
Oct 7, 2020

AW Treatments - Summer/Fall 2020

Foliar only (Two mile San Diego Border Buffer, Hemet and San Bernardino)
Both Systemic and Foliar (UCR, Ventura, Santa Barbara, and San Pasqual)

Areas	Start Date	End Date	% Completed	Anticipated Completion
UCR	8/24/20	9/24/20	100 %	Completed
Hemet and San Bernardino	9/14/20	N/A	35%	End Oct
Ventura	8/24/20	N/A	50%	End Oct
San Barbara	9/14/20	9/22/20	100%	Completed
San Pasqual/San Diego	8/24/20	8/24/20	100%	Completed
Two mile border buffer (Tecate & San Ysidro)	9/8/20	N/A	90%	First week of Oct

Delimitation Treatments- Active Areas

- **Orange County**: Orange, Garden Grove, Santa Ana
  - Retreatments in Fullerton, Tustin, and Yorba Linda
- **Riverside County**: Retreatment in the City of Riverside
- **San Bernardino County**: Not yet, only find site and adjacent properties

Delimitation Data

Areas	Total Properties	Properties Treated	No Host Properties	Completion %
GG 43, 46, 48	610	272	207	80%
ORG 22,23,24 25	1,053	493	444	87%
SANA 38	395	95	33	33%
TUS 1,2,4 Retreatment	618	258	360	100%

Public Meetings

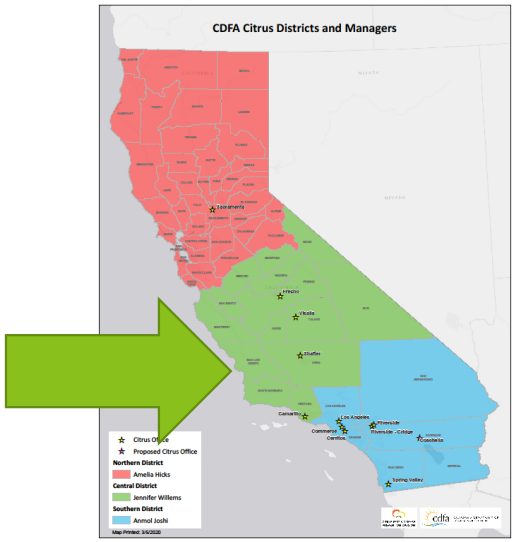
Los Angeles County	San Bernardino County
Sept 29, 2020	Oct 6, 2020
La Mirada, Whittier, South Gate, and Long Beach	Rancho Cucamonga

Central District Update – Oct. 2020



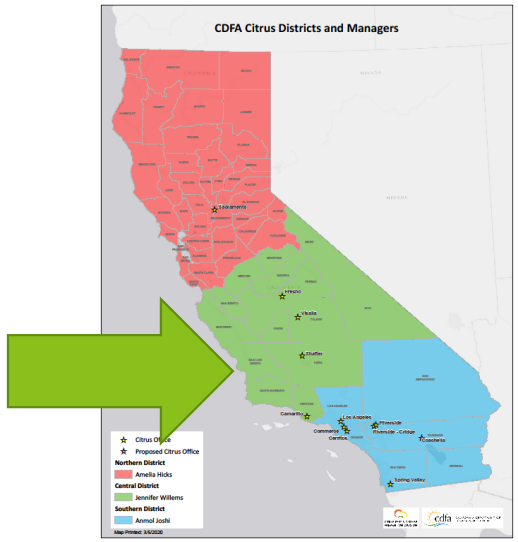
- Kern Co. ACP Detections
  - Several ACP detections in Arvin near and within an organic grove between Sept. 15 and Sept. 28 (same grove as the June detection)
  - ResCom and CDFA staff treated find sites/adjacents at Bakersfield proper and two properties near Edison (rural residence) (find dates 9/15-9/17)
  - “Knock and talk” completed treatment on 9/24
  - Judy Zaninovich (GL) confirmed grower treatment compliance from June detection. Notified grower of additional finds and is working to get treatment conducted. Conventional growers nearby that had detections were also notified, and treatment will be conducted.

Central District Update – Oct. 2020



- Kings Co. ACP Detection
- Sept. 17- 1 ACP- Kettleman City- residential
  - ResCom and CDFA staff treated find site- 9/24; Kings Co. personnel will try to help make contact with the adjacent.
  - No further detections

Central District Update – Oct. 2020



- Risk Survey continues for the valley
- Fresno and Madera ACP trapping is on-going
- Begin reducing the number of Fresno staff assisting with San Jose treatment.

Northern District Update – October 2020

Santa Clara (City of San Jose) Treatment and Detection

- Additional adult and nymph ACP detections resulting in treatment area expansions.
- Find sites and adjacent properties are surveyed for ACP and HLB.
- Public meetings are held to notify residents of activity in the area.
- Ongoing monthly delimitation trapping.
- Ongoing monthly *Tamarixia* releases.

