



HLB Detection, Delimitation, and Tree Removal Updates

Southern District

October 11, 2023

HLB Detection Updates

- Rancho Bernardo, San Diego County.
 - Detected three more trees in August, no detections afterwards.
 - All infected trees were removed and disposed off.
 - Delimitation survey and treatments were completed.
 - Just one pending plant samples PDR.
 - Twelve refusal properties are pending survey and treatments, seeking a warrant.
- Multiple detections in the same neighborhoods of Ontario and Corona.
- The detections in Los Angeles and Orange Counties are all over the place in familiar areas such as Anaheim, Santa Ana, Garden Grove, Orange, Irvine, Pico Rivera, Duarte, Downey, and El Monte.

HLB Delimitation Survey

Areas	Total Properties	Properties Surveyed	No Host Properties	Refusals/No Contact	Completion Percentage
Duarte (2-3,6-18,34-39)	638	570	324	17/28	89%
Temple City (9)	67	60	14	3/4	100%
Los Angeles (2-4)	748	697	515	10/23	93%
Claremont (1)	226	215	94	3/8	100%
Fontana (15-16)	73	70	19	1/3	100%
Chino (9)	16	16	9	1/0	100%
Ontario (40-53)	1,488	1,069	770	15/21	72%
San Diego (14-15)	15	15	7	0/0	100%
Jurupa Valley (5-6,9)	164	127	56	1/7	77%
Corona (34-44)	1,545	1,191	956	13/16	77%

HLB Delimitation Survey (Find sites and Adjacent)

Areas	Total Properties	Properties Surveyed	No Host Properties	Refusals/No Contact-Pending	Completion Percentage
Pico Rivera (24,29)	115	79	36	5/4	69%
Rosemead (6,10)	43	37	28	1/3	86%
Orange (Multiple exp.)	126	18	8	1/0	14%
Santa Ana (Multiple exp.)	81	47	13	6/10	58%
Cypress	4	1	0	1/0	25%
Tustin	20	14	6	2/2	70%
Anaheim (Multiple exp.)	98	21	8	0/1	21%
Buena Park (2-3)	9	4	3	0/1	44%

Quadrant Survey 2023

(Find sites, Adjacent, Inconclusive samples)

County	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Los Angeles	684	241	92	118	1,876	506	115	282	74			
Orange	656	923	753	1880	680	377	271	290	296			
Riverside	62	140	188	32	84	283	26	64	196			
San Bernardino	106	138	84	260	287	292	235	336	242			
San Diego	28	60	382	107	127	107	40	13	1			
Imperial	0	0	0	0	0	0	0	0	0			
Total	1,536	1,502	1,499	2,397	3,054	1,565	670	985	809			

HLB Positive Trees (July thru September 2023)

County	Detected	Removed	Cumulative Pending
Los Angeles	126	214	33
Orange	626	509	599
San Bernardino	73	57	36
Riverside	20	17	4
San Diego	6	6	0
TOTAL	806	803	672



California Department of Food & Agriculture Plant Pest Diagnostics Center HLB Testing Program 2023

Total number of plant and ACP samples per month – Fig. 1a, Fig1b

Number of samples tested for HLB per year from 2008 –2023 – Fig. 2

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

Percent infection per year from 2008 – June 2023 – Fig. 3

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

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

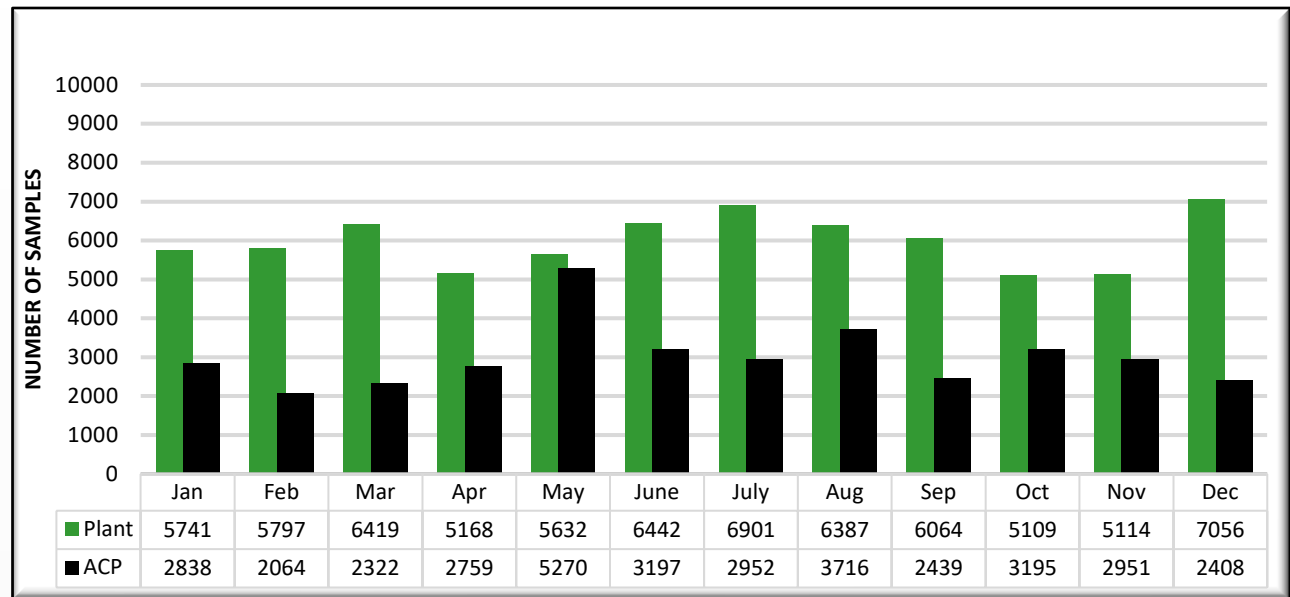


Fig 1b. 2023 -
Total number
of plant and
ACP samples
submitted per
month.

