



HLB Detection, Delimitation, and Tree Removal Updates

Southern District

July 12, 2023

HLB Detection Updates

➤ **Rancho Bernardo, San Diego County**

- A total of 36 HLB positive trees were detected, so far.
 - All the detections are in the same area.
 - Except the last one, all other trees were removed and disposed off.
 - Delimitation survey and treatments were completed.
 - Around ten plant sample PDRs are still pending results.
 - Public Meeting was held on June 8.
-
- Two HLB+ trees were detected in the city of Los Angeles.
 - Expanded the HLB quarantine boundary.
 - CLas+ ACP were detected in Claremont and Santa Fe Springs, Los Angeles County.

HLB Delimitation Survey I

Areas	Total Properties	Properties Surveyed	No Host Properties	Refusals/No Contact	Completion Percentage
Rosemead (1)	292	219	122	2/9	75%
Artesia (1)	374	134	104	1/1	36%
La Puente (1)	138	108	33	1/5	78%
Paramount (17-19)	590	339	193	12/43	57%
El Monte (12-14)	361	303	164	5/20	84%
San Diego (3-7)	189	167	51	3/19	88%
Corona (28-33)	470	466	195	15/18	100%
Ontario (20-24)	621	418	251	9/4	67%
Fontana (11-14)	245	240	70	6/10	100%

HLB Delimitation Survey II

Areas	Total Properties	Properties Surveyed	No Host Properties	Refusals/No Contact-Pending	Completion Percentage
Tustin (11, 14-17)	91	21	7	0/0	23%
Orange (58, 76)	516	112	86	0/1	22%
Santa Ana (Multiple exp.)	663	313	197	2/8	47%
Garden Grove (Multiple exp.)	465	83	16	4/5	18%
Anaheim (Multiple exp.)	296	88	13	4/11	30%
Fullerton (4 and 5)	360	116	89	0/0	32%
Westminster(22, 24-25)	87	14	6	1/0	16%
Yorba Linda (2)	97	11	3	1/0	11%
Placentia (1,7,11,14)	91	14	8	0/5	15%

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	500						
Orange	656	923	753	1880	680	328						
Riverside	62	140	188	32	84	283						
San Bernardino	106	138	84	260	287	292						
San Diego	28	60	382	107	127	107						
Imperial	0	0	0	0	0	0						
Total	1,536	1,502	1,499	2,397	3,054	1,510						

HLB Positive Trees (May and June 2023)

County	Detected	Removed	Cumulative Pending
Los Angeles	86	48	133
Orange	430	72	474
San Bernardino	46	39	22
Riverside	9	10	6
San Diego	18	17	1
TOTAL	589	186	636



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.

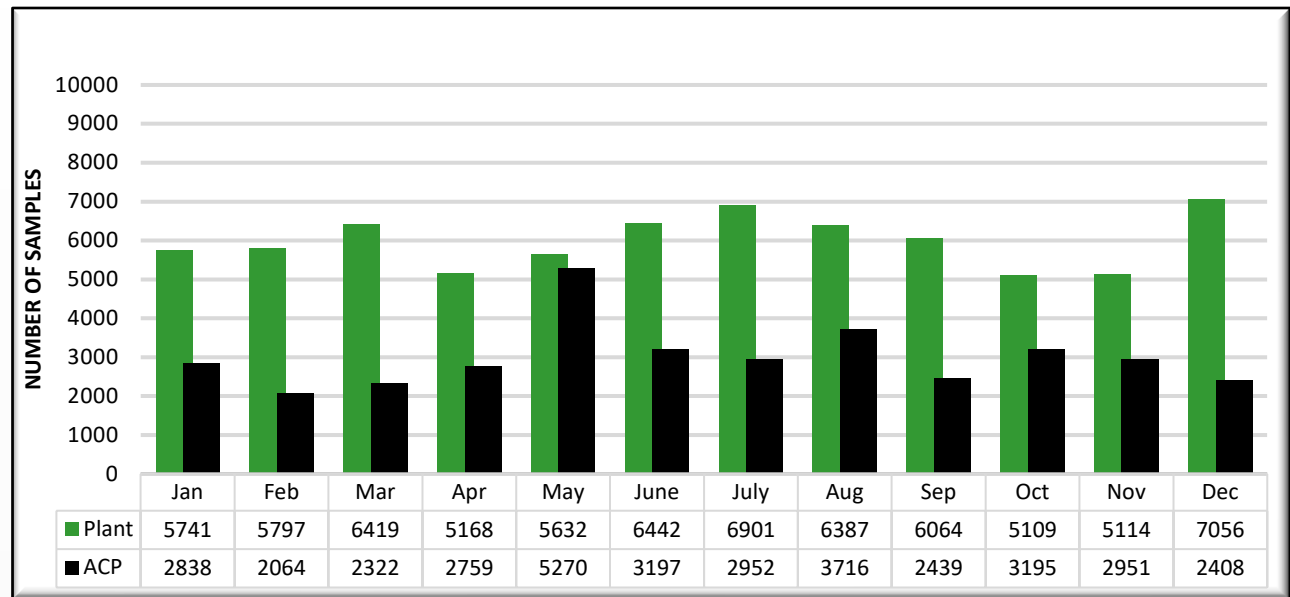


Fig 1b. 2023 -
Total number
of plant and
ACP samples
submitted per
month.

