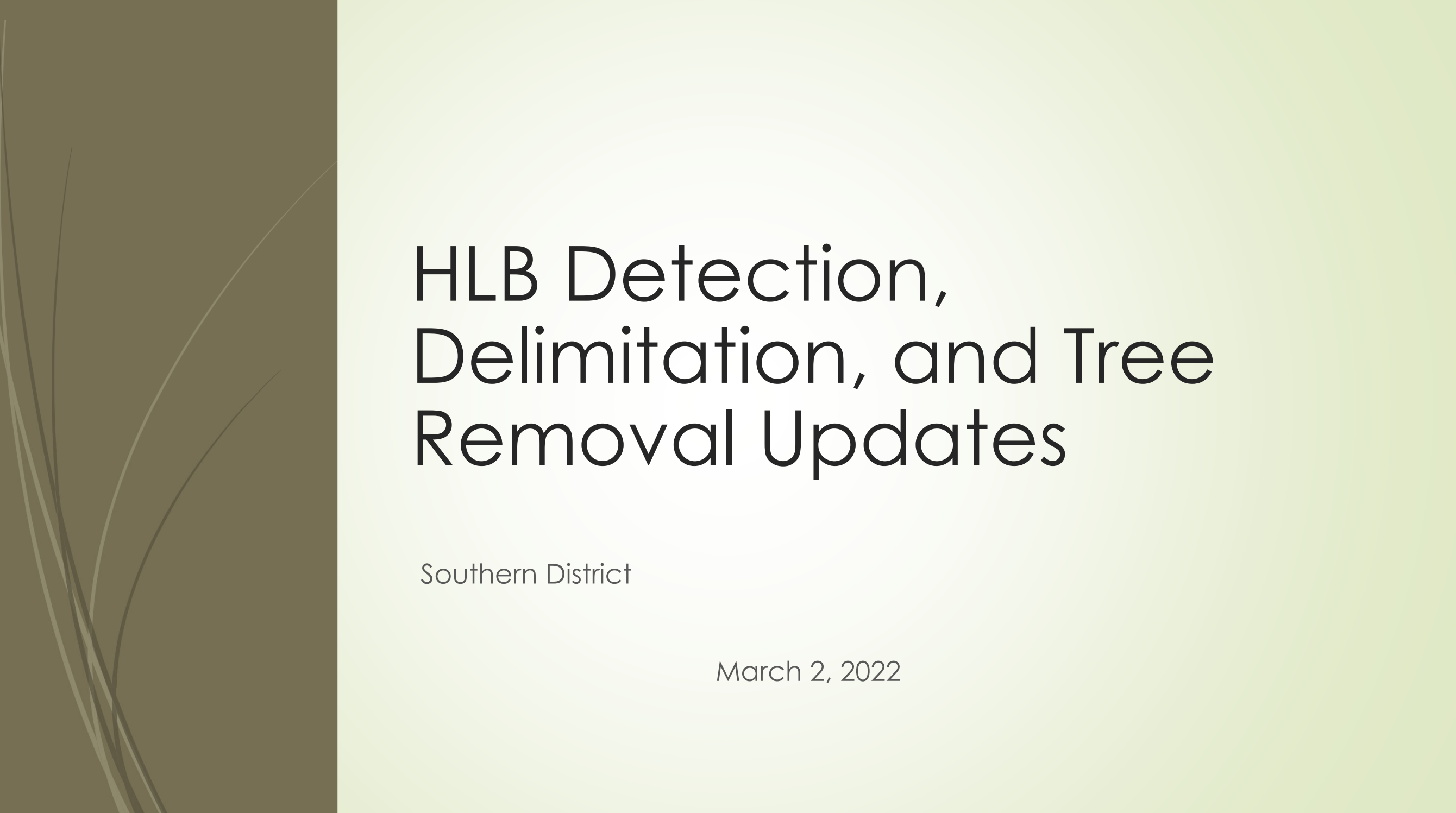




HLB Detection, Delimitation, and Tree Removal Updates

Southern District

March 2, 2022

HLB Delimitation Survey

Areas	Total Properties	Properties Surveyed	No Host Properties	Refusals/No Contact	Completion Percentage
Westminster (1)	559	170	37	18/26	30%
Santa Ana (1,4)	1,647	1,217	544	27/166	74%
Anaheim (17, 18)	2,403	1,560	601	51/181	65%
Jurupa Valley (1)	246	237	169	0/4	96%
Riverside (1,5,6,7)	497	459	256	10/12	93%
Ontario (5 thru 11)	474	325	206	10/8	69%
La Mirada (1)	474	80	27	3/3	17%
Paramount (1)	180	167	119	0/0	93%

(Find sites, Adjacent, Inconclusive samples)

(Find sites, Adjacent, Inconclusive samples)

[illegible]

HLB Positive Trees – January and February 2022

County	Trees Detected	Trees Removed	Cumulative Pending
Los Angeles	31	9	30
Orange	168	127	85
San Bernardino	24	53	17
Riverside	4	11	0
TOTAL	227	200	132

HLB Border Buffer Risk Survey

County	Cycle 2-2022	Number of Sq. miles		Number of Sites Surveyed	Number of Sites		Completed Sq. miles
		Proposed	Completed		Ento. Samples	Plant Samples	
San Diego (Tecate, Portero, San Ysidro, and San Diego)	Winter (Dec 21- Mar 20)	26	22	206	21	73	85%
Imperial (Calexico, Holtville, and Winterhaven)	Winter (Dec 21- Mar 20)	34	25	78	0	76	71%



California Department of Food & Agriculture Plant Pest Diagnostics Center HLB Testing Program 2022

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

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

Fig 1. 2022- Plant and ACP sample totals per month.