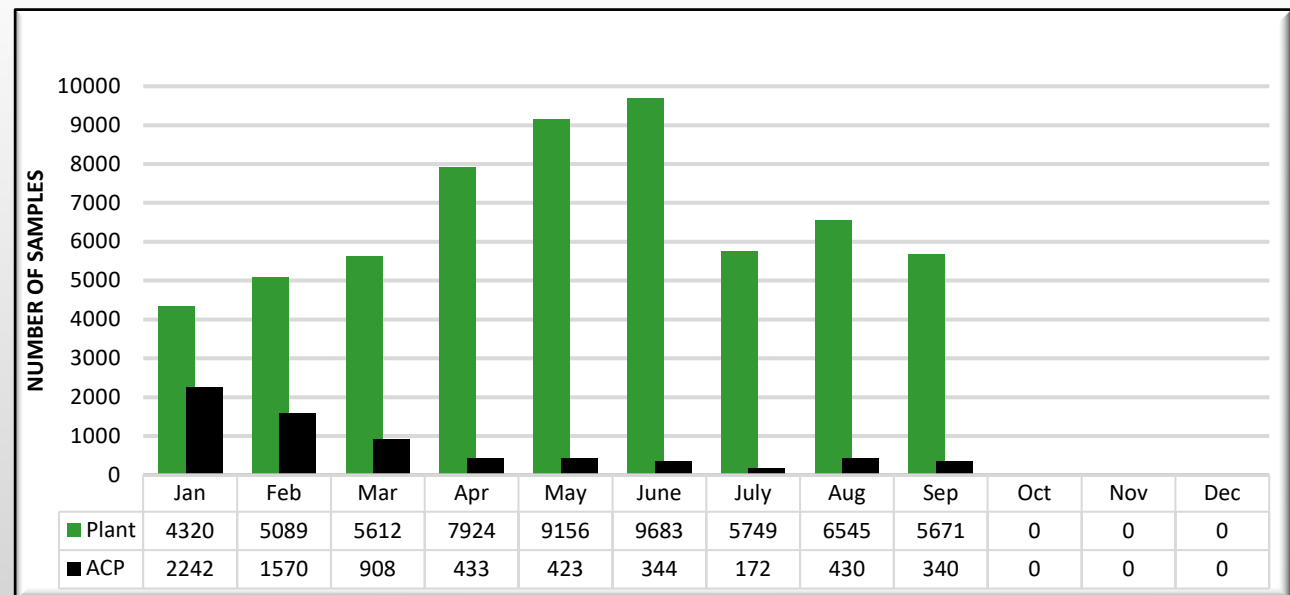
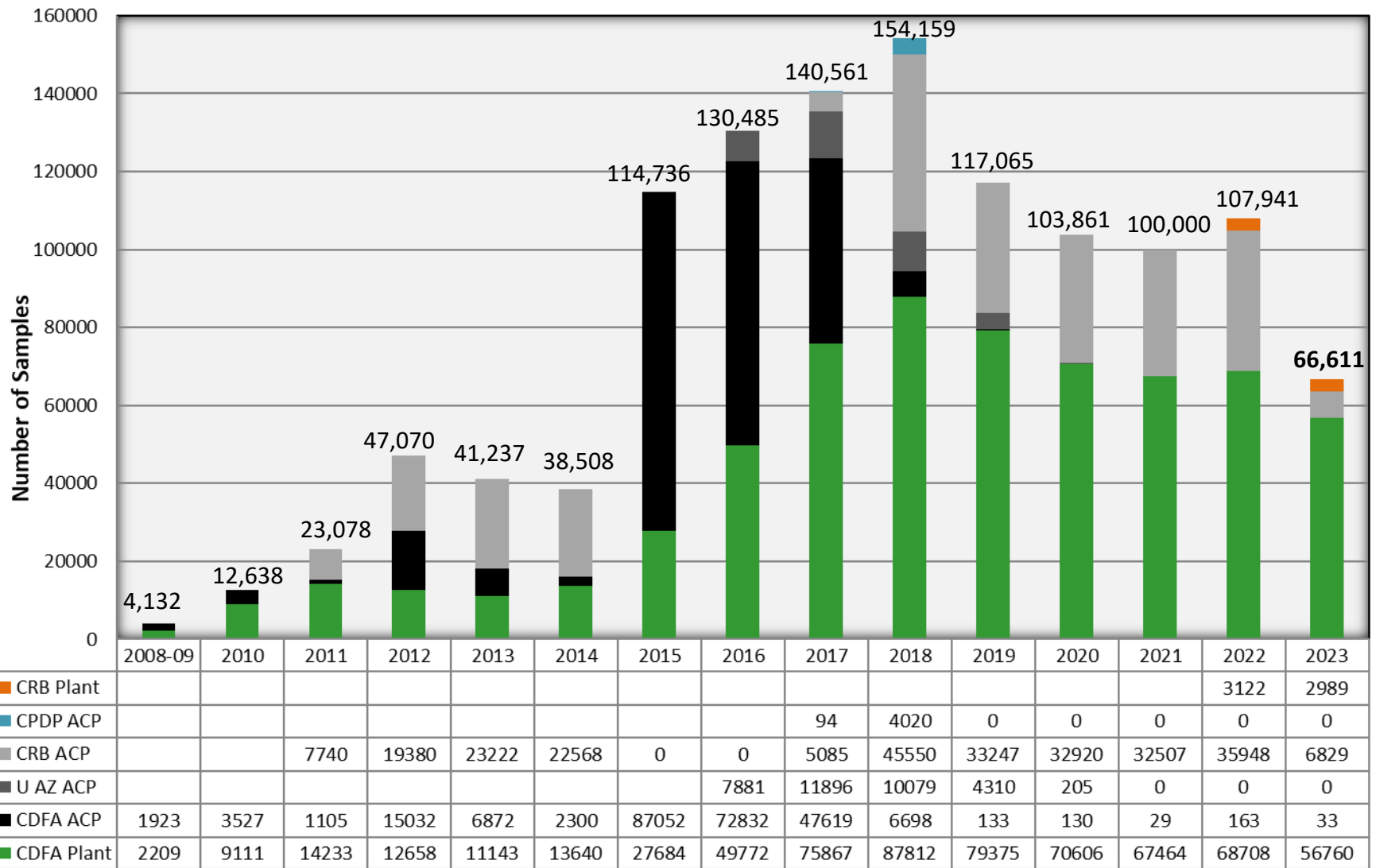


Fig 2. Number of samples tested for HLB per year from 2008 – 2023.



Combined total of plant and ACP samples tested from 2008 – 2023 is 1,202,082.

Table 1. Tally of positive sites, positive trees, and CLas+ ACP samples by county and city as of 10/4/2023.

HLB Positive Detections			
City	# Sites	# Trees	# ACP samples
Orange County			
Garden Grove	645	1017	112
Santa Ana	642	985	93
Anaheim	783	1280	155
Westminster	361	595	20
Orange	261	346	40
Tustin	52	64	10
Fountain Valley	15	21	3
Huntington Beach	26	29	2
Placentia	82	109	15
La Habra	5	6	1
Fullerton	15	22	6
Yorba Linda	7	5	5
Irvine	10	10	3
Costa Mesa	7	10	3
Brea	1	1	0
Buena Park	8	15	2
Cypress	5	1	5
Stanton	5	6	1
Midway City	4	8	0
Los Alamitos	1	0	1
Total	2935	4530	477
Los Angeles County			
Whittier	204	251	44
Pico Rivera	177	246	64
Montebello	80	111	2
San Gabriel	76	94	7
Rosemead	50	69	7
Paramount	29	35	5
La Mirada	53	72	6
La Puente	37	40	7
Norwalk	15	12	5
Cerritos	7	9	5
Hacienda Heights	4	4	1
Lakewood	5	6	0
Duarte	71	103	3
El Monte	73	102	8
South El Monte	23	43	4
Alhambra	1	1	0
Temple City	9	8	2
Compton	1	1	0
Glendora	1	0	1
South Gate	9	10	4
Long Beach	8	8	3
Los Angeles	4	3	1
Downey	27	34	5
Carson	4	3	1
Monrovia	20	28	0
Rowland Heights	2	0	2
Pomona	10	13	2
Artesia	7	8	0
Bellflower	5	5	0
Monterey Park	1	1	0
West Covina	1	0	1
City of Industry	1	2	0
Claremont	1	0	1
Santa Fe Springs	2	1	1
Total	1018	1323	192
Riverside County			
Corona	101	143	24
Riverside	26	28	5
Eastvale	2	2	0
Jurupa Valley	20	23	4
Moreno Valley	1	1	0
Total	150	197	33
San Bernardino County			
Rancho Cucamonga	3	7	2
Montclair	8	7	1
Colton	6	11	3
San Bernardino	2	1	1
Ontario	165	272	21
Fontana	30	41	9
Chino	18	28	2
Total	232	367	39
San Diego			
Fallbrook	1	0	1
Oceanside	4	9	4
Pauma Valley	1	0	1
Vista	1	0	1
San Diego	26	42	0
Total	33	51	7
Ventura			
Santa Paula	9	13	3
Total	9	13	3
Grand Total	4377	6481	751

Table 2. Percent positives per county

County	Sites	Trees	ACP
Orange	67.1%	69.90%	63.5%
LA	23.3%	20.41%	25.6%
Riverside	3.4%	3.04%	4.4%
San Bernardino	5.3%	5.66%	5.2%
San Diego	0.8%	0.79%	0.9%
Ventura	0.2%	0.2%	0.4%
Total	100%	100%	100%

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

Sample type	Trees		ACP	
Risk-based Survey	439	7%	468	62%
HLB Response	6042	93%	283	38%
Total	6481	100%	751	100%

