Navel Orangeworm Program 2025 – Weekly Report

Week Ending – **April 25, 2025**

California Department of Food & Agriculture
Plant Health and Pest Prevention Services
Integrated Pest Control Branch
5100 Douglas Avenue
Shafter, CA 93263
Phone: (661) 395-2914
Fax: (661) 399-1601

I. Program Updates

Navel Orangeworm Area Wide Program – Multi-Phase Approach

Phase 1 – 2018-2022

Phase 1 was the Initial Phase of the Navel Orangeworm (NOW) Program (Program) with a focus on developing NOW sterile insect technique (SIT) moths, determining their viability during cold storage transfer, performing quality control (QC) on mating propensity and survivability of the sterile moths, developing a trap monitoring program, and collecting preliminary damage data from the orchards participating in the Program's project site.

Phase 2 – 2023-2025

Phase 2 is the Data Phase of the NOW Program. The focus of this phase is controlling variables within the orchards participating in the Program's project site to increase the integrity of the field data being collected. Strategic planning and industry communication with NOWAC remains with Matthew Aubuchon, the USDA National Policy Coordinator, in partnership with CDFA.

Navel Orangeworm Sterile Insect Technique

The Navel Orangeworm Program utilizes NOW SIT moths obtained from the United States Department of Agriculture (USDA) and California Department of Food and Agriculture's (CDFA) Phoenix, Arizona Rearing Facility. QC tests are performed on every shipment of NOW SIT moths used for aerial releases.

Releases of sterile NOW moths began on March 26 with one magazine of approximately 750,000 sterile moths being released daily over select sites in West Fresno County. CDFA is currently conducting ground releases at select sites until aerial releases are available later in the year. Initially, releases will be conducted exclusively over almond sites and will change to being conducted exclusively over pistachio sites later in the year to prioritize periods of crop specific vulnerability to NOW damage.

Listed below are any circumstances which prevented regular releases in 2025:

- Week of April 4: No releases conducted on March 29 and March 30 due to staffing issues

Navel Orangeworm Trapping

The Phase 2 Area Wide Project Site for 2025 currently includes eight orchards: three pistachio and five almond, located in Fresno County. Seven of the eight orchards have a total area of 640 acres each with one almond orchard having 600 acres. These orchards are designated as Zones 2 through 9. Trapping is being conducted weekly year-round in all zones.

Listed below are any circumstances which prevented regular trap servicing in 2025:

- Week of January 3: No traps were serviced in Zones 2, 6, and 9 due to excessive rain and muddy conditions preventing access to trap sites

- Week of January 31: No traps were serviced in Zone 9 due to excessive rain and muddy conditions preventing

access to trap sites; Zone 3, trap numbers 26 – 36 not serviced due to pesticide applications on site

- Week of February 7: No traps were serviced in Zones 3 and 7 due to pesticide applications on site; Zone 4, trap numbers 8 – 36 not serviced due to pesticide applications on site; No traps were serviced in Zone 6 due to rain and muddy conditions preventing access to trap sites

- Week of February 14: No traps were serviced in Zones 3 and 7 due to pesticide applications on site

- Week of February 21: No traps were serviced in Zones 3 and 7 due to pesticide applications on site; No traps were serviced in Zone 6 due to staffing issues

- Week of March 7: No traps were serviced in Zones 2, 3, 4, and 7 due to pesticide applications on site; No traps were serviced in Zone 5 due to excessive rain and muddy conditions preventing access to trap sites

- Week of March 21: No traps were serviced in Zones 4 and 6 due to excessive rain and muddy conditions preventing access to trap sites

- Week of March 28: No traps were serviced in Zones 2 and 9 due to pesticide applications on site; No traps were serviced in Zone 6 due to staffing issues

- Week of April 4: No traps were serviced in Zone 8 due to pesticide applications on site; No traps were serviced in Zone 4 due to staffing issues

- Week of April 11: No traps were serviced in Zones 3 and 8 due to pesticide applications on site

- Week of April 18: No traps were serviced in Zone 7 due to pesticide applications on site

- Week of April 25: No traps were serviced in Zone 6 due to staffing issues

II. Project Design

The Area Wide Project Site was restructured in 2023 in preparation for Phase 2 of the Program. Phase 2 aims to establish more standardized and consistent approaches to mating disruption, sanitation, pesticide usage, and other cultural practices for more comparable data between each orchard set (release site/control site).

The 2025 Area Wide Project Site currently includes eight orchards located in Fresno County, identified as Zones 2 through 9. Additional acreage is currently being investigated and will be added to the Project Site as they are established. Listed below is information related to each orchard within the Program's Phase 2 project site for 2025:

Zone #	Crop Type	Acres	Release/Non-release Site	Date Added to Area Wide Project
Zone 2	Pistachio	640	TBD	February 2023
Zone 3	Almond	640	Release	February 2023
Zone 4	Almond	640	TBD	February 2023
Zone 5	Pistachio	640	TBD	March 2023
Zone 6	Pistachio	640	TBD	March 2023
Zone 7	Almond	640	TBD	April 2023
Zone 8	Almond	640	TBD	April 2023
Zone 9	Almond	600	Release	May 2024

Each zone has a trap site ratio of approximately one trap site per 18 acres for a total of 36 trap sites for each 640-acre zone and 34 traps for the 600-acre zone. Each trap site has one trap baited with NOW pheromone/PPO lures. All traps are serviced on a weekly basis. Servicing includes collecting trap bottoms and replacing with new trap

