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### I. Program Updates

### Navel Orangeworm Area Wide Program – Multi-Phase Approach

#### <u>Phase 1 – 2018-2022</u>

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.

#### <u>Phase 2 - 2023-2024</u>

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. During this phase Kadie Britt assisted in the position of grower participant coordinator for the USDA-CDFA-NOWAC cooperative areawide program. Kadie has transitioned out of that role, in the interim, CDFA Environmental Program Managers, Nick Condos and David Kratville, will be assisting with participant communication in this role until a new person is designated. They will be responsible for coordinating with growers and establishing orchards for the Phase 2 Program project site. 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 20, 2024 and concluded on October 28, 2024. One magazine of approximately 750,000 sterile moths was released daily over select sites in West Fresno County. CDFA conducted ground releases daily between March 20 and April 7 at Zones 7 and 8 until aerial releases were available. Ground releases were limited to one magazine released at one zone per day along the north and west edges, alternating between the two zones each day.

Aerial releases began on April 8 with one magazine being released daily over Zones 7 and 8. During the period of March 20 to August 11, releases were conducted exclusively over almond sites. On August 12, releases changed to being conducted exclusively over pistachio sites until the end of the release season to prioritize periods of cropspecific vulnerability to NOW damage.

CDFA began conducting ground releases every Wednesday, starting on May 8, due to shortage of pilots needed for aerial release. During the period of March 20 to August 11, these weekly ground releases occurred at either Zone 7 or Zone 8, alternating between the two zones each week when possible. During the period of August 12 to October 28, weekly ground releases occur at either Zone 2 or Zone 5, alternating between the two zones each week when possible.

Listed below are any circumstances which prevented regular aerial releases in 2024:

- March 20 March 23: Ground releases conducted while aerial releases were unavailable
- <u>March 24</u>: No releases conducted due to excessive rain and muddy field conditions preventing access to release sites
- <u>March 25 March 26</u>: Ground releases conducted while aerial releases were unavailable
- <u>March 27</u>: No releases conducted due to release equipment issues
- <u>March 28 March 29</u>: Ground releases conducted while aerial releases were unavailable
- <u>March 30</u>: No releases conducted due to excessive rain and muddy field conditions preventing access to release sites
- <u>March 31</u>: Ground releases conducted while aerial releases were unavailable
- <u>April 1</u>: No releases conducted due to excessive rain and muddy field conditions preventing access to release sites
- <u>April 2 April 5</u>: Ground releases conducted while aerial releases were unavailable
- <u>April 14</u>: No releases conducted due to excessive rain and muddy field conditions preventing access to release sites; magazine was held overnight for potential release on April 15
- April 15: Double aerial release conducted with moth shipments from April 13 and 14
- July 7: Aerial release only conducted over Zone 8 due to issues with release equipment during flight; Zone 7 not released over
- <u>August 8</u>: Ground release conducted at Zone 7 while release aircraft underwent repairs
- <u>August 28 30</u>: Ground releases conducted at Zones 2 and 5 due to shortage of pilots

#### **Navel Orangeworm Trapping**

The Phase 2 Area Wide Project Site for 2024 includes eight 640-acre orchards: four pistachio and four almond, and one 600-acre almond orchard, located in Fresno County. Trapping is being conducted weekly year-round in Zones 2 through 9. Zone 9 was added to the Project Site on May 20, 2024. All traps were removed from Zone 1 on December 3, 2024 by request from the orchard's manager.

Listed below are any circumstances which prevented regular trap servicing in 2024:

- <u>Week of January 5</u>: No traps were serviced due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of January 12</u>: No traps were serviced in Zones 4 and 6 due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of January 26</u>: No traps were serviced due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of February 2</u>: No traps were serviced in Zones 3 and 7 due to pesticide applications on site

- <u>Week of February 9</u>: No traps were serviced due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of February 16</u>: No traps were serviced in Zones 4 and 8 due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of February 23</u>: No traps were serviced in Zones 1, 2, 5, 6, and 7 due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of March 1</u>: No traps were serviced in Zone 8 due to pesticide applications on site
- <u>Week of March 8</u>: No traps were serviced in Zones 4 and 8 due to excessive rain and muddy conditions preventing access to trap sites; Traps 13 36 not serviced in Zone 3 due to pesticide applications on site
- <u>Week of March 15</u>: No traps were serviced in Zone 4 due to pesticide applications on site
- <u>Week of March 22</u>: No traps were serviced in Zones 2 and 5 due to pesticide applications on site
- <u>Week of March 29</u>: No traps were serviced in Zone 4 due to pesticide applications on site
- <u>Week of April 5</u>: No traps were serviced in Zone 4 due to staffing issues
- <u>Week of April 19</u>: No traps were serviced in Zone 8 due to pesticide applications on site
- <u>Week of May 10</u>: No traps were serviced in Zone 8 due to pesticide applications on site
- <u>Week of May 24</u>: No traps were serviced in Zone 6 due to pesticide applications on site
- <u>Week of July 5</u>: No traps were serviced in Zones 4 and 9 due to pesticide applications on site
- <u>Week of July 12</u>: No traps were serviced in Zone 4 due to staffing issues
- <u>Week of July 19</u>: No traps were serviced in Zone 8 due to pesticide applications on site
- <u>Week of July 26</u>: No traps were serviced in Zone 3 due to pesticide applications on site
- <u>Week of August 30</u>: No traps were serviced in Zone 5 due to pesticide applications on site; trap numbers 25 29 not serviced in Zone 4 due to harvest operations on site
- <u>Week of September 20</u>: No traps were serviced in Zone 4 due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of September 27</u>: No traps were serviced in Zones 3 and 4 due to staffing issues; Trap numbers 25 30 not serviced in Zone 1 due to harvest operations on site
- <u>Week of November 1</u>: No traps were serviced in Zone 9 due to staffing issues
- <u>Week of November 8</u>: No traps were serviced in Zone 4 due to pesticide applications on site
- <u>Week of November 15</u>: No traps were serviced in Zone 4 due to pesticide applications on site
- <u>Week of November 29</u>: No traps were serviced in all zones due to excessive rain and muddy conditions preventing access to trap sites
- <u>Week of December 6</u>: All traps were removed from Zone 1 on December 3 by request from field's manager

• <u>Week of December 13</u>: No traps were serviced in Zones 6 and 9 due to excessive rain and muddy conditions preventing access to trap sites; Trap numbers 13 – 36 not serviced in Zone 3 due to pesticide applications on site

### 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 2024 Area Wide Project Site includes nine orchards located in Fresno County, identified as Zones 1 through 9. Listed below is information related to each orchard within the Program's Phase 2 project site for 2024:

Zone #	Сгор Туре	Acres	Release/Non- release Site	MagazineDate Added to AreaDesignationWide Project		Date Removed from Area Wide Project
Zone 1	Pistachio	640	Non-release		February 2023	December 2024
Zone 2	Pistachio	640	Release	Mag 1	February 2023	
Zone 3	Almond	640	Non-release		February 2023	
Zone 4	Almond	640	Non-release	February 2023		
Zone 5	Pistachio	640	Release	Mag 1	March 2023	
Zone 6	Pistachio	640	Non-release		March 2023	
Zone 7	Almond	640	Release	Mag 1	April 2023	
Zone 8	Almond	640	Release	Mag 1	April 2023	
Zone 9	Almond	600	Non-release		May 2024	

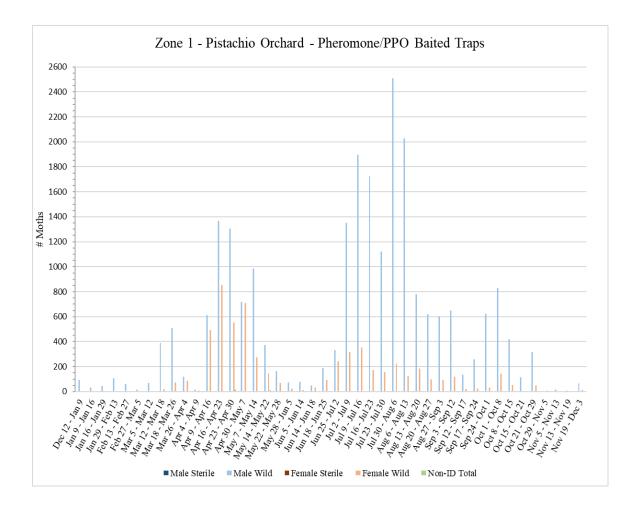
Each zone has a trap site ratio of approximately one trap site per 18 acres for a total of 36 trap sites for each 640acre zone and 34 traps for the 600-acre zone. Each trap site has one trap baited with NOW pheromone/PPO lures. All traps are serviced on a weekly basis. Servicing includes collecting trap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

# Zone 1 – Pistachio Orchard

All traps were removed from Zone 1 on <u>Tuesday</u>, <u>December 3</u>.

