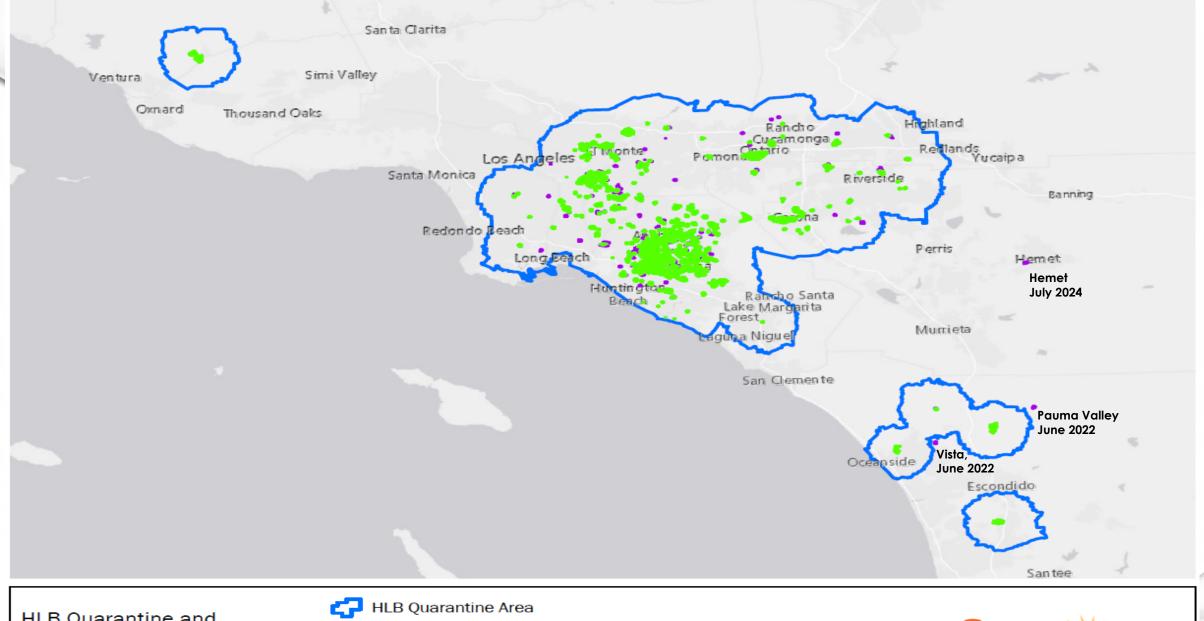
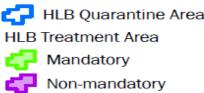
HLB DETECTION, DELIMITATION, AND TREE REMOVAL UPDATES

SOUTHERN DISTRICT





HLB Quarantine and Treatment Area 12/20/2024









HLB Detection Updates

HLB DETECTION IN AN IN-ACTIVE COMMERCIAL ACREAGE IN YORBA LINDA IN OCTOBER 2024

- FIRST-EVER DETECTION OF 53 HLB-POSITIVE TREES IN A NON-RESIDENTIAL CITRUS ACREAGE.
 - THE ORANGE COUNTY FLOOD CONTROL DISTRICT OWNS 21 ACRES OF THE GROVE THAT WAS NON-OPERATIONAL FOR THE LAST FEW YEARS.
 - THE ORANGE COUNTY AG. COMMISSIONER'S OFFICE TOOK IMMEDIATE ACTION AND REMOVED ALL 53 POSITIVE TREES.
 - A FOLIAR APPLICATION WAS CONDUCTED, AND THE ENTIRE GROVE WAS TREATED WITH APPROVED PESTICIDES.
- CDFA STAFF CONDUCTED FOLLOW-UP SURVEYS TWICE TO SAMPLE THE ADJACENT TREES.
 - DETECTED ADDITIONAL 33 TREES AND 29 POSITIVE TREES.
- THE ORANGE COUNTY BOARD DECIDED TO REMOVE THE ENTIRE GROVE.
 - THE ENTIRE GROVE WAS REMOVED, AND THE TREES WERE CHIPPED ON SITE.

DETECTION OF AN HLB-POSITIVE TREE AT A RESIDENTIAL PROPERTY IN MISSION VIEJO, ORANGE COUNTY.

- SAMPLE WAS TAKEN AS PART OF THE MULTI-PEST SURVEY; THE INFECTED TREE WAS REMOVED.
- TOOK ADDITIONAL SAMPLES FROM THE ADJACENT PROPERTIES, ALL CAME BACK NEGATIVE.
- EXTENDED THE HLB QUARANTINE FURTHER SOUTH TO INCLUDE 85 SQ. MILES AREA.