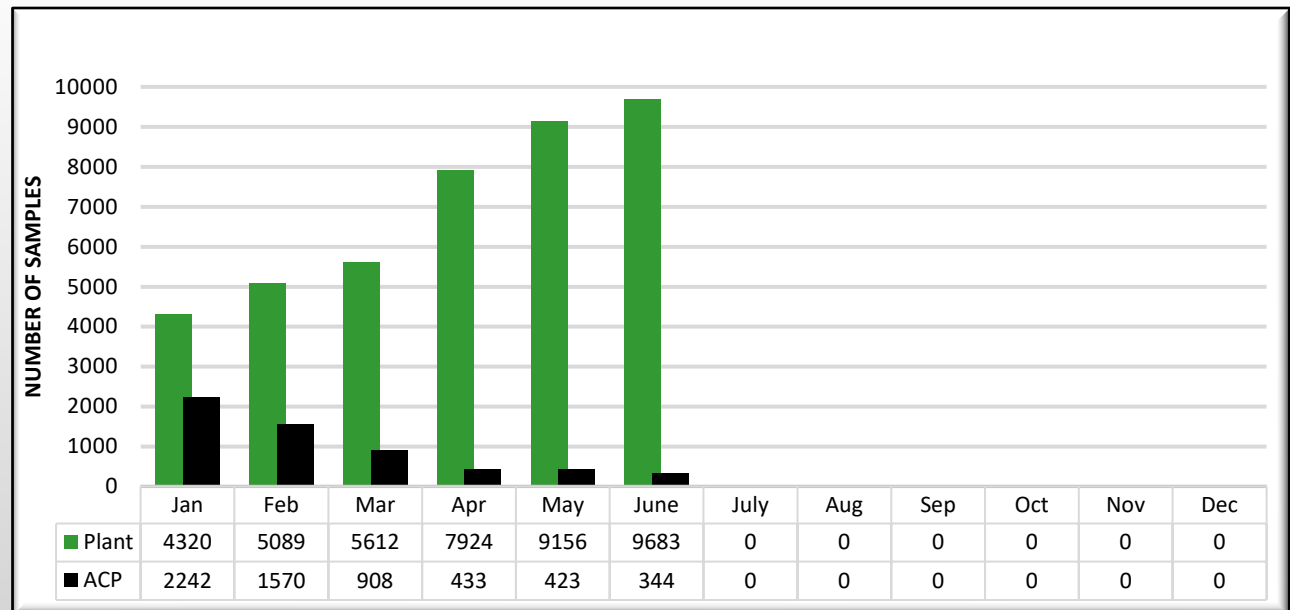
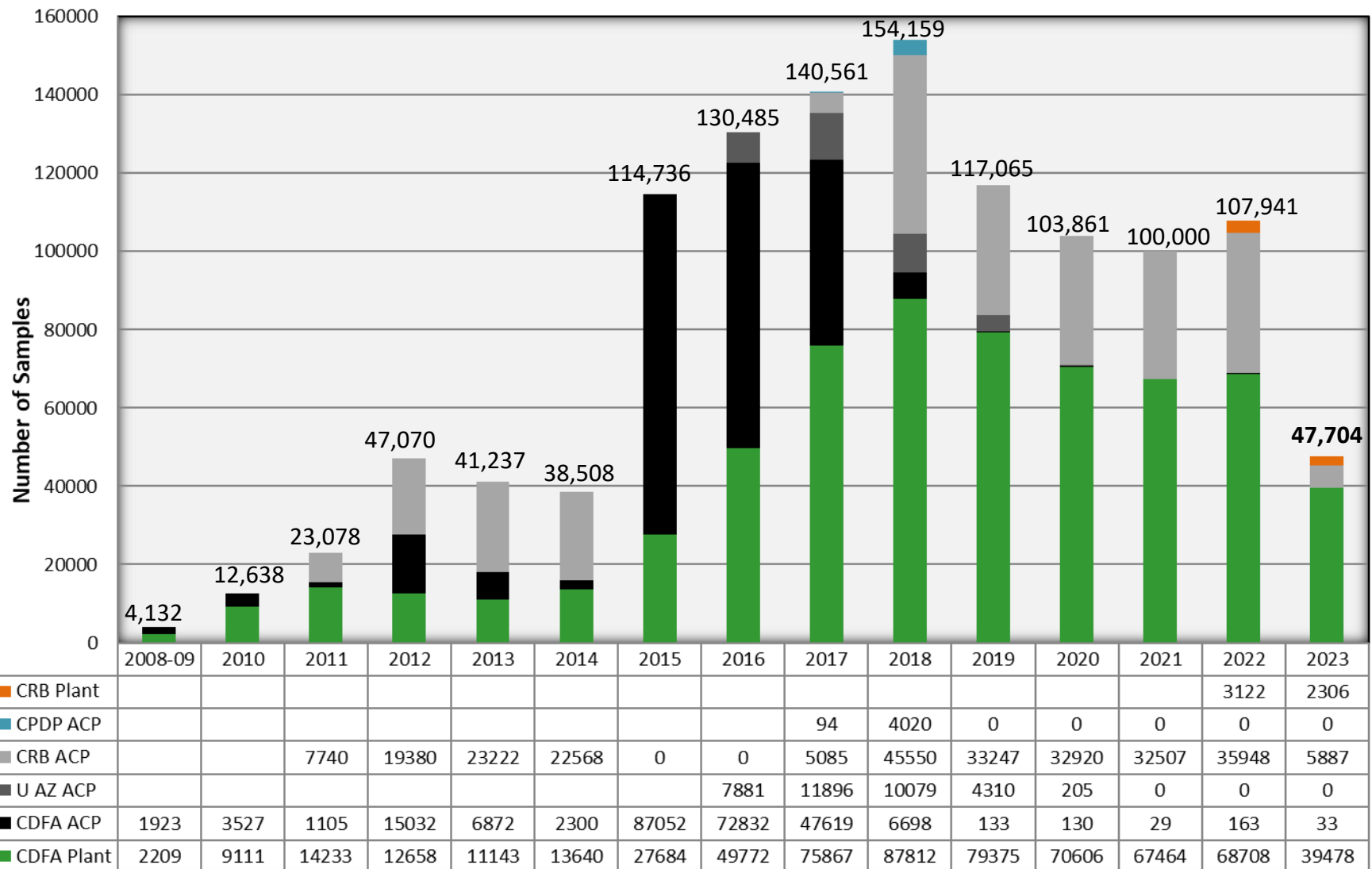


Fig 2. Number of samples tested for HLB per year from 2008 –June 2023.



Combined total of plant and ACP samples tested from 2008 – 2023 is 1,183,175.

Table 1. Tally of positive sites, positive trees, and CLas+ ACP samples by county and city as of 6/30/2023.

HLB Positive Detection			
City	# Sites	# Trees	# ACP samples
Orange County			
Garden Grove	620	956	97
Santa Ana	556	810	92
Anaheim	680	1095	150
Westminster	354	580	20
Orange	199	246	40
Tustin	29	31	10
Fountain Valley	14	21	2
Huntington Beach	25	28	2
Placentia	32	35	11
La Habra	5	6	1
Fullerton	14	19	6
Yorba Linda	6	4	5
Irvine	6	6	3
Costa Mesa	6	5	3
Brea	1	1	0
Buena Park	6	11	2
Cypress	5	1	5
Stanton	4	4	1
Midway City	4	8	0
Los Alamitos	1	0	1
Total	2567	3867	451
Los Angeles County			
Whittier	203	246	43
Pico Rivera	166	229	64
Montebello	74	102	2
San Gabriel	68	84	7
Rosemead	44	61	7
Paramount	29	35	5
La Mirada	53	71	6
La Puente	35	38	7
Norwalk	15	12	5
Cerritos	7	9	4
Hacienda Heights	4	4	1
Lakewood	5	6	0
Duarte	58	85	3
El Monte	52	71	8
South El Monte	23	42	4
Alhambra	1	1	0
Temple City	5	4	2
Compton	1	1	0
Glendora	1	0	1
South Gate	8	9	4
Long Beach	7	7	3
Los Angeles	3	2	1
Downey	13	17	5
Carson	4	3	1
Monrovia	20	28	0
Rowland Heights	2	0	2
Pomona	10	13	2
Artesia	2	2	0
Bellflower	2	2	0
Monterey Park	1	1	0
West Covina	1	0	1
City of Industry	1	1	0
Claremont	1	0	1
Santa Fe Springs	1	0	1
Total	920	1186	190
Riverside County			
Corona	85	127	19
Riverside	26	28	5
Eastvale	2	2	0
Jurupa Valley	17	19	4
Moreno Valley	1	1	0
Total	131	177	28
San Bernardino County			
Rancho Cucamonga	3	7	2
Montclair	8	7	1
Colton	6	11	3
San Bernardino	2	1	1
Ontario	119	199	20
Fontana	28	35	9
Chino	17	27	2
Total	183	287	38
San Diego			
Fallbrook	1	0	1
Oceanside	4	9	4
Pauma Valley	1	0	1
Vista	1	0	1
San Diego	23	36	0
Total	30	45	7
Grand Total	3831	5562	714