		Z	one 1 - P	<b>Pistachio</b>				
		Pherom	one/PPO L	ure Baited	Traps			
	# of							
	Releases							
	During							
	Trap	Male	Male	Male	Female	Female	Female	Non-ID
Dates Traps in Field	Period	Sterile	Wild	Total	Sterile	Wild	Total	Total
<sup>1</sup> Dec 12 – Jan 9	0	0	93	93	0	0	0	0
Jan 9 – Jan 16	0	0	31	31	0	0	0	0
<sup>2</sup> Jan 16 – Jan 29	0	0	43	43	0	0	0	0
<sup>3</sup> Jan 29 – Feb 13	0	0	107	107	0	1	1	0
<sup>4</sup> Feb 13 – Feb 27	0	0	63	63	0	2	2	0
Feb 27 – Mar 5	0	0	16	16	0	0	0	0
Mar 5 – Mar 12	0	0	69	69	0	1	1	1
Mar 12 – Mar 18	0	0	390	390	0	19	19	0
Mar 18 – Mar 26	0	0	509	509	0	72	72	1
Mar 26 – Apr 4	0	0	118	118	0	86	86	0
Apr 4 – Apr 9	0	0	15	15	0	7	7	0
Apr 9 – Apr 16	0	0	611	611	0	493	493	0
Apr 16 – Apr 23	0	0	1366	1366	0	854	854	2
Apr 23 – Apr 30	0	0	1305	1305	0	554	554	17
Apr 30 – May 7	0	0	719	719	0	709	709	0
May 7 – May 14	0	0	985	985	0	276	276	3
May 14 – May 22	0	0	372	372	0	147	147	11
May 22 – May 28	0	0	164	164	0	69	69	0
May 28 – Jun 5	0	0	75	75	0	25	25	0
Jun 5 – Jun 14	0	0	79	79	0	13	13	0
Jun 14 – Jun 18	0	0	47	47	0	34	34	0
Jun 18 – Jun 25	0	0	187	187	0	95	95	0
Jun 25 – Jul 2	0	0	333	333	0	242	242	0
Jul 2 – Jul 9	0	0	1351	1351	0	314	314	1
Jul 9 – Jul 16	0	0	1898	1898	0	351	351	1
Jul 16 – Jul 23	0	0	1722	1722	0	172	172	0
Jul 23 – Jul 30	0	0	1121	1121	0	154	154	0
Jul 30 – Aug 6	0	0	2509	2509	0	226	226	3
Aug 6 – Aug 13	0	0	2027	2027	0	124	124	2
Aug 13 – Aug 20	0	0	778	778	0	183	183	0
Aug 20 – Aug 27	0	0	621	621	0	97	97	1
Aug 27 – Sep 3	0	0	605	605	0	95	95	0
Sep 3 – Sep 12	0	0	650	650	0	118	118	0
Sep 12 – Sep 17	0	0	136	136	0	22	22	0
<sup>5</sup> Sep 17 – Sep 24	0	0	260	260	0	23	23	0
$\frac{\operatorname{Sep} 14 - \operatorname{Sep} 24}{\operatorname{Sep} 24 - \operatorname{Oct} 1}$	0	0	624	624	0	32	32	1
Oct 1 – Oct 8	0	0	830	830	0	143	143	2
Oct 8 – Oct 15	0	0	419	419	0	53	53	1
Oct 15 – Oct 21	0	0	115	115	0	5	5	0

Oct 21 – Oct 29																	
Oct 29 – Nov 5																	
Nov 5 – Nov 13	Nov 5 – Nov 13 0 0 16 16 0 0 0 0																
Nov 13 – Nov 19	Nov 13 – Nov 19 0 0 8 8 0 1 1 0																
<sup>6</sup> Nov 19 – Dec 3	<sup>6</sup> Nov 19 – Dec 3 0 0 67 67 0 11 11 0																
<sup>1</sup> No traps were serviced in Zone 1 during the weeks of December 22, December 29, and January 5 due to excessive																	
rain and muddy conditions preventing access																	
<sup>2</sup> No traps were serviced in Zone 1 during the week of January 26 due to excessive rain and muddy conditions																	
			preventing	g access													
<sup>3</sup> No traps were serviced	l in Zone 1	during the	week of Fe	bruary 9 du	ue to excess	ive rain and	d muddy con	ditions									
			preventing	g access													
<sup>4</sup> No traps were serviced	in Zone 1 d	luring the	week of Fe	bruary 23 d	ue to exces	sive rain an	d muddy co	nditions									
			preventing	g access													
<sup>5</sup> Trap numbers 25 - 30 not serviced in Zone 1 due to harvest operations on site																	
<sup>6</sup> No traps were serviced in Zone 1 during the week of November 29 due to excessive rain and muddy conditions																	
preventing access																	
All traps w	ere remove	d from Zor	ne 1 on Dec	ember 3 by	request fro	om field's n	nanager	All traps were removed from Zone 1 on December 3 by request from field's manager									

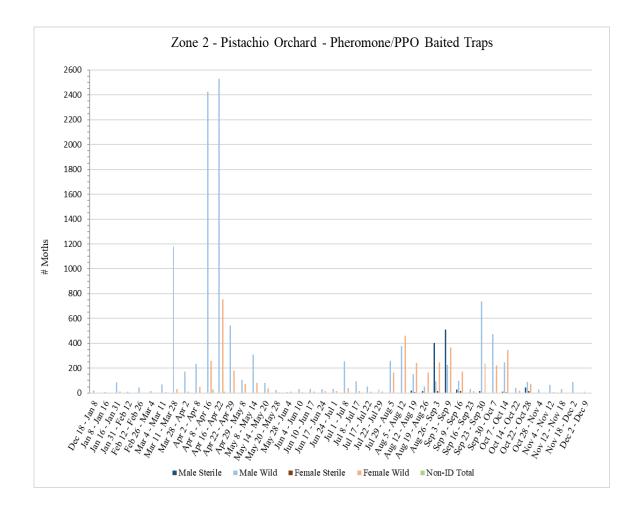


# Zone 2 – Pistachio Orchard

A total of 36 pheromone/PPO lure-baited traps were collected from Zone 2 on Monday, December 9.

		7	Zone 2 -	Pistachi	0			
				Lure Baite				
	# of Releases During							
Dates Traps in Field	Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
<sup>1</sup> Dec 18 – Jan 8	0	0	21	21	0	0	0	0
Jan 8 – Jan 16	0	0	7	7	0	0	0	0
<sup>2</sup> Jan 16 – Jan 31	0	0	87	87	0	12	12	0
<sup>3</sup> Jan 31 – Feb 12	0	0	11	11	0	0	0	0
<sup>4</sup> Feb 12 – Feb 26	0	0	45	45	0	0	0	0
Feb 26 – Mar 4	0	0	14	14	0	0	0	0
Mar 4 – Mar 11	0	0	69	69	0	8	8	0
<sup>5</sup> Mar 11 – Mar 28	0	0	1180	1180	0	33	33	2
Mar 28 – Apr 2	0	0	173	173	0	10	10	0
Apr 2 – Apr 8	0	0	236	236	0	49	49	0
Apr 8 – Apr 16	0	0	2424	2424	0	260	260	27
Apr 16 – Apr 22	0	0	2529	2529	0	754	754	12
Apr 22 – Apr 29	0	0	544	544	0	182	182	4
Apr 29 – May 8	0	0	105	105	0	73	73	0
May 8 – May 14	0	0	310	310	0	81	81	0
May 14 – May 20	0	0	80	80	0	37	37	0
May 20 – May 28	0	0	22	22	0	6	6	0
May 28 – Jun 4	0	0	7	7	0	11	11	0
Jun 4 – Jun 10	0	0	30	30	0	6	6	0
Jun 10 – Jun 17	0	0	32	32	0	13	13	0
Jun 17 – Jun 24	0	0	33	33	0	14	14	0
Jun 24 – Jul 1	0	0	33	33	0	16	16	0
Jul 1 – Jul 8	0	0	256	256	0	41	41	0
Jul 8 – Jul 17	0	0	94	94	0	17	17	0
Jul 17 – Jul 22	0	0	52	52	0	13	13	0
Jul 22 – Jul 29	0	0	29	29	0	12	12	0
Jul 29 – Aug 5	0	0	260	260	0	162	162	0
Aug 5 – Aug 12	1	0	379	379	0	462	462	0
Aug 12 – Aug 19	8	21	151	172	7	244	251	0
Aug 19 – Aug 26	7	16	52	68	2	163	165	0
Aug 26 – Sep 3	8	405	95	500	15	246	261	0
Sep 3 – Sep 9	6	512	225	737	1	366	367	0
Sep 9 – Sep 16	8	28	98	126	14	171	185	0
Sep 16 – Sep 23	7	1	30	31	0	17	17	0
Sep 23 – Sep 30	8	15	738	753	2	238	240	2
Sep 30 – Oct 7	7	0	475	475	0	220	220	0
Oct 7 – Oct 14	8	10	245	255	6	347	353	0
Oct 14 – Oct 22	8	1	42	43	0	18	18	0
Oct 22 – Oct 28	7	46	90	136	16	72	88	0
Oct 28 – Nov 4	1	0	28	28	0	4	4	0
Nov 4 – Nov 12	0	0	64	64	0	5	5	0

		i i										
Nov 12 – Nov 18	0	0	33	33	0	0	0	0				
<sup>6</sup> Nov 18 – Dec 2												
<b>Dec 2 – Dec 9</b>	lec 2 – Dec 9 0 0 11 11 0 0 0 0											
<sup>1</sup> No traps were serviced in Zone 2 during the weeks of December 29 and January 5 due to excessive rain and												
muddy conditions preventing access												
<sup>2</sup> No traps were serviced in Zone 2 during the week of January 26 due to excessive rain and muddy conditions												
		-	preventi	ng access			-					
<sup>3</sup> No traps were serv	viced in Zone 2	during th	e week of	February 9	due to exces	sive rain an	d muddy co	nditions				
			preventi	ng access								
<sup>4</sup> No traps were serve	iced in Zone 2	during the	e week of l	February 23	due to exce	ssive rain ar	nd muddy co	onditions				
preventing access												
<sup>5</sup> No traps were serviced in Zone 2 during the week of March 22 due to pesticide applications on site												
<sup>6</sup> No traps were serviced in Zone 2 during the week of November 29 due to excessive rain and muddy conditions												
-		2	preventi	ng access			·					

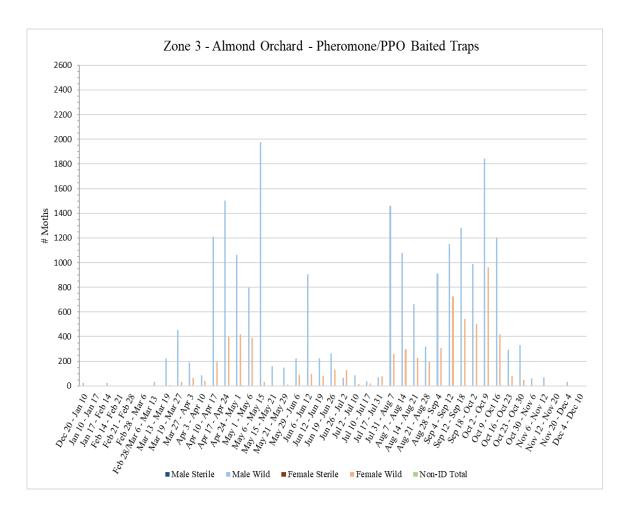


### Zone 3 – Almond Orchard

A total of **12** pheromone/PPO lure-baited traps were collected from Zone 3 on <u>Tuesday</u>, <u>December 10</u>. Traps 13 - 36 were not collected due to pesticide applications on site.