HLB DELIMITATION SURVEY I

Areas	Total Properties	Properties Surveyed	No-Host Properties	Refusals/Pending	Completion %
Duarte (2-8,13-27,30,35-36,41-42,44-45,50-52,58-59,63-64)	440	426	102	16/9	97%
South Gate (9)	229	193	101	7/33	84%
San Dimas (1)	135	124	107	2/9	92%
Anaheim Hills (168)	41	38	21	4/3	93%
Yorba Linda (23-37)	643	582	436	20/58	91%
Irvine (42,45-50)	340	207	110	1/15	61%

HLB DELIMITATION SURVEY II

Areas	Total Properties	Properties Surveyed	No-Host Properties	Refusals/ Pending	Completion %
Fallbrook (2)	26	25	2	0/1	100%
Rancho Bernardo (19-22)	115	111	42	2/3	96%
Montclair (7)	68	68	40	0/0	100%
Corona (72-81, 87-88)	175	135	83	4/39	77%
Ontario (4-6,8-13,17-18,27-28,30,36,42,44,46-47,49-53,67-68,71,82,84-92,99)	1,600	1,402	766	33/198	88%
Jurupa Valley (2,5-6,15-16)	305	301	118	10/20	99%

DELIMITATION SURVEY OF FIND SITE AND ADJACENT PROPERTIES

Areas	Properties Surveyed	No-Host Properties	Refusals	No Contact
Pico Rivera	182	53	6	12
Commerce	2	1	0	0
Montebello	1	0	0	0
Whittier	49	16	5	8
La Puente	20	3	0	0
Fullerton	16	3	0	7

HLB POSITIVE TREES (OCTOBER THRU DECEMBER)

County	Detected	Removed	Cumulative Pending
Los Angeles	152	155	71
Orange	259	301	163
San Bernardino	82	35	87
Riverside	70	101	41
San Diego	3	5	1
TOTAL	566	597	363

Executed abatement warrants nine times in the last two months to remove trees from the refusal properties in different HLB areas.



California Department of Food & Agriculture
Plant Pest Diagnostics Center
HLB Testing Program
2024

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 1a-1d.

Number of detections yearly from 2012-2024– Table 2

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

Fig 1a. 2024 - Total number of plant and ACP samples submitted per month.

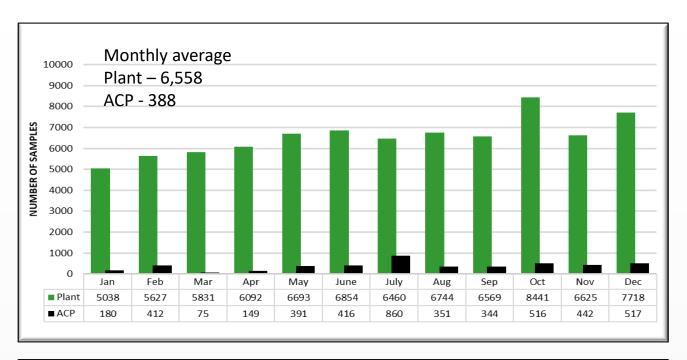


Fig 1b. 2023 -Total number of plant and ACP samples submitted per month last year.

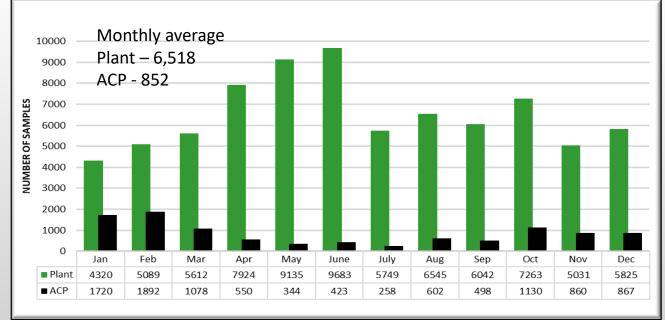
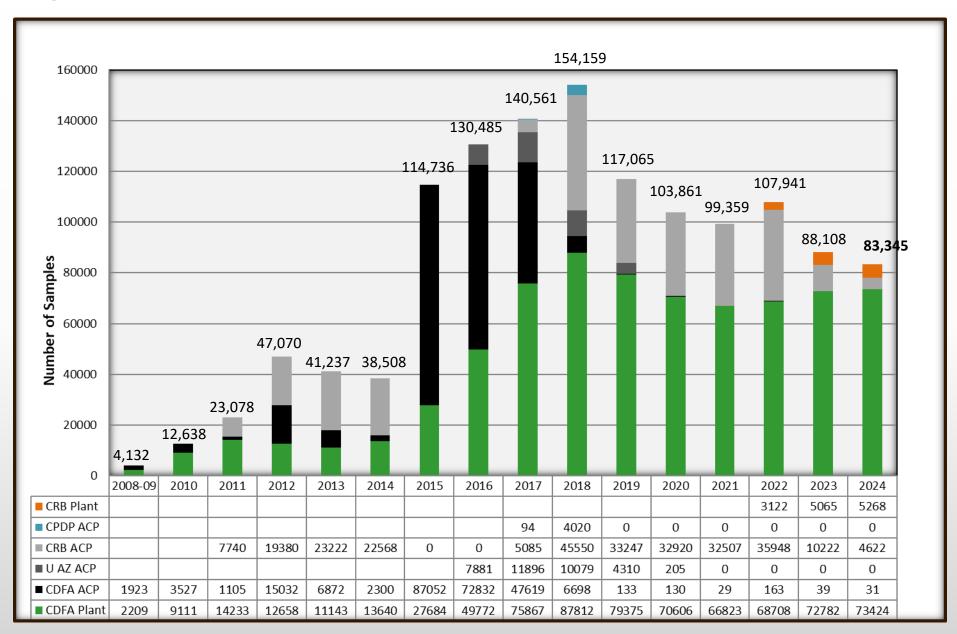


Fig 2. Number of samples tested for HLB per year from 2008 – 2024.



