# Navel Orangeworm Pilot Project 2022 – Weekly Report

Weeks Ending - November 11, November 18, and November 25, 2022

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### I. Project Updates

#### **Navel Orangeworm Sterile Insect Technique**

The Navel Orangeworm (NOW) Pilot Project (Project) utilizes NOW sterile insect technique (SIT) moths obtained from the United States Department of Agriculture (USDA) Phoenix, Arizona Rearing Facility. Quality Control (QC) tests are performed on every shipment of NOW SIT moths used for aerial releases.

Aerial releases for 2022 began on March 15, 2022 and concluded on October 15, 2022, with one magazine of approximately 750,000 moths being released daily over Zones 1 and 3. A second magazine of approximately 750,000 moths began being released daily on May 28 over Zones 5 and 7 with regular releases being diverted to separate sites for research purposes.

From March 15 to April 4, aerial releases were conducted on the same day the magazines were received in California. Since April 6, aerial releases have been conducted the day after the magazines were received in California; meaning the magazines were kept overnight in cold-storage prior to being released the following morning. This change in the aerial release schedule was due to changes to the airline's flight schedule from Phoenix, AZ to Bakersfield, CA that the Program uses to ship magazines from the Phoenix Rearing Facility to the CDFA Shafter field office. This next-day aerial release schedule continued for the remainder of the season.

CDFA conducted ground releases in lieu of aerial releases when release aircrafts were unavailable due to maintenance or repairs. In 2022, ground releases were conducted during the month of June and were limited to one magazine released at one zone per day, along the north and west edges of the zone. Ground releases occurred only at Zones 1 and 3 during weekdays, alternating the zones each day. No ground releases were conducted on weekends due to staff shortages.

Listed below are any circumstances which prevented or altered regular aerial releases in 2022:

- <u>Saturday, March 19:</u> No aerial release conducted due to severe weather conditions; magazine held an extra night in the cold room to be released the following day
- Sunday, March 20: Double release; today's magazine and magazine from previous day released
- <u>Tuesday, March 22:</u> Shipment of moths not transferred through airlines; this shipment was transferred next day
- Wednesday, March 23: Double release; today's magazine and magazine from previous day released
- Monday, March 28: No aerial release conducted due to severe weather conditions; magazine held an extra night in the cold room to be released the following day
- Tuesday, March 29: Double release; today's magazine and magazine from previous day released

- Tuesday, April 5: No aerial release conducted due to release schedule change from same-day release to next-day release
- <u>Saturday, April 23</u>: Shipment of moths not transferred through airlines; this shipment was destroyed
- Sunday, April 24: No aerial release due to shipment of moths not being transferred through airlines
- <u>Saturday, April 30</u>: Shipment of moths not transferred through airlines; this shipment was held overnight in Phoenix and shipped on May 1
- Sunday, May 1: No aerial release due to shipment of moths not being transferred through airlines
- Monday, May 2: Both shipments from April 30 and May 1 released
- Saturday, May 14: Shipment destroyed at rearing facility due to issue with irradiation
- Sunday, May 15: No aerial release due to issue with irradiation
- Monday, May 30 Wednesday, June 8: No aerial releases due to issues with release aircrafts
- <u>Thursday, June 9 Friday, June 10</u>: Ground releases conducted due to ongoing issues with release aircrafts; ground release conducted at Zone 1 on June 9 and at Zone 3 on June 10
- <u>Saturday, June 11 Sunday, June 12</u>: No releases conducted due to lack of personnel needed to operate ground release equipment
- Monday, June 13 Friday, June 17: Ground releases conducted due to ongoing issues with release aircrafts; ground release conducted at Zone 1 on June 13, 15, and 17; and at Zone 3 on June 14 and 16
- <u>Saturday, June 18 Sunday, June 19</u>: No releases conducted due to lack of personnel needed to operate ground release equipment
- Monday, June 20: Aerial release conducted for one magazine only; shipments not sent through airlines due to issue at rearing facility
- Tuesday, June 21: No releases due to shipment of moths not being transferred through airlines
- Saturday, June 25 Monday, June 27: No releases due to issues with release machine
- Tuesday, June 28: Ground release conducted at Zone 1 due to ongoing issues with release machine
- Wednesday, June 29: No releases due to shipments of moths not being transferred through airlines
- Thursday, June 30: Single aerial release conducted over Zones 1 and 3
- Sunday, August 7: No shipments of moths transferred due to airline flight cancellations
- Monday, August 8: No releases due to airline flight cancellations
- Monday, August 15: No shipments of moths transferred due to airline flight cancellations
- <u>Tuesday</u>, <u>August 16</u>: No releases due to airline flight cancellations