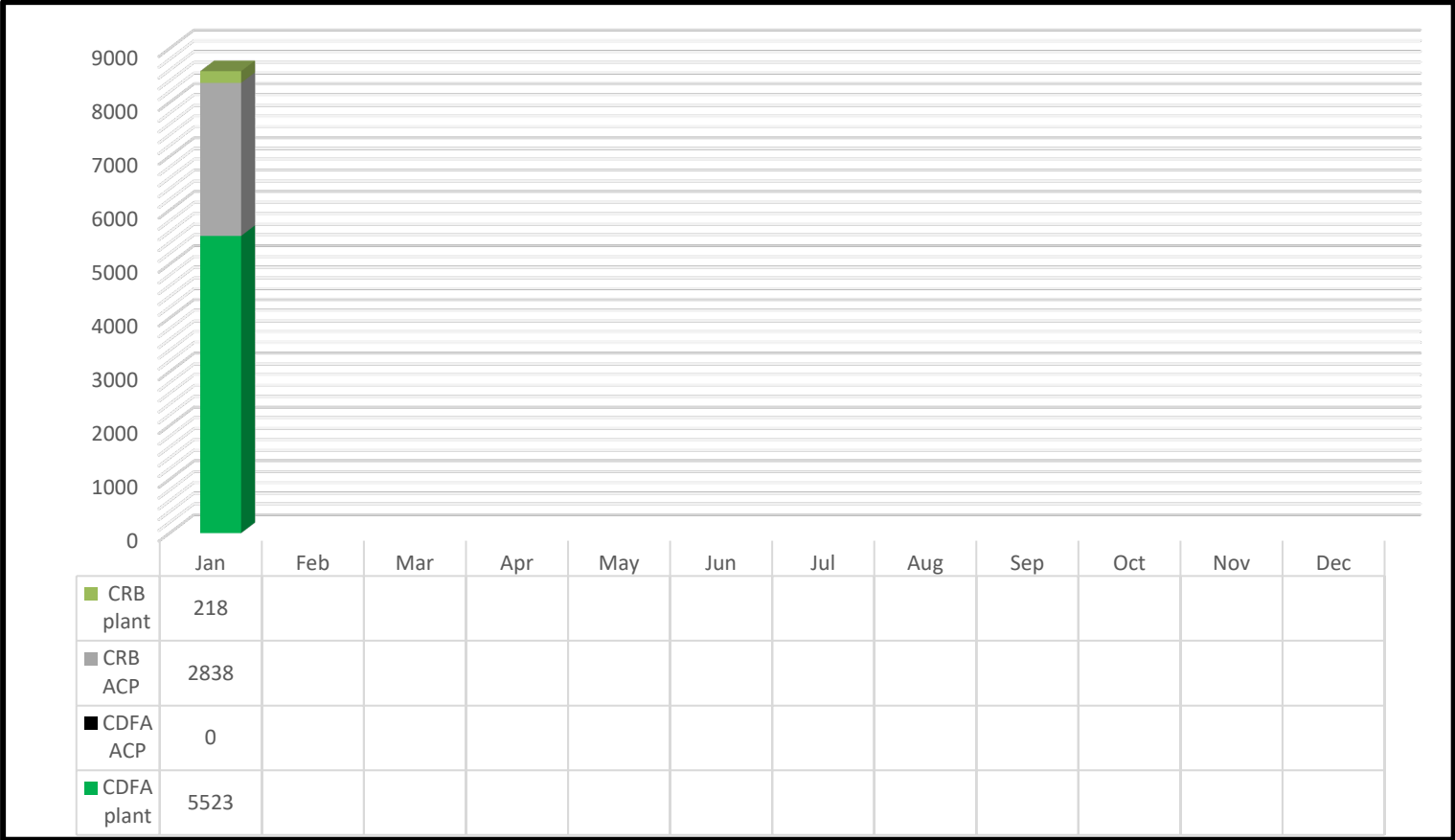
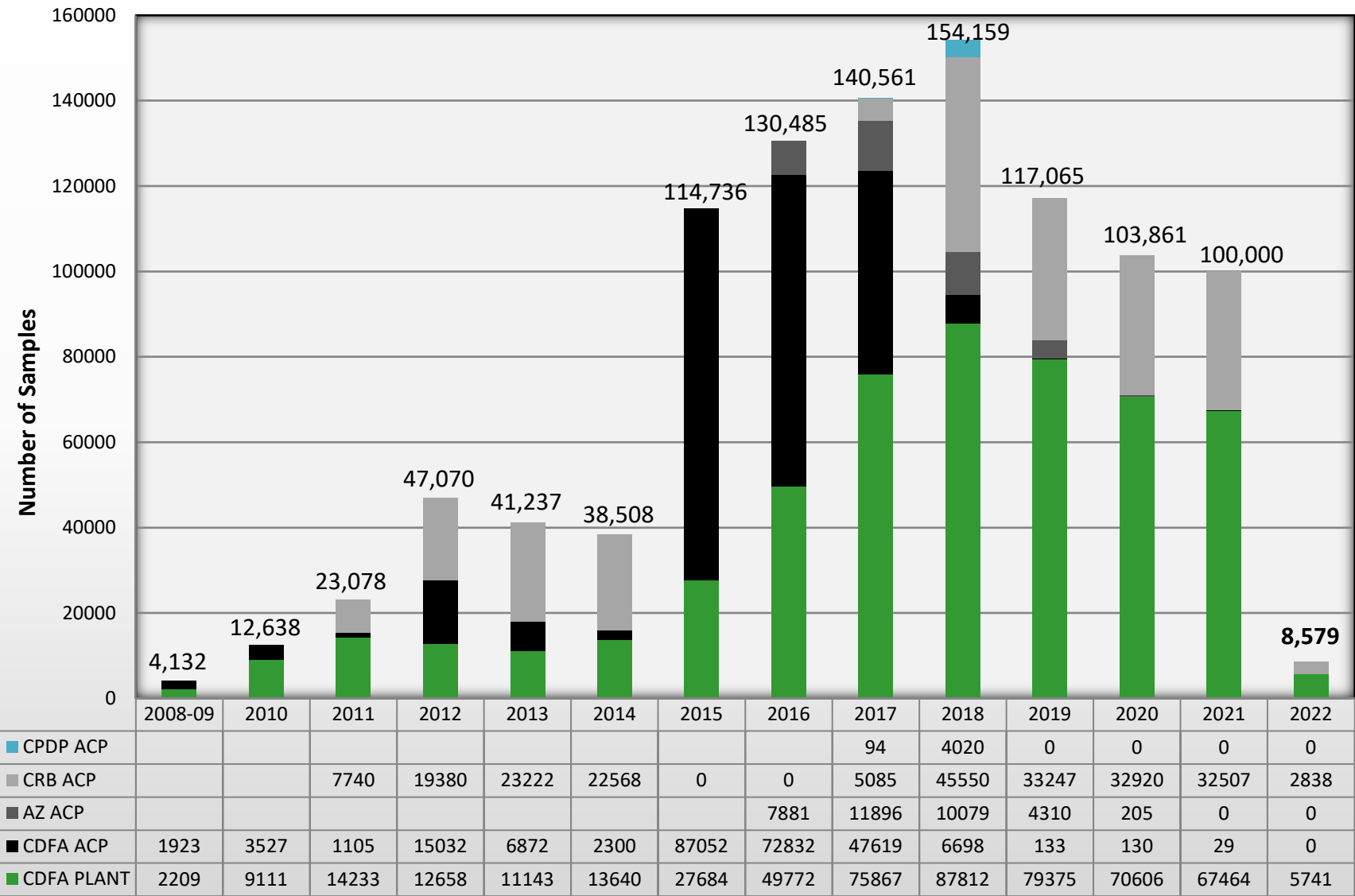


Fig 2. Number of samples tested for HLB per year from 2008 to 2022.



Combined total of plant and ACP samples tested from 2008 – 2022 is 1,036,109.

Table 1. Tally of positive detections by county and city as of 2/23/2022.

City	# Sites	# Trees	# ACP samples
Orange County			
Garden Grove	416	636	63
Santa Ana	387	542	49
Anaheim	427	671	100
Westminster	165	257	16
Orange	90	125	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	1540	2295	253
Los Angeles County			
Whittier	143	177	23
Pico Rivera	107	131	36
Montebello	65	92	1
San Gabriel	65	82	6
Rosemead	23	28	4
Paramount	25	31	3
La Mirada	16	22	4
La Puente	4	3	1
Norwalk	6	4	3
Cerritos	3	2	2
Hacienda Heights	2	2	1
Lakewood	5	6	0
Duarte	3	4	2
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	482	593	93
Riverside County			
Corona	25	30	10
Riverside	23	25	4
Eastvale	1	1	0
Jurupa Valley	1	1	0
Moreno Valley	1	1	0
Total	51	58	14
San Bernardino County			
Rancho Cucamonga	3	7	2
Montclair	6	6	0
Colton	6	11	3
San Bernardino	2	1	1
Ontario	43	89	15
Fontana	1	0	3
Total	61	114	24
San Diego			
Fallbrook	1	0	1
Oceanside	5	9	4
Total	6	9	5
Grand Total	2140	3069	389

Table 2. Percent positives per county

County	Sites	Trees	ACP
Orange	72.0%	74.78%	65.0%
LA	22.5%	19.32%	23.9%
Riverside	2.4%	1.89%	3.6%
San Bernardino	2.9%	3.71%	6.2%
San Diego	0.3%	0.29%	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	113	4%	172	44%
HLB Response	2956	96%	217	56%
Total	3069	100%	389	100%