Combined total of plant and ACP samples tested from 2008 – 2024 is 1,306,283

Tables 1a-1d. Tally of positive sites, positive trees, and CLas+ ACP samples by city and county as of 1/3/2025.

2012-2024	# Sites	# Trees	ACP sample
Grand Total	5974	9408	868

Orange County Positives							
City	# Sites	# Trees	# ACP samples				
Garden Grove	737	1281	124				
Santa Ana	733	1201	98				
Anaheim	1024	1784	170				
Westminster	367	628	22				
Orange	339	498	45				
Tustin	50	64	10				
Fountain Valley	15	22	3				
Huntington Beach	27	30	2				
Placentia	93	128	15				
La Habra	10	12	1				
Fullerton	19	23	10				
Yorba Linda	67	189	13				
Irvine	150	194	5				
Costa Mesa	93	134	3				
Brea	34	51	1				
Buena Park	9	16	2				
Cypress	5	1	5				
Stanton	5	6	1				
Midway City	12	26	0				
Los Alamitos	1	0	1				
Villa Park	2	3	0				
Newport Beach	4	4	0				
Mission Viejo	1	1	2				
Total	3797	6296	533				

Los Angeles County Positives						
City	# Sites	# Trees	# ACP samples			
Whittier	223	272	51			
Pico Rivera	295	447	73			
Montebello	82	113	2			
San Gabriel	93	125	9			
Rosemead	50	69	7			
Paramount	28	35	5			
La Mirada	53	72	6			
La Puente	55	67	9			
Norwalk	15	12	5			
Cerritos	7	9	5			
Hacienda Heights	5	5	1			
Lakewood	5	6	0			
Duarte	170	262	7			
El Monte	73	106	8			
South El Monte	22	43	4			
Alhambra	6	7	0			
Temple City	12	11	2			
Compton	1	1	0			
Glendora	1	0	1			
South Gate	10	10	6			
Long Beach	13	21	3			
Los Angeles	8	6	2			
Downey	28	35	5			
Carson	4	3	1			
Monrovia	41	60	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			
Azusa	8	16	2			
Covina	2	1	1			
Commerce	3	4	0			
San Dimas	1	1	0			
Total	1344	1849	222			

Riverside County Positives							
City	# Sites	# Trees	# ACP samples				
Corona	256	371	35				
Riverside	31	32	10				
Eastvale	2	2	0				
Jurupa Valley	40	62	4				
Moreno Valley	1	1	0				
Norco	4	9	0				
Hemet	1	0	1				
Total	335	477	50				
San Be	ernardino Co	unty Positiv	es				
Rancho Cucamonga	5	7	4				
Montclair	20	20	7				
Colton	6	11	3				
San Bernardino	2	1	1				
Ontario	307	484	22				
Fontana	30	47	9				
Chino	20	30	3				
Total	390	600	49				
San	Diego Coun	ty Positives					
Fallbrook	2	1	1				
Oceanside	4	9	4				
Pauma Valley	1	0	1				
Vista	1	0	1				
San Diego	47	75	0				
Valley Center	5	19	2				
Total	60	104	9				
Ventura County Positives							
Santa Paula	48	82	5				
Total	48	82	5				

Table 2. Positive detections by year

Positive Detections by Year							
Year	# Sites	# Trees	# ACP samples				
2012	1	1	1				
2015	10	10	3				
2016	13	19	3				
2017	295	269	116				
2018	422	699	82				
2019	532	756	75				
2020	362	488	44				
2021	385	598	59				
2022	884	1342	166				
2023	1817	2965	229				
2024	1253	2261	90				
Total	5974	9408	868				



Current Status in the HLB Quarantine

- HLBQ 6 counties and 2,494 square miles
- No outdoor citrus nursery stock (CNS)
- Must have an approved insectresistant structure
 - Inspected every 30 days
 - Tested every 6 months

County	Number of Nurseries in HLBQ with a Structure
Los Angeles	2
Orange	2
Riverside	3
San Bernardino	3
San Diego	1
Ventura	0
Total	11



Issues and Proposal

Issues

- Growing void of available CNS leads to illegal importation, propagation, and sale.
- Significant staff hours and resources spent addressing each illegal nursery.
- Replacing HLB-infected and removed trees.

Proposal

- Implement HLB retail nursery program as a systematic approach to supply certified, clean CNS with limited shelf life.
- Timing coincides with direction established at the 12/2024 CPDPC Strategic Planning Meeting.