		Zon	e 3 - Al	mond				
	Pł	neromone/			raps			
	# of							
	Releases							
	During							
	Trap	Male	Male	Male	Female	Female	Female	Non-ID
Dates Traps in Field	Period	Sterile	Wild	Total	Sterile	Wild	Total	Total
<sup>1</sup> Dec 20 – Jan 10	0	0	24	24	0	0	0	0
Jan 10 – Jan 17	0	0	5	5	0	0	0	0
<sup>2</sup> Jan 17 – Feb 14	0	0	26	26	0	0	0	2
Feb 14 – Feb 21	0	0	5	5	0	0	0	0
Feb 21 – Feb 28	0	0	5	5	0	0	0	0
<sup>3</sup> Feb 28 – Mar 6	0	0	3	3	0	0	0	0
<sup>4</sup> Feb 28/Mar 6 – Mar 13	0	0	31	31	0	0	0	0
Mar 13 – Mar 19	0	0	223	223	0	6	6	0
Mar 19 – Mar 27	0	0	455	455	0	32	32	1
Mar 27 – Apr 3	0	0	191	191	0	65	65	1
Apr 3 – Apr 10	0	0	85	85	0	39	39	0
Apr 10 – Apr 17	0	0	1212	1212	0	194	194	1
Apr 17 – Apr 24	0	0	1501	1501	0	399	399	2
Apr 24 – May 1	0	0	1063	1063	0	420	420	7
May 1 – May 6	0	0	796	796	0	389	389	3
May 6 – May 15	0	0	1976	1976	0	33	33	4
May 15 – May 21	0	0	161	161	0	3	3	0
May 21 – May 29	0	0	148	148	0	12	12	0
May 29 – Jun 6	0	1	222	223	0	92	92	1
Jun 6 – Jun 12	0	2	904	906	0	100	100	0
Jun 12 – Jun 19	0	0	223	223	0	84	84	0
Jun 19 – Jun 26	0	0	263	263	0	133	133	0
Jun 26 – Jul 2	0	0	64	64	0	128	128	0
Jul 2 – Jul 10	0	0	88	88	0	16	16	0
Jul 10 – Jul 17	0	0	35	35	0	20	20	0
<sup>5</sup> Jul 17 – Jul 31	0	0	70	70	0	77	77	0
Jul 31 – Aug 7	0	0	1461	1461	0	262	262	1
Aug 7 – Aug 14	0	0	1078	1078	0	297	297	2
Aug 14 – Aug 21	0	0	665	665	0	228	228	0
Aug 21 – Aug 28	0	0	320	320	0	195	195	1
Aug 28 – Sep 4	0	0	911	911	0	307	307	0
Sep 4 – Sep 12	0	0	1150	1150	0	728	728	0
Sep 12 – Sep 18	0	0	1283	1283	0	545	545	0
<sup>6</sup> Sep 18 – Oct 2	0	0	987	987	0	502	502	1
Oct 2 – Oct 9	0	0	1844	1844	0	963	963	0
Oct 9 – Oct 16	0	0	1204	1204	0	419	419	0
Oct 16 – Oct 23	0	0	296	296	0	82	82	0
Oct 23 – Oct 30	0	0	331	331	0	47	47	0
Oct 30 – Nov 6	0	0	63	63	0	3	3	0
Nov 6 – Nov 12	0	0	69	69	0	2	2	0

Nov 12 – Nov 20	0	0	1	1	0	0	0	0			
<sup>7</sup> Nov 20 – Dec 4	0	0	34	34	0	0	0	0			
<sup>8</sup> Dec 4 – Dec 10	0	0	3	3	0	0	0	0			
<sup>1</sup> No traps were serviced in Zone 3 during the weeks of December 29 and January 5 due to excessive rain and											
muddy conditions preventing access											
<sup>2</sup> No traps were serviced in Zone 3 during the weeks of January 26 and February 9 due to excessive rain and											
muddy conditions preventing access; No traps were serviced in Zone 3 during the week of February 2 due to											
		pesticide	applicati	ons on site	e						
<sup>3</sup> Traps 13 - 36 not servi	ced in Zone	3 during t	the week	of March 8	8 due to pe	esticide app	plications	on site			
	<sup>4</sup> Tra	ps 13 - 36	in field si	ince Febru	ary 28						
<sup>5</sup> No traps were servic	ed in Zone	3 during th	ne week o	of July 26 d	lue to pest	icide appli	ications on	site			
<sup>6</sup> No traps were se	<sup>6</sup> No traps were serviced in Zone 3 during the week of September 27 due to staffing issues										
<sup>7</sup> No traps were serviced in Zone 3 during the week of November 29 due to excessive rain and muddy											
conditions preventing access											
<sup>8</sup> Traps 13 - 36 not serviced in Zone 3 during the week of December 13 due to pesticide applications on											
			site								

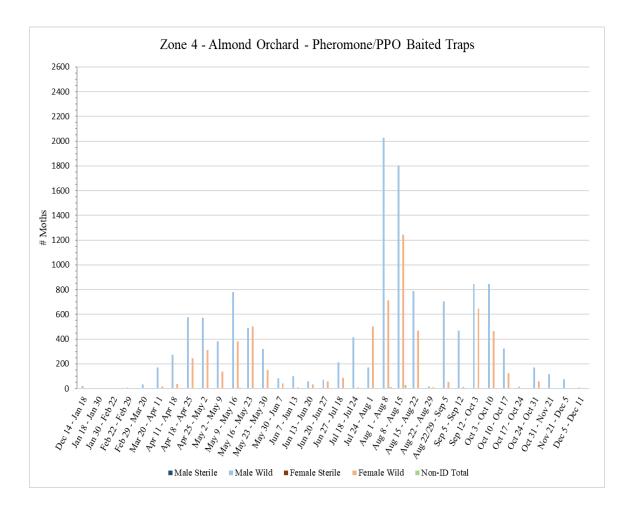


# Zone 4 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 4 on <u>Wednesday</u>, December 11.

Dates Traps in	# of Releases During Trap	Pheron	none/PPO	Lure Baited	d Traps			
-	Releases During							
-	Trap							
Field	Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
<sup>1</sup> Dec 14 – Jan 18	0	0	20	20	0	1	1	0
<sup>2</sup> Jan 18 – Jan 30	0	0	4	4	0	0	0	0
<sup>3</sup> Jan 30 – Feb 22	0	0	3	3	0	0	0	1
Feb 22 – Feb 29	0	0	10	10	0	0	0	0
<sup>4</sup> Feb 29 – Mar 20	0	0	35	35	0	0	0	0
<sup>5</sup> Mar 20 – Apr 11	0	0	170	170	0	16	16	0
Apr 11 – Apr 18	0	0	274	274	0	37	37	0
Apr 18 – Apr 25	0	0	575	575	0	246	246	0
Apr 25 – May 2	0	0	573	573	0	311	311	2
May 2 – May 9	0	0	383	383	0	139	139	0
May 9 – May 16	0	0	778	778	0	383	383	9
May 16 – May 23	0	0	490	490	0	501	501	6
May 23 – May 30	0	0	319	319	0	151	151	3
May 30 – Jun 7	0	0	85	85	0	43	43	0
Jun 7 – Jun 13	0	0	99	99	0	8	8	0
Jun 13 – Jun 20	0	0	60	60	0	35	35	0
Jun 20 – Jun 27	0	0	69	69	0	58	58	0
<sup>6</sup> Jun 27 – Jul 18	0	0	210	210	0	87	87	1
Jul 18 – Jul 24	0	0	416	416	0	10	10	2
Jul 24 – Aug 1	0	0	172	172	0	503	503	0
Aug 1 – Aug 8	0	0	2027	2027	0	712	712	12
Aug 8 – Aug 15	0	0	1802	1802	0	1243	1243	30
Aug 15 – Aug 22	0	0	788	788	0	468	468	2
<sup>7</sup> Aug 22 – Aug 29	0	0	17	17	0	13	13	1
<sup>8</sup> Aug 22/29 – Sep 5	0	0	705	705	0	53	53	3
Sep 5 – Sep 12	0	0	470	470	0	14	14	0
<sup>9</sup> Sep 12 – Oct 3	0	0	846	846	0	646	646	1
Oct 3 – Oct 10	0	0	845	845	0	465	465	2
Oct 10 – Oct 17	0	0	325	325	0	125	125	0
Oct 17 – Oct 24	0	0	17	17	0	5	5	0
Oct 24 - Oct 31	0	0	170	170	0	58	58	0
$^{10}\text{Oct } 31 - \text{Nov } 21$	0	0	117	117	0	3	3	0
<sup>11</sup> Nov 21 – Dec 5	0	0	77	77	0	0	0	0
Dec 5 – Dec 11	0	0	10	10	0	0	0	0
<sup>1</sup> No traps were service <sup>2</sup> No traps were service	due to exc	essive rair	and mud	dy condition	ns preventii	ng access	•	-
<sup>3</sup> No traps were service			preventi	ng access				

<sup>4</sup> No traps were serviced in Zone 4 during the week of March 8 due to excessive rain and muddy conditions
preventing access; No traps were serviced in Zone 4 during the week of March 15 due to pesticide applications
on site
<sup>5</sup> No traps were serviced in Zone 4 during the week of March 29 due to pesticide applications on site; No traps
were serviced in Zone 4 during the week of April 5 due to staffing issues
<sup>6</sup> No traps were serviced in Zone 4 during the week of July 5 due to pesticide applications on site; No traps
were serviced in Zone 4 during the week of July 12 due to staffing issues
<sup>7</sup> Trap numbers 25 – 29 not serviced in Zone 4 during the week of August 30 due to harvest operations on site
<sup>8</sup> Traps 25 – 29 in field since August 22
<sup>9</sup> No traps were serviced in Zone 4 during the week of September 20 due to excessive rain and muddy
conditions preventing access; No traps were serviced in Zone 4 during the week of September 27 due to
staffing issues
<sup>10</sup> No traps were serviced in Zone 4 during the weeks of November 8 and November 15 due to pesticide
applications on site
<sup>11</sup> No traps were serviced in Zone 4 during the week of November 29 due to excessive rain and muddy
conditions preventing access