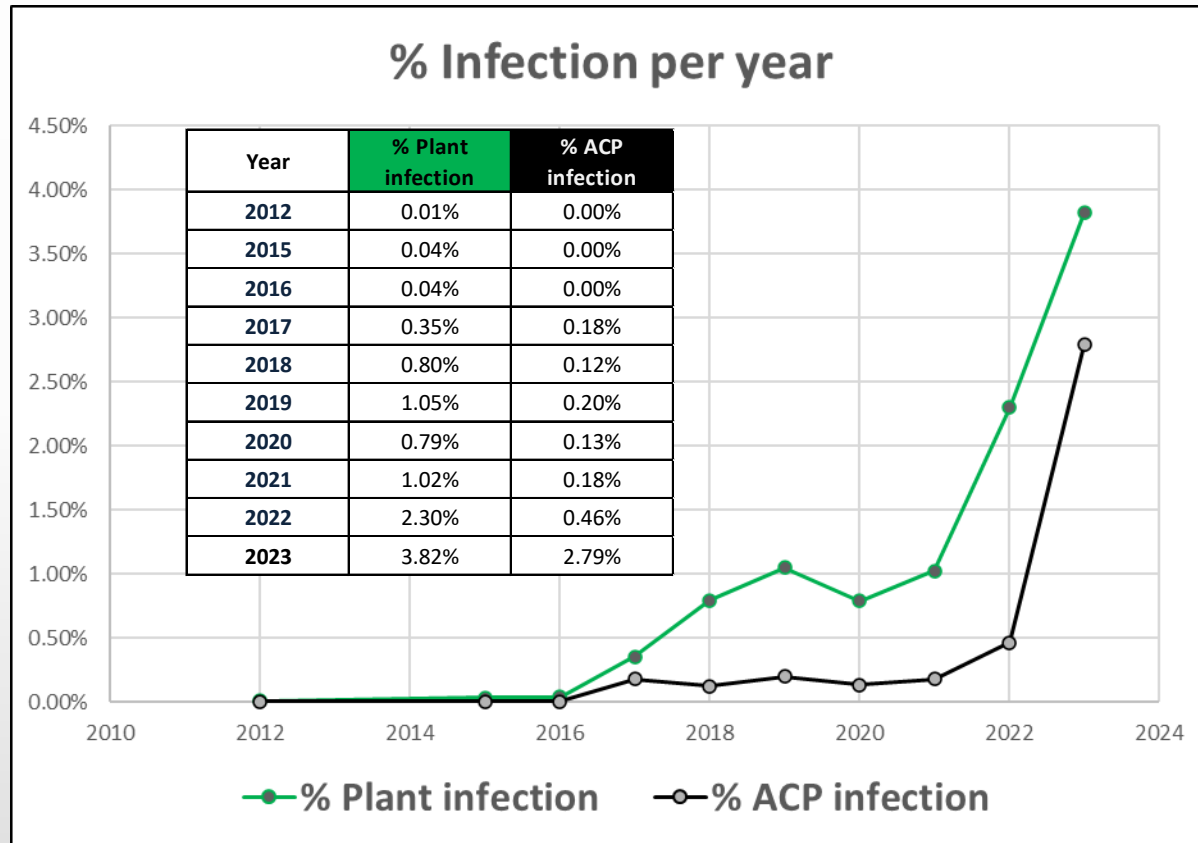
Table 2. Percent positives per county

County	Sites	Trees	ACP
Orange	67.0%	69.53%	63.2%
LA	24.0%	21.32%	26.6%
Riverside	3.4%	3.18%	3.9%
San Bernardino	4.8%	5.16%	5.3%
San Diego	0.8%	0.81%	1.0%
Total	100%	100%	100%

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

Sample type	Trees		ACP	
Risk-based Survey	416	7%	444	62%
HLB Response	5146	93%	270	38%
Total	5562	100%	714	100%

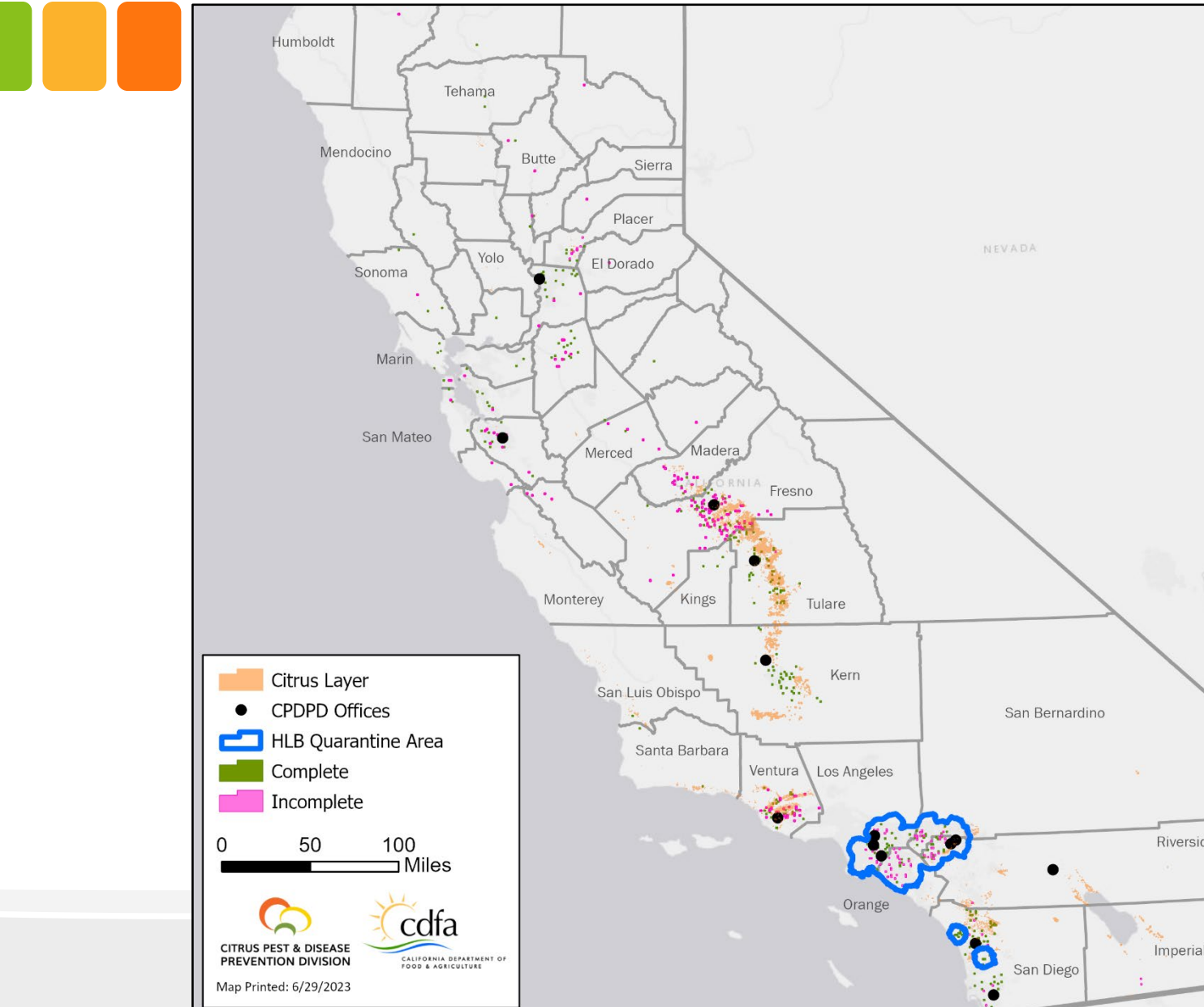
Fig 3. Percent infection (#of positive trees/# of trees tested) from 2008 – June 2023.