HLB Retail Nursery Program

Origin Shipping Nursery

- Originates from USDA-approved structure
- Treat CNS with systemic and foliar products
- Tag with appropriate quarantine and program tags
- Tree is eligible for sale in HLB for 90 days from date of treatment

HLB Retail Nursery

- Signs compliance agreement with CDFA
- Solid wall building or structure to protect CNS from exposure
- Maintain trees >30 feet from doorway
- No more than 500 trees at one time
- Cannot be sold out of HLBQ
- Destroy tree(s) after 90 days from treatment
 - 1 re-treatment is allowed, if capable



Assumptions and Factors Considered

- Demand for CNS will not diminish
- Retail purchases, especially plants, are made close to home
- Program will be implemented seasonally
- CNS will be added to HLB quarantines and is better as certified clean plants rather than home grown
 - If plants are illegally moved from the HLBQ, the risk is lowered if initially certified clean
- Illegal propagation and sale won't be eliminated but should be significantly reduced





Pros/Cons

Pro

- Systematic option for certified, clean plants in an HLBQ
- Helps the nursery industry that spent significant resources in protecting trees under screen
- Major reduction in CDFA staff time and resources

Con

- Added risk with trees introduced to HLBQ
- Resources spent to remove trees to be replaced





HLB TREATMENT UPDATES

SOUTHERN DISTRICT

JANUARY 22, 2025

UPDATES

- DELIMITATION TREATMENTS WERE CONDUCTED IN THE FOLLOWING AREAS:
 - ANAHEIM HILLS, YORBA LINDA, COSTA MESA, IRVINE, DUARTE, MONTEBELLO, PICO RIVERA, WHITTIER, JURUPA VALLEY, CORONA, MONTCLAIR, ONTARIO, FALLBROOK, AND RANCHO BERNARDO.

- PUBLIC MEETINGS HELD TO CONDUCT TREATMENTS:
 - RIVERSIDE AND SAN BERNARDINO COUNTIES: OCTOBER 22, NOVEMBER 26, AND JANUARY 8, 2025.
 - LOS ANGELES AND ORANGE COUNTIES: OCTOBER 8, NOVEMBER 7, DECEMBER 3, AND JANUARY 7, 2025.
 - SAN DIEGO COUNTY: AUGUST 13 AND OCTOBER 2, 2024.

HLB DELIMITATION TREATMENTS I

Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact	Completion
Duarte (2-5, 8,19-27,35-36,41-42,45,58-65)	393	191	171	23/12	98%
Yorba Linda (35,37)	519	71	432	13/8	99%
Anaheim Hills (168-169)	522	240	203	64/95	97%
Irvine (33-42)	1,760	687	1,012	44/30	99%
Rancho Bernardo (1)	481	200	275	4/2	100%
Fallbrook (1-2)	41	28	3	8/2	100%

HLB DELIMITATION TREATMENTS II

Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact	Completion
Jurupa Valley (2,4-7,15-17)	324	158	127	13/22	92%
Corona (37,41-42,44,46,48-49,70-81)	858	145	676	14/25	97%
Montclair (7)	100	39	59	0/3	98%
Ontario (4-6,9-13,17-18,27-29,34-36,40-46,50-53,82-89,92)	2,241	942	1,102	74/121	95%

HLB DELIMITATION TREATMENTS — FS/ADJ. PROPERTIES

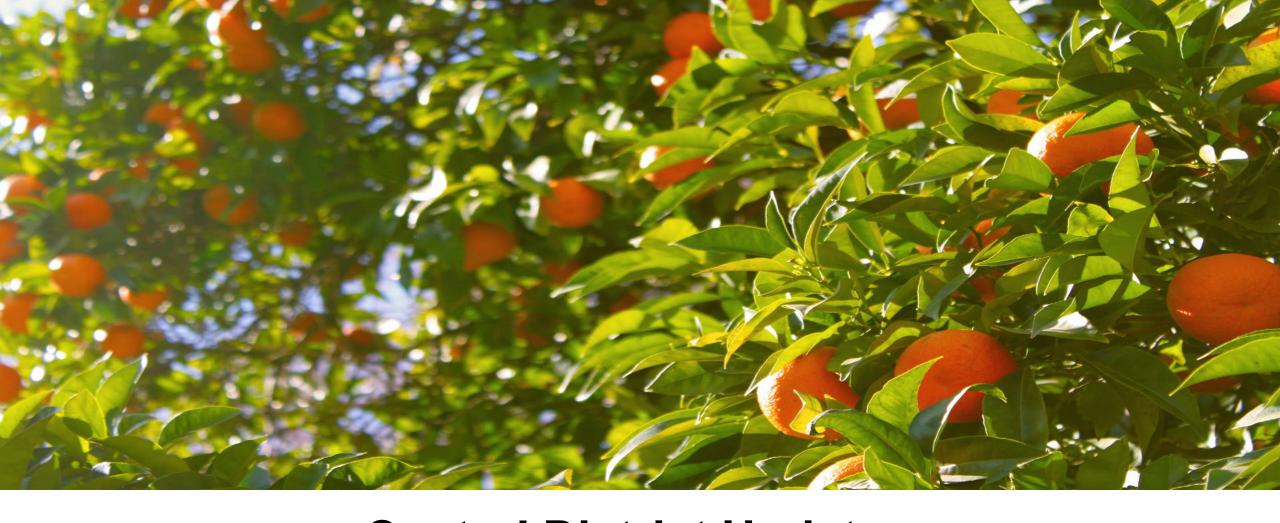
Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact
La Puente	8	4	2	0/2
Long Beach	21	10	10	1/0
Montebello	6	2	4	0/0
Pico Rivera	245	125	98	8/7
San Gabriel	212	84	121	2/5
San Dimas	98	18	75	2/2
Whittier	50	26	18	4/2