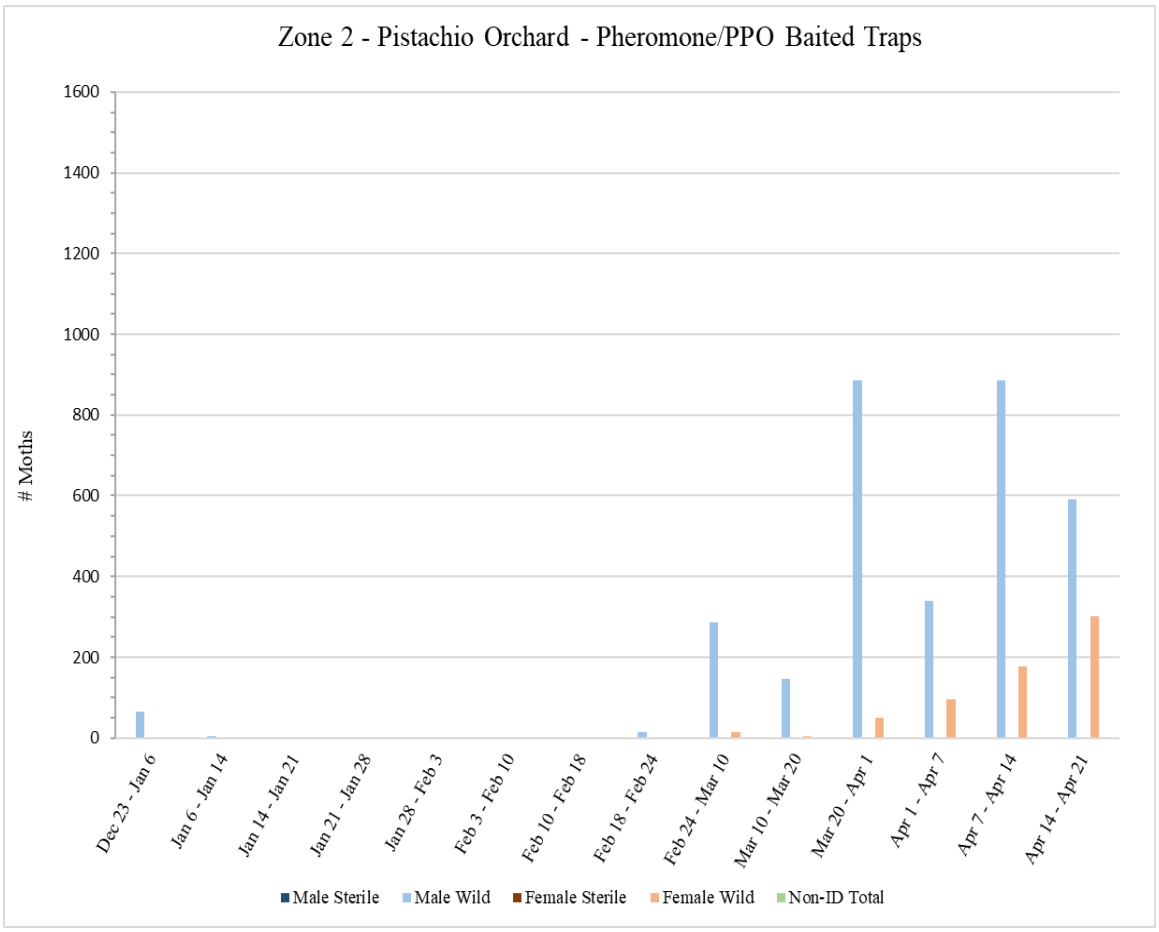
bottoms. Bait/lure changes occur once a month, and trap tops are replaced as needed. Counts are performed on each trap collected to determine number of wild versus sterile captures and male versus female captures.

III. Trap Results for Week Ending on April 25, 2025

Zone 2 – Pistachio Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 2 on Monday, April 21.

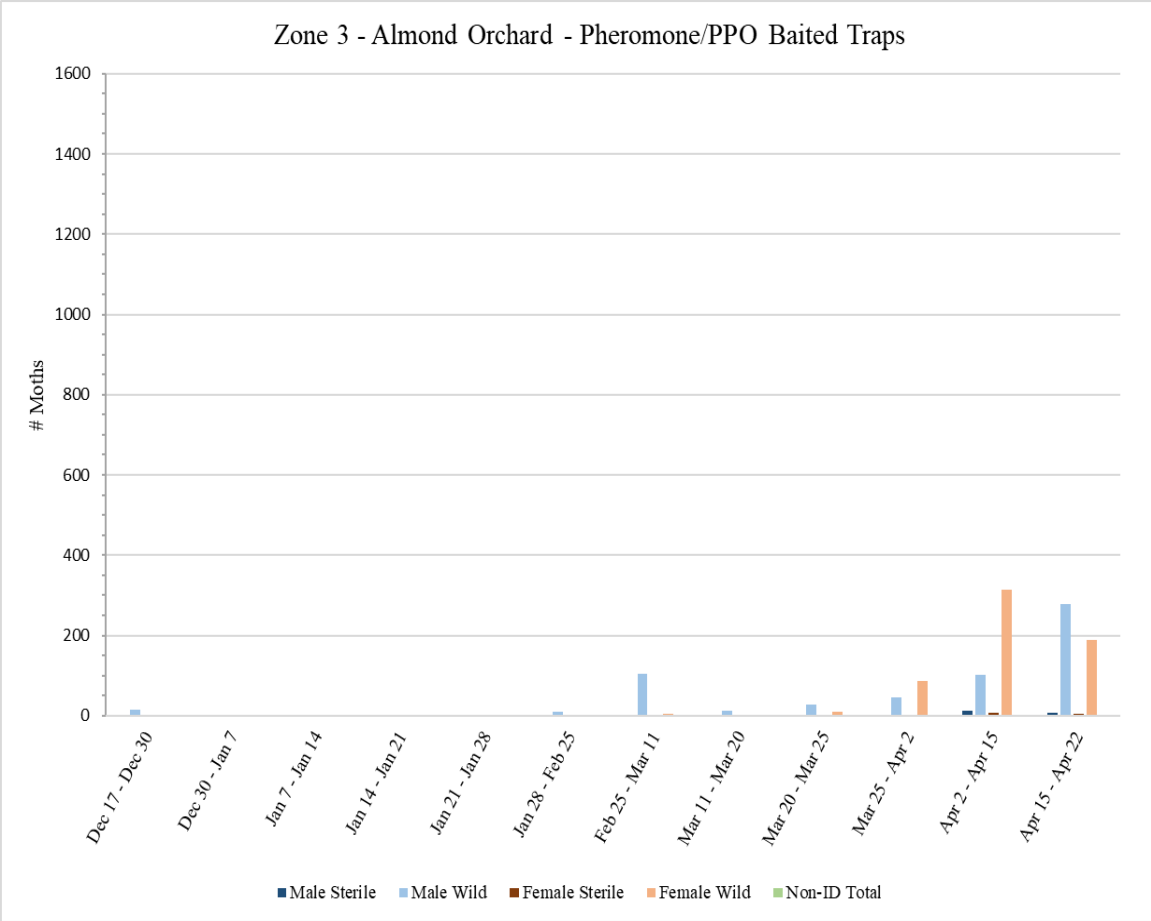
Zone 2 - Pistachio								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
[1]Dec 23 – Jan 6	0	0	65	65	0	0	0	0
Jan 6 – Jan 14	0	0	5	5	0	0	0	0
Jan 14 – Jan 21	0	0	0	0	0	0	0	0
Jan 21 – Jan 28	0	0	0	0	0	0	0	0
Jan 28 – Feb 3	0	0	0	0	0	0	0	0
Feb 3 – Feb 10	0	0	0	0	0	0	0	0
Feb 10 – Feb 18	0	0	2	2	0	0	0	0
Feb 18 – Feb 24	0	0	14	14	0	1	1	0
[2]Feb 24 – Mar 10	0	0	287	287	0	15	15	0
Mar 10 – Mar 20	0	0	146	146	0	4	4	0
[3]Mar 20 – Apr 1	0	0	887	887	0	51	51	0
Apr 1 – Apr 7	0	0	340	340	0	95	95	0
Apr 7 – Apr 14	0	0	885	885	0	178	178	0
Apr 14 – Apr 21	**0**	**0**	**590**	**590**	**0**	**301**	**301**	**1**
[1]No traps were serviced in Zone 2 during the week of January 3 due to excessive rain and muddy conditions preventing access								
[2]No traps were serviced in Zone 2 during the week of March 7 due to pesticide applications on site								
[3]No traps were serviced in Zone 2 during the week of March 28 due to pesticide applications on site								


Zone 2 - Pistachio Orchard - Pheromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 23 - Jan 6
Jan 6 - Jan 14
Jan 14 - Jan 21
Jan 21 - Jan 28
Jan 28 - Feb 3
Feb 3 - Feb 10
Feb 10 - Feb 18
Feb 18 - Feb 24
Feb 24 - Mar 10
Mar 10 - Mar 20
Mar 20 - Apr 1
Apr 1 - Apr 7
Apr 7 - Apr 14
Apr 14 - Apr 21
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

Zone 3 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 3 on Tuesday, April 22.