- Sunday, August 21: No shipments of moths transferred due to airline flight cancellations
- Monday, August 22: No releases due to airline flight cancellations
- Tuesday, August 23: No releases due to issues with cold room where moths are stored
- Sunday, August 28: No shipments of moths transferred due to airline flight cancellations
- Monday, August 29: No releases due to airline flight cancellations
- Sunday, September 4: No shipments of moths transferred due to airline flight cancellations
- <u>Monday, September 5</u>: No shipments of moths transferred due to airline flight cancellations; No releases due to airline flight cancellations
- <u>Tuesday, September 6</u>: No releases due to airline flight cancellations

#### **Navel Orangeworm Trapping**

The NOW trapping program began May 5, 2020, with an Area Wide Project site that included a total of four orchards in Fresno County: two 640-acre almond orchards and two 640-acre pistachio orchards. On May 17, 2021, the Area Wide Project site expanded to include four additional orchards in Fresno County: one 640-acre almond orchard, one 640-acre pistachio orchard, one 160-acre almond orchard, and one 160-acre pistachio orchard. All eight orchards, designated as Zones 1 through 8, were serviced on a weekly basis.

Listed below are any circumstances which prevented regular servicing in 2022:

- Week of January 7: No traps were serviced due to severe weather on site
- Week of January 14: No traps were serviced in Zones 1-4 due to staffing issues
- Week of February 25: No traps were serviced in Zone 1 due to pesticide applications on site
- Week of March 4: No traps were serviced in Zone 2 due to pesticide applications on site
- Week of March 11: Only 26 of the 72 traps were serviced in Zone 2 due to pesticide applications on site
- Week of April 1: Only Zones 3 and 4 were serviced this week due to severe weather on site
- Week of April 22: No traps were serviced in Zone 2 due to pesticide applications on site
- Week of May 20: No traps were serviced in Zone 4 due to pesticide applications on site
- Week of May 27: No traps were serviced in Zone 2 due to pesticide applications on site
- Week of June 10: No traps were serviced in Zone 4 due to staffing issues
- Week of July 15: No traps were serviced in Zone 4 due to pesticide applications on site
- Week of July 29: No traps were serviced in Zones 2 and 7 due to pesticide applications on site
- Week of August 5: No traps were serviced in Zone 3 due to pesticide applications on site
- Week of August 12: No traps were serviced in Zone 5 due to pesticide applications on site

- Week of September 2: No traps were serviced in Zones 6 and 8 due to staffing issues
- Week of September 23: No traps were serviced in Zones 2, 3, and 4 due to severe weather on site
- Week of October 28: No traps were serviced in Zone 4 due to pesticide applications on site
- Week of November 4: No traps were serviced in Zones 2, 3, and 4 due to staffing issues
- Week of November 11: No traps were serviced due to severe weather on site
- Week of November 18: All traps were removed from Zone 8 on November 15 due to trees being uprooted

# II. Project Design

The NOW Area Wide Project site includes eight orchards located in Fresno County, identified as Zones 1 through 8. Listed below is information related to each orchard:

Zone #	Crop Type	Acres	Aerial SIT Release/Non-Release	Date Added to Area Wide Project
Zone 1	Pistachio	640	Release	May 5, 2020
Zone 2	Pistachio	640	Non-Release	May 5, 2020
Zone 3	Almond	640	Release	May 5, 2020
Zone 4	Almond	640	Non-Release	May 5, 2020
Zone 5	Pistachio	640	Release	May 17, 2021
Zone 6	Pistachio	160	Non-Release	May 17, 2021
Zone 7	Almond	640	Release	May 17, 2021
Zone 8	Almond	160	Non-Release	May 17, 2021

Each zone has a trap site ratio of approximately 1 trap site per 18 acres for a total of 36 trap sites for each 640-acre zone and 9 trap sites for each 160-acre zone. Trap sites include two traps: one trap baited with NOW pheromone/PPO lures and one trap baited with pistachio meal. 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 Weeks Ending on November 11, November 18, and November 25, 2022

#### Zone 1

Zone 1 is a pistachio orchard where aerial NOW SIT releases were conducted. No traps were collected from Zone 1 during the week of <u>November 11</u> due to severe weather on site.