SOUTHERN DISTRICT STAFFING UPDATES

County	Permanent	Seasonal	Pending Hiring	Status
Los Angeles	24	4	1 PPA II and 1 PPA I	Hiring freeze till April 1, 2025.
Orange	17	0	-	
Riverside and San Bernardino	18	5	-	
San Diego and Imperial	16	0	1 PPA I	Hiring freeze till April 1, 2025.

STAFF DISTRIBUTION BY ACTIVITIES

Counties	Surveys	Treatments and Tree Removal	Regulatory
Los Angeles and Orange	23	18	3
Riverside and San Bernardino	10	6	5
San Diego and Imperial	12	2	2



Central District Update Operations Subcommittee Meeting January 22, 2025



Central District Update

- Since October 16, 2024, Kern had five ACP detections.
 - October 24 one ACP adult on a trap (Bakersfield).
 - October 24 one ACP adult on a trap (Bakersfield/Oildale).
 - October 25 one ACP adult on a trap (Maricopa).
 - October 25 one ACP adult on a trap (Bakersfield/Lamont).
 - November 14 three ACP adults on a trap and subsequent live ACP collected (Bakersfield).
 - Tree was treated and removed on November 18. 400-meter treatment project.
 - November 20 additional ACP confirmed from traps screened after the tree was treated and removed.
 - Treatment began on December 20 and is expected to be completed by January 17, 2025, weather permitting.
 - Tamarixia were released near all detection sites and will continue through February.





Central District Update

- Detection, delimitation, and grove trapping remains status-quo.
- Multi-pest risk survey is on-going.
- Citrus commodity surveys are on-going as weather permits.
- Some staff have assisted the Animal Health Branch by testing facilities for bird flu.
- The two Visalia offices are now located at:
 7401 W. Sunnyview Ave, Suite A, Visalia.





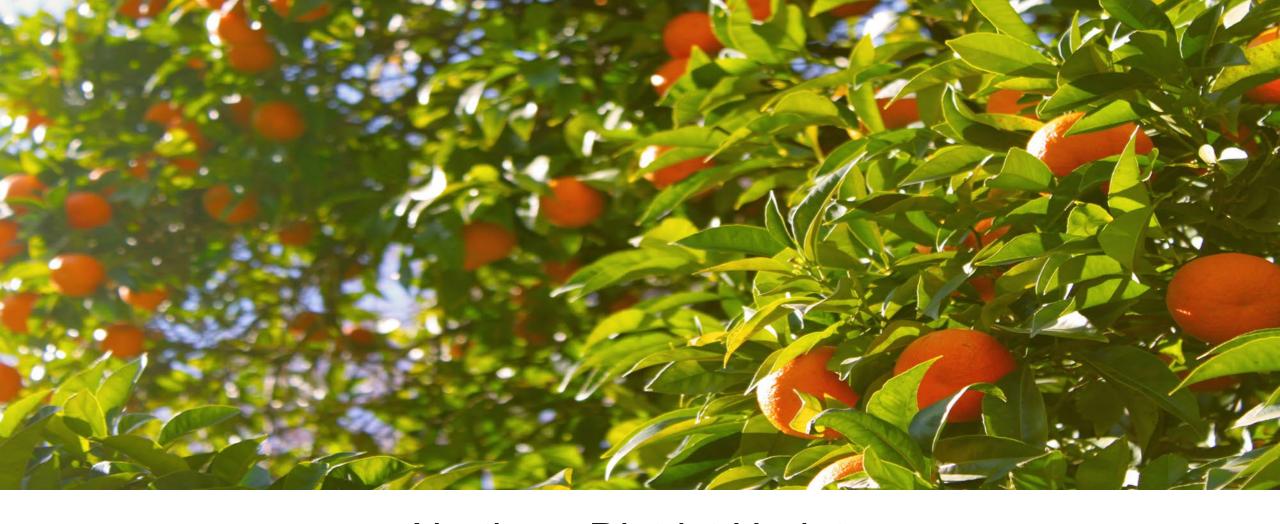
Total Tree Total **Total HLB+** Total **Total** Total **Total HLB+** Removal **Properties** Survey **Properties Treatment** Trees **Trees** Surveyed Refusals **Treated** Refusals Refusals Removed 2,513 82 21 967 19 81

Central District Update - Projects

Office	Survey	Trapping	Treatment
Fresno	5	7	0
Visalia	4	4	1
Shafter	3	2	1
Camarillo	8	0	2