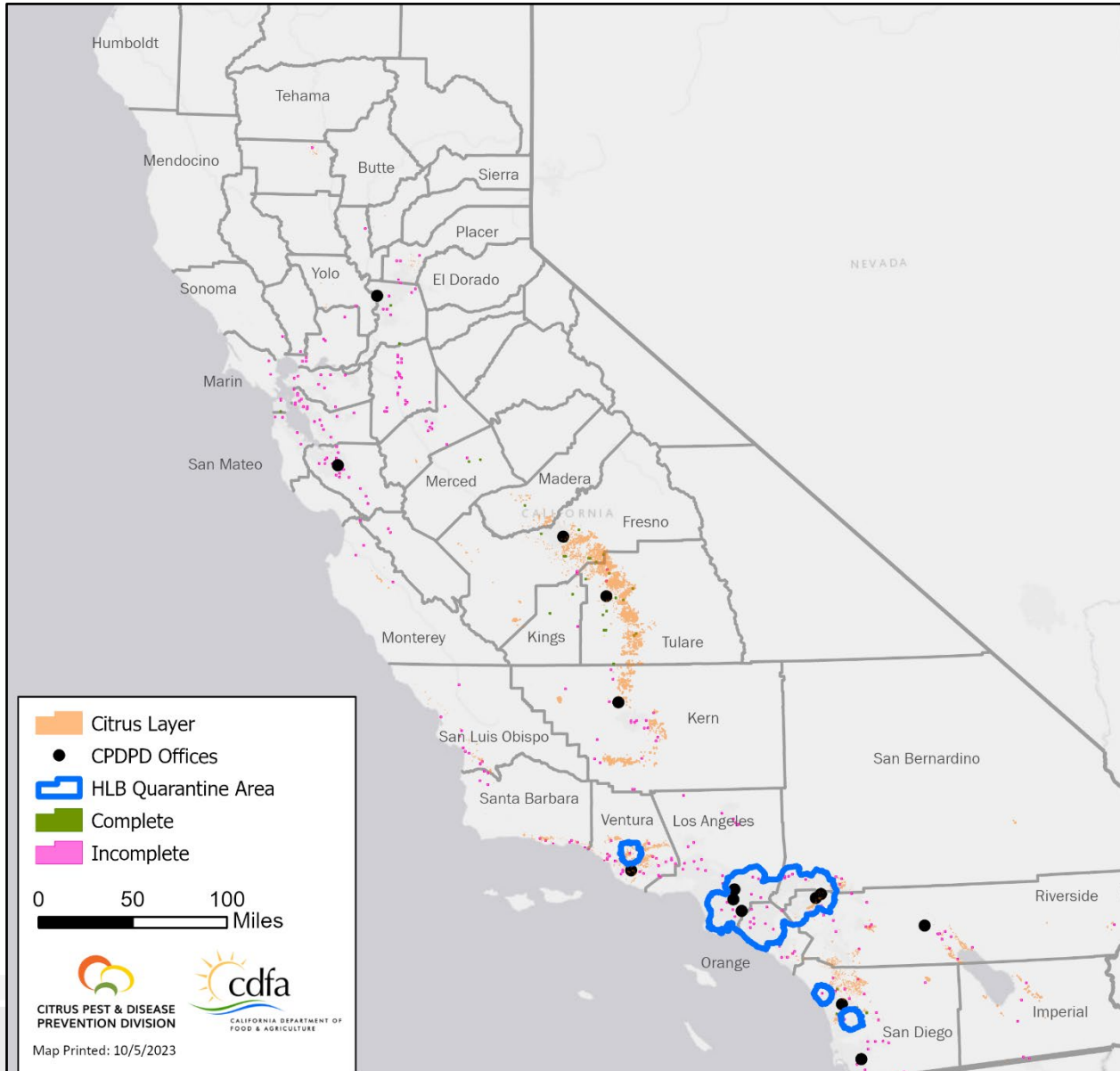
Fig 4. Number of positive detections from 2012 – 2023 per county as of 10/4/2023

	2012		2015		2016		2017		2018		2019		2020		2021		2022		2023		Total	
County	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP	Plant	ACP
Orange	-	-	-	-	-	-	147	66	553	69	585	55	407	24	434	38	849	47	1555	178	4530	477
Los Angeles	1	1	10	3	19	3	119	47	146	12	150	9	56	10	60	7	314	89	448	11	1323	192
San Bernardino	-	-	-	-	-	-	-	-	0	1	2	2	13	7	75	10	91	14	186	5	367	39
Riverside	-	-	-	-	-	-	3	3	0	0	19	9	12	2	20	0	88	14	55	5	197	33
San Diego	-	-	-	-	-	-	-	-	-	-	-	-	0	1	9	4	0	2	42	0	51	7
Ventura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	3	13	3
TOTAL	1	1	10	3	19	3	269	116	699	82	756	75	488	44	598	59	1342	166	2286	199	6481	751



Multi-Pest Survey Update
Operations Subcommittee Meeting
October 11, 2023

2023 Cycle 2



- Began August 2023
- 11% Complete
- Survey Complete in 1 of 34 Allocated Counties
- 803 Properties Visited
- 91 Properties Sampled
- 22 Entomology PDRs
- 73 Plant PDRs