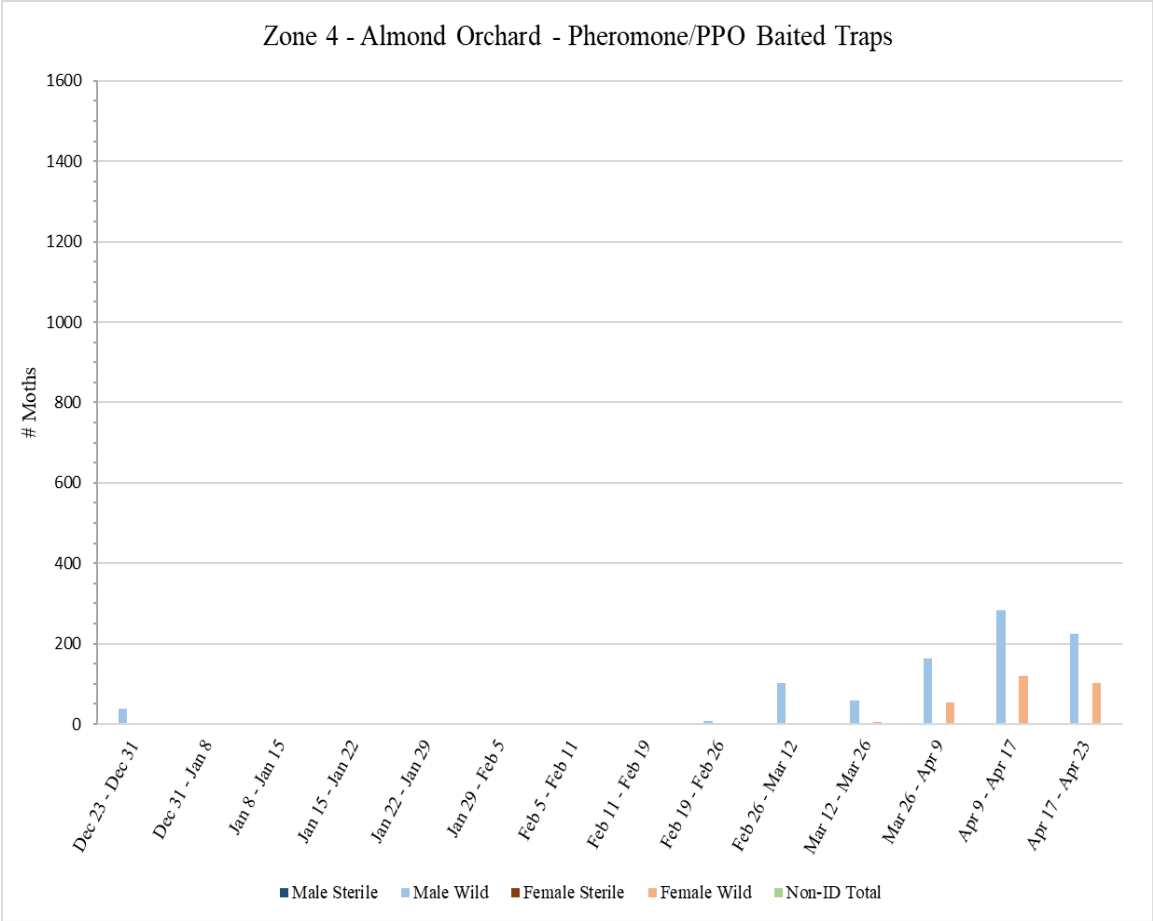
Zone 3 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 17 – Dec 30	0	0	15	15	0	0	0	0
Dec 30 – Jan 7	0	0	0	0	0	0	0	0
Jan 7 – Jan 14	0	0	1	1	0	0	0	0
Jan 14 – Jan 21	0	0	0	0	0	0	0	0
[1]Jan 21 – Jan 28	0	0	0	0	0	0	0	0
[2]Jan 28 – Feb 25	0	0	9	9	0	0	0	0
[3]Feb 25 – Mar 11	0	0	105	105	0	5	5	0
Mar 11 – Mar 20	0	0	11	11	0	0	0	0
Mar 20 – Mar 25	0	0	27	27	0	10	10	0
Mar 25 – Apr 2	3	2	46	48	1	86	87	0
[4]Apr 2 – Apr 15	7	12	102	114	6	315	321	0
Apr 15 – Apr 22	**4**	**8**	**279**	**287**	**4**	**188**	**192**	**0**
[1]Trap numbers 26 - 36 not serviced in Zone 3 during the week of January 31 due to pesticide applications on site								
[2]No traps were serviced in Zone 3 during the weeks of February 7, February 14, and February 21 due to pesticide applications on site								
[3]No traps were serviced in Zone 3 during the week of March 7 due to pesticide applications on site								
[4]No traps were serviced in Zone 3 during the week of Apr 11 due to pesticide applications on site								


Zone 3 - Almond Orchard - Pheromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 17 - Dec 30
Dec 30 - Jan 7
Jan 7 - Jan 14
Jan 14 - Jan 21
Jan 21 - Jan 28
Jan 28 - Feb 25
Feb 25 - Mar 11
Mar 11 - Mar 20
Mar 20 - Mar 25
Mar 25 - Apr 2
Apr 2 - Apr 15
Apr 15 - Apr 22
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

Zone 4 – Almond Orchard

A total of **34** pheromone/PPO lure-baited traps were collected from Zone 4 on Wednesday, April 23. Trap numbers 11 and 18 were missing.