Central District Update - Staffing

County	Total Perm Staff (current)	Pending Hiring (vacancies)	Hiring Status
Fresno County (Fresno)	12	N/A	1 PPA I So-Cal LT
Kern County (Shafter)	6	N/A	1 PPA I on loan to PD/EP; 1 PPA I vacancy; 1 PPAII vacancy
Tulare County (Visalia)	9	N/A	Fully Staffed
Tulare County (Visalia Regulatory)	1	N/A	Fully Staffed
Ventura County (Camarillo)	10	N/A	1 PPA I & PPA III on loan to PD/EP



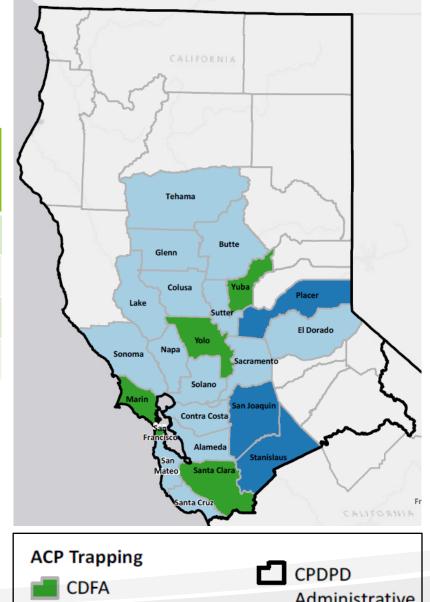
Northern District Update
Operations Subcommittee Meeting
January 22, 2025

Northern District Update | ACP Trapping



General Detection

Entity	Type	Number of Counties	Number of Traps
County	Commercial	3	135
County	Residential (YR)	3	1351
County	Residential (W)	12	3090
State (CDFA)	Residential (W)	5	1358





Northern District Update | HLB Risk-Based Survey

2024 Cycle 2 Counties			
Alameda	*San Joaquin		
Butte	San Mateo		
Contra Costa Santa Clara			
Glenn	Solano		
*Marin	Sonoma		
Placer	Stanislaus		
*Sacramento			

^{*100%} completion of Cycle 2

Overall, 44% of Cycle 2 is complete in Northern District



Northern District Update | Delimitation and Treatment



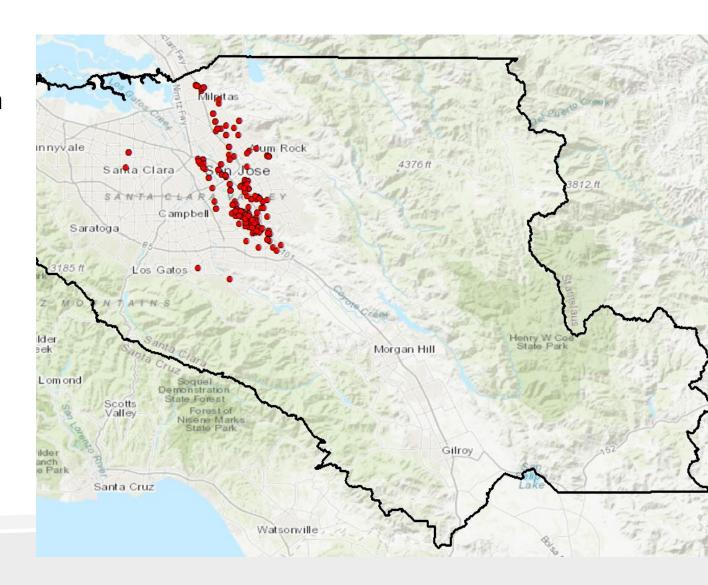
Santa Clara County

41 new detections since last Operations Subcommittee meeting on October 16, 2024, resulting in:

- 4-grid expansion (48 to **51***)
- 35 more delimitation traps (980 to 1015)

Second round of foliar AND systemic spot treatment completed on October 16, 2024

- 93 total properties
 - 63 treated
 - 29 no host
 - 1 refusal



Northern District Update | Staffing

Classification	Total Perm Staff (current)	Vacancies
Senior Environmental Scientist (Supervisory)	3	0
Senior Environmental Scientist (Specialist)	2	0
Environmental Scientist	6	0
Research Data Specialist I	1	0
APC Supervisor	1	0
APC Specialist	1	0
Pest Prevention Assistant II	3	0
Pest Prevention Assistant I	3	0

Asian Citrus Psyllid Biocontrol Update



January 2025



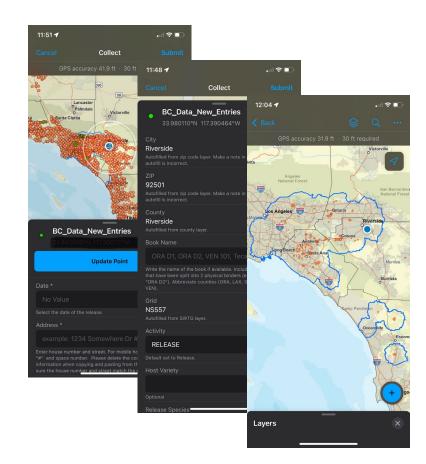
2024 Biocontrol Activities

Releases

- Data migrated to ArcGIS
 - Increased Accuracy
 - Easier site location for release crew
 - Easier to avoid active treatment areas