2023 Cycle 2 – Southern California

Citrus Layer

Risk Survey Staff / Office


HLB Quarantine Area

Complete

Incomplete

0 10 20

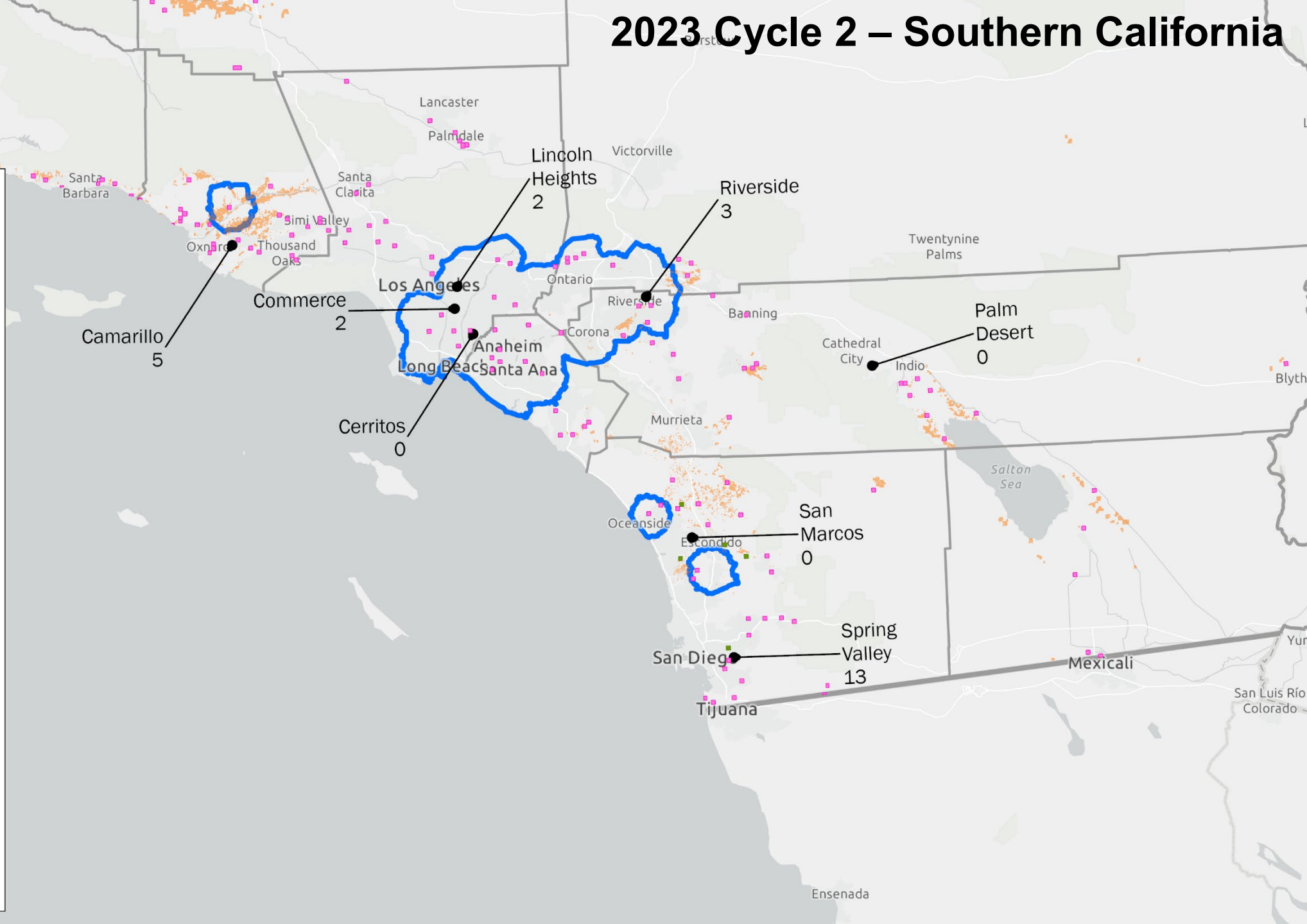
Miles



CITRUS PEST & DISEASE PREVENTION DIVISION

CALIFORNIA DEPARTMENT OF FOOD & AGRICULTURE

Map Printed: 10/5/2023



2023 Cycle 2 – Central California

 Citrus Layer

 Risk Survey Staff / Office

 HLB Quarantine Area

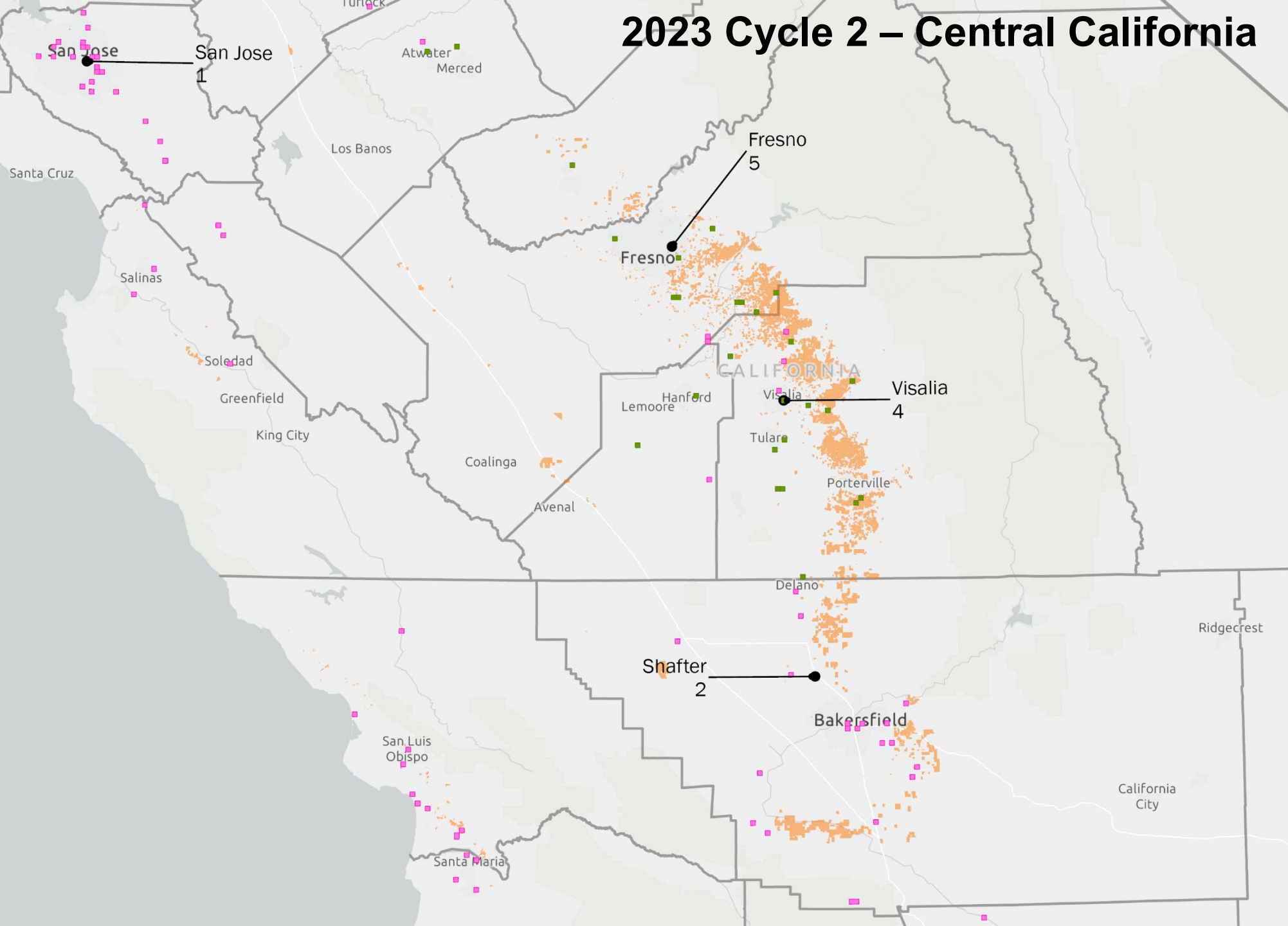
 Complete

 Incomplete

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Miles



Map Printed: 10/5/2023



2023 Cycle 2 – Northern California

Citrus Layer

Risk Survey Staff / Office

HLB Quarantine Area

Complete


Incomplete

0

20

40

Miles




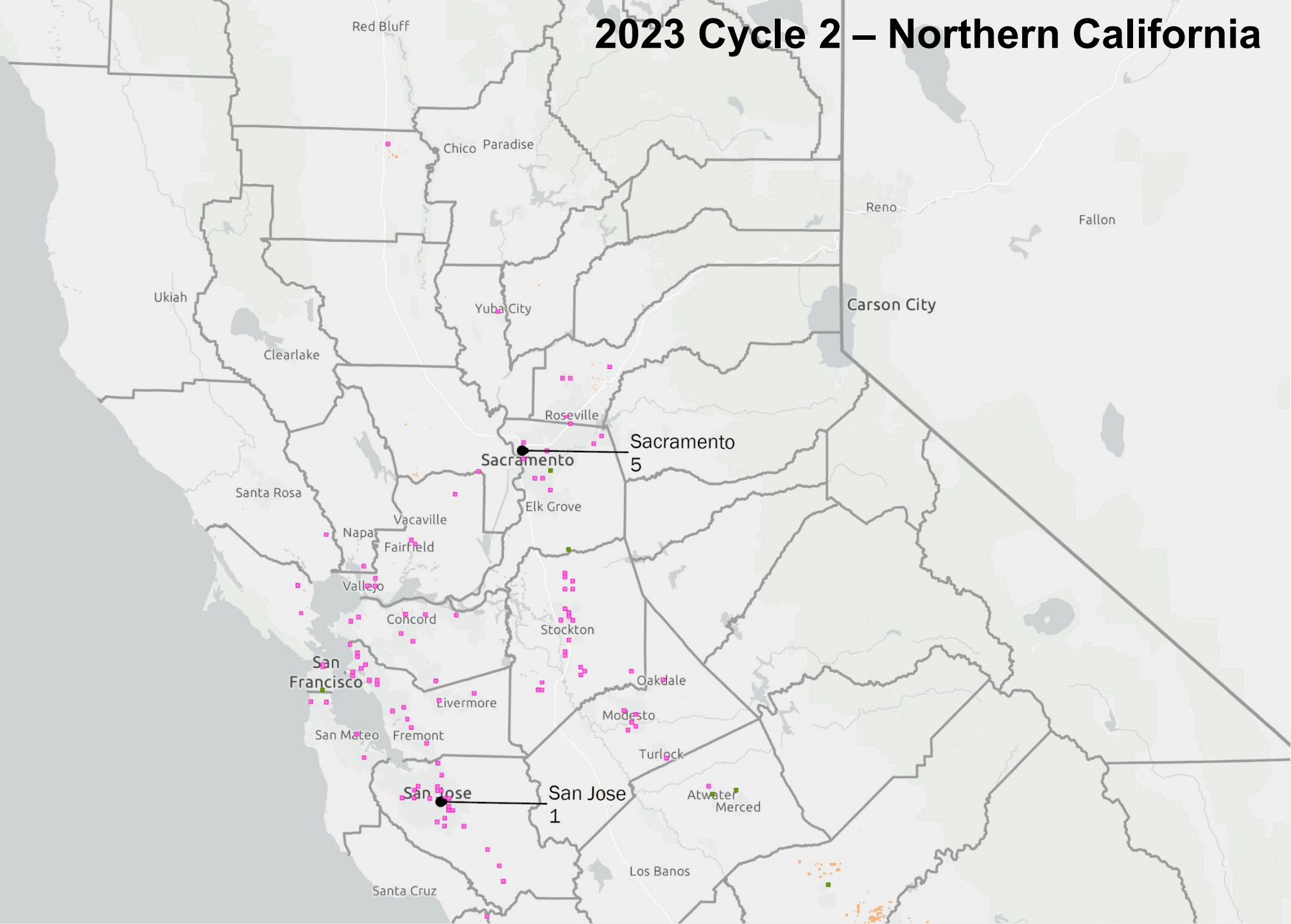
CITRUS PEST & DISEASE
PREVENTION DIVISION