A total of **72** traps were collected from Zone 1 on <u>Monday, November 14</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 1 on <u>Monday, November 21</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

	Zone 1 - Pistachio											
		P		Meal Bait								
	# of				i i i i i i i i i i i i i i i i i i i							
	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 27 - Jan 19	0	0	1	1	0	1	1	0				
Jan 19 - Jan 24	0	0	0	0	0	0	0	0				
Jan 24 - Jan 31	0	0	0	0	0	0	0	0				
Jan 31 - Feb 7	0	0	0	0	0	0	0	0				
Feb 7 - Feb 14	0	0	54	54	0	191	191	0				
<sup>2</sup> Feb 14 - Feb 28	0	0	13	13	0	245	245	0				
Feb 28 - Mar 7	0	0	57	57	0	1028	1028	0				
Mar 7 - Mar 14	0	0	99	99	0	950	950	16				
Mar 14 - Mar 21	7	0	36	36	0	2070	2070	0				
<sup>3</sup> Mar 21 - Apr 4	15	1	72	73	16	2079	2095	11				
Apr 4 - Apr 11	7	3	37	40	16	1495	1511	20				
Apr 11 - Apr 18	8	0	63	63	2	414	416	38				
Apr 18 - Apr 26	8	0	57	57	7	438	445	36				
Apr 26 - May 2	6	0	6	6	0	276	276	264				
May 2 - May 9	8	0	9	9	0	78	78	373				
May 9 - May 16	7	1	33	34	2	155	157	23				
May 16 - May 23	8	1	36	37	8	129	137	67				
May 23 - May 31	7	0	7	7	1	17	18	13				
May 31 - Jun 6	0	2	3	5	0	52	52	92				
Jun 6 - Jun 13	2	1	2	3	3	208	211	428				
Jun 13 - Jun 20	4	4	12	16	2	301	303	530				
Jun 20 - Jun 27	4	1	9	10	7	905	912	115				
Jun 27 - Jul 6	8	5	7	12	14	633	647	87				
Jul 6 - Jul 11	6	1	6	7	90	496	586	72				
Jul 11 - Jul 18	8	9	7	16	143	277	420	35				
Jul 18 - Jul 25	8	13	18	31	0	2	2	0				
Jul 25 - Aug 1	8	1	0	1	53	71	124	5				
Aug 1 - Aug 8	7	5	45	50	262	28	290	0				
Aug 8 - Aug 15	7	2	2	4	6	31	37	0				
Aug 15 - Aug 22	6	0	0	0	0	4	4	0				
Aug 22 - Aug 29	5	5	14	19	13	1	14	0				
Aug 29 - Sep 6	6	5	46	51	15	21	36	0				
Sep 6 - Sep 12	6	1	11	12	15	293	308	12				

Sep 12 - Sep 22	11	5	65	70	4	117	121	0
Sep 22 – Sep 26	5	0	11	11	0	27	27	7
Sep 26 – Oct 3	8	1	11	12	3	253	256	3
Oct 3 – Oct 10	8	0	6	6	0	124	124	15
Oct 10 – Oct 17	6	0	10	10	0	10	10	1
Oct 17 – Oct 24	0	0	3	3	0	3	3	1
Oct 24 – Oct 31	0	0	2	2	0	9	9	0
<sup>4</sup> Oct 31 – Nov 14	0	0	1	1	0	1	1	0
Nov 14 – Nov 21	0	0	0	0	0	0	0	0

<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 1 during the week of Nov 11 due to severe weather on site

	Zone 1 - Pistachio											
		Phero	mone/PP	O Lure Ba	aited Traps							
	# of Releases During											
Dates Traps in	Trap	Male	Male	Male	Female	Female	Female	*Non-ID				
Field  Dec 27 - Jan 19	Period	Sterile	Wild	Total	Sterile	Wild	Total	Total				
	0	0	15	15	0	0	0	0				
Jan 19 - Jan 24	0	0	1	1	0	0	0	0				
Jan 24 - Jan 31	0	0	3	3	0	0	0	0				
Jan 31 - Feb 7	0	0	0	0	0	0	0	0				
Feb 7 - Feb 14	0	0	139	139	0	4	4	0				
<sup>2</sup> Feb 14 - Feb 28	0	0	52	52	0	12	12	1				
Feb 28 - Mar 7	0	0	166	166	0	121	121	9				
Mar 7 - Mar 14	0	0	297	297	0	48	48	2				
Mar 14 - Mar 21	7	24	1772	1796	0	391	391	0				
<sup>3</sup> Mar 21 - Apr 4	15	44	1659	1703	16	803	819	4				
Apr 4 - Apr 11	7	5	764	769	3	551	554	5				
Apr 11 - Apr 18	8	3	866	869	2	120	122	0				
Apr 18 - Apr 26	8	5	617	622	0	172	172	0				
Apr 26 - May 2	6	5	199	204	0	134	134	7				
May 2 - May 9	8	3	223	226	0	245	245	81				
May 9 - May 16	7	4	202	206	0	64	64	11				
May 16 - May 23	8	29	210	239	2	126	128	2				
May 23 - May 31	7	0	12	12	0	7	7	65				
May 31 - Jun 6	0	1	17	18	4	20	24	0				
Jun 6 - Jun 13	2	9	300	309	2	178	180	82				
Jun 13 - Jun 20	4	12	248	260	10	287	297	64				
Jun 20 - Jun 27	4	8	637	645	0	788	788	6				
Jun 27 - Jul 6	8	4	886	890	1	889	890	3				
Jul 6 - Jul 11	6	375	1181	1556	5	249	254	3				
Jul 11 - Jul 18	8	737	960	1697	10	454	464	0				
Jul 18 - Jul 25	8	14	171	185	0	2	2	0				
Jul 25 - Aug 1	8	7	540	547	3	432	435	4				
Aug 1 - Aug 8	7	73	138	211	0	2	2	0				