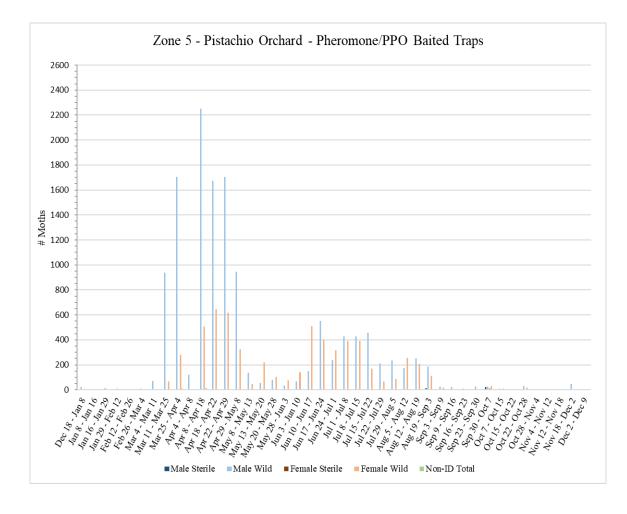


# Zone 5 – Pistachio Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 5 on Monday, December 9.

		7	Zone 5 -	Pistachi	0			
				Lure Baite	-			
	# of Releases During							
Dates Traps in Field	Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
<sup>1</sup> Dec 18 – Jan 8	0	0	21	21	0	0	0	0
Jan 8 – Jan 16	0	0	2	2	0	0	0	0
<sup>2</sup> Jan 16 – Jan 29	0	0	14	14	0	1	1	0
<sup>3</sup> Jan 29 – Feb 12	0	0	8	8	0	0	0	0
<sup>4</sup> Feb 12 – Feb 26	0	0	0	0	0	0	0	0
Feb 26 – Mar 4	0	0	11	11	0	0	0	0
Mar 4 – Mar 11	0	0	70	70	0	1	1	0
<sup>5</sup> Mar 11 – Mar 25	0	0	938	938	0	68	68	0
Mar 25 – Apr 4	0	0	1707	1707	0	281	281	9
Apr 4 – Apr 8	0	0	119	119	0	7	7	0
Apr 8 – Apr 18	0	0	2250	2250	0	507	507	13
Apr 18 – Apr 22	0	0	1672	1672	0	647	647	0
Apr 22 – Apr 29	0	0	1707	1707	0	617	617	0
Apr 29 – May 8	0	0	945	945	0	325	325	2
May 8 – May 13	0	0	137	137	0	45	45	0
May 13 – May 20	0	0	55	55	1	219	220	2
May 20 – May 28	0	0	79	79	0	103	103	0
May 28 – Jun 3	0	0	33	33	0	74	74	0
Jun 3 – Jun 10	0	0	68	68	0	141	141	3
Jun 10 – Jun 17	0	0	150	150	0	510	510	1
Jun 17 – Jun 24	0	0	550	550	0	398	398	0
Jun 24 – Jul 1	0	0	238	238	0	316	316	0
Jul 1 – Jul 8	0	0	427	427	0	393	393	0
Jul 8 – Jul 15	0	0	430	430	0	392	392	0
Jul 15 – Jul 22	0	0	458	458	0	169	169	0
Jul 22 – Jul 29	0	0	212	212	0	68	68	0
Jul 29 – Aug 5	0	0	236	236	0	86	86	0
Aug 5 – Aug 12	1	0	175	175	0	254	254	0
Aug 12 – Aug 19	7	0	250	250	0	207	207	0
<sup>6</sup> Aug 19 – Sep 3	14	14	188	202	2	114	116	0
Sep 3 – Sep 9	7	6	25	31	1	18	19	0
Sep 9 – Sep 16	7	1	22	23	0	6	6	0
Sep 16 – Sep 23	8	4	8	12	0	2	2	0
Sep 23 – Sep 30	7	1	27	28	0	2	2	0
Sep 30 – Oct 7	8	20	24	44	9	32	41	0
$\frac{\text{Oct 7} - \text{Oct 15}}{\text{Oct 15}}$	8	0	10	10	0	9	9	0
$\frac{\text{Oct } 15 - \text{Oct } 22}{\text{Oct } 22 - \text{Oct } 22}$	8	3	7	10	0	3	3	0
$\frac{\text{Oct } 22 - \text{Oct } 28}{\text{Oct } 28}$	6	0	28	28	0	17	17	0
$\frac{\text{Oct } 28 - \text{Nov } 4}{\text{Nov } 4}$	1	0	1	1	0	0	0	0
Nov 4 – Nov 12	0	0	0	0	0	0	0	0
Nov 12 – Nov 18	0	0	0	0	0	0	0	0

<sup>7</sup> Nov 18 – Dec 2	0	0	48	48	0	0	0	0			
<b>Dec 2 – Dec 9</b>	0	0	0	0	0	0	0	0			
<sup>1</sup> No traps were serviced in Zone 5 during the weeks of December 29 and January 5 due to excessive rain and muddy conditions preventing access											
<sup>2</sup> No traps were servi	<sup>2</sup> No traps were serviced in Zone 5 during the week of January 26 due to excessive rain and muddy conditions										
preventing access											
<sup>3</sup> No traps were servi	ced in Zone 5	during th	e week of	February 9	due to exces	ssive rain a	nd muddy c	onditions			
			preventi	ing access							
<sup>4</sup> No traps were service	ced in Zone 5	during the	e week of I	February 23	due to exce	ssive rain a	and muddy o	conditions			
			preventi	ing access							
<sup>5</sup> No traps were	<sup>5</sup> No traps were serviced in Zone 5 during the week of March 22 due to pesticide applications on site										
<sup>6</sup> No traps were serviced in Zone 5 during the week of August 30 due to pesticide applications on site											
<sup>7</sup> No traps were serviced in Zone 5 during the week of November 29 due to excessive rain and muddy											
	conditions preventing access										

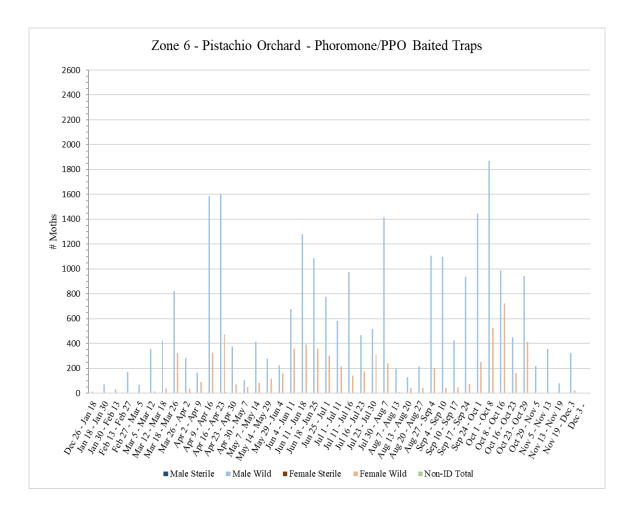


### Zone 6 – Pistachio Orchard

No traps were collected from Zone 6 during the <u>week of December 13</u> due to excessive rain and muddy conditions preventing access to trap sites.

			Zone 6	- Pistach	io								
	Pheromone/PPO Lure Baited Traps												
	# of Releases												
Dates Traps in Field	During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total					
$^{1}$ Dec 26 – Jan 18	0	0	14	14	0	0	0	0					
$^{2}$ Jan 18 – Jan 30	0	0	71	71	0	0	0	0					
$^{3}$ Jan 30 – Feb 13	0	0	28	28	0	2	2	0					
<sup>4</sup> Feb 13 – Feb 27	0	0	172	172	0	1	1	0					
Feb 27 – Mar 5	0	0	68	68	0	2	2	1					
Mar 5 – Mar 12	0	0	355	355	0	13	13	0					
Mar 12 – Mar 18	0	0	422	422	0	36	36	0					
Mar 18 – Mar 26	0	0	823	823	0	321	321	2					
Mar 26 – Apr 2	0	0	283	283	0	39	39	0					
Apr 2 – Apr 9	0	0	167	167	0	92	92	0					
Apr 9 – Apr 16	0	0	1587	1587	0	328	328	4					
Apr 16 – Apr 23	0	0	1601	1601	0	477	477	11					
Apr 23 – Apr 30	0	0	375	375	0	70	70	0					
Apr 30 – May 7	0	0	103	103	0	51	51	0					
May 7 – May 14	0	0	414	414	0	82	82	1					
<sup>5</sup> May 14 – May 29	0	0	278	278	0	116	116	0					
May 29 – Jun 4	0	0	222	222	0	156	156	2					
Jun 4 – Jun 11	0	0	676	676	0	361	361	0					
Jun 11 – Jun 18	0	0	1278	1278	0	393	393	0					
Jun 18 – Jun 25	0	0	1085	1085	0	361	361	2					
Jun 25 – Jul 1	0	0	778	778	0	301	301	2					
Jul 1 – Jul 11	0	0	583	583	0	215	215	0					
Jul 11 – Jul 16	0	0	974	974	0	143	143	0					
Jul 16 – Jul 23	0	0	465	465	0	175	175	0					
Jul 23 – Jul 30	0	0	517	517	0	311	311	0					
Jul 30 – Aug 7	0	0	1414	1414	0	241	241	0					
Aug 7 – Aug 13	0	0	199	199	0	9	9	0					
Aug 13 – Aug 20	0	0	130	130	0	44	44	0					
Aug 20 – Aug 27	0	0	216	216	0	43	43	0					
Aug 27 – Sep 4	0	0	1107	1107	0	202	202	2					
Sep 4 – Sep 10	0	0	1097	1097	0	44	44	1					
Sep 10 – Sep 17	0	0	426	426	0	48	48	0					
Sep 17 – Sep 24	0	0	937	937	0	77	77	0					
Sep 24 – Oct 1	0	0	1446	1446	0	253	253	0					
Oct 1 – Oct 8	0	0	1870	1870	0	524	524	1					
Oct 8 – Oct 16	0	0	986	986	0	722	722	0					
Oct 16 – Oct 23	0	0	450	450	0	160	160	0					
Oct 23 – Oct 29	0	0	943	943	0	414	414	0					
Oct 29 – Nov 5	0	0	218	218	0	2	2	0					
Nov 5 – Nov 13	0	0	357	357	0	2	2	0					