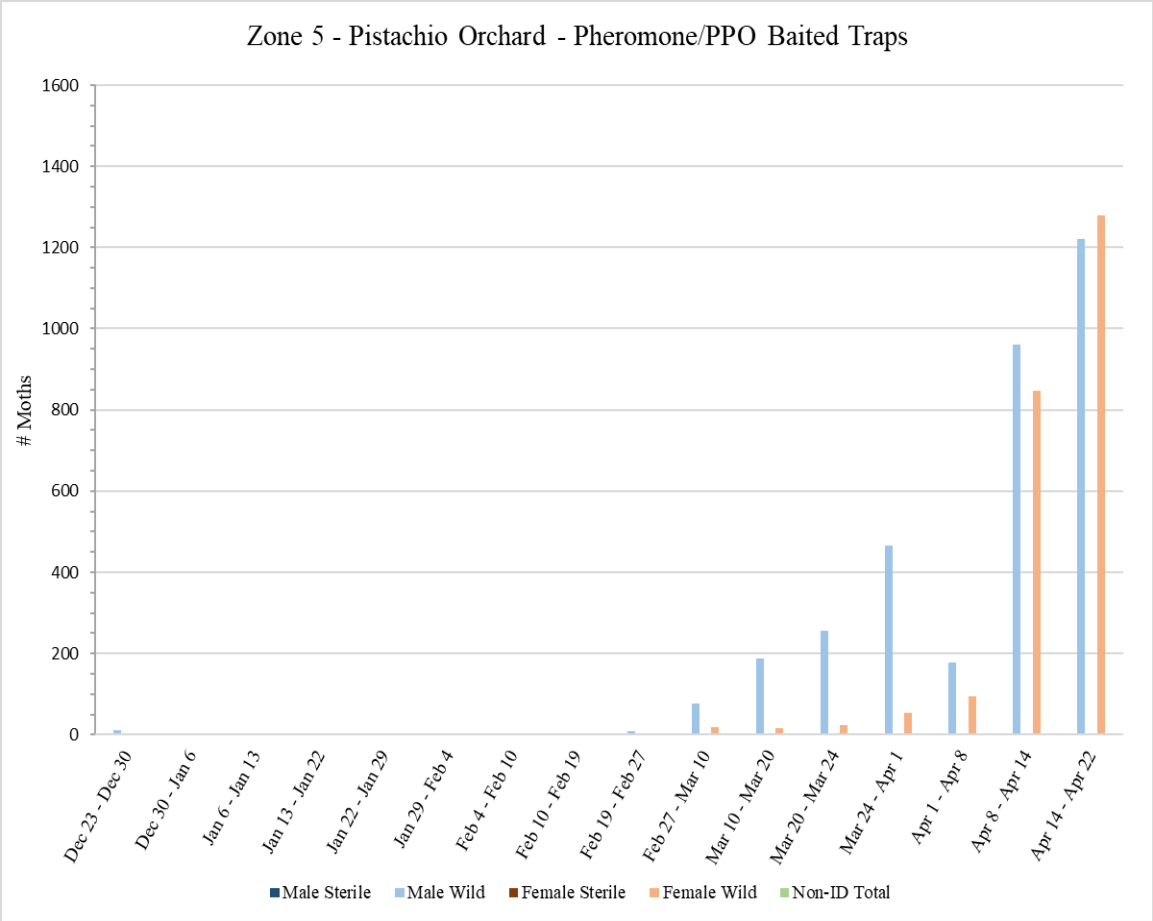
Zone 4 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 23 – Dec 31	0	0	38	38	0	1	1	0
Dec 31 – Jan 8	0	0	4	4	0	0	0	0
Jan 8 – Jan 15	0	0	1	1	0	0	0	0
Jan 15 – Jan 22	0	0	0	0	0	0	0	0
Jan 22 – Jan 29	0	0	0	0	0	0	0	0
[1]Jan 29 – Feb 5	0	0	2	2	0	0	0	0
[2]Feb 5 – Feb 11	0	0	0	0	0	0	0	0
Feb 11 – Feb 19	0	0	2	2	0	0	0	0
Feb 19 – Feb 26	0	0	9	9	0	1	1	0
[3]Feb 26 – Mar 12	0	0	102	102	0	0	0	0
[4]Mar 12 – Mar 26	0	0	58	58	0	5	5	0
[5]Mar 26 – Apr 9	0	0	164	164	0	54	54	0
Apr 9 – Apr 17	0	0	284	284	0	121	121	0
Apr 17 – Apr 23	**0**	**0**	**225**	**225**	**0**	**102**	**102**	**0**
[1]Trap numbers 8 – 36 not serviced in Zone 4 during the week of February 7 due to pesticide applications on site								
[2]Trap numbers 8 – 36 in field since January 29								
[3]No traps were serviced in Zone 4 during the week of March 7 due to pesticide applications on site								
[4]No traps were serviced in Zone 4 during the week of March 21 due to excessive rain and muddy conditions preventing access								
[5]No traps were serviced in Zone 4 during the week of April 4 due to staffing issues								


Zone 4 - Almond Orchard - Pheromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 23 - Dec 31
Dec 31 - Jan 8
Jan 8 - Jan 15
Jan 15 - Jan 22
Jan 22 - Jan 29
Jan 29 - Feb 5
Feb 5 - Feb 11
Feb 11 - Feb 19
Feb 19 - Feb 26
Feb 26 - Mar 12
Mar 12 - Mar 26
Mar 26 - Apr 9
Apr 9 - Apr 17
Apr 17 - Apr 23
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

Zone 5 – Pistachio Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 5 on Tuesday, April 22.

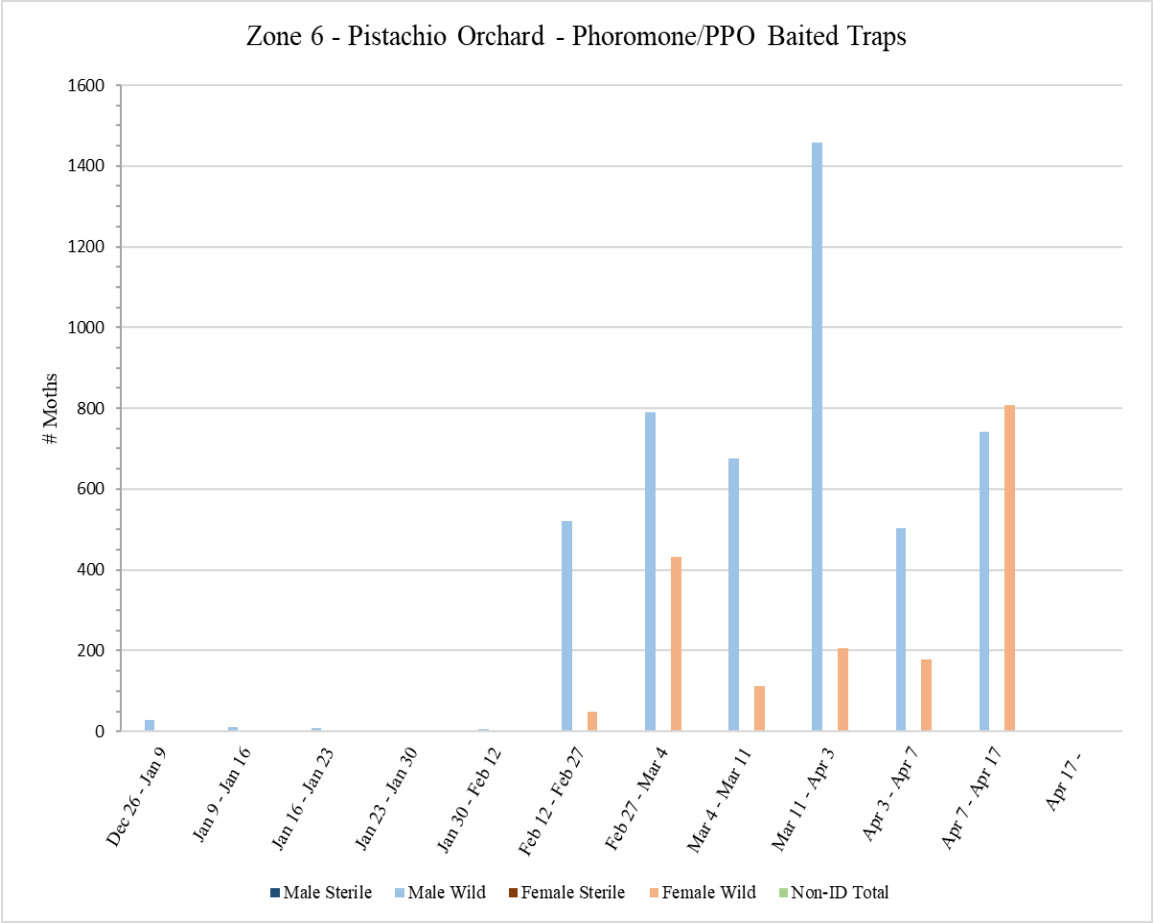
Zone 5 - Pistachio								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 23 – Dec 30	0	0	12	12	0	0	0	0
Dec 30 – Jan 6	0	0	1	1	0	0	0	0
Jan 6 – Jan 13	0	0	0	0	0	0	0	0
Jan 13 – Jan 22	0	0	0	0	0	0	0	0
Jan 22 – Jan 29	0	0	0	0	0	0	0	0
Jan 29 – Feb 4	0	0	0	0	0	0	0	0
Feb 4 – Feb 10	0	0	0	0	0	0	0	0
Feb 10 – Feb 19	0	0	0	0	0	0	0	0
Feb 19 – Feb 27	0	0	8	8	0	4	4	0
[1]Feb 27 – Mar 10	0	0	77	77	0	19	19	0
Mar 10 – Mar 20	0	0	188	188	0	15	15	0
Mar 20 – Mar 24	0	0	257	257	0	23	23	0
Mar 24 – Apr 1	0	0	465	465	0	54	54	0
Apr 1 – Apr 8	0	0	178	178	0	95	95	0
Apr 8 – Apr 14	0	0	961	961	0	846	846	0
Apr 14 – Apr 22	**0**	**0**	**1221**	**1221**	**0**	**1279**	**1279**	**0**
[1]No traps were serviced in Zone 5 during the week of March 7 due to excessive rain and muddy conditions preventing access								