<sup>&</sup>lt;sup>1</sup>18 of the 36 traps in field since Dec 20; 18 of the 36 traps in field since Dec 27

<sup>&</sup>lt;sup>2</sup>Traps in field for two weeks

<sup>&</sup>lt;sup>3</sup>Traps not serviced in Zone 1 during the week of Apr 1 due to severe weather on site

Aug 8 - Aug 15	7	78	171	249	0	1	1	0
Aug 15 - Aug 22	6	0	33	33	0	1	1	0
Aug 22 - Aug 29	5	1	74	75	0	1	1	0
Aug 29 - Sep 6	6	66	1280	1346	0	65	65	0
Sep 6 - Sep 12	6	40	817	857	19	697	716	34
Sep 12 - Sep 22	11	1	396	397	29	504	533	0
Sep 22 – Sep 26	5	0	314	314	1	56	57	0
Sep 26 – Oct 3	8	50	1516	1566	35	1269	1304	42
Oct 3 – Oct 10	8	67	630	697	49	569	618	24
Oct 10 – Oct 17	6	9	447	456	6	314	320	3
Oct 17 – Oct 24	0	0	47	47	0	60	60	0
Oct 24 – Oct 31	0	0	81	81	1	18	19	1
<sup>4</sup> Oct 31 – Nov 14	0	0	13	13	0	6	6	0
Nov 14 – Nov 21	0	0	0	0	0	0	0	0

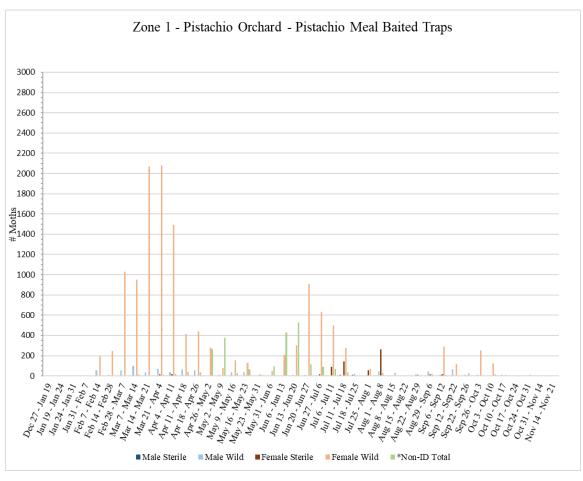
<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

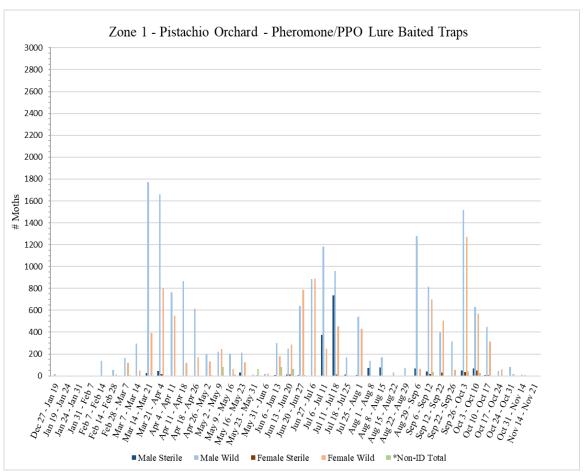
118 of the 36 traps in field since Dec 20; 18 of the 36 traps in field since Dec 27

<sup>2</sup>Traps in field for two weeks

<sup>&</sup>lt;sup>3</sup>Traps not serviced in Zone 1 during the week of Apr 1 due to severe weather on site

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 1 during the week of Nov 11 due to severe weather on site





Zone 2 is a pistachio orchard where aerial NOW SIT releases were not conducted. No traps were collected from Zone 2 during the week of <u>November 11</u> due to severe weather on site.