	1	1		1	1	1		
Nov 13 – Nov 19	0	0	81	81	0	0	0	0
<sup>6</sup> Nov 19 – Dec 3	0	0	321	321	0	21	21	0
<sup>7</sup> Dec 3 -								
<sup>1</sup> No traps were ser	viced in Zon	e 6 during	the weeks	s of January	5 and Janu	ary 12 due	to excessive	rain and
		mudd	y conditior	ns preventin	ig access			
<sup>2</sup> No traps were servi	iced in Zone	6 during t	he week of	f January 26	5 due to exc	essive rain	and muddy	conditions
-			prevent	ting access				
<sup>3</sup> No traps were servi	iced in Zone	6 during t	he week of	f February 9	due to exc	essive rain	and muddy	conditions
_			prevent	ting access				
<sup>4</sup> No traps were service	ced in Zone (	5 during th	e week of	February 2	3 due to ex	cessive rair	and muddy	conditions
_			prevent	ting access				
<sup>5</sup> No traps were	<sup>5</sup> No traps were serviced in Zone 6 during the week of May 24 due to pesticide applications on site							
<sup>6</sup> No traps were serviced in Zone 6 during the week of November 29 due to excessive rain and muddy								
conditions preventing access								
<sup>7</sup> No traps were serviced in Zone 6 during the week of December 13 due to excessive rain and muddy								
conditions preventing access								

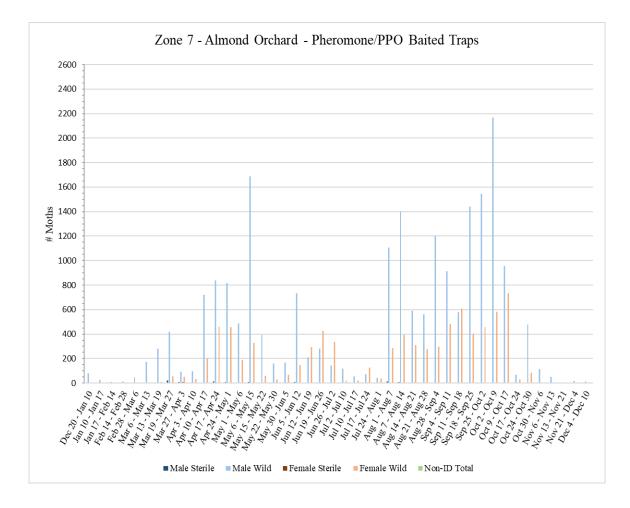


# Zone 7 – Almond Orchard

A total of 36 pheromone/PPO lure-baited traps were collected from Zone 7 on Tuesday, December 10.

	Zone 7 - Almond							
Pheromone/PPO Lure Baited Traps								
	# of Releases During							
Dates Traps in Field	Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
<sup>1</sup> Dec 20 – Jan 10	0	0	81	81	0	0	0	0
Jan 10 – Jan 17	0	0	24	24	0	1	1	0
<sup>2</sup> Jan 17 – Feb 14	0	0	8	8	0	0	0	0
<sup>3</sup> Feb 14 – Feb 28	0	0	14	14	0	0	0	0
Feb 28 – Mar 6	0	0	46	46	0	0	0	0
Mar 6 – Mar 13	0	0	173	173	0	0	0	0
Mar 13 – Mar 19	0	0	280	280	0	10	10	0
Mar 19 – Mar 27	3	23	419	442	3	53	56	0
Mar 27 – Apr 3	3	11	93	104	7	51	58	0
Apr 3 – Apr 10	6	3	98	101	5	34	39	0
Apr 10 – Apr 17	8	3	719	722	0	203	203	1
Apr 17 – Apr 24	8	12	837	849	0	461	461	2
Apr 24 – May 1	8	10	817	827	1	455	456	2
May 1 – May 6	6	2	487	489	0	190	190	1
May 6 – May 15	9	8	1689	1697	3	327	330	6
May 15 – May 22	7	1	395	396	0	60	60	2
May 22 – May 30	8	4	161	165	1	30	31	0
May 30 – Jun 5	7	0	167	167	0	67	67	0
Jun 5 – Jun 12	7	8	731	739	0	145	145	1
Jun 12 – Jun 19	7	6	210	216	2	294	296	0
Jun 19 – Jun 26	7	5	282	287	3	426	429	1
Jun 26 – Jul 2	6	4	144	148	1	336	337	0
Jul 2 – Jul 10	7	2	117	119	2	20	22	0
Jul 10 – Jul 17	7	0	53	53	0	21	21	0
Jul 17 – Jul 24	7	1	71	72	1	126	127	0
Jul 24 – Aug 1	8	0	42	42	0	40	40	0
Aug 1 – Aug 7	6	13	1107	1120	0	286	286	1
$\frac{\text{Aug 1} - \text{Aug 1}}{\text{Aug 7} - \text{Aug 14}}$	4	7	1403	1410	0	394	394	0
$\frac{\operatorname{Aug} 7 - \operatorname{Aug} 11}{\operatorname{Aug} 14 - \operatorname{Aug} 21}$	0	0	589	589	0	311	311	5
$\frac{\text{Aug } 11 - \text{Aug } 21}{\text{Aug } 21 - \text{Aug } 28}$	0	0	563	563	0	275	275	0
Aug 28 – Sep 4	0	0	1198	1198	0	297	297	0
Sep 4 – Sep 11	0	0	912	912	0	484	484	1
Sep 11 – Sep 11	0	0	578	578	0	609	609	0
Sep 11 Sep 10 Sep 18 – Sep 25	0	0	1439	1439	0	403	403	2
Sep 10 Sep 25 Sep 25 – Oct 2	0	0	1547	1547	0	456	456	0
$\frac{\operatorname{Oct} 25 \operatorname{Oct} 2}{\operatorname{Oct} 2 - \operatorname{Oct} 9}$	0	0	2168	2168	0	583	583	0
Oct 9 – Oct 17	0	1	954	955	0	733	733	0
Oct 17 – Oct 24	0	0	69	69	0	29	29	0
$\frac{\operatorname{Oct} 17  \operatorname{Oct} 24}{\operatorname{Oct} 24 - \operatorname{Oct} 30}$	0	0	476	476	0	86	86	0
$\frac{\operatorname{Oct} 24 - \operatorname{Oct} 30}{\operatorname{Oct} 30 - \operatorname{Nov} 6}$	0	0	113	113	0	0	0	0
Nov 6 – Nov 13	0	0	52	52	0	4	4	0
10000 - 100013	U	U	52	J2	U	4	4	U

Nov 13 – Nov 21	0	0	3	3	0	0	0	0
<sup>4</sup> Nov 21 – Dec 4	0	0	19	19	0	3	3	0
Dec 4 – Dec 10	0	0	13	13	0	0	0	0
<sup>1</sup> No traps were serv	viced in Zone	7 during th	he weeks	of Decem	ber 29 and Ja	nuary 5 due	e to excessiv	e rain and
		muddy	condition	ns prevent	ing access			
<sup>2</sup> No traps were ser	viced in Zon	e 7 during t	the weeks	of Januar	y 26 and Feb	ruary 9 due	to excessive	e rain and
muddy conditions	preventing ac	cess; No tr	aps were	serviced in	n Zone 7 duri	ng the weel	k of Februar	y 2 due to
		pes	sticide app	olications	on site			
<sup>3</sup> No traps were servi	ced in Zone	7 during th	e week of	February	23 due to ex	cessive rain	and muddy	conditions
preventing access								
<sup>4</sup> No traps were	<sup>4</sup> No traps were serviced in Zone 7 during the week of November 29 due to excessive rain and muddy							
	conditions preventing access							