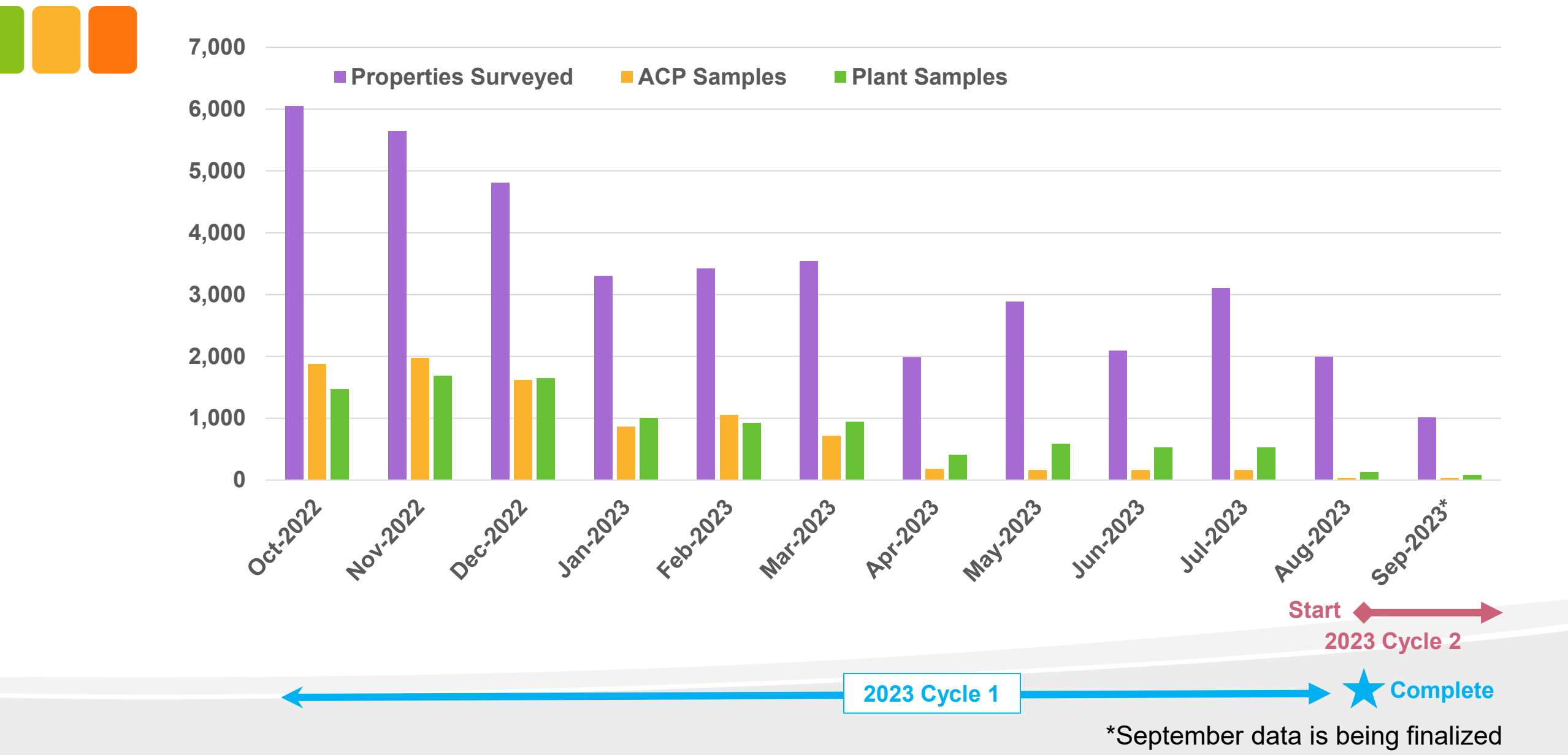
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CALIFORNIA DEPARTMENT OF
FOOD & AGRICULTURE

Map Printed: 10/5/2023





Statewide Trends (All Cycles)

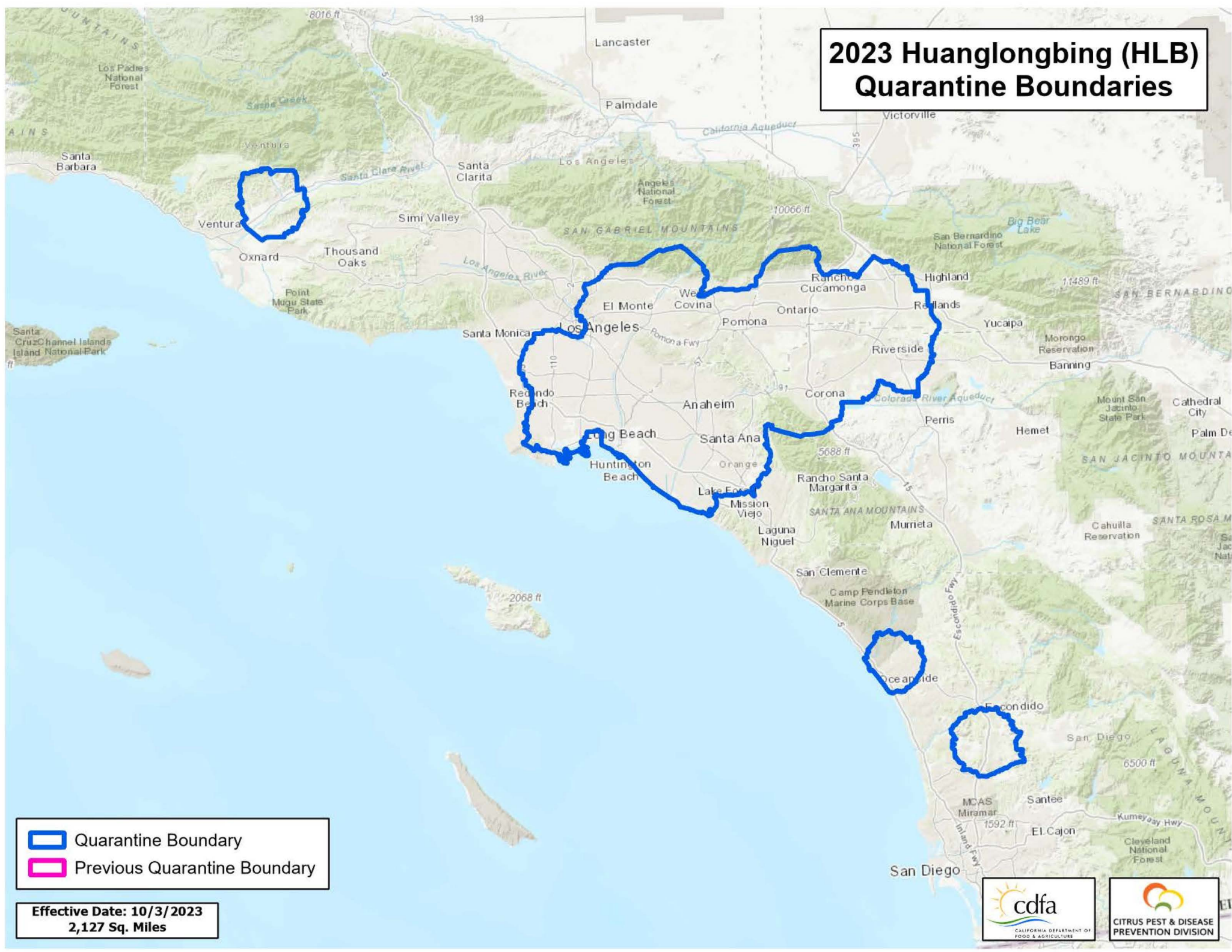


County Monthly Activity Report
October 2022 - July 2023

County	FY 2022-23 Budget	Percent Expended	CAs Issued	Grower Inspections	Transporter Inspections	Packer/Processor Inspections	Fruit Seller Inspections	Regulatory Incidents	NOVs	NOPAs
Fresno	\$84,424.26	100%	47	1	350	1	0	0	24	3
Imperial	\$55,892.01	55%	2	19	23	5	0	1	1	0
Kern (*1)	\$70,000.00	56%	80	7	468	17	0	0	3	0
Kings (*2)	\$20,035.30	75%	0	0	0	108	0	0	0	0
Los Angeles	\$263,358.11	64%	1	4	0	8	438	1	0	0
Monterey	\$14,227.50	69%	0	17	0	0	4	0	0	0
Orange (*1)	\$87,987.88	19%	0	46	2	0	0	0	0	0
Riverside	\$680,306.63	92%	26	170	1,078	2	39	20	11	1
San Bernardino (*1)	\$29,334.95	43%	8	9	1	0	0	3	1	0
San Diego	\$561,592.75	79%	9	485	401	77	113	0	2	0
San Luis Obispo	\$8,035.44	100%	10	2	0	0	0	0	0	0
Santa Barbara	\$15,147.08	100%	19	8	1	0	19	0	2	0
Tulare	\$340,031.38	96%	312	2	3,453	24	0	16	67	23
Ventura (*2)	\$200,951.41	100%	68	13	506	11	0	0	8	0
Total	\$2,431,324.70	82%	582	783	6,283	253	613	41	119	27