A total of **72** traps were collected from Zone 2 on <u>Tuesday, November 15</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 2 on <u>Tuesday, November 22</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

	Zone 2 - Pistachio											
		Pi	istachio N	Meal Bait	ed Traps							
	# of				<u>.</u>							
	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 21 - Jan 20	0	0	0	0	0	2	2	0				
Jan 20 - Jan 25	0	0	0	0	0	0	0	0				
Jan 25 - Feb 1	0	0	0	0	0	0	0	0				
Feb 1 - Feb 8	0	0	0	0	0	0	0	0				
Feb 8 - Feb 15	0	0	45	45	0	335	335	0				
Feb 15 - Feb 22	0	0	49	49	0	360	360	19				
<sup>2</sup> Feb 22 - Mar 11	0	0	61	61	0	318	318	0				
<sup>3</sup> Mar 11 - Mar 15	0	0	69	69	0	790	790	0				
Mar 15 - Mar 22	0	0	73	73	0	1893	1893	9				
<sup>4</sup> Mar 22 - Apr 5	0	0	106	106	0	2033	2033	27				
Apr 5 - Apr 12	0	0	138	138	0	1091	1091	98				
<sup>5</sup> Apr 12 - Apr 27	0	0	69	69	0	373	373	236				
Apr 27 - May 3	0	0	38	38	0	442	442	370				
May 3 - May 10	0	0	21	21	0	237	237	320				
May 10 - May 18	0	0	39	39	0	345	345	434				
<sup>6</sup> May 18 - Jun 1	0	0	1	1	0	265	265	45				
Jun 1 - Jun 7	0	0	4	4	0	189	189	365				
Jun 7 - Jun 14	0	0	3	3	0	309	309	677				
Jun 14 - Jun 22	0	1	89	90	0	336	336	211				
Jun 22 - Jun 28	0	0	118	118	1	604	605	26				
Jun 28 - Jul 7	0	0	13	13	0	500	500	50				
Jul 7 - Jul 12	0	0	11	11	0	459	459	34				
Jul 12 - Jul 19	0	0	28	28	0	160	160	11				
<sup>7</sup> Jul 19 - Aug 2	0	0	38	38	0	21	21	0				
Aug 2 - Aug 9	0	0	32	32	0	12	12	3				
Aug 9 - Aug 16	0	0	10	10	0	19	19	0				
Aug 16 - Aug 24	0	0	2	2	0	15	15	0				
Aug 24 - Aug 30	0	0	1	1	0	9	9	0				
Aug 30 - Sep 7	0	1	8	9	0	52	52	0				
Sep 7 – Sep 13	0	0	23	23	0	136	136	0				
<sup>8</sup> Sep 13 – Sep 27	0	3	61	64	4	46	50	0				
Sep 27 – Oct 4	0	0	133	133	2	31	33	0				
Oct 4 – Oct 11	0	0	4	4	0	119	119	33				
Oct 11 – Oct 18	0	0	4	4	0	0	0	7				
Oct 18 – Oct 26	0	0	1	1	0	16	16	4				

<sup>9</sup> Oct 26 – Nov 15	0	0	4	4	0	2	2	0		
Nov 15 – Nov 22										
*Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing										
		1	Traps in	field sinc	e 12/21			<u> </u>		
<sup>2</sup> Onl	ly 13 of the 3	6 traps sei	viced thi	s week di	ie to pestici	de applicat	ions on site	;		
<sup>3</sup> 13 (	of the 36 trap	s in field s	since Mar	: 11; 23 o	f the 36 trap	s in field s	ince Feb 22	2		
<sup>4</sup> Traps	not serviced	in Zone 2	during th	e week o	f Apr 1 due	to severe v	veather on	site		
<sup>5</sup> Traps not	<sup>5</sup> Traps not serviced in Zone 2 during the week of Apr 22 due to pesticide applications on site									
<sup>6</sup> Traps not serviced in Zone 2 during the week of May 27 due to pesticide applications on site										
<sup>7</sup> Traps not serviced in Zone 2 during the week of Jul 29 due to pesticide applications on site										
<sup>8</sup> Traps r	<sup>8</sup> Traps not serviced in Zone 2 during the week of Sep 23 due to severe weather on site									