Zone 5 - Pistachio Orchard - Pheromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 23 - Dec 30
Dec 30 - Jan 6
Jan 6 - Jan 13
Jan 13 - Jan 22
Jan 22 - Jan 29
Jan 29 - Feb 4
Feb 4 - Feb 10
Feb 10 - Feb 19
Feb 19 - Feb 27
Feb 27 - Mar 10
Mar 10 - Mar 20
Mar 20 - Mar 24
Mar 24 - Apr 1
Apr 1 - Apr 8
Apr 8 - Apr 14
Apr 14 - Apr 22
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

Zone 6 – Pistachio Orchard

No traps were collected from Zone 6 during the week of April 25 due to staffing issues.

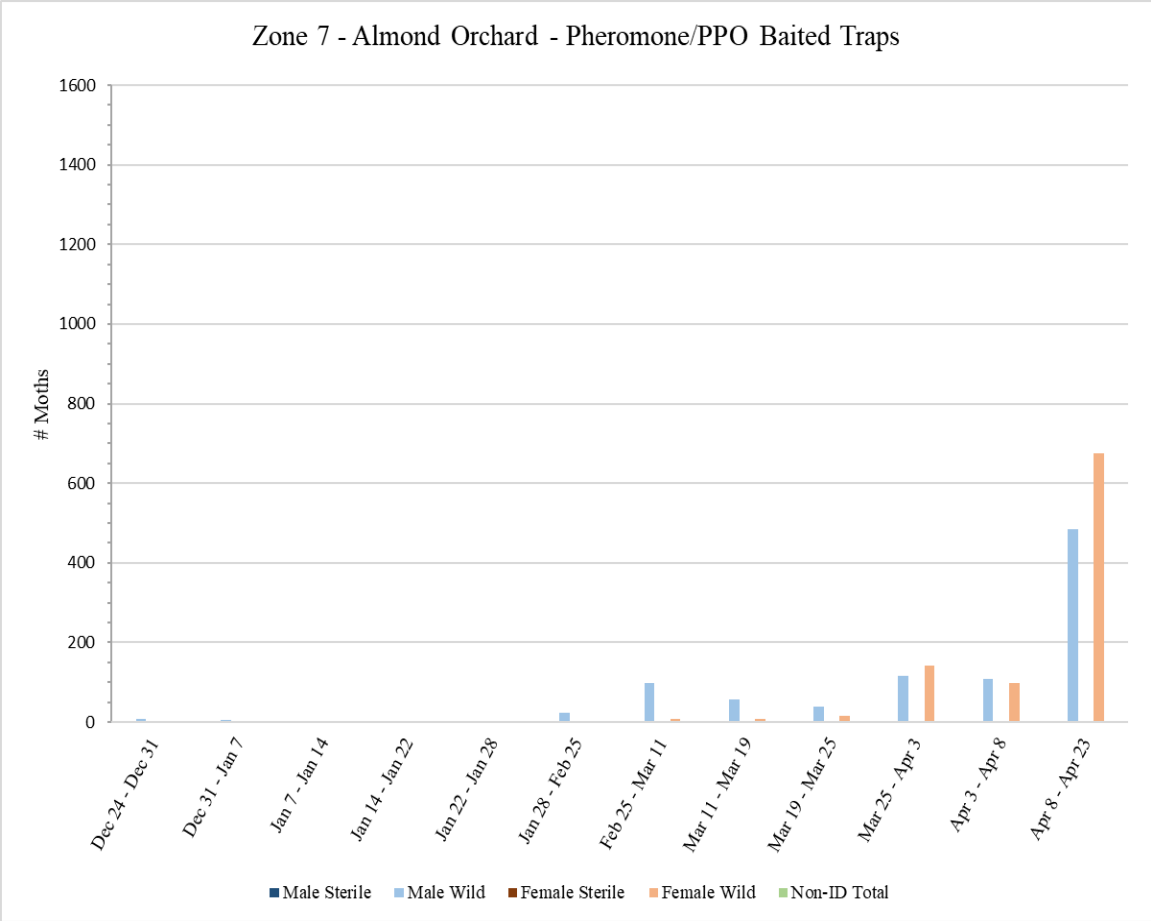
Zone 6 - Pistachio								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
[1]Dec 26 – Jan 9	0	0	28	28	0	0	0	0
Jan 9 – Jan 16	0	0	10	10	0	0	0	0
Jan 16 – Jan 23	0	0	9	9	0	0	0	0
Jan 23 – Jan 30	0	0	0	0	0	0	0	0
[2]Jan 30 – Feb 12	0	0	5	5	0	0	0	0
[3]Feb 12 – Feb 27	0	0	522	522	0	48	48	0
Feb 27 – Mar 4	0	0	790	790	0	431	431	0
Mar 4 – Mar 11	0	0	677	677	0	111	111	1
[4]Mar 11 – Apr 3	0	0	1459	1459	0	205	205	4
Apr 3 – Apr 7	0	0	504	504	0	179	179	0
Apr 7 – Apr 17	0	0	741	741	0	807	807	0
[5]Apr 17 -								
[1]No traps were serviced in Zone 6 during the week of January 3 due to excessive rain and muddy conditions preventing access								
[2]No traps were serviced in Zone 6 during the week of February 7 due to excessive rain and muddy conditions preventing access								
[3]No traps were serviced in Zone 6 during the week of February 21 due to staffing issues								
[4]No traps were serviced in Zone 6 during the week of March 21 due to excessive rain and muddy conditions preventing access; No traps were serviced in Zone 6 during the week of March 28 due to staffing issues								
[5]No traps were serviced in Zone 6 during the week of April 25 due to staffing issues								


Zone 6 - Pistachio Orchard - Phoromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 26 - Jan 9
Jan 9 - Jan 16
Jan 16 - Jan 23
Jan 23 - Jan 30
Jan 30 - Feb 12
Feb 12 - Feb 27
Feb 27 - Mar 4
Mar 4 - Mar 11
Mar 11 - Apr 3
Apr 3 - Apr 7
Apr 7 - Apr 17
Apr 17 -
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

Zone 7 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 7 on Wednesday, April 23.