Table 4. Annual tally of positive trees per city from 2012 – 2022

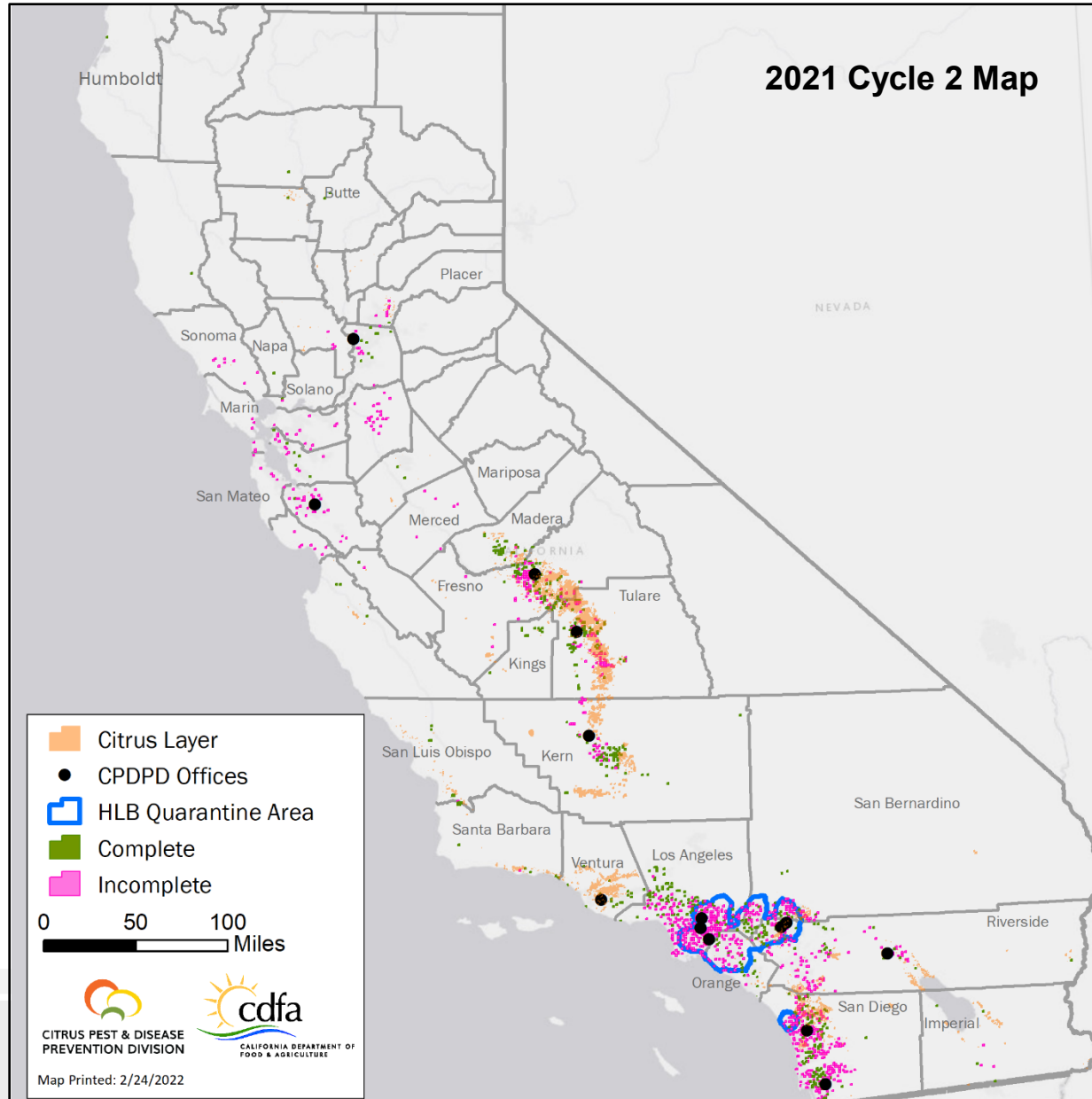
HLB Positive Tree Detections										
City	2012	2015	2016	2017	2018	2019	2020	2021	2022	Total
Anaheim				132	109	90	21	200	119	671
Garden Grove				13	348	115	116	34	10	636
La Habra				1	0	2	0	0		3
Fullerton				1	0	0	0	0		1
Santa Ana					44	168	217	99	14	542
Westminster					15	175	3	39	25	257
Yorba Linda					1	0	0	1		2
Orange					31	14	36	43	1	125
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	5	82
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	4
Temple City						1	0	0		1
Montebello						84	4	0	4	92
El Monte						1	1	0		2
Compton						1	0	0		1
Alhambra						1	0	0		1
La Mirada							7	6	9	22
Paramount							11	8	12	31
Long Beach								2		2
South Gate								2		2
Glendora										
Los Angeles										
Riverside				3	0	4	6	8	4	25
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	64	24	89
Colton							4	7		11
Rancho Cucamonga							5	2		7
Fontana										
Oceanside								9		9
Fallbrook										
Total	1	10	19	269	699	756	488	598	229	3069

County	Total
Orange	2295
Los Angeles	593
Riverside	58
San Bernardino	114
San Diego	9
Grand Total	3069



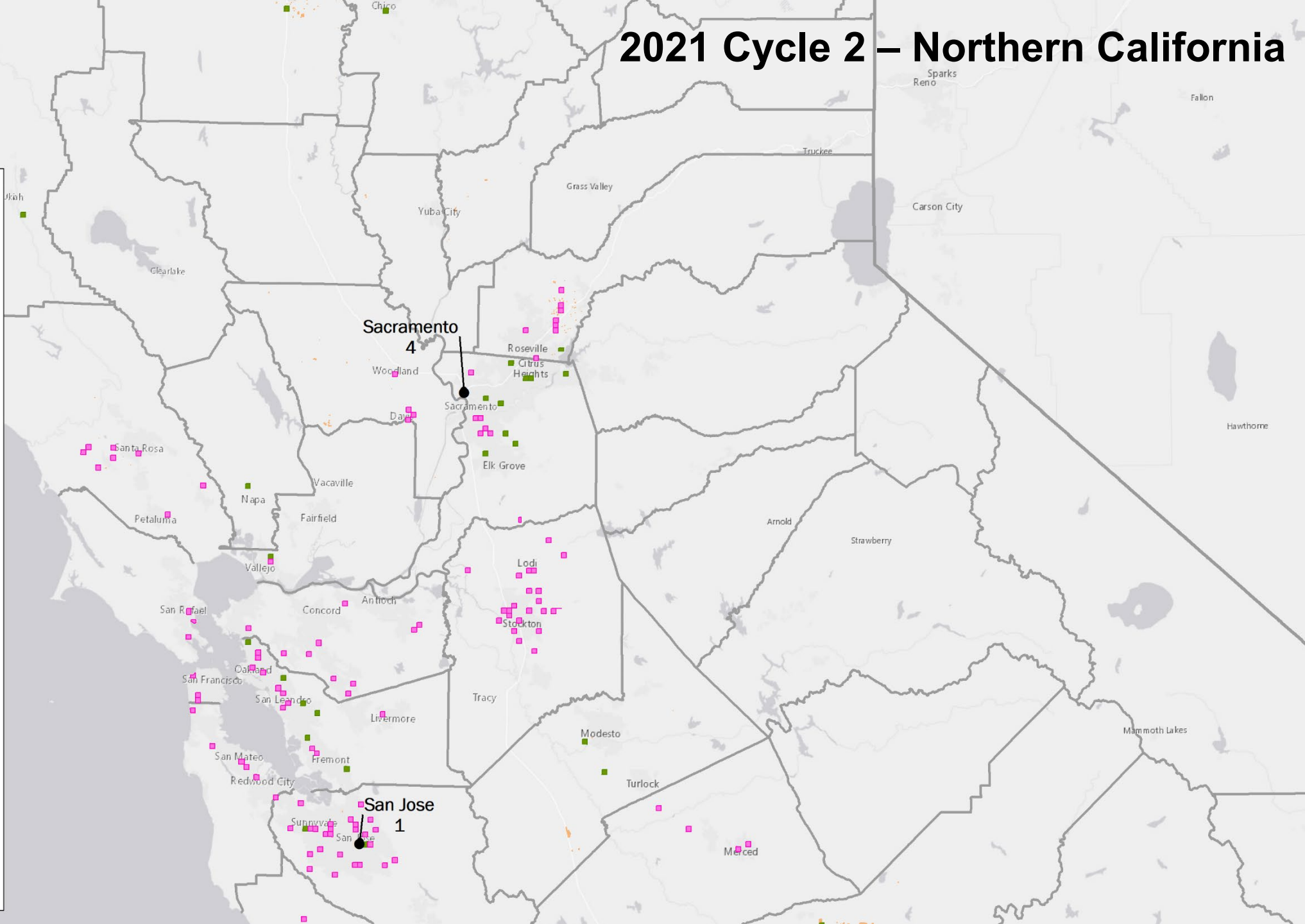
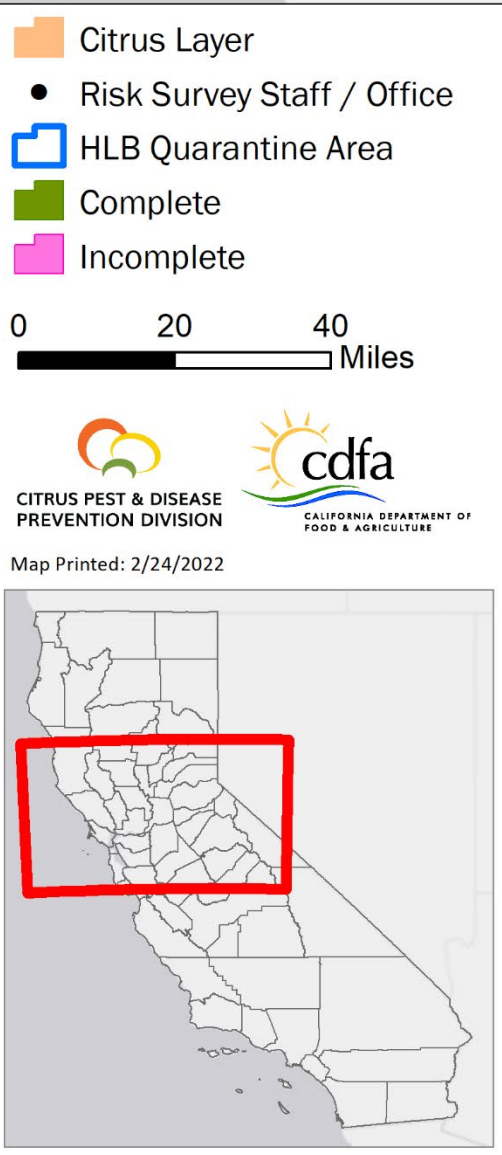
Risk Research Survey Update
Operations Subcommittee Meeting
March 2, 2022