<sup>9</sup>Traps not serviced in Zone 2 during the week of Nov 4 due to staffing issues; Traps not serviced in Zone 2 during the week of Nov 11 due to severe weather on site

Zone 2 - Pistachio											
		Phero	omone/PF	O Lure I	Baited Traps						
	# of										
	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 21 - Jan 20	0	0	9	9	0	0	0	0			
Jan 20 - Jan 25	0	0	3	3	0	0	0	0			
Jan 25 - Feb 1	0	0	8	8	0	0	0	0			
Feb 1 - Feb 8	0	0	3	3	0	0	0	0			
Feb 8 - Feb 15	0	0	49	49	0	7	7	0			
Feb 15 - Feb 22	0	0	106	106	0	15	15	0			
<sup>2</sup> Feb 22 - Mar 11	0	0	80	80	0	20	20	0			
<sup>3</sup> Mar 11 - Mar 15	0	0	351	351	0	103	103	0			
Mar 15 - Mar 22	0	0	1781	1781	0	483	483	0			
<sup>4</sup> Mar 22 - Apr 5	0	0	1771	1771	0	1061	1061	0			
Apr 5 - Apr 12	0	0	631	631	0	699	699	1			
<sup>5</sup> Apr 12 - Apr 27	0	0	791	791	0	282	282	91			
Apr 27 - May 3	0	0	689	689	0	184	184	124			
May 3 - May 10	0	3	867	870	3	430	433	248			
May 10 - May 18	0	0	569	569	0	372	372	250			
<sup>6</sup> May 18 - Jun 1	0	0	1268	1268	0	314	314	9			
Jun 1 - Jun 7	0	0	77	77	0	116	116	19			
Jun 7 - Jun 14	0	0	660	660	0	393	393	307			
Jun 14 - Jun 22	0	0	1277	1277	1	639	640	32			
Jun 22 - Jun 28	0	3	1150	1153	0	705	705	6			
Jun 28 - Jul 7	0	0	800	800	0	416	416	4			
Jul 7 - Jul 12	0	6	2806	2812	0	280	280	8			
Jul 12 - Jul 19	0	12	1965	1977	5	457	462	22			
<sup>7</sup> Jul 19 - Aug 2	0	0	116	116	0	0	0	0			
Aug 2 - Aug 9	0	56	940	996	1	175	176	0			
Aug 9 - Aug 16	0	1	309	310	0	13	13	0			
Aug 16 - Aug 24	0	12	233	245	0	11	11	0			
Aug 24 - Aug 30	0	0	35	35	0	0	0	0			
Aug 30 - Sep 7	0	7	2581	2588	0	30	30	0			

Sep 7 – Sep 13	0	0	1700	1700	0	1197	1197	0
<sup>8</sup> Sep 13 – Sep 27	0	2	1296	1298	0	190	190	0
Sep 27 – Oct 4	0	0	1868	1868	0	454	454	0
Oct 4 – Oct 11	0	9	1181	1190	8	519	527	2
Oct 11 – Oct 18	0	19	600	619	29	420	449	49
Oct 18 – Oct 26	0	0	90	90	0	17	17	0
<sup>9</sup> Oct 26 – Nov 15	0	0	124	124	0	4	4	0
Nov 15 – Nov 22	0	0	2	2	0	0	0	0

\*Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

<sup>1</sup>Traps in field since 12/21

<sup>2</sup>Only 13 of the 36 traps serviced this week due to pesticide applications on site

<sup>3</sup>13 of the 36 traps in field since Mar 11; 23 of the 36 traps in field since Feb 22

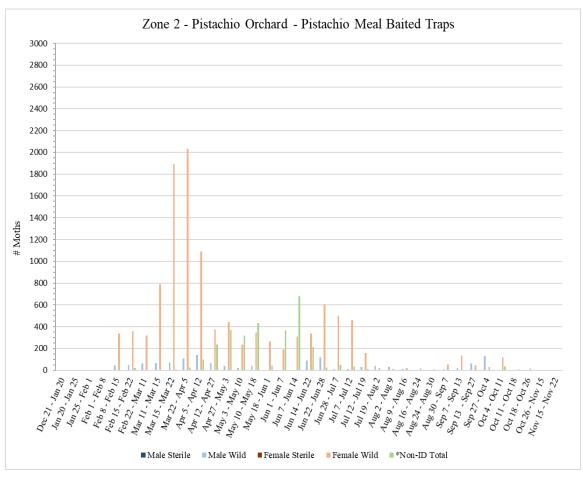
<sup>4</sup>Traps not serviced in Zone 2 during the week of Apr 1 due to severe weather on site <sup>5</sup>Traps not serviced in Zone 2 during the week of Apr 22 due to pesticide applications on site