Production

- Increased production at Cal Poly
 - Thrips control regular nematode treatments
 - Lighting
 - Banker / Trap plants
 - Efficient breakdown protocol



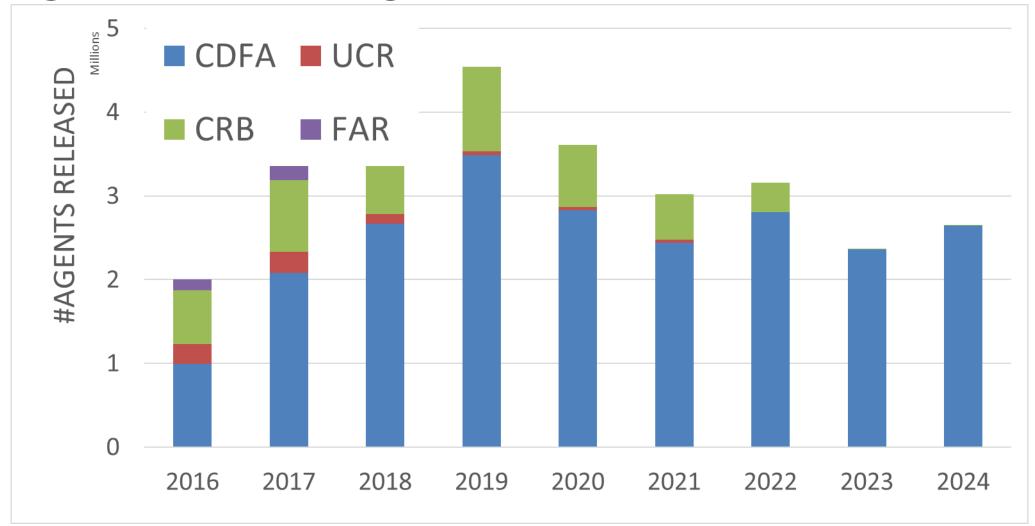


Biological Control Agent Releases

	Releases Previous Month	Releases, 2024	Releases 2011-2	2024
County	December	T. radiata	T. radiata	D. aligarhensis
	2024	Released	Released	Released
Imperial	200	57,800	713,343	10,295
Los Angeles	67,450	780,560	8,811,084	107,734
Orange	58,000	639,400	6,950,716	71,179
Riverside	18,400	260,100	4,359,702	127,739
San Bernardino	30,600	254,400	2,515,115	57,252
San Diego	27,000	282,400	3,477,264	86,403
Ventura	18,200	216,800	2,636,506	16,830
Santa Barbara	1,800	47,000	453,182	12,012
Kern	3,200	12,800	417,264	0
Santa Clara	6,000	73,000	363,037	0
Placer	0	0	3,400	0
San Luis Obispo	0	3,000	142,200	0
Tulare	0	8,400	71,800	0
Fresno	0	8,000	35,000	0
Monterey	0	0	29,000	0
Madera	0	0	5,600	0
Arizona	0	0	253,500	0
Mexico	0	0	306,000	0
TOTAL	230,850	2,643,660	31,543,713	489,444
	TOTAL (2011-2024):			32,033,157



Biological Control Agent Releases

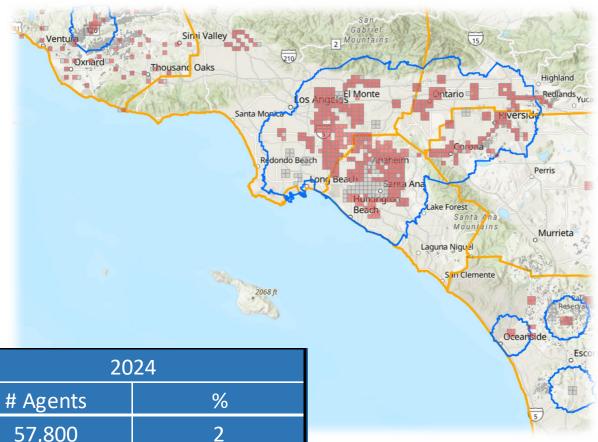




Biological Control Agent Release Areas

Releases in:

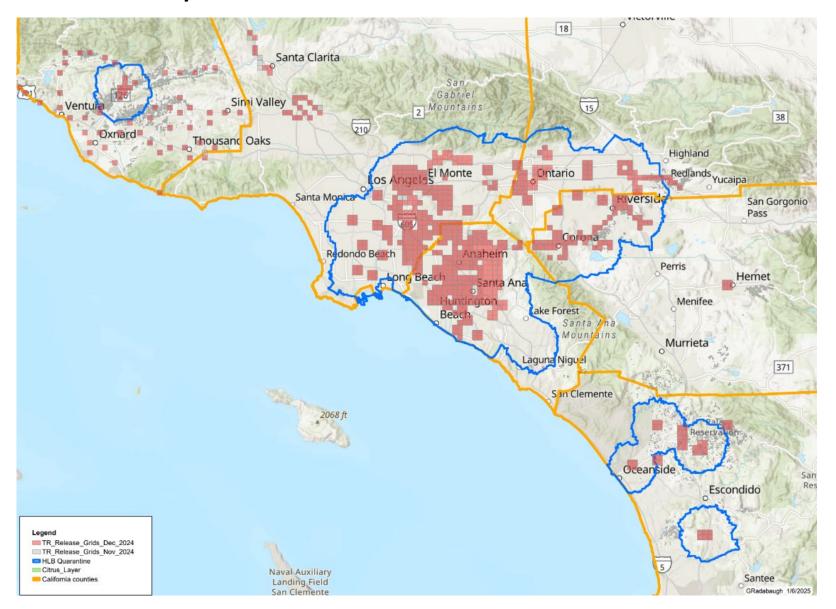
- HLB Quarantine areas
- Borders
- Trade routes
- Area-wide management
- Newly established ACP