2021 Cycle 2



- Began November 2021
- 39% Complete
- Survey Complete in 11 of 37 Allocated Counties
- 20,113 Properties Visited
- 9,113 Properties Sampled
- 3,980 Entomology PDRs
- 6,620 Plant PDRs

2021 Cycle 2 – Northern California



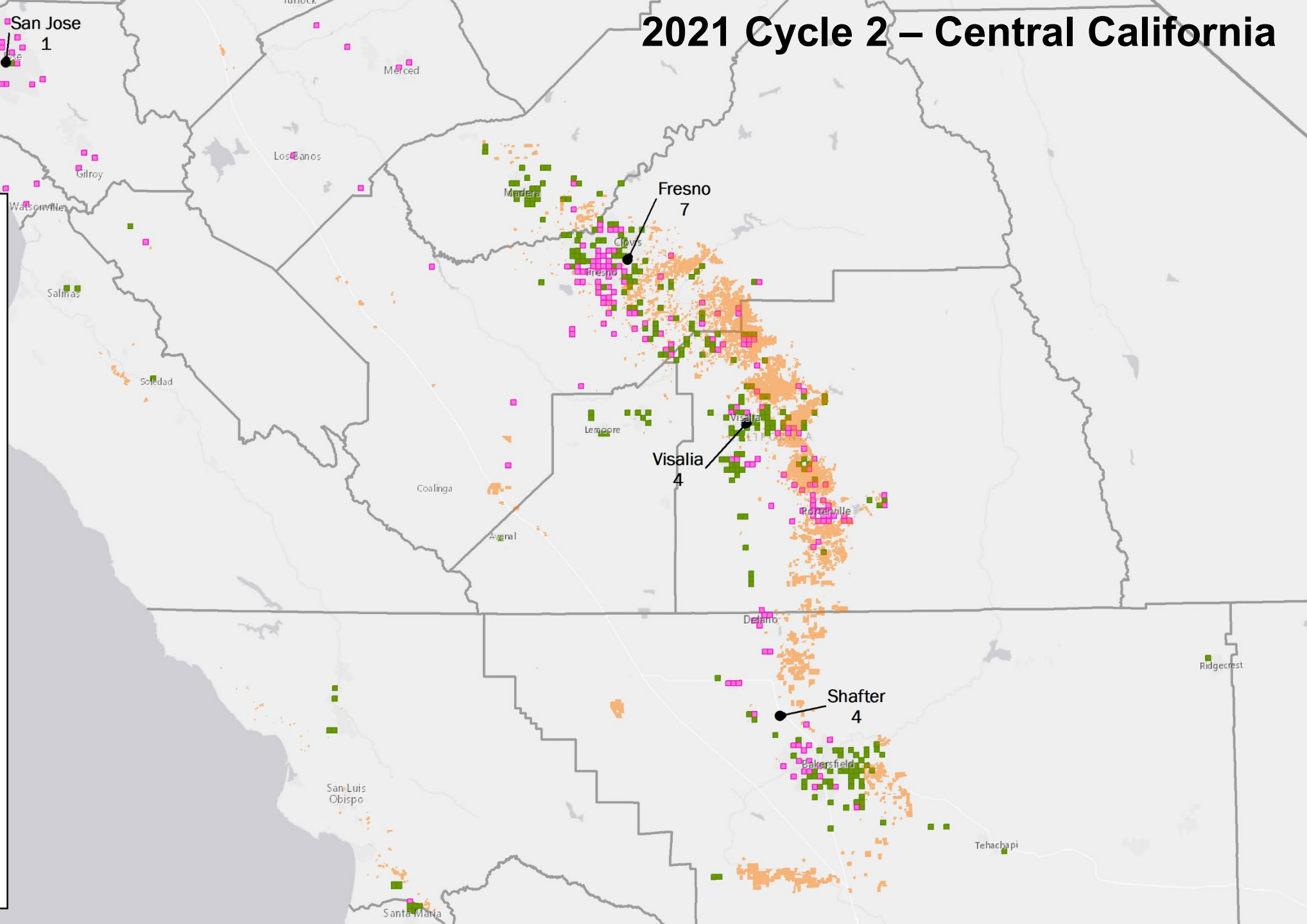
2021 Cycle 2 – Central California

-  Citrus Layer
-  Risk Survey Staff / Office
-  HLB Quarantine Area
-  Complete
-  Incomplete