Risk Research Survey Update
Operations Subcommittee Meeting
July 12, 2023

2023 Cycle 1 (with Additions)



- Began February 2023
- 58% Complete
- Survey Complete in 14 of 41 Allocated Counties
- 8,169 Properties Visited
- 2,414 Properties Sampled
- 853 Entomology PDRs
- 1,883 Plant PDRs

2023 Cycle 1 (with Additions) – Northern California

Citrus Layer

Risk Survey Staff / Office

HLB Quarantine Area

Complete


Incomplete

0


20

40

Miles




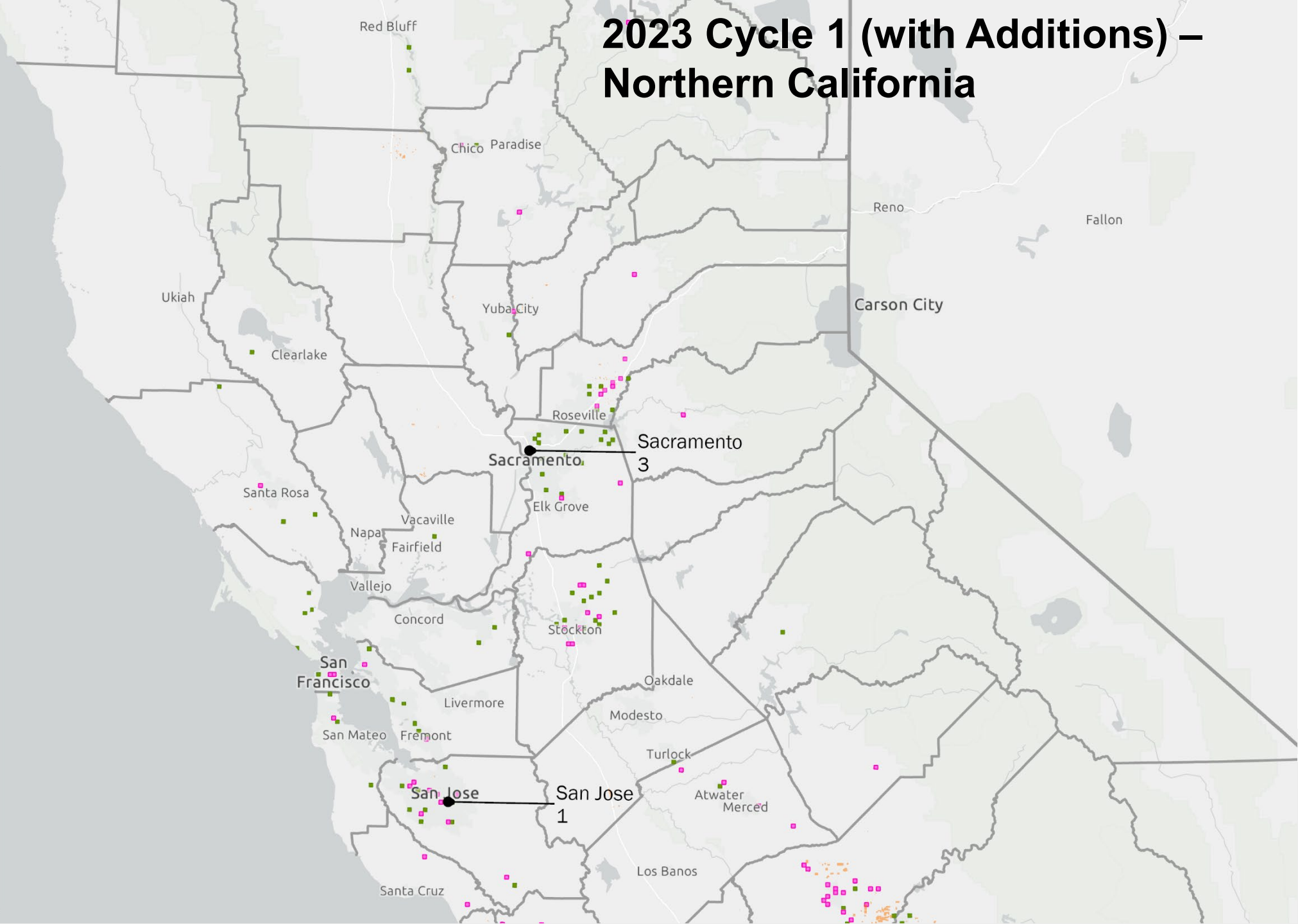
CITRUS PEST & DISEASE
PREVENTION DIVISION