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

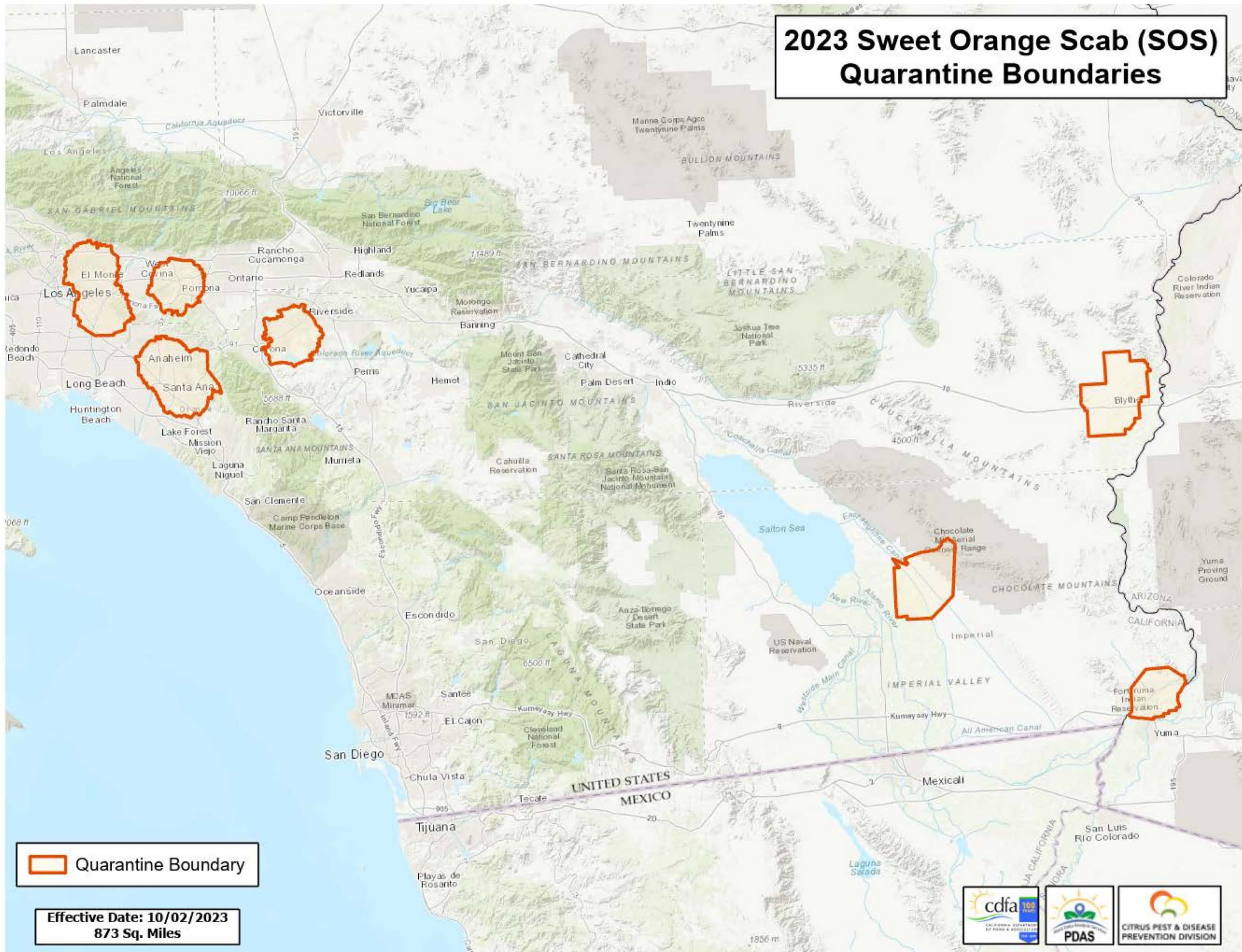
2023 Huanglongbing (HLB) Quarantine Boundaries



- Quarantine Boundary
- Previous Quarantine Boundary

Effective Date: 10/3/2023
2,127 Sq. Miles

2023 Sweet Orange Scab (SOS) Quarantine Boundaries



 Quarantine Boundary

Effective Date: 10/02/2023
873 Sq. Miles





HLB Treatment Updates

Southern District

October 11, 2023



Treatment Updates

- Delimitation treatments were conducted in the following areas:
 - Corona, Jurupa Valley, Ontario, Claremont, Chino, Costa Mesa, Placentia, Yorba Linda, Garden Grove, Santa Ana, Stanton, Anaheim, Duarte, Los Angeles, Whittier, and El Monte.
- Public meetings:
 - To treat delimitation areas in Riverside and San Bernardino Counties: August 29 and October 3, 2023.
 - To treat delimitation areas in Los Angeles and Orange Counties: August 30 and September 27, 2023.

HLB Delimitation Treatments

Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact	Completion
Corona (36-40)	421	135	191	11/18	77%
Ontario (41-48)	548	175	324	3/19	91%
Claremont (1)	229	123	97	2/7	100%
Chino (9)	16	5	9	1/1	100%
Jurupa Valley (5,9)	160	75	50	6/29	78%
Los Angeles (2-3)	852	209	599	13/30	95%
Duarte(11-16)	172	109	44	11/8	100%
Placentia (15)	73	26	46	0/1	100%
Yorba Linda (4)	108	49	44	14/1	100%
Costa Mesa (5-7)	331	92	226	8/5	100%

HLB Delimitation Treatments – Find Site and Adjacent

Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact	Status
La Puente	5	1	4	0/0	Completed
El Monte	28	19	9	0/0	Completed
Whittier	6	3	3	0/0	Completed
La Mirada	4	3	1	0/0	Completed
Placentia	3	2	1	0/0	Completed
Santa Ana	69	32	29	0/8	Ongoing
Stanton	26	9	9	1/6	Ongoing
Garden Grove	41	29	7	3/2	Completed
Anaheim	51	35	12	6/0	Completed

Southern District Staffing Updates

County	Permanent	Seasonal	Pending Hiring	Hiring Status
Los Angeles	29	5	One PPA I	Position advertised on 10/02/23
Orange	10	1	One PPA III and three PPA I	PPA III and two PPA I pending advertisement One PPA I advertised
Riverside and San Bernardino	15	9	One ES and two PPA I	Interviews were conducted for both an ES and one PPA I- conducting reference checks, One PPA I advertised on 9/27/23
San Diego and Imperial	16	0	Two PPA I	Waiting on MQ check for both positions, interviews tentative mid-Oct

Staff Distribution By Activities

Counties	Delimitation and other Surveys	ACP/HLB Treatments and Tree Removals	ACP/HLB Regulatory
Los Angeles and Orange	26	16	3
Riverside and San Bernardino	12	9	3
San Diego and Imperial	12	2	2



**Central District Update
Operations Subcommittee Meeting
October 11, 2023**



Central District Update

- No ACP detections in the Central Valley since the last operations meeting on July 12.
 - Detection and delimitation trapping remains status-quo.
- CASS grove traps were removed as of September 13.
 - CDFA began deployment of grove traps week of September 18.
 - CDFA traps were placed in groves where there were no GWSS traps within a $\frac{1}{4}$ mile.
 - Monterey and Placer Counties will continue to service their grove traps per the county agreement.
- Citrus staff assisted PD/EP staff on the Tau fruit fly eradication project in Santa Clarita from July – September.
- Multi-pest risk survey is on-going.





Central District Update

Santa Paula, Ventura County (as of 10/6/2023)

- The first ACP+ was confirmed on Tuesday, September 19, 2023, at a residential property.
 - There were two HLB+ trees also confirmed at the same property on September 21 by PPDC and later confirmed by USDA on Wednesday, September 27, 2023.
 - Find site and adjacent properties were treated on Thursday, September 21.
 - Public meeting held on Wednesday, October 4, 2023.
- Eleven additional HLB+ trees were confirmed on Tuesday, October 3, 2023.
 - All within the same 250m delimitation/treatment boundary.