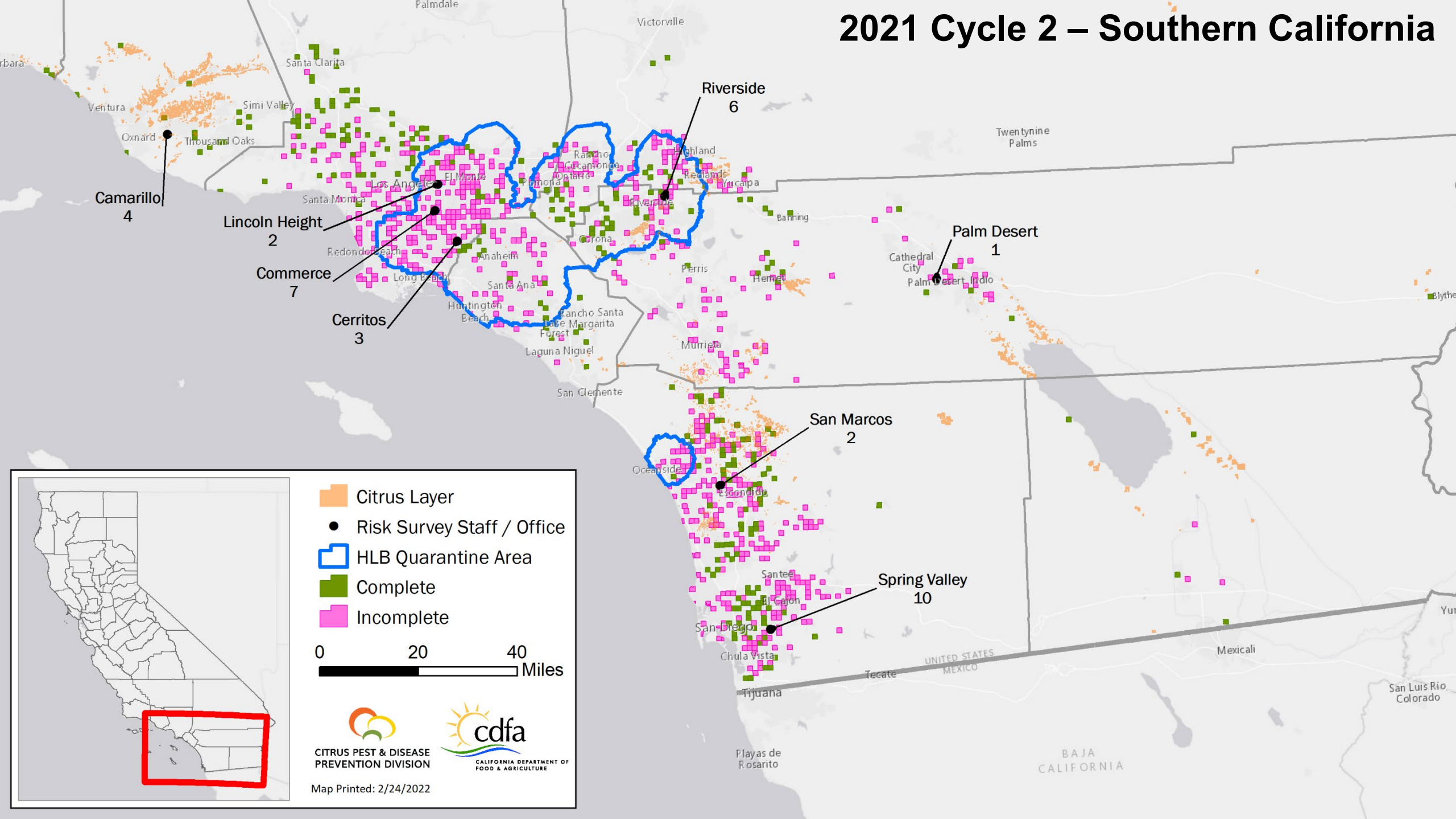
0 20 40
Miles



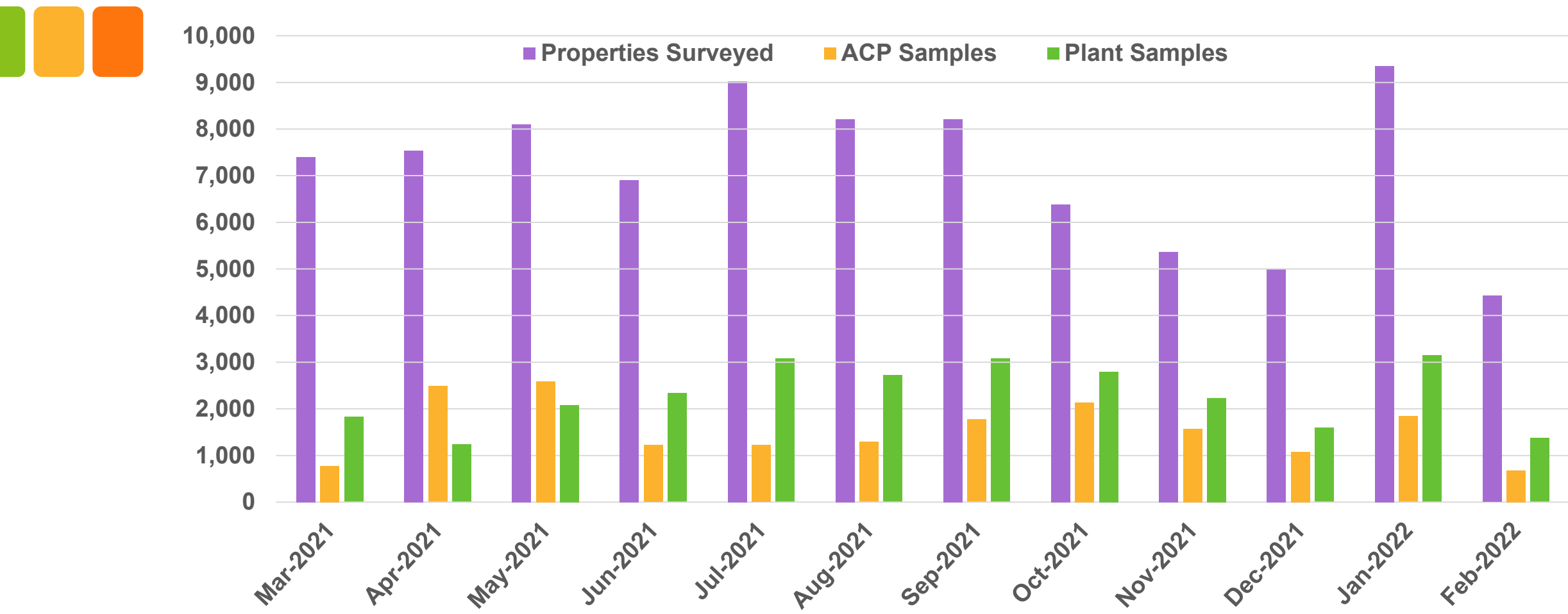
Map Printed: 2/24/2022



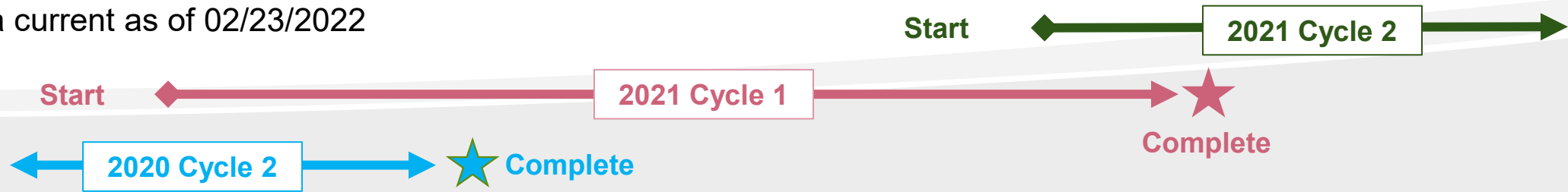
2021 Cycle 2 – Southern California



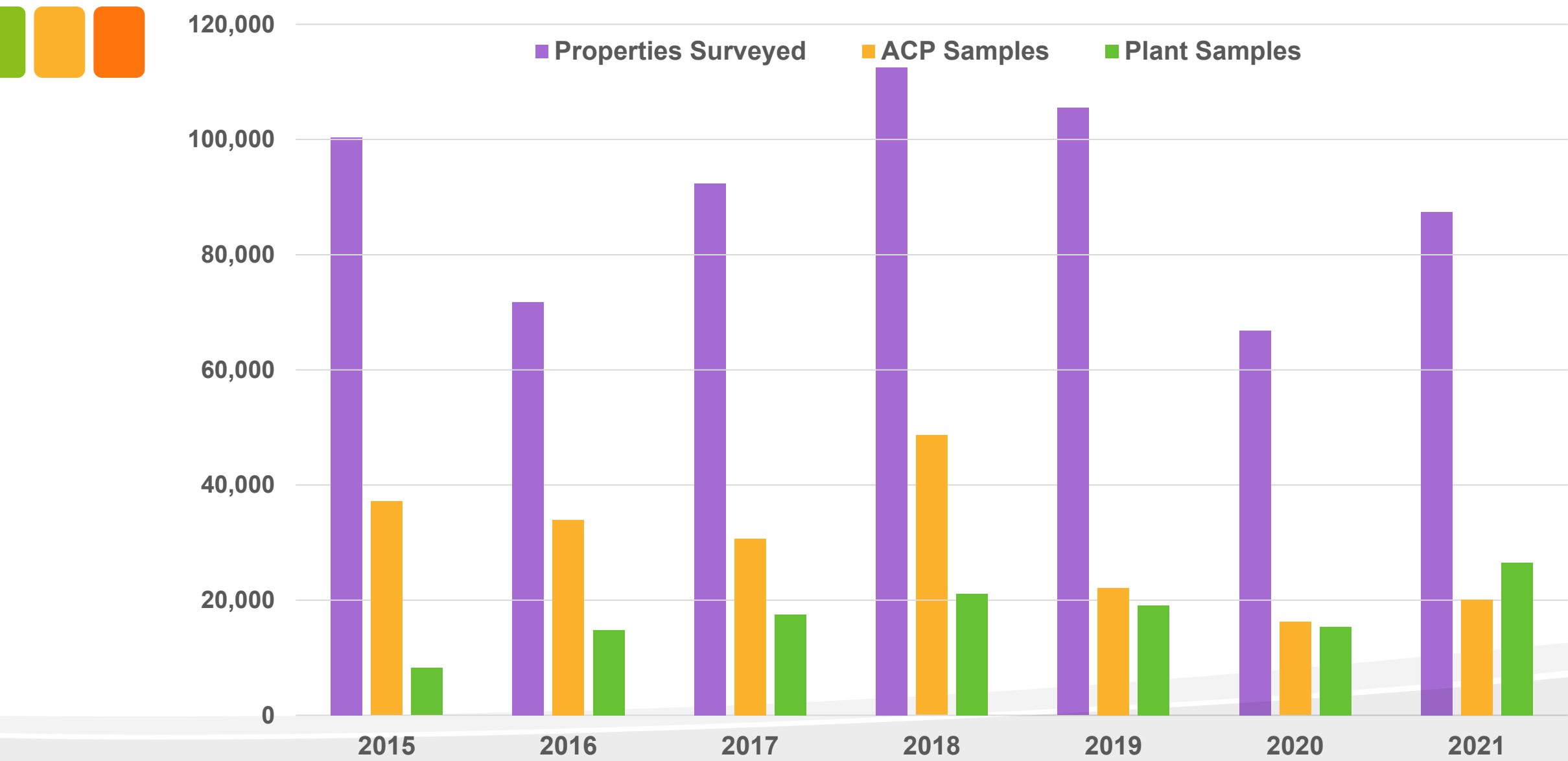
Statewide Trends (2020 Cycle 2, and 2021 Cycle 1 and 2)



*Data current as of 02/23/2022



Statewide Trends (2015 - Present)



Data compiled on 02/24/2022

County Regulatory Activity
July 2021 - December 2021

County	FY 2020 21 Budget Amount	Percent Expended	CAs Issued	Grower Inspections	Transporter Inspections	Packer/Processor Inspections	Fruit Seller Inspections	NOVs	NOPAs
Fresno (*3)	\$93,419.64	8%	14	0	6	0	0	0	0
Imperial	\$49,682.53	46%	1	13	14	1	0	1	0
Kern (*1)	\$75,000.00	37%	9	2	317	1	0	0	0
Kings	\$26,138.94	3%	1	0	0	4	5	0	0
Los Angeles	\$271,839.35	54%	0	1	0	220	33	0	0
Monterey (*4)	\$16,171.55	32%	0	59	0	0	0	0	0
Orange (*2)	\$86,712.60	36%	3	29	2	1	0	0	0
Riverside	\$752,709.87	45%	15	142	920	5	11	1	0
San Bernardino	\$25,557.50	28%	0	0	0	1	0	0	0
San Diego (*1)	\$680,841.88	35%	25	100	110	30	11	3	0
San Luis Obispo (*2)	\$10,970.71	38%	3	3	0	0	0	0	0
Santa Barbara	\$19,886.44	69%	7	12	1	0	3	0	0
Tulare	\$380,000.29	38%	92	0	1,495	1	0	71	26
Ventura (*3)	\$146,007.26	37%	22	10	132	0	0	0	0
Total	\$2,634,938.56	40%	192	371	2,997	264	63	76	26

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



HLB Treatment Updates

Southern District

March 2, 2022



Treatment Updates

- Delimitation treatments continues in some areas of Montebello, Ontario, and Westminster.
- The residential treatments around the commercial citrus groves continues. In this cycle, we are treating with Tempo only.
- Public meetings held in January and February:
 - Los Angeles County on Jan 3, 2022.
 - Orange County on Jan 19, 2022.
 - San Bernardino County Treatments around commercial citrus groves on Feb 7, 2022.
 - Borrego Springs, San Diego Border, and San Diego County on Feb 8, 2022.
 - Los Angeles and Orange county delimitation areas on Feb 22, 2022.
 - San Bernardino County delimitation areas on Feb 23, 2022.

HLB Delimitation Treatments

Areas	Total Properties	Properties Treated	No Host Properties	Refusals/ No Contact	Completion
Ontario (5 -8)	412	73	215	9/115	70%
Riverside (1,5,6,7)	488	193	251	8/38	100%
Jurupa Valley (1)	236	74	152	0/10	100%
Paramount (1,3,4)	326	94	222	4/6	100%
La Mirada (1)	433	229	175	18/11	100%
Westminster (1,2,3)	470	221	221	4/19	100%
Anaheim (17,18,20)	2,800	1,043	1,566	115/82	100%
Orange (49-51)	157	110	35	11/0	100%

Treatments Around Commercial Citrus Groves

Area	Total Properties	Properties Treated	No Host Properties	Refusals/No Contact (Pending)	Completion Status
San Bernardino	154	52	73	26/3	Completed
UCR	879	212	120	63/484	Ongoing