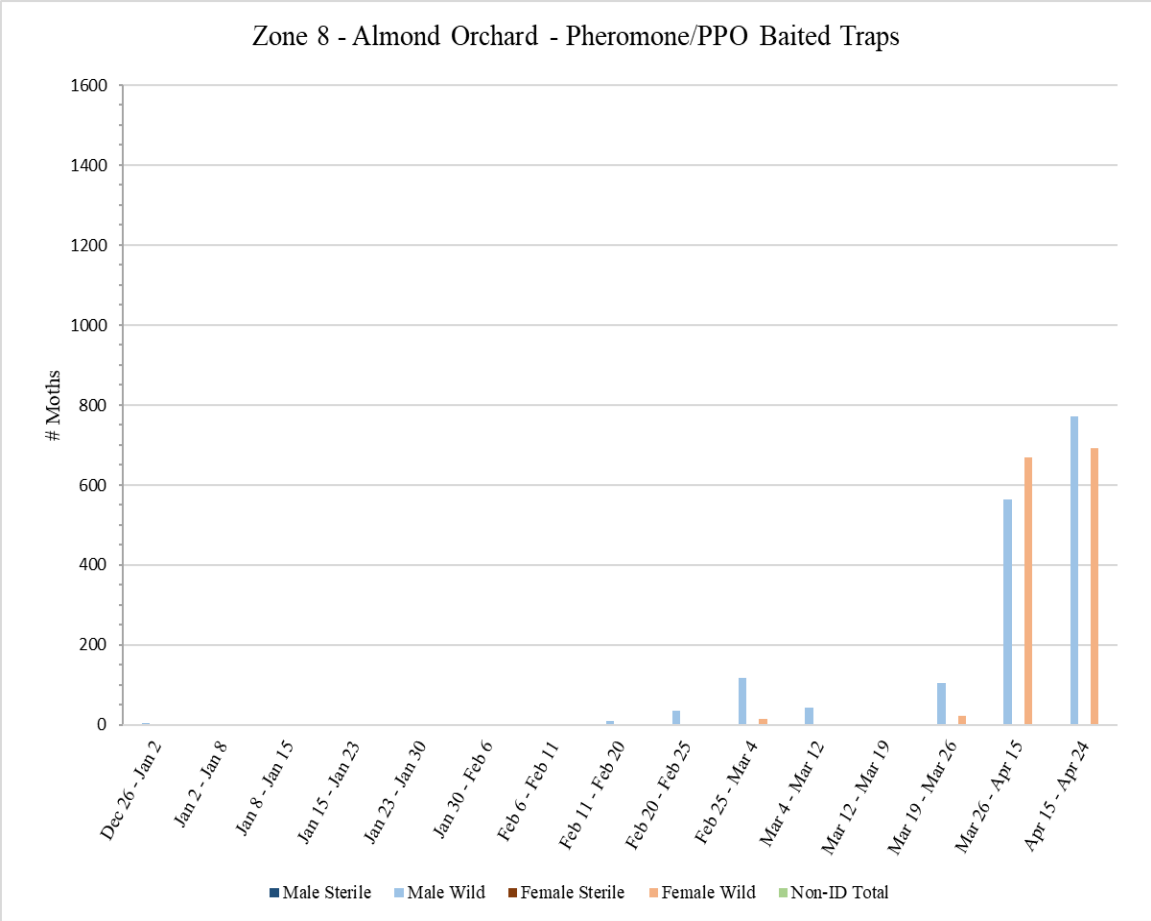
Zone 7 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 24 – Dec 31	0	0	7	7	0	0	0	0
Dec 31 – Jan 7	0	0	6	6	0	0	0	0
Jan 7 – Jan 14	0	0	0	0	0	0	0	0
Jan 14 – Jan 22	0	0	1	1	0	0	0	0
Jan 22 – Jan 28	0	0	1	1	0	0	0	0
[1]Jan 28 – Feb 25	0	0	24	24	0	0	0	0
[2]Feb 25 – Mar 11	0	0	99	99	0	7	7	0
Mar 11 – Mar 19	0	0	57	57	0	9	9	0
Mar 19 – Mar 25	0	0	39	39	0	16	16	0
Mar 25 – Apr 3	0	0	116	116	0	142	142	0
Apr 3 – Apr 8	0	0	108	108	0	97	97	0
[3]Apr 8 – Apr 23	**0**	**0**	**484**	**484**	**0**	**674**	**674**	**0**
[1]No traps were serviced in Zone 7 during the weeks of February 7, February 14, and February 21 due to pesticide applications on site								
[2]No traps were serviced in Zone 7 during the week of March 7 due to pesticide applications on site								
[3]No traps were serviced in Zone 7 during the week of April 18 due to pesticide applications on site								


Zone 7 - Almond Orchard - Pheromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 24 - Dec 31
Dec 31 - Jan 7
Jan 7 - Jan 14
Jan 14 - Jan 22
Jan 22 - Jan 28
Jan 28 - Feb 25
Feb 25 - Mar 11
Mar 11 - Mar 19
Mar 19 - Mar 25
Mar 25 - Apr 3
Apr 3 - Apr 8
Apr 8 - Apr 23
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

Zone 8 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 8 on Thursday, April 24.