HLB Risk Survey

- Cycle 2 being conducted in Alameda and Santa Clara counties.
- Survey in additional counties beginning in October.

Statewide GL Coordinator Update for the 10/7/20 CPDPC Meeting

Staffing

The Riverside and San Diego GL positions have closed as of 9/23 and 9/16 respectively. As of 9/28, we have no candidate for Riverside, and one qualified candidate for San Diego. Hopefully, final screening will be completed by the Ops Meeting.

Kings County ACP Detections

There are very few hosts and no commercial groves near the recent finds. The County will do the trapping and they will try to contact the owner of the second property to allow treatment.

Fresno County – Sylvie Robillard

Still no yellow sticky trap detections in Fresno and Madera Counties. Fresno County is approaching two years without a find in commercial citrus and one year since any find: Coalinga in July of 2020. Sylvie continues to send out updates and attend meetings.

Northern Tulare County- Teri Blaser

There have been no new live or trap finds of Asian citrus psyllid in Northern Tulare County. Teri is in the process of contacting growers to keep them informed of recent finds in Tulare and Kern Counties. No neglected or abandoned groves have been reported to Teri as of this time.

Southern Tulare County – Jessica Leslie

For the month of September 2020, there have been no new ACP finds in Southern Tulare County. The last ACP trap detection was back in the month of June and has been the only find so far in Southern Tulare County for 2020. There has not been any HLB trees found in SJV as of now. There has been a total of **2082** HLB confirmed trees within the entire state of California. All of those confirmed trees remain within LA, Riverside, San Bernardino, and Orange Counties. Jessica has continued to send out her monthly e-mail updates to all interested parties as well as reaching out to current and prospective PMA team leaders. If anyone who is not currently receiving her monthly e-mail updates is interested, please e-mail or call Jessica.

Kern County – Judy Zaninovich

Judy reports there have been several ACP detections in Kern County in the last few weeks. There were 3 single adult ACP trapped in residential properties – 1 in southeast Bakersfield and 2 in neighboring rural residences just northeast of the city of Arvin. There was no commercial citrus within 800 meters of these residential finds.

Additionally, there have been several recent ACP trap detections in commercial citrus. One single adult ACP trap find in Edison, in the area of E. Panama Lane and Tower Line Road, and 6 detections in commercial citrus south of Arvin near Rancho Road south of Sebastian. All

growers within the 800-meter treatment areas were quickly notified and are fully participating in making the requested treatments.

Surveys performed by CDFA staff have not found any evidence of breeding populations at this time.

Currently, the Glassy-winged Sharpshooter Area-wide Management Program is working with many citrus growers in the Highway 65 region for an area-wide treatment for the pest. These treatments will also help in suppressing any un-detected ACP populations.

Santa Barbara County - Cressida Silver

Santa Barbara County growers are finishing their fall treatments. CDFA buffer treatments are complete. Cressida sent out treatment reminders with her regular email update to growers, PCAs, PCOs, packing house reps and other industry members. County, CDFA, and CPDPC members are cc'ed on those updates as well. Cressida will begin collecting PURs from the County next week to start the process of updating the grower list and reconciling it with fall treatments to determine percent participation in each PMA.

San Luis Obispo County - Cressida Silver

There have been no new detections in San Luis Obispo County. Delimitation traps in Nipomo have been removed as it has been more than two years since ACP was trapped there. Cressida included this information in her regular email update to growers, PCAs, PCOs, packing house reps and other industry members. County, CDFA, and CPDPC members are cc'ed on those updates as well.

Ventura County - Sandra Zwaal and Cressida Silver

The second Fall Ventura county ACP Area-wide treatment schedule began mid-September and will end mid-November. Both grower liaisons, Sandra, and Cressida, continue to encourage ACP areawide treatments by reminding growers and following up when there is no record of treatment. They routinely update the grower list with PURs and grove updates.

San Bernardino County – Sandra Zwaal

There are 7 commercial groves in the new Rancho Cucamonga 5-mile HLB quarantine. All grove owners have been contacted by grower liaison, Sandra Zwaal and she has provided current contact information to CDFA for regulatory actions with the grove owners and/or managers.

The second Fall ACP areawide treatment schedule begins mid-October and ends mid-November. The San Bernardino Task Force performed their first Zoom meeting that included CDFA guests, Keith Okasaki and Paul Figueroa, to review the new mitigation protocols that took effect August 4, 2020 and to review the buffer treatment zones. Sandra provided attendees with an update on local HLB numbers and quarantine zones and emphasized the importance of being diligent with their ACP areawide treatments.

Riverside County – Vacant

Riverside –

Coachella – Riverside County Citrus Pest Control District No. 2 Tim Hoestery, Manager

The District has completed its CA Red Scale summer trapping program and will begin to focus on ACP as the temperature starts to cool down.