cdfa
CALIFORNIA DEPARTMENT OF
FOOD & AGRICULTURE

Map Printed: 6/29/2023





2023 Cycle 1 (with Additions) – Central California

 Citrus Layer

 Risk Survey Staff / Office

 HLB Quarantine Area

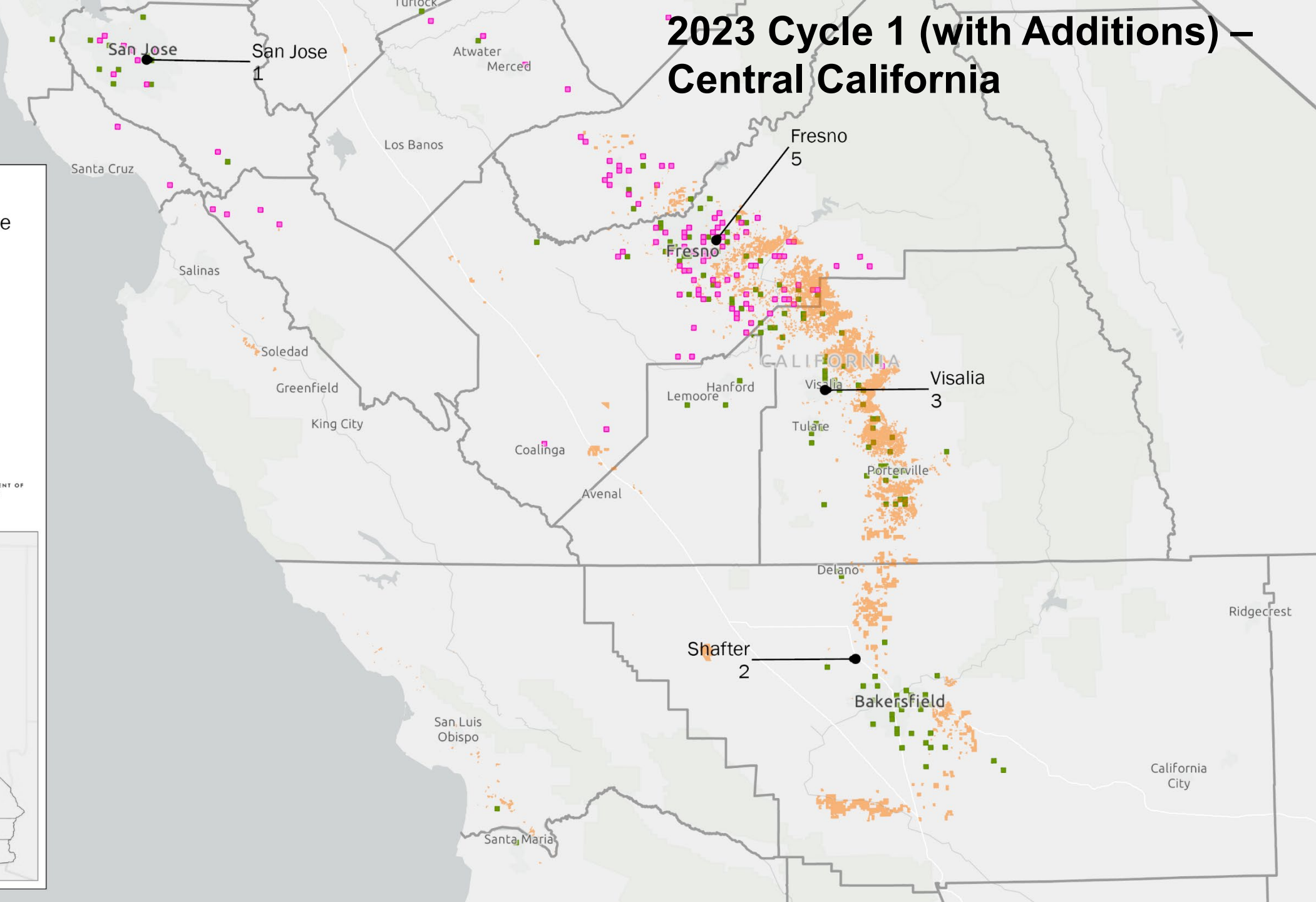
 Complete

 Incomplete

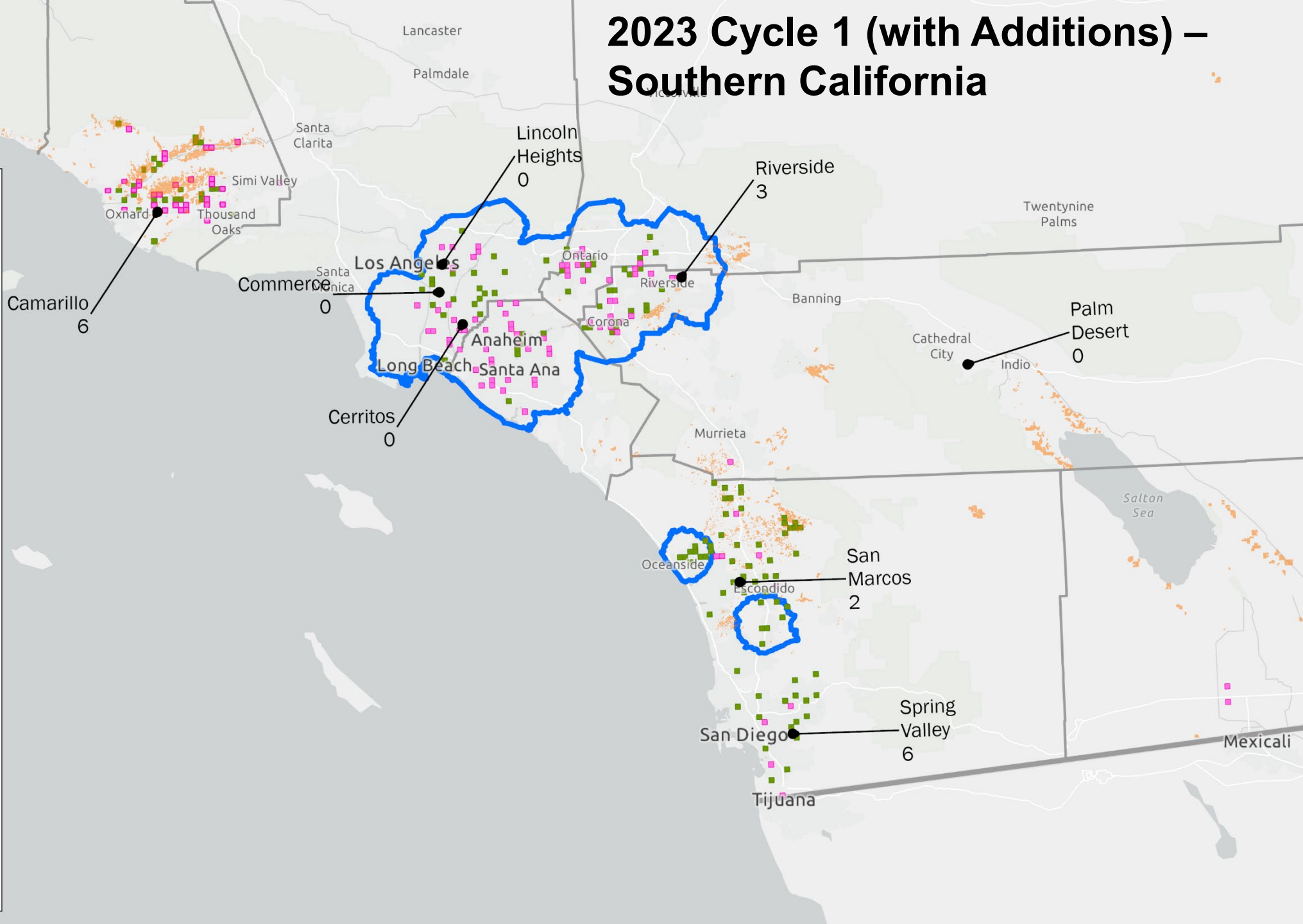
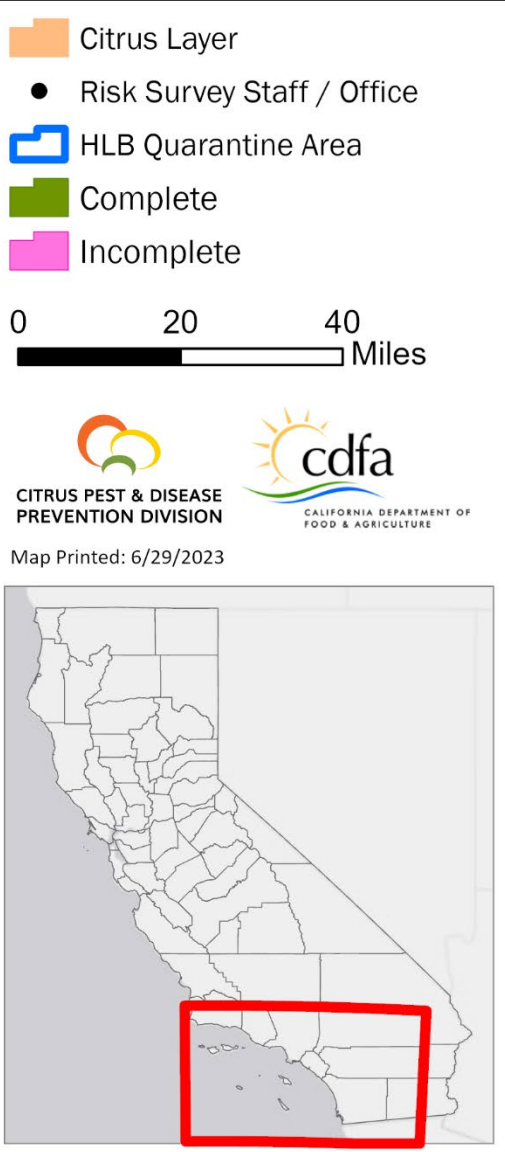
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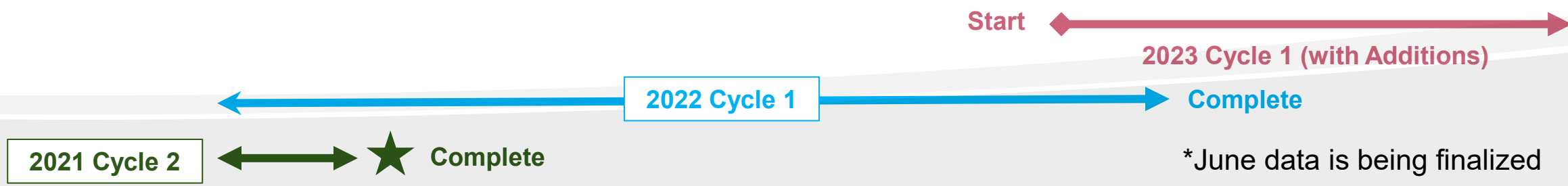
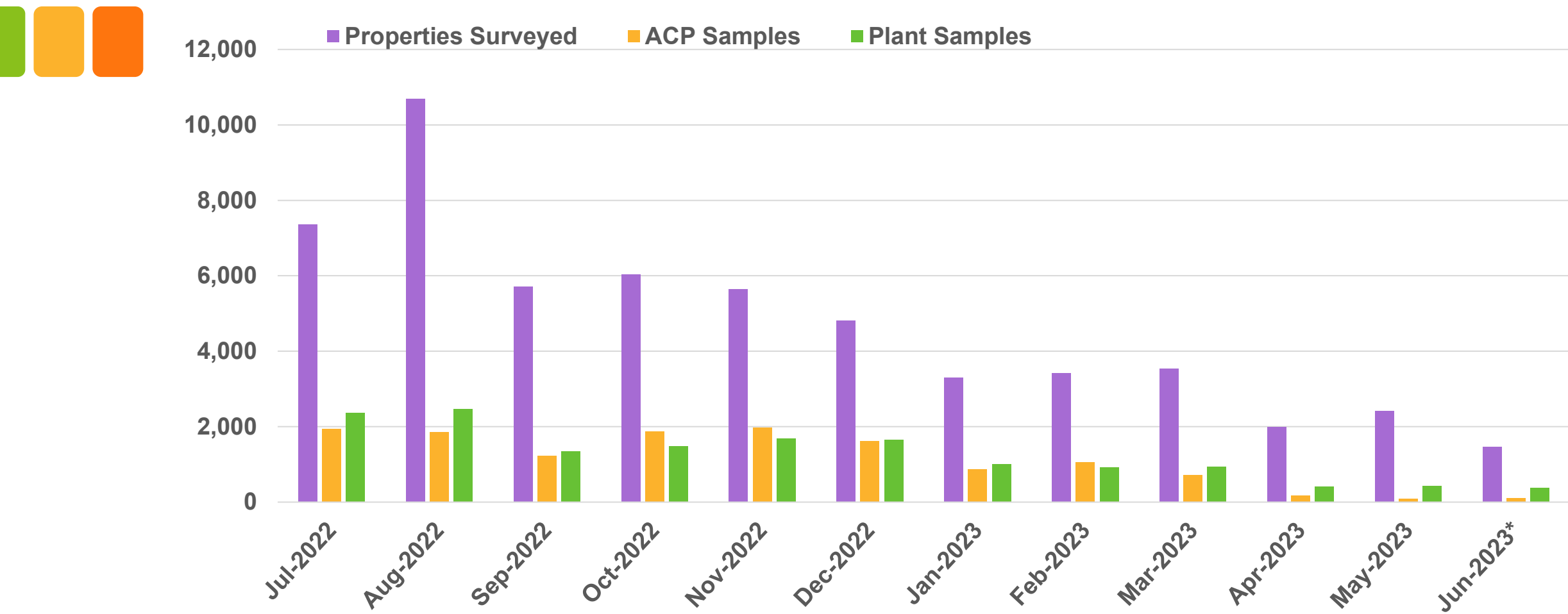
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2023 Cycle 1 (with Additions) – Southern California



Statewide Trends (All Cycles)



County Monthly Activity Report
October 2022 - May 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	50%	2	19	23	5	0	1	1	0
Kern	\$70,000.00	52%	72	7	439	17	0	0	3	0
Kings	\$20,035.30	75%	0	0	0	108	0	0	0	0
Los Angeles	\$263,358.11	48%	1	28	0	117	205	1	0	0
Monterey (*2)	\$14,227.50	45%	0	13	0	0	4	0	0	0
Orange (*1)	\$87,987.88	15%	0	33	1	0	0	0	0	0
Riverside	\$680,306.63	85%	18	163	1,024	2	35	18	5	1