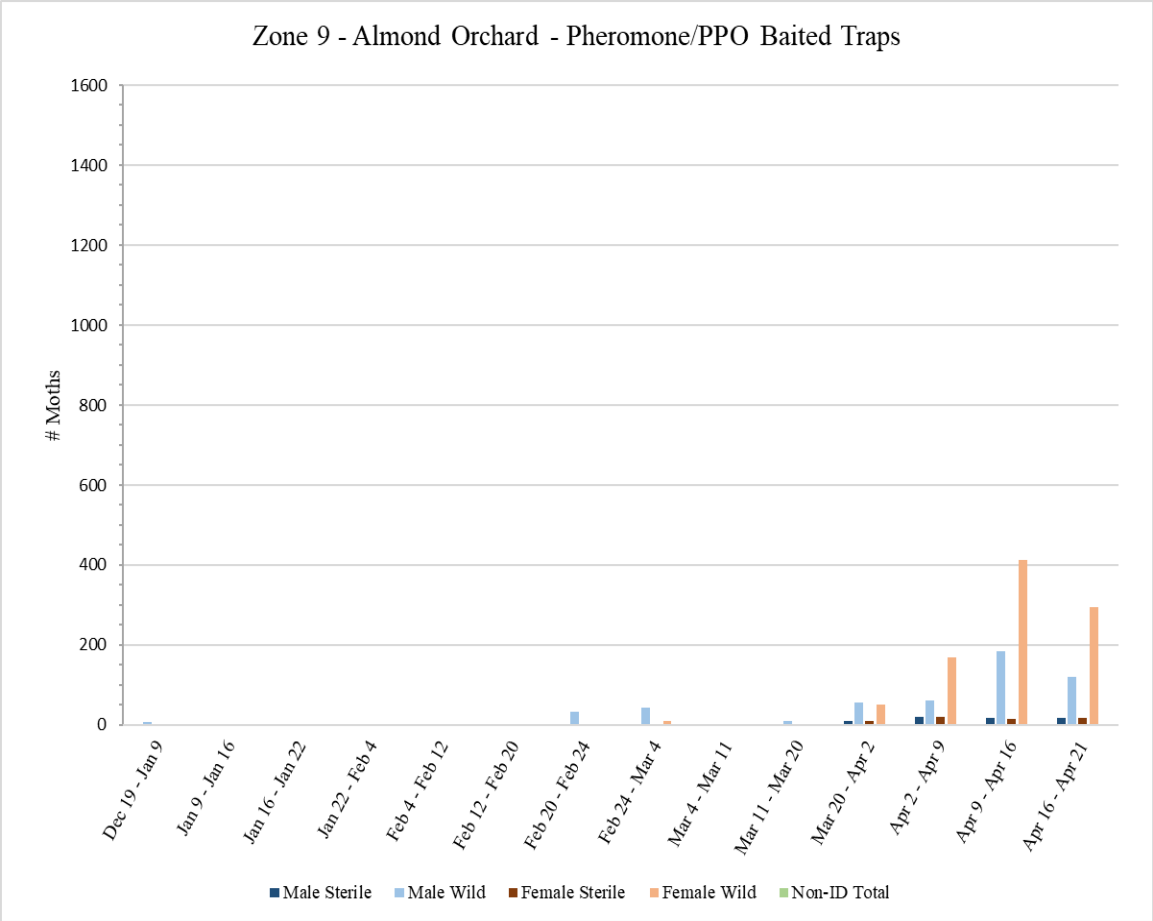
Zone 8 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 26 – Jan 2	0	0	4	4	0	0	0	0
Jan 2 – Jan 8	0	0	1	1	0	0	0	0
Jan 8 – Jan 15	0	0	0	0	0	0	0	0
Jan 15 – Jan 23	0	0	0	0	0	0	0	0
Jan 23 – Jan 30	0	0	0	0	0	0	0	0
Jan 30 – Feb 6	0	0	1	1	0	0	0	0
Feb 6 – Feb 11	0	0	0	0	0	0	0	0
Feb 11 – Feb 20	0	0	10	10	0	0	0	0
Feb 20 – Feb 25	0	0	36	36	0	1	1	0
Feb 25 – Mar 4	0	0	118	118	0	16	16	0
Mar 4 – Mar 12	0	0	44	44	0	1	1	0
Mar 12 – Mar 19	0	0	3	3	0	1	1	0
Mar 19 – Mar 26	0	0	104	104	0	23	23	0
[1]Mar 26 – Apr 15	0	0	565	565	0	669	669	0
Apr 15 – Apr 24	**0**	**0**	**772**	**772**	**0**	**693**	**693**	**1**
[1]No traps were serviced in Zone 8 during the weeks of April 4 and April 11 due to pesticide applications on site								


Zone 8 - Almond Orchard - Pheromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 26 - Jan 2
Jan 2 - Jan 8
Jan 8 - Jan 15
Jan 15 - Jan 23
Jan 23 - Jan 30
Jan 30 - Feb 6
Feb 6 - Feb 11
Feb 11 - Feb 20
Feb 20 - Feb 25
Feb 25 - Mar 4
Mar 4 - Mar 12
Mar 12 - Mar 19
Mar 19 - Mar 26
Mar 26 - Apr 15
Apr 15 - Apr 24
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

Zone 9 – Almond Orchard

A total of **34** pheromone/PPO lure-baited traps were collected from Zone 9 on Monday, April 21.

Zone 9 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
[1]Dec 19 – Jan 9	0	0	7	7	0	0	0	0
Jan 9 – Jan 16	0	0	0	0	0	0	0	0
Jan 16 – Jan 22	0	0	1	1	0	0	0	0
[2]Jan 22 – Feb 4	0	0	1	1	0	0	0	0
Feb 4 – Feb 12	0	0	1	1	0	0	0	0
Feb 12 – Feb 20	0	0	3	3	0	0	0	0
Feb 20 – Feb 24	0	0	33	33	0	0	0	0
Feb 24 – Mar 4	0	0	44	44	0	9	9	0
Mar 4 – Mar 11	0	0	2	2	0	2	2	0
Mar 11 – Mar 20	0	0	11	11	0	1	1	0
[3]Mar 20 – Apr 2	3	11	56	67	11	50	61	0
Apr 2 – Apr 9	4	20	62	82	21	169	190	0
Apr 9 – Apr 16	4	19	184	203	16	413	429	0
Apr 16 – Apr 21	**3**	**17**	**121**	**138**	**18**	**295**	**313**	**0**
[1]No traps were serviced in Zone 9 during the week of January 3 due to excessive rain and muddy conditions preventing access								
[2]No traps were serviced in Zone 9 during the week of January 31 due to excessive rain and muddy conditions preventing access								
[3]No traps were serviced in Zone 9 during the week of March 28 due to pesticide applications on site								


Zone 9 - Almond Orchard - Pheromone/PPO Baited Traps
Moths
1600
1400
1200
1000
800
600
400
200
0
Dec 19 - Jan 9
Jan 9 - Jan 16
Jan 16 - Jan 22
Jan 22 - Feb 4
Feb 4 - Feb 12
Feb 12 - Feb 20
Feb 20 - Feb 24
Feb 24 - Mar 4
Mar 4 - Mar 11
Mar 11 - Mar 20
Mar 20 - Apr 2
Apr 2 - Apr 9
Apr 9 - Apr 16
Apr 16 - Apr 21
Male Sterile
Male Wild
Female Sterile
Female Wild
Non-ID Total

IV. NOW Degree Days

NOW Degree days begin to accumulate when ambient temperatures remain between the lower threshold of 55° F and the upper threshold of 93.9° F. Using data from weather stations nearest to the trap sites, courtesy of the UC IPM website - https://ipm.ucanr.edu/PHENOLOGY/ma-navel_orangeworm.html, the chart below shows daily and total accumulated degree days since January 1, 2025. The model uses a double triangle and vertical cutoff method of calculating degree days.