Our ACP AWT dates run from Sep. 6 to Sep. 26 for conventional chemigation applications, Sep. 11 to Oct. 2 for conventional foliar applications, and Sep. 7 to Sep. 21 for organic applications. The organic growers are then required to conduct a 2nd application within 2 weeks of their 1st application. During this time the District will be tracking down and treating various hedgerows or other small plots of citrus that have 25 or more trees but are not production farms. Upon completion of these treatments, the District will be conducting beneficial releases at locations with either less than 25 trees, or where the trees did not get treated.

Lastly the District will continue our intensive tree removal program of citrus trees that are in close proximity to commercial groves and are difficult and costly to treat. To date the District has removed 3,412 citrus trees at 48 different locations. A couple of locations are tentatively scheduled to have trees removed shortly,

Imperial County – Curtis Pate

There have been no recent detections of ACP in Imperial Valley orchards.

August/September systemic AWT went well, at or near 100% of conventional acres, with the only lingering treatments of foliar for organic orchards. Those treatments are expected to start on the 28th of September with the second treatment concluding no later than October 16th.

Lemon harvest continues with relatively low volume.

San Diego County – Vacant

Enrico Ferro reports the San Diego PCD treatment dates are: Pauma Valley and San Pasqual Valley September 14-28 foliar, September 1-14 systemic.

Anza Borrego October 1-15 foliar, September 22- October 5 systemic.

Jason Schwartze and the CAC staff report:

1. Duties for Neglected Abandoned Citrus Groves will be transferred to another inspector (Justin Aquino), as the previous inspector has been reassigned to support role in county's COVID response.
    a. Justin will review acreage identified as neglected/abandoned, and begin making contact with grove owners as needed.

2. Jasmine and the Citrus Quarantine Program team have been conducting routine inspections with growers/packers/shippers.

Neglected/Abandoned Groves

No changes reported by the CACs. The GLs continue to work with the growers and CAC staff to address any suspected abandoned groves.

County	BOS Sup (Y/N)	Co Coun Sup (Y/N)	#Groves Report'd	#Groves Confmd N/A	Total Acs (100 trees/ac) Confrmd	#owners contactd	#1st Letrs	#2nd Letrs	#3rd Letrs	#Heard	Hears won	#Hears lost	Groves Remvd	Total Acres Remvd	#Groves Rem'd	Acres Rem'd	#Groves Pndg	Total Acres Pndg			
Fresno																					
Kern	Y	Y	3	1	60.36	1											1	60.36			
Madera																					
SLO	Y	Y																			
Tulare	Y	Y	88	88	1148	88	44			1	1	0	66	908	9	79	13	161			
Subtotal			91	89	1208.36	89	44			1	1	0	66	908	9	79	14	221.36			
Imperial	Y	Y	1	1	6	1							1	6							
LA																					
OC																					
Coachella			48	48	34.12	48							48	34.12					Coachella is a PCD in Riverside		
Riverside	Y	Y	92		264.81	43	43	43	11				22				35				
San Brdo																					
SD	Y	Y	108	61	1693	61	39	28	24				37	774		71	919				
Sta Barb																					
Ventura	Y	Y																			
Subotal			108	110	1997.93	153	82	71	35	0	0	0	108	814.1	0	71	954	0			
Total			340	199	3206.29	242	126	71	35	1	1	0	174	1722	9	150	968	221.36			

Data Department Update

Rick Dunn

CRB Director of Data and Information Management

10/7/2020

Data Management Department Activity,

October 7, 2020
Richard Dunn - Data, Information & Management Director

UCKAC GIS Facility

- Robert Johnson continues to assist with Statewide Citrus Layer maintenance and keeping the UCANR interactive web map updated with ACP, Biocontrol, CLas+ACP, and HLB detection data. http://ucanr.edu/acpmap

CRB Data Department

- Director is supporting Psyllid Management Area group activities and regional ACP / HLB Task Force groups in various counties with mapping support services. Revising the Statewide Commercial Citrus Layer as information is received. Ventura county is in progress. Implementing Enterprise GIS to enhance interactive map production. Researching modern handheld hardware and software options to replace the NOMAD data collection system.
- GIS Analyst Nancy Ying has completed online course entitled “Migrating from ArcMap to ArcGIS Pro” and is conducting routine data scrubbing, quality control, and map production tasks.
- DATOC Coordinator Holly Deniston-Sheets is updating content on both the public and restricted DATOC websites as well as facilitating the expert panel as they address requests for analysis.
- Staff continue to support the CPDPP commercial grove trapping / sampling program. Supplying trappers with individualized GIS Trapsite and Samplesite layers updated weekly for use on their NOMADs. We produce and distribute ACP / HLB detection overview maps, PDR 800M maps, Biocontrol Workgroup activity maps, CPDPP Trapping progress maps, CPDPP Sampling progress maps, Trapping catch per day maps, Sampling close-up maps, and ArcGIS Online detection / collection heat maps, as well as monthly summary data, ACP situation data, and statistical reports.