San Bernardino (*2)	\$29,334.95	25%	5	7	0	0	0	2	1	0
San Diego (*3)	\$561,592.75	47%	4	48	39	22	62	0	1	0
San Luis Obispo (*1)	\$8,035.44	73%	5	0	0	0	0	0	0	0
Santa Barbara	\$15,147.08	63%	5	5	0	0	17	0	2	0
Tulare	\$340,031.38	80%	253	2	3,232	22	0	16	62	14
Ventura (*1)	\$200,951.41	97%	60	12	421	8	0	0	8	0
Total	\$2,431,324.70	67%	472	338	5,529	302	323	38	107	18

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

County Monthly Activity Report
October 2022 - May 2023



HLB Treatment Updates

Southern District

July 12, 2023



Treatment Updates

- Delimitation treatments were conducted in the following areas:
 - Jurupa Valley, Eastvale, Corona, Ontario, Chino, San Diego, El Monte, La Mirada, Hacienda Heights, Pico Rivera, Whittier, Garden Grove, Santa Ana, Anaheim, and Westminster.
- Multiple Public meetings:
 - To treat delimitation areas in Riverside and San Bernardino Counties: June 27, 2023.
 - To treat delimitation areas in Los Angeles and Orange Counties: June 28 and July 27, 2023
 - To treat delimitation areas in San Diego County: June 8, 2023.