Weather Station Location: Five Points, Fresno

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
1/1/2025	33.00	60.20	0.50	0.50
1/2/2025	33.60	62.30	1.15	1.65
1/3/2025	42.80	60.10	0.67	2.32
1/4/2025	37.70	59.50	0.43	2.75
1/5/2025	34.40	59.40	0.37	3.12
1/6/2025	32.40	60.80	0.76	3.88
1/7/2025	42.50	63.40	1.46	5.34
1/8/2025	34.60	62.90	1.03	6.37
1/9/2025	30.10	62.40	0.86	7.23
1/10/2025	30.80	69.10	2.83	10.06
1/11/2025	36.70	62.10	0.91	10.97
1/12/2025	31.50	57.90	0.15	11.12
1/13/2025	26.00	60.20	0.41	11.53
1/14/2025	27.70	62.70	0.85	12.38
1/15/2025	28.00	66.80	1.82	14.20
1/16/2025	29.10	66.20	1.77	15.97
1/17/2025	32.30	65.40	1.59	17.56
1/18/2025	30.50	60.50	0.49	18.05
1/19/2025	28.30	61.90	0.73	18.78
1/20/2025	30.00	59.40	0.32	19.10
1/21/2025	28.20	64.30	1.18	20.28
1/22/2025	26.80	62.90	0.86	21.14
1/23/2025	26.80	66.80	1.78	22.92
1/24/2025	28.60	68.00	2.59	25.51
1/25/2025	40.10	59.70	0.50	26.01
1/26/2025	34.60	51.30	0.00	26.01
1/27/2025	31.80	57.70	0.13	26.14
1/28/2025	27.30	60.20	0.43	26.57
1/29/2025	29.70	61.40	0.68	27.25
1/30/2025	32.40	60.10	0.49	27.74
1/31/2025	34.60	61.40	1.01	28.75
2/1/2025	45.20	66.90	2.92	31.67
2/2/2025	39.50	71.80	4.38	36.05
2/3/2025	39.60	69.00	3.97	40.02
2/4/2025	47.70	69.50	4.21	44.23
2/5/2025	40.30	61.10	0.90	45.13
2/6/2025	40.70	61.40	0.98	46.11
2/7/2025	40.30	60.90	0.78	46.89
2/8/2025	36.80	59.60	0.41	47.30
2/9/2025	29.90	58.40	0.20	47.50

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
2/10/2025	28.10	58.50	0.20	47.70
2/11/2025	27.50	60.90	0.76	48.46
2/12/2025	43.50	58.10	0.45	48.91
2/13/2025	49.80	66.30	3.30	52.21
2/14/2025	43.00	61.60	0.99	53.20
2/15/2025	34.80	59.80	0.47	53.67
2/16/2025	36.00	66.80	2.52	56.19
2/17/2025	41.80	63.30	1.49	57.68
2/18/2025	38.40	64.90	2.97	60.65
2/19/2025	52.90	77.90	9.10	69.75
2/20/2025	43.90	63.60	1.58	71.33
2/21/2025	34.70	67.80	2.64	73.97
2/22/2025	38.50	73.60	5.23	79.20
2/23/2025	42.30	77.10	7.66	86.86
2/24/2025	47.70	77.80	8.59	95.45
2/25/2025	47.40	69.20	3.89	99.34
2/26/2025	37.30	73.40	4.97	104.31
2/27/2025	41.10	78.70	8.12	112.43
2/28/2025	46.70	75.10	6.75	119.18
3/1/2025	43.50	78.90	7.55	126.73
3/2/2025	38.30	59.50	0.49	127.22
3/3/2025	39.40	64.10	1.60	128.82
3/4/2025	36.80	66.60	2.44	131.26
3/5/2025	40.90	53.70	0.00	131.26
3/6/2025	39.60	55.80	0.02	131.28
3/7/2025	37.60	61.40	0.83	132.11
3/8/2025	35.80	68.50	2.78	134.89
3/9/2025	35.70	74.50	5.30	140.19
3/10/2025	41.10	70.30	4.15	144.34
3/11/2025	43.00	69.90	4.46	148.80
3/12/2025	46.70	66.70	2.98	151.78
3/13/2025	39.70	56.20	0.04	151.82
3/14/2025	38.50	54.70	0.00	151.82
3/15/2025	35.40	63.60	1.37	153.19
3/16/2025	37.70	69.20	3.98	157.17
3/17/2025	48.00	61.10	1.18	158.35
3/18/2025	41.30	62.20	1.10	159.45
3/19/2025	35.30	66.80	2.72	162.17
3/20/2025	45.30	67.20	3.03	165.20
3/21/2025	39.20	69.70	3.87	169.07
3/22/2025	43.90	68.90	3.82	172.89
3/23/2025	43.30	74.40	6.39	179.28
3/24/2025	46.40	83.20	11.52	190.80
3/25/2025	50.70	89.20	16.00	206.80
3/26/2025	54.40	84.70	13.54	220.34
3/27/2025	49.50	78.50	9.19	229.53
3/28/2025	47.30	68.90	4.08	233.61
3/29/2025	42.70	67.80	3.93	237.54
3/30/2025	50.00	68.80	4.87	242.41
3/31/2025	48.40	71.60	5.04	247.45
4/1/2025	38.40	61.20	0.83	248.28

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
4/2/2025	37.50	62.70	1.12	249.40
4/3/2025	35.00	66.70	2.28	251.68
4/4/2025	38.30	72.50	4.65	256.33
4/5/2025	40.80	76.70	6.72	263.05
4/6/2025	42.50	80.20	9.25	272.30
4/7/2025	48.70	78.50	10.03	282.33
4/8/2025	52.90	76.60	8.85	291.18
4/9/2025	46.90	83.00	11.19	302.37
4/10/2025	49.00	86.20	13.58	315.95
4/11/2025	51.60	83.10	12.70	328.65
4/12/2025	52.40	80.30	10.32	338.97
4/13/2025	45.40	81.40	9.95	348.92
4/14/2025	47.30	87.40	15.27	364.19
4/15/2025	57.50	83.30	13.44	377.63
4/16/2025	48.40	73.70	7.83	385.46
4/17/2025	53.70	70.20	6.43	391.89
4/18/2025	50.50	73.00	6.61	398.50
4/19/2025	46.10	80.80	9.79	408.29
4/20/2025	47.50	82.50	11.20	419.49
4/21/2025	49.90	84.70	12.73	432.22
4/22/2025	50.20	85.00	12.47	444.69
4/23/2025	47.50	78.90	8.47	453.16
4/24/2025	42.50	72.80	5.97	459.13
4/25/2025	**49.20**	**66.80**	**3.91**	**463.04**

V. Quality Control

QC tests are performed on samples taken from each shipment of sterile NOW moths. These tests include: zero-hour mortality rates, zero-hour mating dissections, forty-eight-hour mating dissections, seven-day longevity monitoring, and crush tests. Throughout the span of a week, Monday through Sunday, the results of each test are averaged. Below are the QC results from samples of sterile NOW moths taken from magazines released over Zones 3 and 9 during the week of Monday, April 14, 2025 to Sunday, April 20, 2025:

- 0% of moths from samples found dead at zero hour
- 2% of moths from samples found to have mated at zero hour
- 65% of moths from samples found to have mated after forty-eight hours
- 46% of moths from samples remained alive after seven days in BioChamber
- 98% of moths from samples found to have distinct red dye markings

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