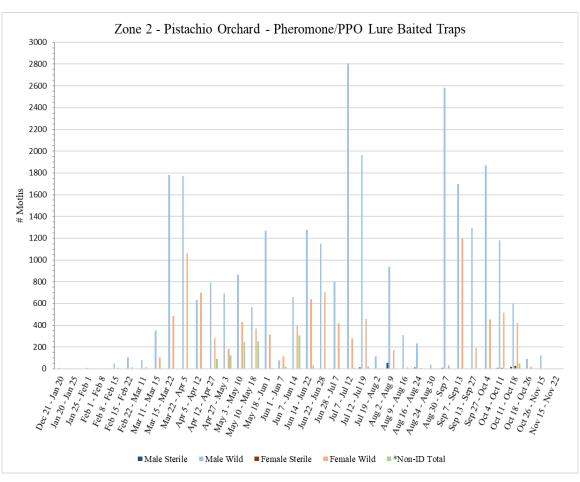
<sup>6</sup>Traps not serviced in Zone 2 during the week of May 27 due to pesticide applications on site

Traps not serviced in Zone 2 during the week of Jul 29 due to pesticide applications on site

<sup>8</sup>Traps not serviced in Zone 2 during the week of Sep 23 due to severe weather on site

<sup>9</sup>Traps not serviced in Zone 2 during the week of Nov 4 due to staffing issues; Traps not serviced in Zone 2 during the week of Nov 11 due to severe weather on site





Zone 3 is an almond orchard where aerial NOW SIT releases were conducted. No traps were collected from Zone 3 during the week of <u>November 11</u> due to severe weather on site.

A total of **60** traps were collected from Zone 3 on <u>Wednesday</u>, <u>November 16</u>, with **30** pistachio meal baited traps and **30** pheromone/PPO lure traps. 12 of the 72 traps were missing during this week.

A total of **62** traps were collected from Zone 3 on <u>Wednesday</u>, <u>November 23</u>, with **31** pistachio meal baited traps and **31** pheromone/PPO lure traps. 10 of the 72 traps were missing during this week.

	Zone 3 - Almond											
		Pi	stachio N	Aeal Bait	ed Traps							
	# of				1							
	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 22 - Jan 21	0	0	0	0	0	0	0	0				
Jan 21 - Jan 26	0	0	0	0	0	0	0	0				
Jan 26 - Feb 2	0	0	0	0	0	0	0	0				
Feb 2 - Feb 9	0	0	0	0	0	0	0	0				
Feb 9 - Feb 16	0	0	0	0	0	0	0	0				
Feb 16 - Feb 23	0	0	0	0	0	0	0	0				
Feb 23 - Mar 2	0	0	1	1	0	0	0	0				
Mar 2 - Mar 9	0	0	0	0	0	3	3	0				
Mar 9 - Mar 16	2	0	4	4	0	9	9	0				
Mar 16 - Mar 23	8	0	0	0	0	24	24	0				
Mar 23 - Mar 30	9	0	5	5	0	45	45	0				
Mar 30 - Apr 6	7	0	0	0	0	39	39	0				
Apr 6 - Apr 13	8	0	2	2	0	52	52	0				
Apr 13 - Apr 19	7	0	0	0	0	59	59	0				
Apr 19 - Apr 25	6	1	1	2	2	34	36	0				
Apr 25 - May 4	9	0	1	1	4	84	88	0				
May 4 - May 11	8	0	6	6	0	6	6	2				
May 11 - May 17	6	0	0	0	1	17	18	1				
May 17 - May 25	9	0	7	7	0	17	17	8				
May 25 - Jun 2	5	5	3	8	6	14	20	12				
Jun 2 - Jun 8	0	3	1	4	2	29	31	8				
Jun 8 - Jun 15	2	4	11	15	6	87	93	16				
Jun 15 - Jun 22	3	1	13	14	5	62	67	2				
Jun 22 - Jun 29	3	0	5	5	4	55	59	0				
Jun 29 - Jul 5	6	0	0	0	1	14	15	0				
Jul 5 - Jul 13	9	4	4	8	13	58	71	0				
Jul 13 - Jul 20	8	2	3	5	4	12	16	0				
Jul 20 - Jul 26	7	0	0	0	0	0	0	0				
<sup>2</sup> Jul 26 - Aug 10	15	2	13	15	0	3	3	0				
Aug 10 - Aug 17	7	1	6	7	1	29	30	0				
Aug 17 - Aug 23	5	0	2	2	0	11	11	0				
Aug 23 - Aug 31	7	0	2	2	1	4	5	0				
Aug 31 - Sep 8	7	0	6	6	8	0	8	0				
Sep 8 – Sep 14	7	1	0	1	11	17	28	0				
<sup>3</sup> Sep 14 – Sep 28	15	2	8	10	2	11	13	4				