HLB Delimitation Treatments I

Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact	Completion
San Diego (7-12)	144	97	40	7/0	100%
Ontario (24-33)	599	297	251	16/38	100%
Corona (24-33)	1,254	426	655	42/43	93%
Eastvale (2)	76	31	35	7/2	100%
Chino (8)	49	13	32	0/4	100%
Jurupa Valley (7-8)	20	9	10	1/0	100%
La Mirada (16-18)	685	224	428	22/9	100%
El Monte (23-28)	502	207	278	9/8	100%

HLB Delimitation Treatments II

Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact	Completion
Whittier (56-67)	1,349	558	706	48/36	100%
Pico Rivera (15-16, 31-32)	260	127	100	14/12	97%
Pico Rivera (56-57)	324	156	148	9/11	100%
Hacienda Heights (3-4)	169	98	56	10/5	100%
Anaheim (Multiple areas)	725	309	360	27/15	98%
Westminster (Multiple areas)	1,272	498	696	35/37	100%
Santa Ana (Multiple areas)	708	409	205	32/31	96%
Garden Grove (Multiple areas)	417	152	226	1/18	95%

Southern District Staffing Updates

County	Permanent	Seasonal	Pending Hiring	Hiring Status
Los Angeles	29	6	one PPA I	Position was advertised, interview process will initiate
Orange	11	1	one PPA III and three PPA I	One PPA III and two PPA I were advertised but one PPA I is still pending
Riverside and San Bernardino	18	10	one ES and one PPA I	Both positions are pending advertisement
San Diego and Imperial	17	1	one ES and one PPA I	Salary determination pending for ES position and PPA I is pending advertisement

Staff Distribution By Projects

Counties	Delimitation and other Surveys	ACP/HLB Treatments and Tree Removals	ACP/HLB Regulatory
Los Angeles and Orange	27	17	3
Riverside and San Bernardino	15	9	4
San Diego and Imperial	12	3	2



**Central District Update
Operations Subcommittee Meeting
July 12, 2023**

Central District Update

- Tulare County had one ACP detection
 - Detection was in a commercial citrus grove in the city of Tulare. CDFA deployed 51 delimitation traps in response. The County will take over servicing after the first 4 weeks.

Wrap-Up:

- Monterey County
 - King City treatment has been completed and the county continues to service the delimitation traps.
- Kern County
 - Treatment has been completed. Delimitation trapping is covered by both the county and CDFA.



*Detections = PDR's, not individual ACP counts



Central District Update

- **Biocontrol releases**

- Winding down on the number of *Tamarixia radiata* that are released

County	May	June	Total
Kern	4,000	6,000	10,000
Monterey	4,000	0	4,000
San Barbara	3,600	5,400	9,000
Grand Total	11,600	11,400	23,000



Central District Update - Projects

Office	Survey	Trapping	Treatment
Fresno	5	3	2
Visalia	6	2	0
Shafter	2	3	1
Camarillo	6	1	1



Central District Update - Staffing

County	Total Perm Staff (current)	Pending Hiring (vacancies)	Hiring Status
Fresno County (Fresno)	12	1 ES	In process
Kern County (Shafter)	6	2 PPA I	In process
Tulare County (Visalia)	9	1 SESS 1 PPA I	SESS July 10 PPA I in process
Tulare County (Visalia Regulatory)	1	--	--
Ventura County (Camarillo)	9	1 ES 1 PPA III 1 PPA I	In process