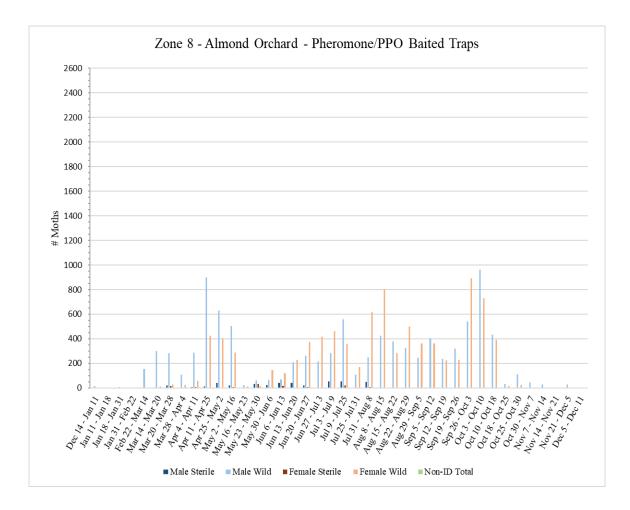


# Zone 8 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 8 on <u>Wednesday</u>, December 11.

	Zone 8 - Almond								
	Pheromone/PPO Lure Baited Traps								
	# of				<b>i</b>				
	Releases								
	During								
Dates Traps in	Trap	Male	Male	Male	Female	Female	Female		
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total	Non-ID Total	
<sup>1</sup> Dec 14 – Jan 11	0	0	16	16	0	0	0	0	
Jan 11 – Jan 18	0	0	3	3	0	0	0	0	
$^{2}$ Jan 18 – Jan 31	0	0	6	6	0	0	0	0	
<sup>3</sup> Jan 31 – Feb 22	0	0	2	2	0	0	0	0	
<sup>4</sup> Feb 22 – Mar 14	0	0	153	153	0	1	1	0	
Mar 14 – Mar 20	0	0	299	299	0	11	11	0	
Mar 20 – Mar 28	3	22	281	303	17	27	44	1	
$\frac{\text{Mar } 28 - \text{Apr } 4}{4}$	3	5	108	113	3	23	26	0	
Apr 4 – Apr 11	6	7	286	293	8	59	67	0	
<sup>5</sup> Apr 11 – Apr 25	15	12	901	913	1	426	427	5	
Apr 25 – May 2	8	40	631	671	5	404	409	0	
<sup>6</sup> May 2 – May 16	14	20	506	526	7	289	296	0	
May 16 – May 23	7	1	24	25	1	14	15	0	
May 23 – May 30	8	32	63	95	31 2	17	48	0	
May 30 – Jun 6	7	23	68 70	91		144	146	0	
Jun 6 – Jun 13	8	43	70	113	17	121	138	1	
Jun 13 – Jun 20		43	206	249	4	229	233	0	
Jun 20 – Jun 27	8	22 0	261 217	283 217	<u>9</u> 2	376 415	385 417	0	
$\frac{Jun 27 - Jul 3}{Jul 2 - Jul 0}$	5	52	217	335	0	415	417	0	
Jul 3 – Jul 9 <sup>7</sup> Jul 9 – Jul 25	16	55	285 560	615	20	357	377	3	
Jul 25 – Jul 23	6	0	106	106	0	172	172	0	
Jul 23 – Jul 31 Jul 31 – Aug 8	7	48	250	298	6	616	622	0	
$\frac{\operatorname{Jur}\operatorname{S1}-\operatorname{Aug}\operatorname{8}}{\operatorname{Aug}\operatorname{8}-\operatorname{Aug}\operatorname{15}}$	3	40	424	428	0	803	803	1	
Aug 15 – Aug 15	0	3	380	383	0	281	281	0	
$\frac{\text{Aug } 13 - \text{Aug } 22}{\text{Aug } 22 - \text{Aug } 29}$	0	0	325	325	0	498	498	1	
Aug 29 – Sep 5	0	0	244	244	0	362	362	0	
Sep 5 – Sep 12	0	0	405	405	0	361	361	0	
Sep 12 – Sep 12	0	0	236	236	0	223	223	0	
Sep 12 Sep 19 Sep 19 – Sep 26	0	0	319	319	0	223	223	0	
Sep 19 Sep 20 Sep 26 – Oct 3	0	0	542	542	0	890	890	0	
$\frac{\operatorname{Oct} 3 - \operatorname{Oct} 10}{\operatorname{Oct} 3 - \operatorname{Oct} 10}$	0	0	963	963	0	729	729	0	
Oct 10 – Oct 18	0	0	433	433	0	392	392	0	
Oct 18 – Oct 25	0	0	33	33	0	17	17	0	
Oct 25 – Oct 30	0	0	113	113	0	25	25	0	
Oct 30 – Nov 7	0	0	46	46	0	0	0	0	
Nov 7 – Nov 14	0	0	27	27	0	0	0	0	
Nov 14 – Nov 21	0	0	0	0	0	0	0	0	
<sup>8</sup> Nov 21 – Dec 5	0	0	28	28	0	3	3	0	
Dec 5 – Dec 11	0	0	1	1	0	0	0	0	

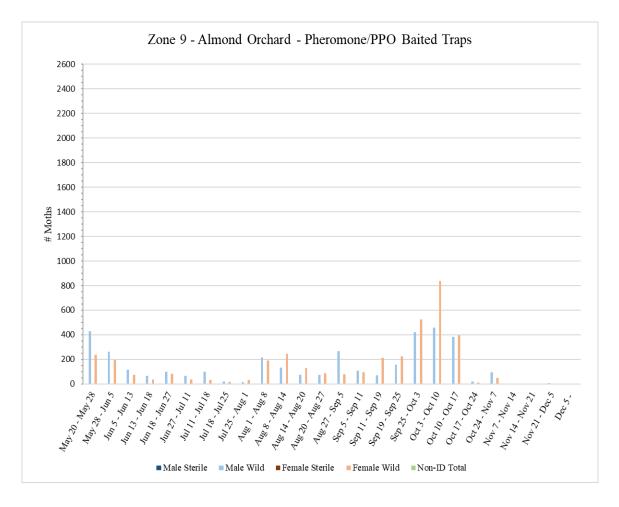
<sup>1</sup> No traps were serviced in Zone 8 during the weeks of December 22, December 29, and January 5 due to							
excessive rain and muddy conditions preventing access							
<sup>2</sup> No traps were serviced in Zone 8 during the week of January 26 due to excessive rain and muddy conditions							
preventing access							
<sup>3</sup> No traps were serviced in Zone 8 during the weeks of February 9 and February 16 due to excessive rain and							
muddy conditions preventing access							
<sup>4</sup> No traps were serviced in Zone 8 during the week of March 1 due to pesticide applications on site; No traps							
were serviced in Zone 8 during the week of March 8 due to excessive rain and muddy conditions preventing							
access							
<sup>5</sup> No traps were serviced in Zone 8 during the week of April 19 due to pesticide applications on site							
<sup>6</sup> No traps were serviced in Zone 8 during the week of May 10 due to pesticide applications on site							
<sup>7</sup> No traps were serviced in Zone 8 during the week of July 19 due to pesticide applications on site							
<sup>8</sup> No traps were serviced in Zone 8 during the week of November 29 due to excessive rain and muddy							
conditions preventing access							



### Zone 9 – Almond Orchard

No traps were collected from Zone 9 during the <u>week of December 13</u> due to excessive rain and muddy conditions preventing access to trap sites.

	Zone 9 - Almond								
	Pheromone/PPO Lure Baited Traps								
	# of								
	Releases								
	During								
Dates Traps in	Trap	Male	Male	Male	Female	Female	Female	Non-ID	
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total	Total	
May 20 – May 28	0	0	427	427	0	239	239	1	
May 28 – Jun 5	0	0	262	262	0	197	197	0	
Jun 5 – Jun 13	0	0	117	117	0	75	75	0	
Jun 13 – Jun 18	0	0	65	65	0	36	36	0	
Jun 18 – Jun 27	0	0	99	99	0	83	83	0	
<sup>1</sup> Jun 27 – Jul 11	0	0	65	65	0	38	38	0	
Jul 11 – Jul 18	0	0	99	99	0	32	32	0	
Jul 18 – Jul 25	0	0	21	21	0	16	16	0	
Jul 25 – Aug 1	0	0	15	15	0	31	31	0	
Aug 1 – Aug 8	0	0	218	218	0	192	192	0	
Aug 8 – Aug 14	0	0	131	131	0	247	247	2	
Aug 14 – Aug 20	0	0	75	75	0	128	128	0	
Aug 20 – Aug 27	0	0	73	73	0	88	88	0	
Aug 27 – Sep 5	0	0	266	266	0	78	78	3	
Sep 5 – Sep 11	0	0	108	108	0	97	97	0	
Sep 11 – Sep 19	0	0	70	70	0	214	214	0	
Sep 19 – Sep 25	0	0	159	159	0	226	226	0	
Sep 25 – Oct 3	0	0	421	421	0	524	524	0	
Oct 3 – Oct 10	0	0	458	458	0	838	838	5	
Oct 10 – Oct 17	0	0	382	382	0	395	395	0	
$\frac{\text{Oct } 17 - \text{Oct } 24}{22}$	0	0	20	20	0	14	14	0	
$^{2}Oct 24 - Nov 7$	0	0	94	94	0	50	50	0	
Nov 7 – Nov 14	0	0	3	3	0	0	0	0	
Nov 14 – Nov 21	0	0	1	1	0	0	0	0	
$^{3}$ Nov 21 – Dec 5	0	0	7	7	0	0	0	0	
<sup>4</sup> Dec 5 -									
<sup>1</sup> No traps we	<sup>1</sup> No traps were serviced in Zone 9 during the week of July 5 due to pesticide applications on site								
			<u> </u>			**			
	<sup>2</sup> No traps were serviced in Zone 9 during the week of November 1 due to staffing issues <sup>3</sup> No traps were serviced in Zone 9 during the week of November 29 due to excessive rain and muddy conditions preventing access								
<sup>4</sup> No traps were s	serviced in Z		ng the weel			to excessive	rain and n	nuddy	



#### 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 - <u>https://ipm.ucanr.edu/PHENOLOGY/ma-navel\_orangeworm.html</u>, the chart below shows daily and total accumulated degree days since January 1, 2024. The model uses a double triangle and vertical cutoff method of calculating degree days.

Date	Air Temperatures (°F)		Degree Days		
Date	Min	Max	Daily	Accumulated	
1/1/2024	43.10	57.30	0.19	0.19	
1/2/2024	44.30	52.50	0.00	0.19	
1/3/2024	42.20	57.50	0.18	0.37	
1/4/2024	37.40	53.70	0.00	0.37	
1/5/2024	36.60	56.10	0.03	0.40	
1/6/2024	33.60	50.30	0.00	0.40	
1/7/2024	33.00	52.40	0.00	0.40	
1/8/2024	29.40	53.10	0.00	0.40	
1/9/2024	28.00	56.30	0.07	0.47	
1/10/2024	48.30	72.70	5.07	5.54	
1/11/2024	30.70	53.50	0.00	5.54	
1/12/2024	26.30	53.50	0.00	5.54	
1/13/2024	34.00	51.30	0.00	5.54	
1/14/2024	40.00	62.20	1.38	6.92	
1/15/2024	45.90	56.00	0.05	6.97	
1/16/2024	45.10	50.80	0.00	6.97	
1/17/2024	41.90	56.60	0.08	7.05	
1/18/2024	37.50	59.10	0.47	7.52	
1/19/2024	43.60	62.30	1.99	9.51	
1/20/2024	51.90	62.90	2.79	12.30	
1/21/2024	51.50	62.50	2.35	14.65	
1/22/2024	49.40	59.50	0.93	15.58	
1/23/2024	47.70	61.60	1.59	17.17	
1/24/2024	48.10	56.70	0.13	17.30	
1/25/2024	42.50	62.00	1.17	18.47	
1/26/2024	39.50	62.90	1.44	19.91	
1/27/2024	42.60	62.40	1.35	21.26	
1/28/2024	41.60	67.90	3.23	24.49	
1/29/2024	42.70	73.90	5.94	30.43	
1/30/2024	44.90	73.90	7.01	37.44	
1/31/2024	51.20	72.50	6.62	44.06	
2/1/2024	47.20	61.90	1.46	45.52	
2/2/2024	43.50	60.30	0.75	46.27	
2/3/2024	39.40	55.30	0.00	46.27	
2/4/2024	47.20	58.90	0.60	46.87	
2/5/2024	45.30	62.60	1.66	48.53	
2/6/2024	45.20	58.30	0.36	48.89	
2/7/2024	40.50	55.60	0.01	48.90	
2/8/2024	39.10	52.60	0.00	48.90	
2/9/2024	34.90	55.10	0.00	48.90	