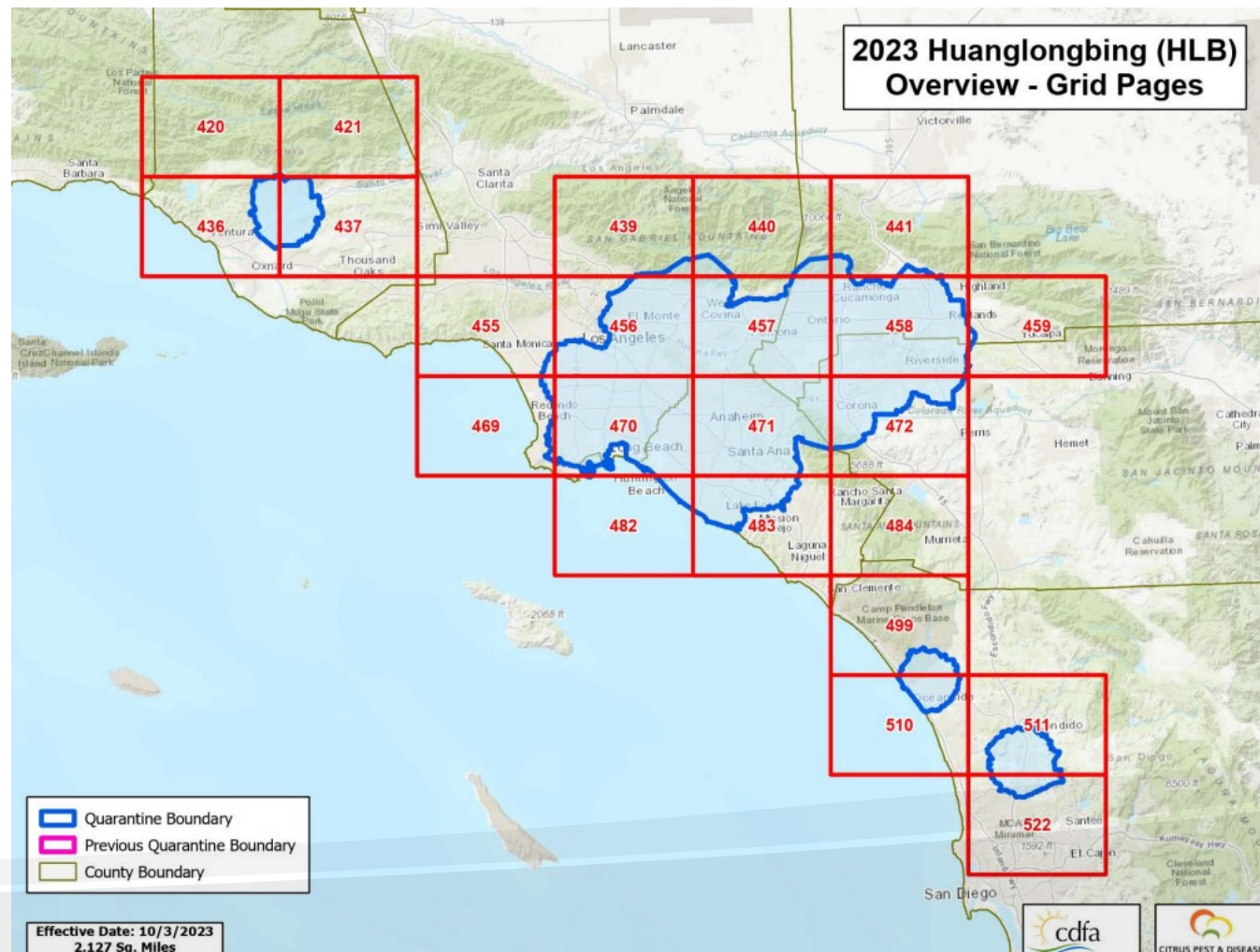
Central District Update

- Treatment expected to begin the week of October 9, weather permitting.
- Tree removal is scheduled for Tuesday, October 10 and 11 for all 13 trees.
 - Each homeowner has given consent for removal. Nine total properties.
- Working closely with Ventura CAC, CDFA regulatory staff, GLs, etc.



Central District Update

A 5-mile quarantine became effective on Tuesday, October 3, 2023. The 11 additional trees did not expand the quarantine.





Central District Update - Projects

Office	Survey	Trapping	Treatment
Fresno	5	9	0
Visalia	5	3	0
Shafter	3	2	0
Camarillo	5	3	3



Central District Update - Staffing

County	Total Perm Staff (current)	Pending Hiring (vacancies)	Hiring Status
Fresno County (Fresno)	13	--	New hires starting in October (ES and PPA I)
Kern County (Shafter)	5	1 PPA II 3 PPA I	In process
Tulare County (Visalia)	8	1 APCS 1 ES	Waiting advertisement
Tulare County (Visalia Regulatory)	1	--	--
Ventura County (Camarillo)	9	1 SES 1 PPA II 1 PPA I	New hire starting November 1 (PPA I); other positions in progress



Northern District Update
Operations Subcommittee Meeting
October 11, 2023

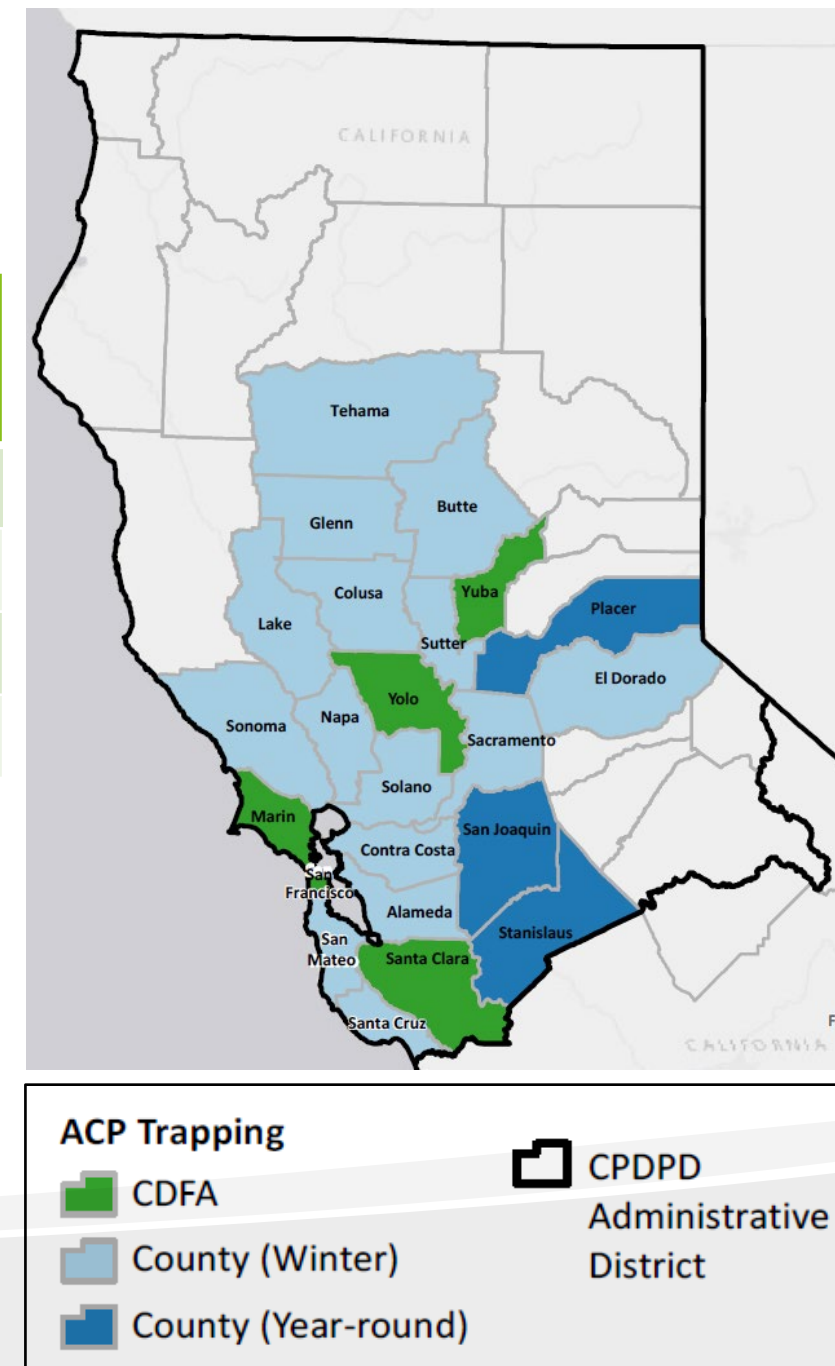
Northern District Update | ACP Trapping

General Detection

Entity	Type	Number of Counties	Number of Traps
County	Commercial	3	139
County	Residential (YR)	3	1350
County	Residential (W)	14	5473
State (CDFA)	Residential (W)	5	1435

Delimitation & Treatment

- San Joaquin County – 43 delimitation traps
- Sonoma County – 55 delimitation traps
- Santa Clara County – 606 delimitation traps
- No new treatments since December 2022



Northern District Update | HLB Risk-Based Survey



2023 Cycle 2 Counties	
Alameda	San Mateo
Contra Costa	Santa Clara
Glenn	Solano
Marin	Sonoma
Napa	Stanislaus
Placer	Sutter
Sacramento	Yolo
San Francisco	Yuba
San Joaquin	

*Cycle 1 completed, and Cycle 2 began August/September 2023

*Currently 3% of Cycle 2 is complete



Northern District Update | Staffing

Classification	Total Perm Staff (current)	Pending Hiring (vacancies)	Hiring Status
Senior Environmental Scientist (Supervisory)	4	0	
Senior Environmental Scientist (Specialist)	1	0	
Environmental Scientist	8	0	Hired two staff October 2023
Research Data Specialist I	1	0	
APC Supervisor	1	0	Hired one staff September 2023
APC Specialist	1	1	
Pest Prevention Assistant II	5	1	In the process of advertising/filling
Pest Prevention Assistant I	3	1	In the process of advertising/filling