Release Type	2023		2024	
	# Agents	%	# Agents	%
Borders	99,800	4	57,800	2
HLB	1,889,615	80	2,216,860	84
New	147,900	6	105,200	4
Routes	232,300	10	263,800	10

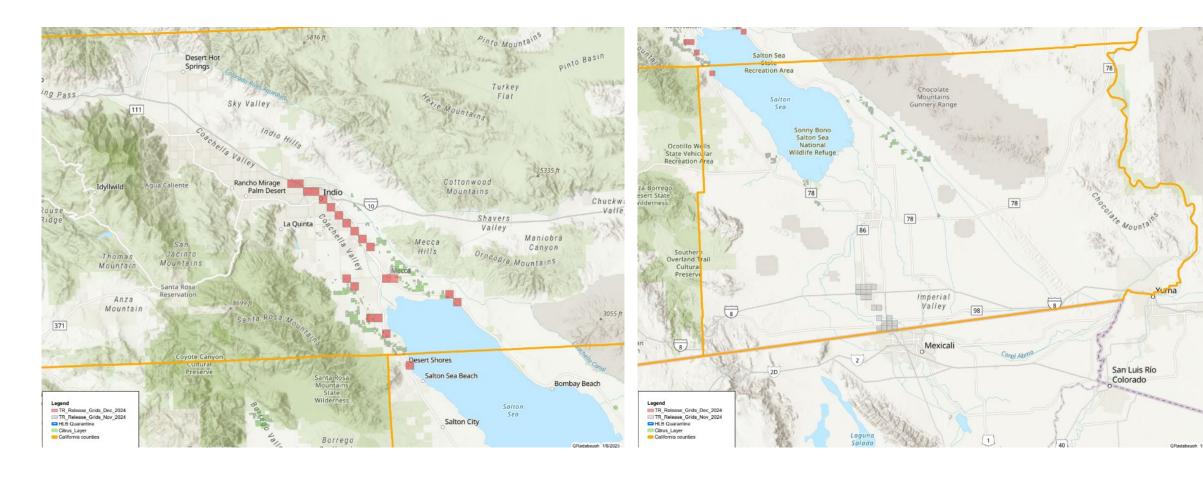


Releases within / around HLB Quarantine areas



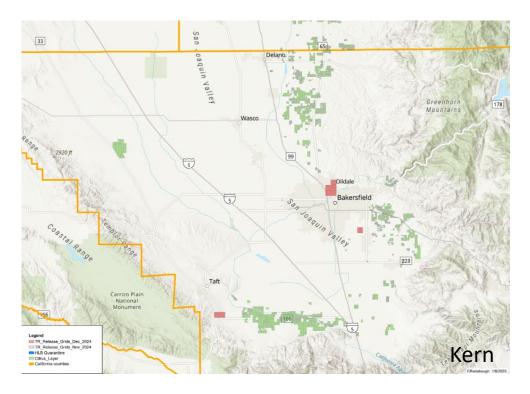


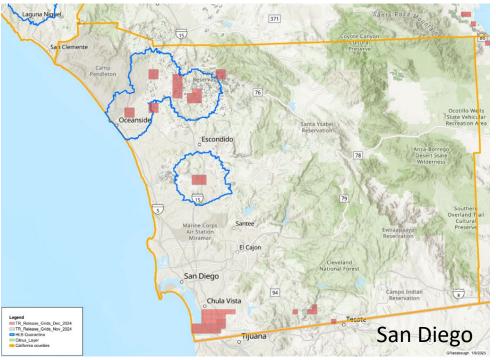
Releases around Salton Sea





Releases Beyond HLB Quarantine Areas

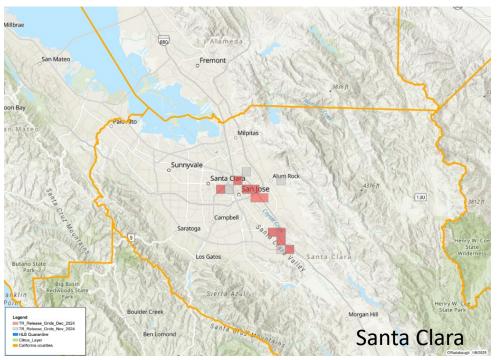






Releases Beyond HLB Quarantine Areas







Region-Wide Urban Monitoring 2015 - Present