#### Weather Station Location: Five Points, Fresno

Dete	Air Temperat		Degr	Degree Days		
Date	Min	Max	Daily	Accumulated		
2/10/2024	35.50	55.60	0.01	48.91		
2/11/2024	32.00	59.30	0.35	49.26		
2/12/2024	33.80	62.20	0.94	50.20		
2/13/2024	35.60	62.90	1.22	51.42		
2/14/2024	38.70	64.60	2.02	53.44		
2/15/2024	44.20	59.50	0.64	54.08		
2/16/2024	42.90	62.10	1.57	55.65		
2/17/2024	48.30	60.90	1.39	57.04		
2/18/2024	48.40	66.80	3.90	60.94		
2/19/2024	49.50	67.40	4.00	64.94		
2/20/2024	46.60	65.50	2.70	67.64		
2/21/2024	43.30	63.50	1.69	69.33		
2/22/2024	40.70	64.50	1.96	71.29		
2/23/2024	42.20	64.40	1.96	73.25		
2/24/2024	41.60	70.50	4.05	77.30		
2/25/2024	40.00	72.00	4.87	82.17		
2/26/2024	44.30	61.30	1.16	83.33		
2/27/2024	44.20	62.00	1.20	84.53		
2/28/2024	38.00	68.80	3.27	87.80		
2/29/2024	41.20	66.30	3.17	90.97		
3/1/2024	49.50	63.60	2.48	93.45		
3/2/2024	47.80	55.80	0.03	93.48		
3/3/2024	42.80	60.00	0.65	94.13		
3/4/2024	38.10	60.00	0.73	94.86		
3/5/2024	46.00	66.10	2.85	97.71		
3/6/2024	42.80	65.60	2.70	100.41		
3/7/2024	46.50	63.20	1.70	102.11		
3/8/2024	39.10	66.70	2.59	102.11		
3/9/2024	41.40	68.00	3.39	108.09		
3/10/2024	44.60	68.30	3.53	111.62		
3/11/2024	41.70	68.10	3.72	115.34		
3/12/2024	47.60	67.00	3.29	118.63		
3/13/2024	41.90	64.50	1.93	120.56		
3/14/2024	40.40	67.80	3.06	123.62		
3/15/2024	41.60	70.40	3.84	127.46		
3/16/2024	37.20	72.70	4.72	132.18		
3/17/2024	41.60	73.70	5.47	137.65		
3/18/2024	41.90	77.00	7.29	144.94		
3/19/2024	45.50	79.30	8.81	153.75		
3/20/2024	46.10	78.80	8.61	162.36		
3/20/2024	45.70	74.00	6.63	168.99		
3/22/2024	47.80	79.00	8.60	177.59		
3/23/2024	42.90	63.80	1.72	179.31		
3/24/2024	39.50	61.80	1.01	180.32		
3/25/2024	38.30	66.80	2.43	182.75		
3/26/2024	37.90	68.30	3.01	185.76		
3/27/2024	39.90	72.80	5.98	191.74		
3/28/2024	50.60	64.80	2.95	194.69		
3/29/2024	45.80	63.30	1.93	196.62		
3/30/2024	45.10	63.80	1.96	198.58		
3/31/2024	42.80	66.30	2.60	201.18		

Data	Air Temperatures (		Degree	e Days	
Date	Min	Max	Daily	Accumulated	
4/1/2024	40.60	70.60	4.27	205.45	
4/2/2024	43.50	76.90	7.51	212.96	
4/3/2024	46.30	81.40	9.75	222.71	
4/4/2024	45.00	59.00	0.48	223.19	
4/5/2024	38.10	56.10	0.03	223.22	
4/6/2024	33.00	62.20	1.04	224.26	
4/7/2024	40.50	65.30	2.06	226.32	
4/8/2024	38.50	70.10	3.73	230.05	
4/9/2024	40.50	77.40	7.22	237.27	
4/10/2024	44.60	81.70	10.14	247.41	
4/11/2024	48.30	86.30	13.67	261.08	
4/12/2024	52.40	82.10	10.84	271.92	
4/13/2024	42.70	63.80	1.86	273.78	
4/14/2024	43.20	60.70	0.94	274.72	
4/15/2024	43.50	66.50	3.08	277.80	
4/16/2024	46.40	74.00	8.97	286.77	
4/17/2024	58.80	83.90	14.76	301.53	
4/18/2024	52.20	84.70	14.14	315.67	
4/19/2024	54.70	83.30	13.24	328.91	
4/20/2024	51.20	85.70	13.05	341.96	
4/21/2024	47.80	86.10	13.69	355.65	
4/22/2024	53.30	89.40	15.98	371.63	
4/23/2024	51.40	77.00	9.02	380.65	
4/24/2024	48.80	71.20	6.79	387.44	
4/25/2024	54.20	74.10	8.32	395.76	
4/26/2024	49.70	74.50	6.80	402.56	
4/27/2024	42.50	75.80	6.88	409.44	
4/28/2024	46.00	79.60	8.80	418.24	
4/29/2024	44.40	80.00	8.80	427.04	
4/30/2024	44.60	80.80	9.90	436.94	
5/1/2024	49.40	80.10	9.41	446.35	
5/2/2024	43.30	82.90	10.59	456.94	
5/3/2024	48.60	83.80	10.95	467.89	
5/4/2024	42.80	68.00	3.04	470.93	
5/5/2024	37.10	66.10	2.26	473.19	
5/6/2024	40.30	72.00	4.85	478.04	
5/7/2024	43.90	77.40	8.13	486.17	
5/8/2024	48.80	78.90	8.85	495.02	
5/9/2024	44.10	87.40	13.06	508.08	
5/10/2024	49.90	90.60	16.26	524.34	
5/11/2024	53.20	93.10	18.28	542.62	
5/12/2024	53.60	94.50	19.00	561.62	
5/13/2024	53.30	91.30	17.32	578.94	
5/14/2024	53.20	91.90	18.25	597.19	
5/15/2024	55.90	92.00	19.23	616.42	
5/16/2024	57.00	93.40	19.36	635.78	
5/17/2024	53.60	88.10	16.24	652.02	
5/18/2024	55.10	88.50	16.17	668.19	
5/19/2024	52.40	85.60	13.01	681.20	
5/20/2024	46.30	84.80	11.97	693.17	
5/21/2024	49.00	86.90	13.61	706.78	
J/21/2024	77.00	00.70	15.01	700.70	

Data	Air Tempe	ratures (°F)	Degree Days		
Date	Min	Max	Daily	Accumulated	
5/22/2024	50.00	90.00	16.02	722.80	
5/23/2024	53.40	84.80	13.15	735.95	
5/24/2024	48.30	84.60	11.84	747.79	
5/25/2024	46.90	80.10	9.78	757.57	
5/26/2024	48.80	83.80	12.53	770.10	
5/27/2024	52.40	90.60	17.34	787.44	
5/28/2024	55.60	92.80	18.38	805.82	
5/29/2024	52.10	88.80	15.52	821.34	
5/30/2024	51.90	92.70	18.21	839.55	
5/31/2024	55.30	95.20	20.48	860.03	
6/1/2024	56.20	95.60	20.60	880.63	
6/2/2024	55.00	88.00	17.48	898.11	
6/3/2024	58.90	85.50	16.73	914.84	
6/4/2024	57.00	91.90	21.35	936.19	
6/5/2024	64.60	99.80	27.90	964.09	
6/6/2024	67.40	104.10	29.13	993.22	
6/7/2024	60.90	101.70	25.45	1018.67	
6/8/2024	57.50	92.70	19.75	1038.42	
6/9/2024	56.10	93.90	20.17	1058.59	
6/10/2024	56.80	94.70	22.33	1080.92	
6/11/2024	63.10	100.50	27.42	1108.34	
6/12/2024	65.60	104.50	29.05	1137.39	
6/13/2024	61.60	96.00	22.75	1160.14	
6/14/2024	57.40	94.90	22.03	1182.17	
6/15/2024	60.90	89.60	18.63	1200.80	
6/16/2024	54.40	91.00	19.40	1220.20	
6/17/2024	61.20	84.10	15.07	1235.27	
6/18/2024	50.20	87.30	14.30	1249.57	
6/19/2024	51.40	91.60	17.12	1266.69	
6/20/2024	53.50	91.70	18.29	1284.98	
6/21/2024	56.20	96.00	22.10	1307.08	
6/22/2024	60.20	102.40	27.58	1334.66	
6/23/2024	65.30	102.40	31.38	1366.04	
6/24/2024	69.20	96.60	28.28	1394.32	
6/25/2024	70.70	102.40	30.30	1424.62	
6/26/2024	65.70	97.60	26.10	1450.72	
6/27/2024	63.50	93.50	21.73	1472.45	
6/28/2024	56.40	94.90	21.43	1493.88	
6/29/2024	59.50	99.90	25.15	1519.03	
6/30/2024	61.30	96.10	24.05	1543.08	
7/1/2024	62.70	99.10	28.35	1545.08	
7/2/2024	72.50	101.80	30.40	1601.83	
7/3/2024	65.50	101.30	30.45	1632.28	
7/4/2024	67.70	107.60	32.40	1664.68	
7/5/2024	66.70	107.00	30.90	1695.58	
7/6/2024	66.90	109.50	34.23	1729.81	
7/7/2024	71.00	110.60	34.73	1729.81	
7/8/2024	66.70	109.00	32.43	1796.97	
7/9/2024	65.00	103.90	29.33	1826.30	
7/10/2024	64.50	105.90	31.13	1820.30	
7/11/2024	68.00	100.00	33.68	1891.11	
//11/2024	00.00	109.20	33.00	1071.11	