Imperial	343	101	230	7/5	Completed
○ The treatments in Hemet, Coachella, Imperial and San Diego border buffer continues.					
○ The treatments in Santa Barbara will begin on March 7 and may last for couple of weeks.					

Southern District Staffing - Updates

County	Permanent Staff	Seasonal Staff	Pending Hiring	Hiring Status
Los Angeles	27	11	One PPA I and two Ag Tech II	Need additional postings for PPA I, Ag Tech II
Orange	12	9	One ES, PPA I, PPA III, Ag Tech III and seven Ag Tech I	Scheduling interviews for ES and need additional postings for PPA I, PPA III, Ag Tech III and Ag Tech's
Riverside and San Bernardino	16	19	Three Ag Tech I	Scheduling interviews
San Diego and Imperial	16	6	Two Ag Aides	Reviewing applications for these positions

Southern District Staffing - Projects

County	Survey (Delim, Risk, Quadrant, Commodity, SOS)	Treatments (Delimitation, Border buffer, Tree removals)	Regulatory (ACP & HLB quarantine)
Los Angeles and Orange	33	15	5
Riverside and San Bernardino	17	12	5
San Diego and Imperial	13	7	2



Central District Update

Operations Subcommittee Meeting

March 2, 2022



Central District Update

- **New Detections**

- **Tulare County**

- December 10 – one adult ACP confirmed (Visalia, residential)
 - Treatment in 50 m was conducted on December 30, 2021
 - January 10 – one adult ACP confirmed (Tulare, residential)
 - Treatment in 50 m was conducted on January 20, 2022

- **Fresno County**

- December 23 – one adult ACP confirmed (Fowler, packing house)
 - Regulatory incident

- **Monterey County**

- December 30 – one adult ACP confirmed (Salinas, residential)
 - Treatment was completed on February 1
 - Delimitation trapping has been turned over to Monterey

*ACP confirmation dates through February 23, 2022





Central District Update

- **Trapping**

- SLO County delimitation trapping – ongoing
 - Last ACP detection was on December 23, 2021
- Santa Barbara border traps
 - December 20 – 8 traps with ACP detections; 9 ACP/trap average
- Santa Maria follow up
 - SLO requesting treatment in the Santa Maria area
 - Santa Barbara Agricultural Commissioner granted permission to treat in Santa Maria
 - CPDPC provided \$50,000 in additional funding for treatment in Santa Maria, Santa Barbara



Central District Update

- **Biocontrol releases**
 - Kern County's *Tamarixia* releases resumed
 - San Luis Obispo County's *Tamarixia* releases ongoing
 - Santa Barbara County near commercial groves and in Santa Maria
- **HLB Risk Research Survey**
 - Staff continue to work on risk research surveys

Central District Update - Projects

Office	Citrus Commodity Staff	Risk Survey Staff	ACP Trapping Staff	Treatment Staff
Fresno	0	7	4	0
Visalia	0	4	1	0
Shafter	0	4	1	0
Camarillo	0	3	1	4