Data Department Update

Rick Dunn

CRB Director of Data and Information Management

10/11/2003

Data Management Department Activity,

October 11, 2023

Richard Dunn - Data, Information & Management Director

UCKAC GIS Facility

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

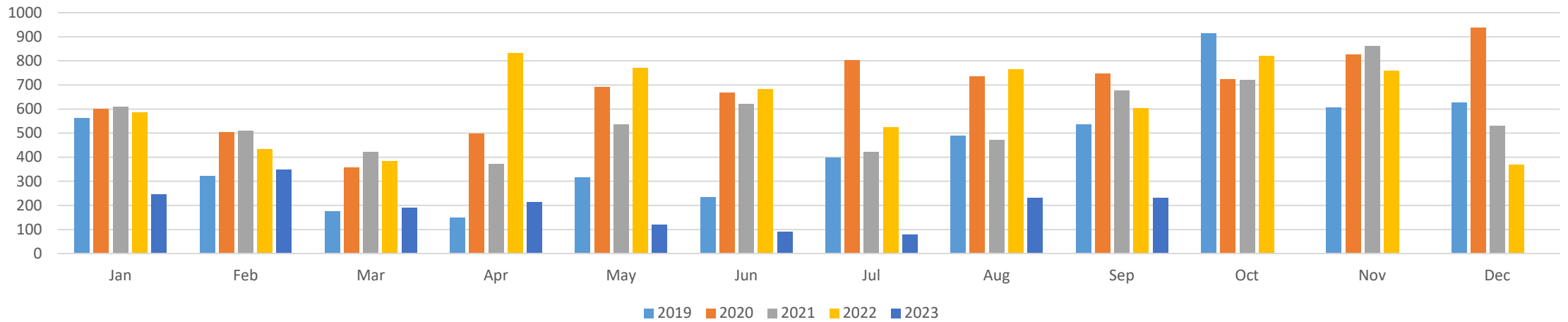
CRB Data Department

- 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. Tulare and Kings Counties are in progress. Director is collaborating with CPDPP GIS staff who are finalizing development of the new iPhone trapping app and a trap screener data entry tool. Director assisted with coordination, and tracked the removal of all SJV Grove traps by CASS trappers. Grove traps in Placer and Monterey counties continue to be serviced by CAC staff using the NOMAD system. Grove sampling of ACP by CASS trappers continues using the NOMAD data collection system.
- GIS Analyst Nancy Ying is conducting routine data scrubbing, quality control, and map production tasks. Nancy has begun assisting with Citrus Layer production.
- 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, as well as monthly summary data, ACP situation data, and statistical reports.

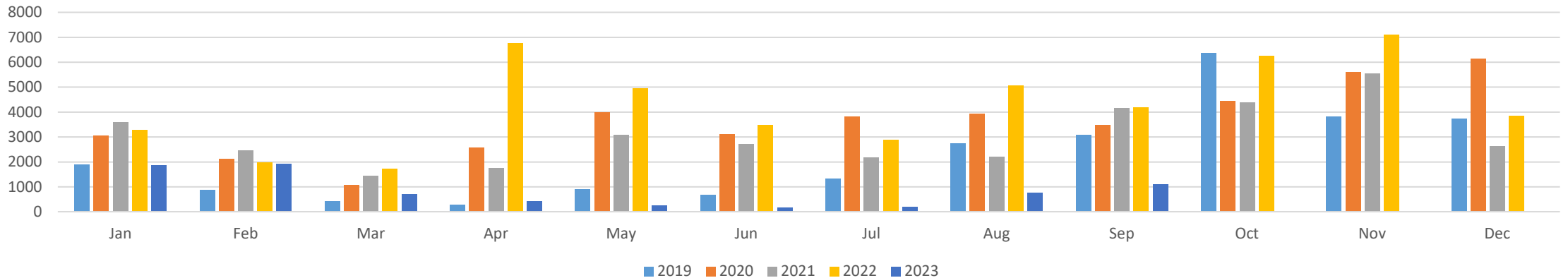
CPDPD Commercial Grove Sampling Program

October 2023 update

Suspect ACP Collection Events

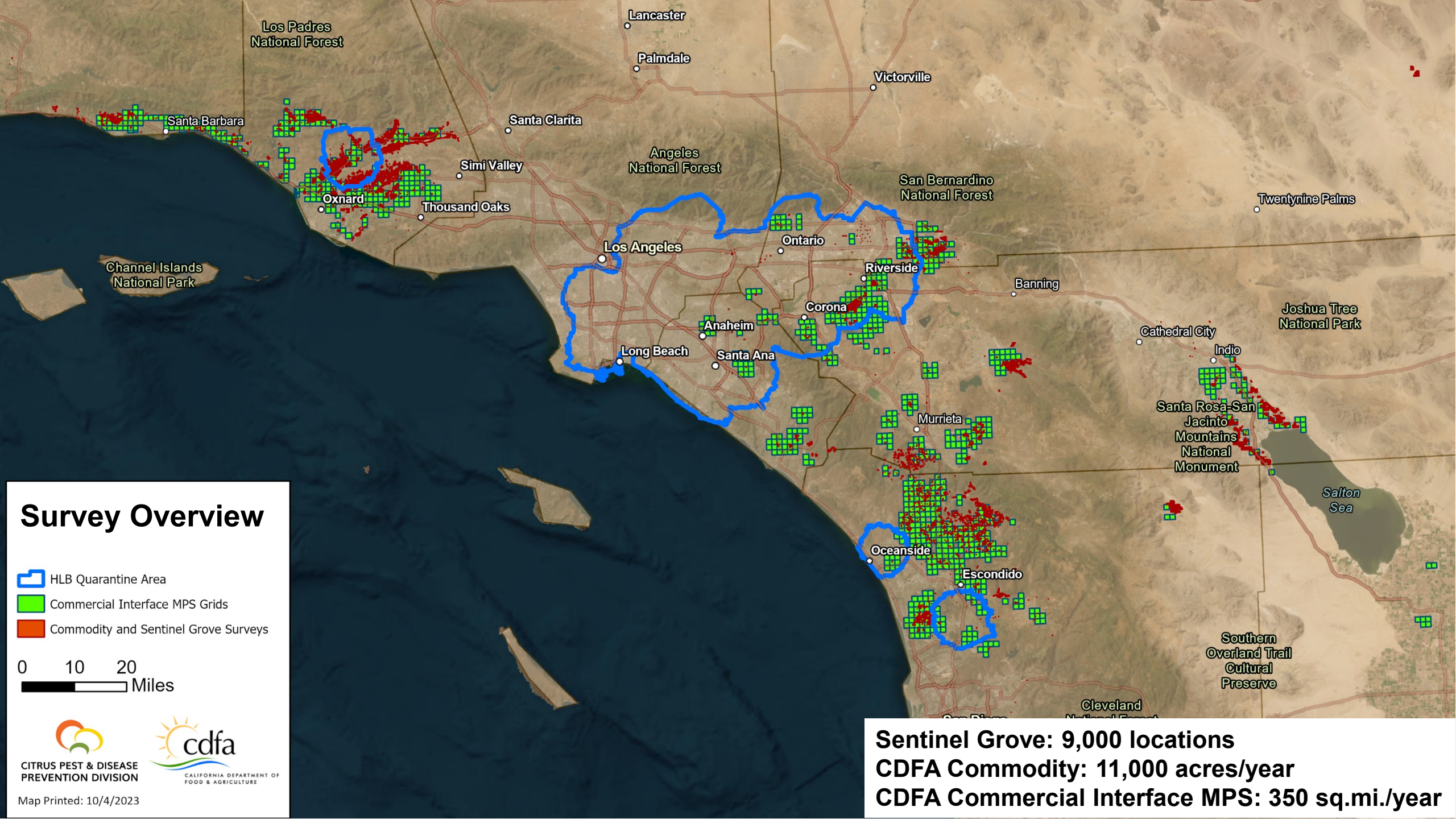


Suspect ACP Collected for Testing








Southern California Commercial Grove Survey
Operations Subcommittee Meeting
October 11, 2023





Survey Detailed

-  Commercial Interface MPS Grids
-  Model Sentinel Locations (Not Actual)
-  Citrus Layer / Commodity Survey

0 0.1 0.2
Miles



Map Printed: 9/1/2023



Conclusion

- Discontinue sentinel location surveys
- Loses frequent survey coverage of ~9,000 trees (Sentinel)
- CDFA retains year-round broader and more intensive surveys throughout Southern California (Commodity and MPS)