Data	Air Tempe	ratures (°F)	Degree Days		
Date	Min	Max	Daily	Accumulated	
7/12/2024	68.30	109.00	35.75	1926.86	
7/13/2024	76.70	104.90	34.25	1961.11	
7/14/2024	70.50	103.40	31.63	1992.74	
7/15/2024	69.20	99.90	28.78	2021.52	
7/16/2024	66.10	96.50	24.65	2046.17	
7/17/2024	59.50	94.70	22.30	2068.47	
7/18/2024	60.30	98.50	25.08	2093.55	
7/19/2024	63.00	100.10	27.50	2121.05	
7/20/2024	66.80	104.80	30.42	2151.47	
7/21/2024	65.30	99.10	27.60	2179.07	
7/22/2024	66.90	107.00	32.65	2211.72	
7/23/2024	69.70	109.30	36.03	2247.75	
7/24/2024	75.80	106.50	35.68	2283.43	
7/25/2024	73.90	102.90	31.60	2315.03	
7/26/2024	66.70	104.30	28.38	2343.41	
7/27/2024	58.20	91.10	19.15	2362.56	
7/28/2024	56.20	92.80	20.45	2383.01	
7/29/2024	60.00	94.40	22.15	2405.16	
7/30/2024	59.80	94.70	22.78	2427.94	
7/31/2024	61.90	96.70	25.15	2453.09	
8/1/2024	65.30	102.50	29.83	2482.92	
8/2/2024	69.00	93.50	26.10	2509.02	
8/3/2024	68.40	102.20	30.30	2539.32	
8/4/2024	68.40	104.40	30.88	2570.20	
8/5/2024	66.30	102.10	28.87	2599.07	
8/6/2024	65.00	103.80	29.95	2629.02	
8/7/2024	67.20	107.10	31.58	2660.60	
8/8/2024	64.90	101.00	27.70	2688.30	
8/9/2024	63.90	102.60	28.50	2716.80	
8/10/2024	64.90	101.00	27.95	2744.75	
8/11/2024	64.90	101.20	27.33	2772.08	
8/12/2024	62.00	96.80	23.33	2795.41	
8/13/2024	57.70	94.60	20.98	2816.39	
8/14/2024	57.00	94.30	21.20	2837.59	
8/15/2024	59.20	95.40	21.58	2859.17	
8/16/2024	56.30	96.00	21.95	2881.12	
8/17/2024	59.50	91.90	21.50	2902.62	
8/18/2024	62.70	89.60	20.23	2922.85	
8/19/2024	59.00	92.30	20.20	2943.05	
8/20/2024	57.20	93.90	21.40	2964.45	
8/21/2024	60.60	93.70	21.50	2985.95	
8/22/2024	58.00	89.40	18.28	3004.23	
8/23/2024	56.30	79.50	14.60	3018.83	
8/24/2024	63.10	82.30	15.75	3034.58	
8/25/2024	55.30	84.40	14.35	3048.93	
8/26/2024	53.20	92.10	18.60	3067.53	
8/27/2024	56.90	96.20	22.15	3089.68	
8/28/2024	59.30	98.20	23.55	3113.23	
8/29/2024	59.50	96.30	22.50	3135.73	
8/30/2024	58.90	96.20	22.30	3158.48	
8/31/2024	59.70	96.30	23.60	3182.08	
0/31/2024	39.70	90.30	23.00	3102.08	

Data	Air Tempe	ratures (°F)	Degree Days		
Date	Min	Max	Daily	Accumulated	
9/1/2024	62.10	98.00	25.13	3207.21	
9/2/2024	62.40	92.70	22.03	3229.24	
9/3/2024	60.30	97.30	23.78	3253.02	
9/4/2024	60.20	104.50	28.90	3281.92	
9/5/2024	66.40	101.40	29.00	3310.92	
9/6/2024	66.80	101.60	28.62	3339.54	
9/7/2024	64.50	100.70	28.00	3367.54	
9/8/2024	66.10	101.50	27.88	3395.42	
9/9/2024	62.40	104.30	27.10	3422.52	
9/10/2024	57.40	92.90	18.77	3441.29	
9/11/2024	51.60	89.00	16.70	3457.99	
9/12/2024	56.90	83.90	14.37	3472.36	
9/13/2024	52.60	90.20	16.89	3489.25	
9/14/2024	54.40	93.20	18.66	3507.91	
9/15/2024	53.80	87.50	14.97	3522.88	
9/16/2024	50.50	74.80	7.56	3530.44	
9/17/2024	47.00	80.10	10.77	3541.21	
9/18/2024	53.90	80.90	13.31	3554.52	
9/19/2024	57.50	83.70	14.57	3569.09	
9/20/2024	53.30	86.90	15.72	3584.81	
9/21/2024	55.70	91.10	19.20	3604.01	
9/22/2024	58.90	93.00	20.83	3624.84	
9/23/2024	58.40	96.20	22.42	3647.26	
9/24/2024	58.90	102.60	25.78	3673.04	
9/25/2024	59.00	91.90	19.25	3692.29	
9/26/2024	54.20	90.10	16.84	3709.13	
9/27/2024	52.80	92.80	18.23	3727.36	
9/28/2024	54.40	93.90	19.65	3747.01	
9/29/2024	56.40	91.60	19.05	3765.23	
9/30/2024	53.20	92.80	18.75	3783.98	
10/1/2024	56.10	97.70	22.63	3806.61	
10/2/2024	59.00	100.60	24.55	3831.16	
10/2/2024	58.00	100.00	25.63	3856.79	
10/4/2024	60.90	101.30	26.38	3883.17	
10/4/2024	64.20	97.60	20.38	3907.97	
10/6/2024	59.80	97.80	23.73	3931.70	
10/7/2024	59.50	98.40	23.43	3955.13	
10/8/2024	57.40	95.00	21.28	3976.41	
10/9/2024	57.70	94.30	20.45	3996.86	
10/9/2024	55.50	94.30 87.20	16.01	4012.87	
10/11/2024	54.10	91.00	18.06	4012.87	
10/11/2024	56.10	83.90	16.20	4030.93	
10/12/2024	60.90	83.90	15.18	4047.13	
10/13/2024	55.00	84.10	13.18	4076.50	
10/14/2024	53.50	84.10 85.60	14.19	4076.50	
10/13/2024	52.70	80.00	14.41	4101.82	
10/17/2024	49.90	79.20	9.50	4101.82 4111.32	
10/18/2024	46.70	72.10	5.02	4116.34	
10/19/2024	38.00	78.40	7.01	4123.35	
10/20/2024	40.60	85.80	10.85	4134.20	
10/21/2024	43.50	85.20	11.37	4145.57	

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
10/22/2024	46.60	83.00	10.41	4155.98
10/23/2024	44.00	81.40	9.49	4165.47
10/24/2024	45.30	77.90	7.54	4173.01
10/25/2024	40.60	80.10	8.44	4181.45
10/26/2024	44.70	80.40	9.91	4191.36
10/27/2024	50.50	76.40	8.13	4199.49
10/28/2024	45.50	70.30	4.19	4203.68
10/29/2024	38.40	68.30	2.83	4206.51
10/30/2024	35.50	71.20	3.84	4210.35
10/31/2024	38.40	69.00	3.17	4213.52
11/1/2024	37.70	68.10	3.31	4216.83
11/2/2024	45.50	68.30	3.77	4220.60
11/3/2024	44.20	68.80	3.62	4224.22
11/4/2024	40.50	68.40	3.06	4227.28
11/5/2024	37.40	70.30	3.69	4230.97
11/6/2024	39.70	69.60	3.27	4234.24
11/7/2024	33.90	71.90	3.77	4238.01
11/8/2024	34.10	74.10	4.63	4242.64
11/9/2024	35.30	72.80	4.21	4246.85
11/10/2024	35.00	73.60	4.50	4251.35
11/10/2021	35.40	68.40	2.68	4254.03
11/12/2024	34.40	59.70	0.41	4254.44
11/12/2024	31.30	65.50	1.79	4256.23
11/13/2024	37.40	65.60	1.88	4258.11
11/15/2024	33.90	61.10	0.63	4258.74
11/16/2024	28.60	59.10	0.03	4259.01
11/17/2024	27.70	62.40	1.01	4260.02
11/18/2024	40.20	60.60	0.64	4260.66
11/19/2024	29.40	60.00	0.55	4260.00
11/20/2024	41.90	74.10	5.48	4266.69
11/20/2024	39.60	80.00	8.14	4200.09
11/21/2024	43.40	79.70	9.69	4274.83
11/22/2024	51.90	65.10	2.96	4284.32
11/23/2024	40.30	65.10	2.63	4290.11
11/24/2024	40.30	58.00	0.57	4290.68
11/26/2024	<u>49.20</u> 50.90	57.00	0.22	4290.08
		-		4290.90
11/27/2024	39.50	57.80	0.19	
11/28/2024	33.20	56.60	0.05	4291.14
11/29/2024	31.80	50.80	0.00	4291.14
11/30/2024	34.40	54.10	0.00	4291.14
12/1/2024	43.00	63.60	1.60	4292.74
12/2/2024	37.40	64.60	1.63	4294.37
12/3/2024	35.00	64.50	1.54	4295.91
12/4/2024	35.50	64.80	1.69	4297.60
12/5/2024	37.20	65.90	1.98	4299.58
12/6/2024	34.50	66.10	1.92	4301.50
12/7/2024	33.60	62.00	1.01	4302.51
12/8/2024	40.90	62.20	1.10	4303.61
12/9/2024	35.80	52.30	0.00	4303.61
12/10/2024	33.30	58.30	0.20	4303.81
12/11/2024	29.40	58.60	0.26	4304.07

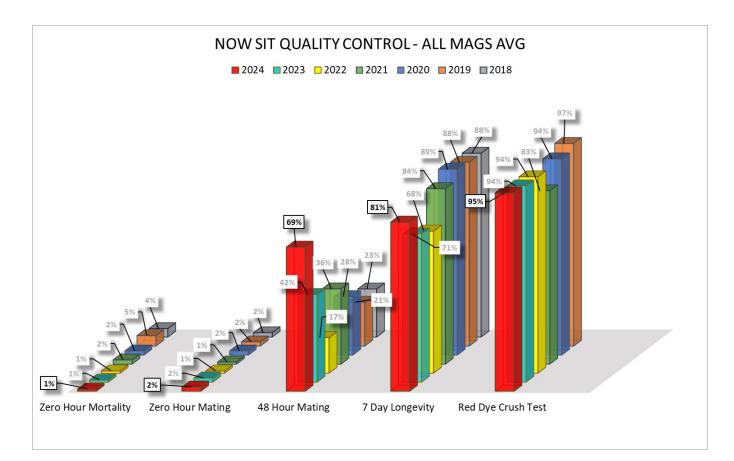
Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
12/12/2024	36.90	56.80	0.08	4304.15
12/13/2024	35.50	60.30	0.62	4304.77

### 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 2024 SIT season's average QC results from samples of sterile NOW moths for Mag 1, primarily released over Zones 2, 5, 7 and 8, between the period of <u>Wednesday</u>, <u>March 20, 2024</u> to <u>Sunday</u>, <u>October 27, 2024</u>.

### 2024 Season Averages:

- 1% of moths from samples found dead at zero hour
- 2% of moths from samples found to have mated at zero hour
- 69% of moths from samples found to have mated after forty-eight hours
- 81% of moths from samples remained alive after seven days in BioChamber
- 95% of moths from samples found to have distinct red dye markings



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