Central District Update - Staffing

County	Total Perm Staff (current)	Pending Hiring (vacancies)	Hiring Status
Fresno County (Fresno)	12	1 APCS	1 APCS vacancy, advertised
Kern County (Shafter)	7	1 PPA II 1 APCS	PPA II and APCS advertised
Tulare County (Visalia)	6	2 PPA I 1 Env. Scientist	PPA's and ES were advertised
Tulare County (Visalia Regulatory)	1	--	--
Ventura County (Camarillo)	9	2 PPA II 1 PPA I	PPA's were readvertised



Northern District Update
Operations Subcommittee Meeting
March 2, 2022

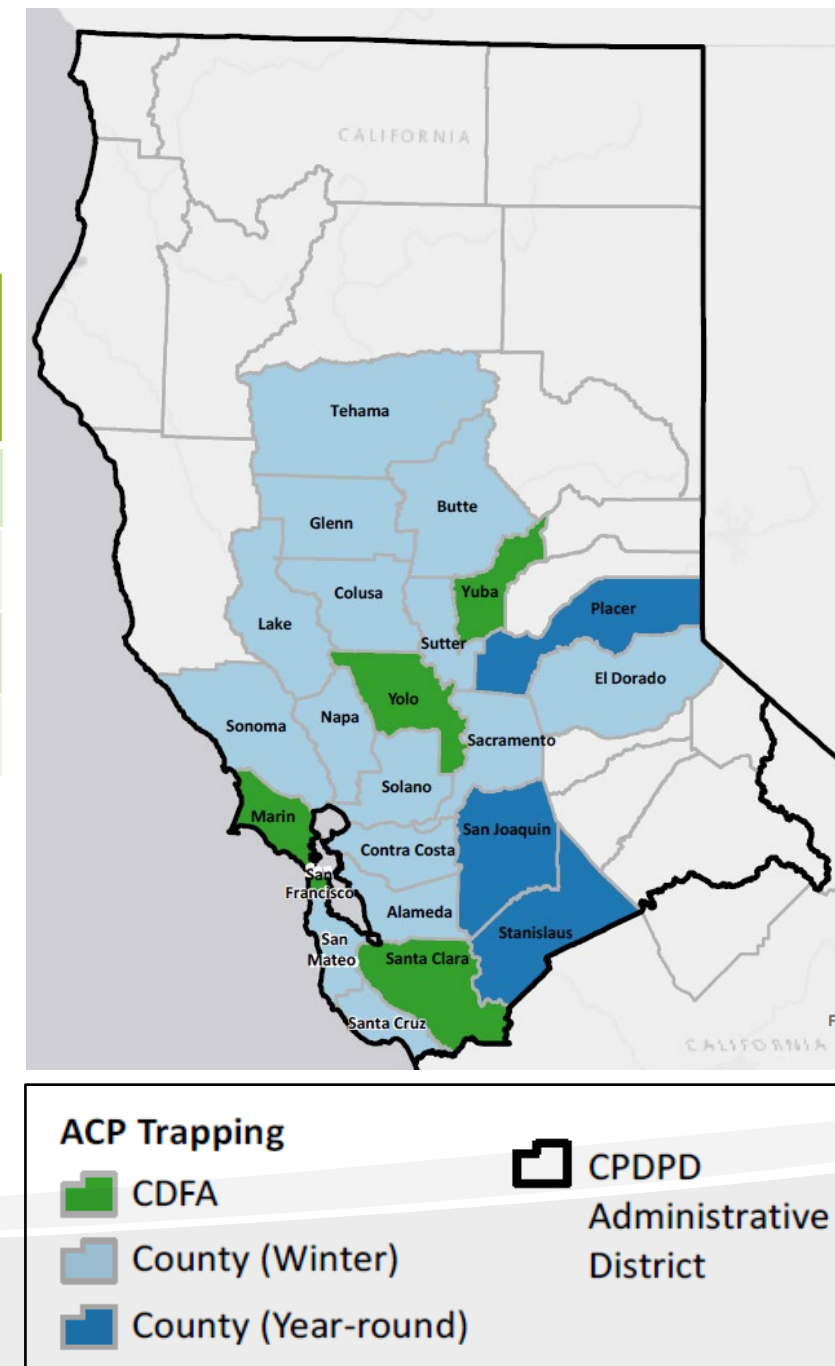
Northern District Update | ACP Trapping

General Detection

Entity	Type	Number of Counties	Number of Traps
County	Commercial	3	137
County	Residential (YR)	3	1426
County	Residential (W)	15	5440
State (CDFA)	Residential (W)	5	1252

Delimitation

- Alameda -126 traps
- Santa Clara - 594 traps
 - ✓ Almaden Meadows (San Jose) delim ending March 29th. 175 traps
 - ✓ Ongoing detections within Los Arboles (San Jose) delim. 419 traps



Northern District Update | HLB Risk-Based Survey

2021 Cycle 2 Counties

Alameda	San Francisco
Butte	San Joaquin
Contra Costa	San Mateo
Glenn	Santa Clara
Humboldt	Santa Cruz
Marin	Solano
Mendocino	Sonoma
Napa	Stanislaus
Placer	Tehama
Sacramento	Yolo

Summary

Square Miles	1,597
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Northern District Update | Staffing

Activity	Number of Staff
ACP Detection/Delimitation	6
Risk Survey	5
Biocontrol	1
Regulatory	3