Northern District Update
Operations Subcommittee Meeting
July 12, 2023

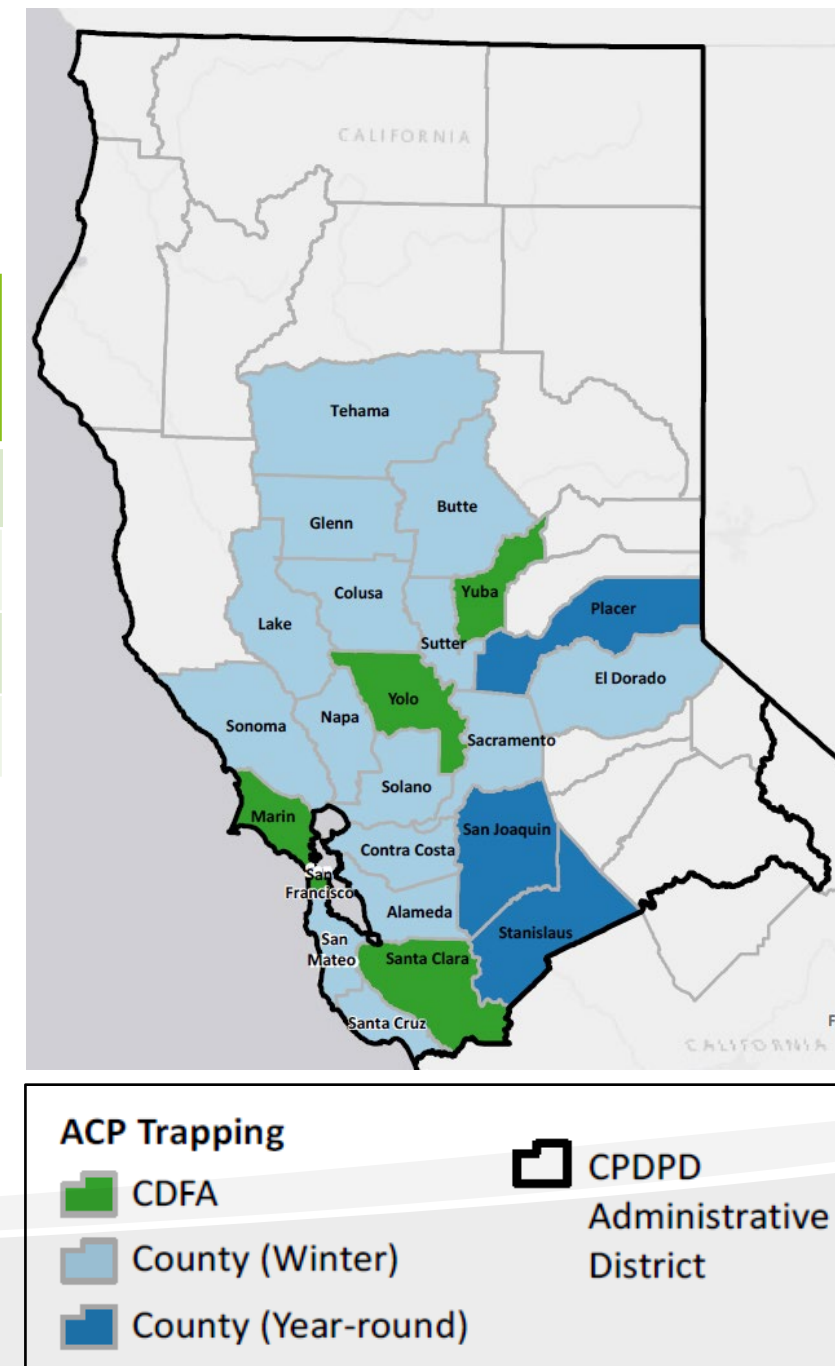
Northern District Update | ACP Trapping

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	1393

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

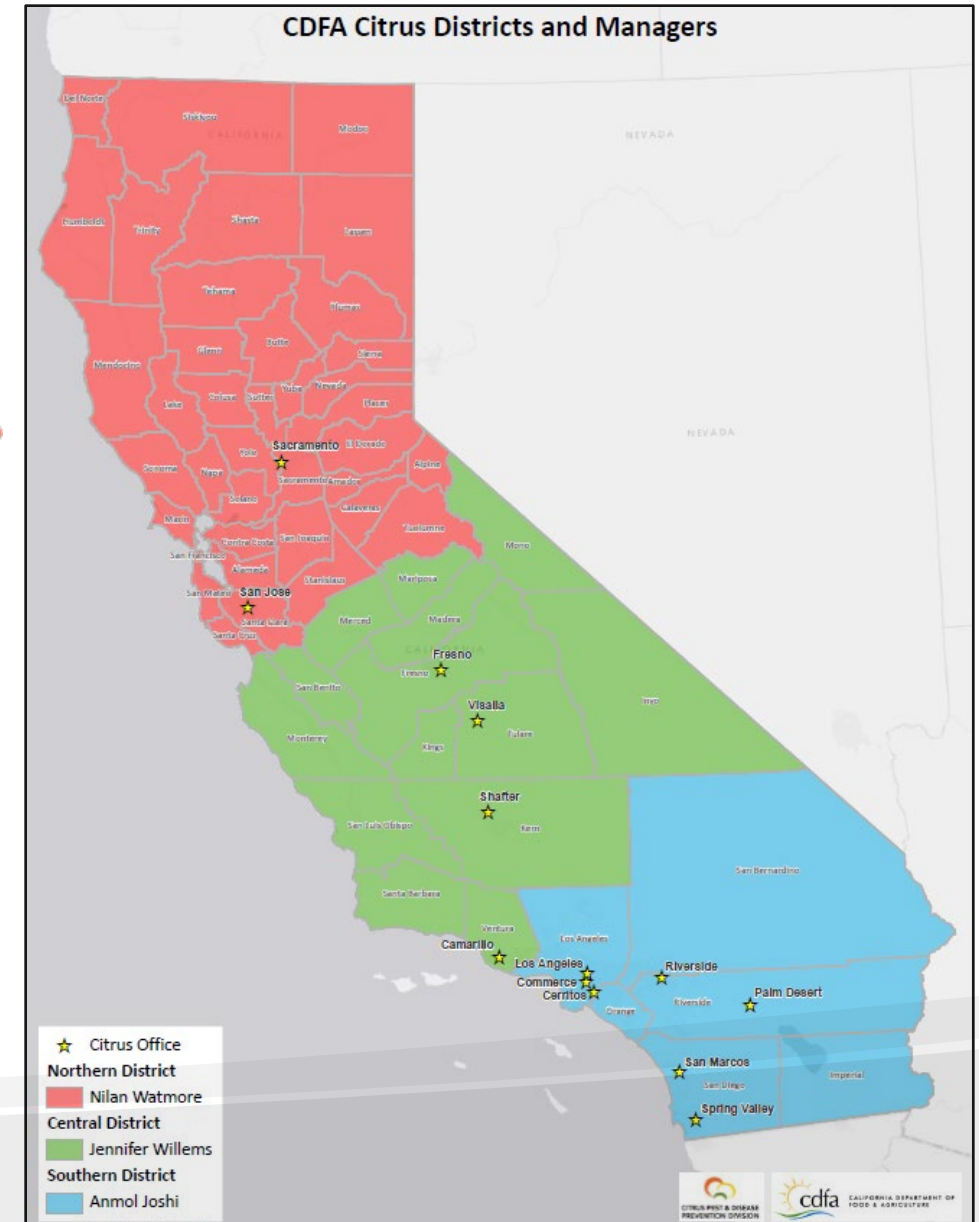


Northern District Update | HLB Risk-Based Survey

2023 Cycle 1 Counties (with additions)

Alameda*	San Mateo*
Butte*	Santa Clara*
Contra Costa**	Santa Cruz***
El Dorado***	Shasta**
Lake**	Solano**
Marin**	Sonoma*
Nevada***	Stanislaus**
Placer*	Sutter*
Plumas***	Tehama**
Sacramento*	Trinity***
San Francisco*	Tuolumne**
San Joaquin*	Yuba**

- * 10 counties with additional supplementary grids
- ** 9 counties with no additional supplementary grids
- *** 5 new counties with additional supplementary grids



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	2	In the process of advertising/filling
Research Data Specialist I	1	0	
APC Specialist	1	0	
Pest Prevention Assistant III	1	1	In the process of advertising/filling
Pest Prevention Assistant II	5	0	
Pest Prevention Assistant I	6	1	In the process of advertising/filling

Data Department Update

Rick Dunn

CRB Director of Data and Information Management

7/12/2003

Data Management Department Activity,

May 10, 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>

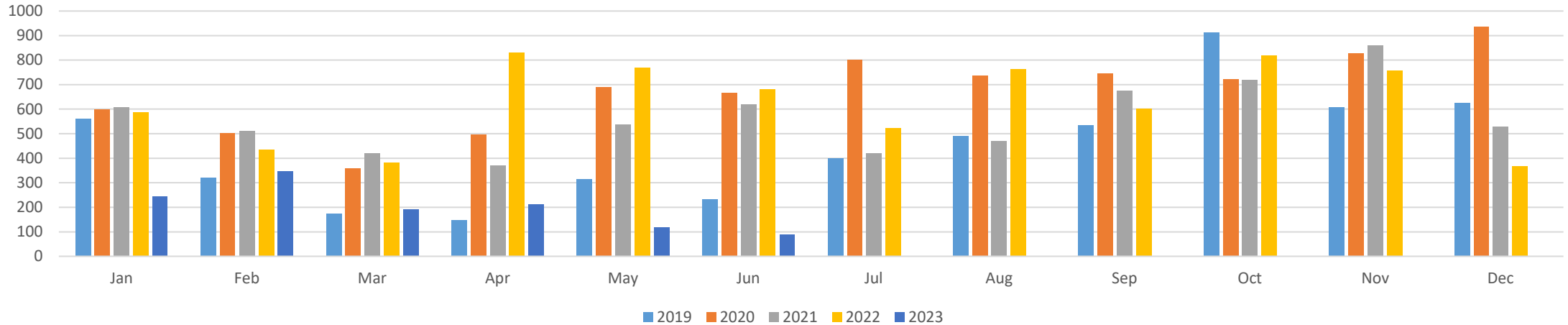
CRB Data Department

- 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 County is in progress. Director's proposal for modification of the Area Wide buffer trapping schedule was approved by CPDPC and implementation begins in August. Director is collaborating with CDFA PDAS and CPDPD GIS staff on development of a NOMAD replacement system. Testing of the new iPhone trapping app is in progress. Training materials and post processing SOPs are being finalized.
- GIS Analyst Nancy Ying is conducting routine data scrubbing, quality control, and map production tasks.
- 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.

CPDPD Commercial Grove Sampling Program

June 2023 update

Suspect ACP Collection Events



Suspect ACP Collected for Testing