Fidan Aghayarova
Environmental Scientist



Twin Peaks Orchards in Newcastle, CA

Source: <https://www.placergrown.org/twin-peaks-orchards/>



Mandarin Hill Orchard in Penryn, CA

Source: <http://mandarinhillorchards.com/>

Data Department Update

Rick Dunn

CRB Director of Data and Information Management

3/2/2022

Data Management Department Activity,

March 2, 2022

Richard Dunn - Data, Information & Management Director

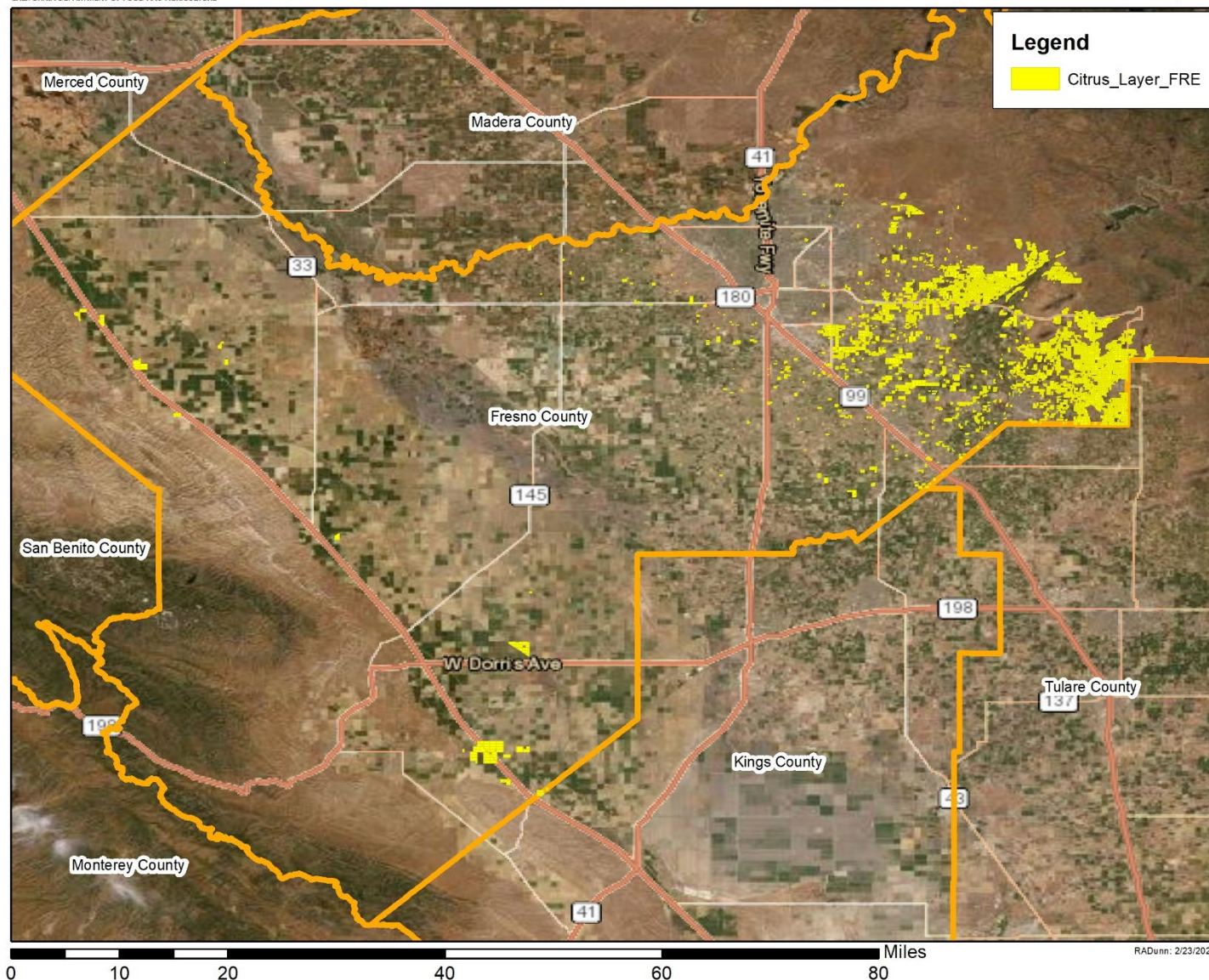
UCKAC GIS Facility

- 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

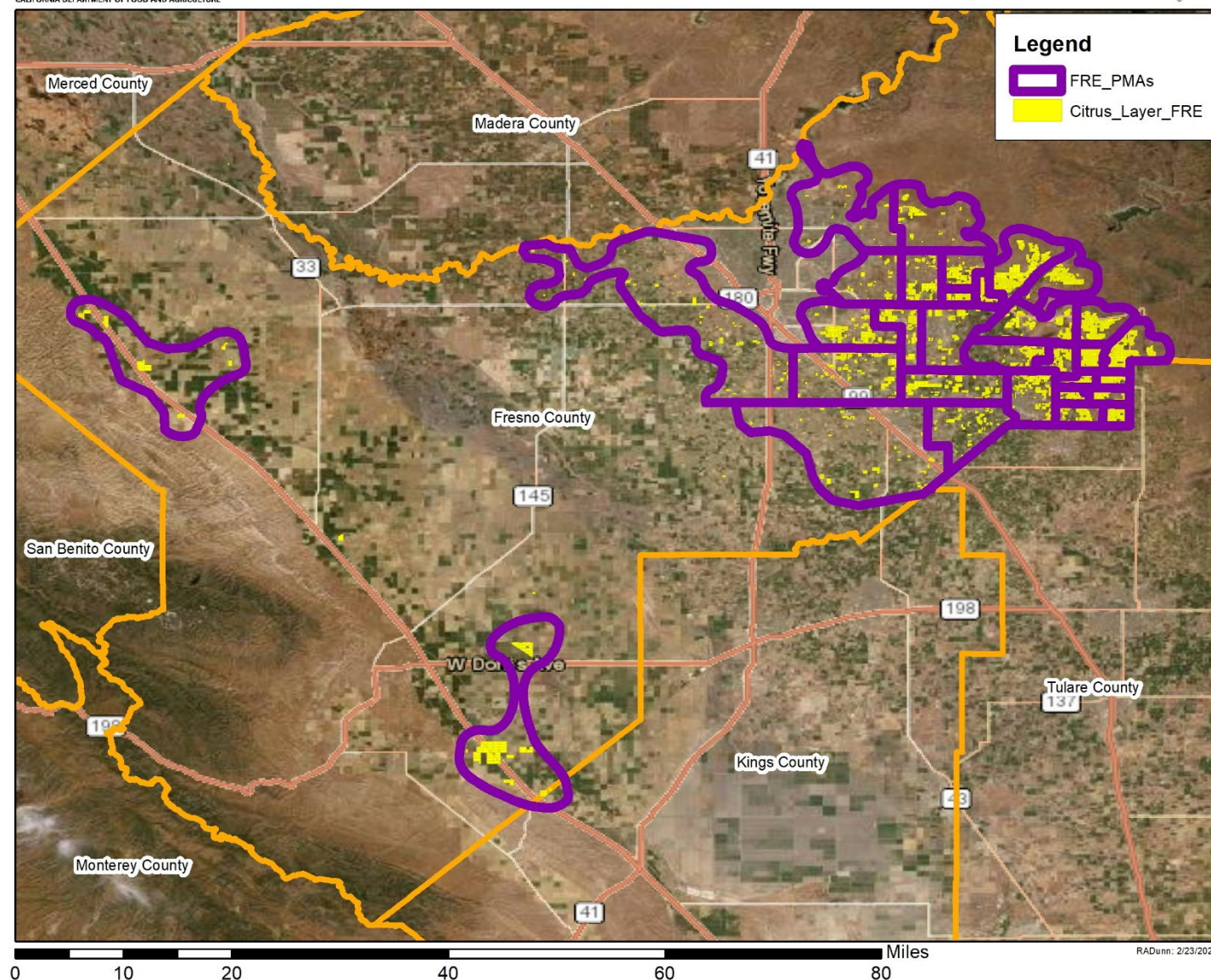
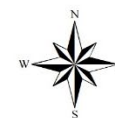
- Director is supporting Psyllid Management Area group activities and regional ACP / HLB Task Force groups in various counties with mapping support services. Revising the Statewide Commercial Citrus Layer as information is received. Fresno county has been completed. Permit Data requested for additional counties. Configuration of Enterprise GIS is pending upgrade of CRB network infrastructure.
- GIS Analyst Nancy Ying is conducting routine data scrubbing, quality control, and map production tasks.
- Search for new DATOC Program Manager continues. Former DATOC Analyst Dr. Sandra Olkowski is helping out in the interim.
- 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.

Fresno County Citrus Layer



- 4,426 blocks mapped
- 53,398 acres total (based on GIS)
- Ave 12.06 acres/block
- 490 Pesticide Use Permits

Fresno County Psyllid Management Areas

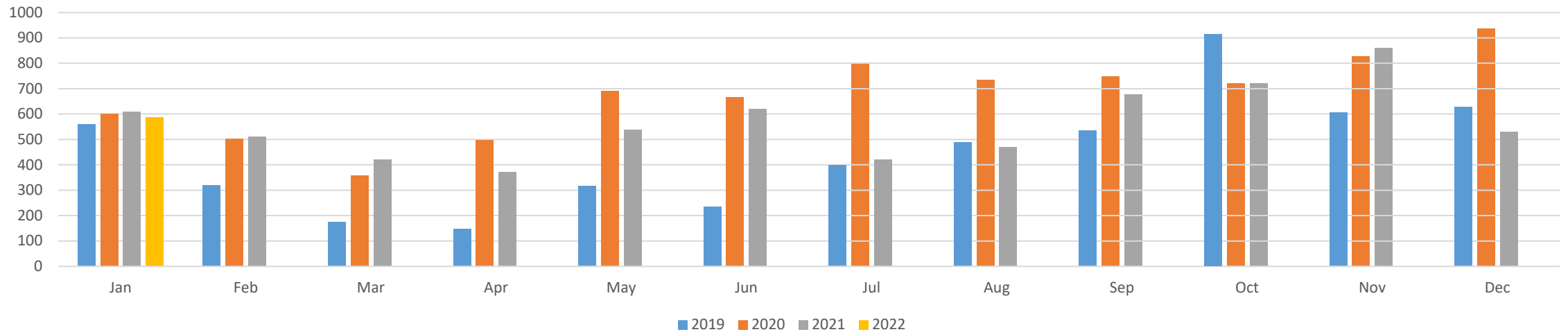


- 32 Psyllid Management Areas (PMAs)

CPDPD Commercial Grove Sampling Program

January 2022 update

Suspect ACP Collection Events



Suspect ACP Collected for Testing