Sep 28 – Oct 5	8	1	18	19	3	47	50	0
Oct 5 – Oct 12	8	0	5	5	0	70	70	8
Oct 12 – Oct 19	4	0	6	6	5	28	33	1
Oct 19 – Oct 26	0	0	1	1	0	17	17	0
<sup>4</sup> Oct 26 – Nov 16	0	0	2	2	0	13	13	0
Nov 16 – Nov 23	0	0	0	0	0	0	0	0

<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/22

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 3 during the week of Nov 4 due to staffing issues; Traps not serviced in Zone 3 during the week of Nov 11 due to severe weather on site

Zone 3 – Almond											
		Phero	mone/PF	O Lure I	Baited Traps	3					
	# of 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 22 - Jan 21	0	0	0	0	0	0	0	1			
Jan 21 - Jan 26	0	0	1	1	0	0	0	0			
Jan 26 - Feb 2	0	0	0	0	0	0	0	0			
Feb 2 - Feb 9	0	0	0	0	0	0	0	0			
Feb 9 - Feb 16	0	0	6	6	0	0	0	0			
Feb 16 - Feb 23	0	0	24	24	0	2	2	1			
Feb 23 - Mar 2	0	0	7	7	0	0	0	0			
Mar 2 - Mar 9	0	0	23	23	0	3	3	1			
Mar 9 - Mar 16	2	0	46	46	0	40	40	0			
Mar 16 - Mar 23	8	1	96	97	0	94	94	0			
Mar 23 - Mar 30	9	1	45	46	0	182	182	0			
Mar 30 - Apr 6	7	1	82	83	0	113	113	0			
Apr 6 - Apr 13	8	1	113	114	0	171	171	0			
Apr 13 - Apr 19	7	0	139	139	0	142	142	0			
Apr 19 - Apr 25	6	10	243	253	1	134	135	0			
Apr 25 - May 4	9	22	325	347	1	435	436	1			
May 4 - May 11	8	11	30	41	0	25	25	3			
May 11 - May 17	6	4	31	35	0	14	14	2			
May 17 - May 25	9	14	192	206	1	112	113	4			
May 25 - Jun 2	5	14	56	70	2	73	75	85			
Jun 2 - Jun 8	0	6	76	82	1	100	101	1			
Jun 8 - Jun 15	2	5	108	113	8	268	276	3			
Jun 15 - Jun 22	3	8	144	152	14	274	288	8			
Jun 22 - Jun 29	3	14	471	485	2	517	519	4			
Jun 29 - Jul 5	6	2	207	209	0	156	156	0			
Jul 5 - Jul 13	9	122	169	291	0	60	60	2			
Jul 13 - Jul 20	8	56	60	116	4	44	48	0			
Jul 20 - Jul 26	7	1	5	6	0	0	0	0			
<sup>2</sup> Jul 26 - Aug 10	15	0	23	23	0	0	0	0			
Aug 10 - Aug 17	7	2	252	254	0	0	0	0			

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 3 during the week of Aug 5 due to pesticide applications on site <sup>3</sup>Traps not serviced in Zone 3 during the week of Sep 23 due to severe weather on site

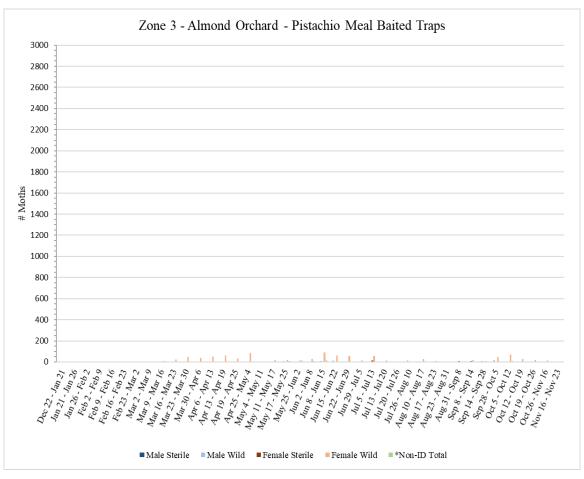
Aug 17 - Aug 23	5	1	118	119	0	4	4	0
Aug 23 - Aug 31	7	5	327	332	0	126	126	0
Aug 31 - Sep 8	7	0	80	80	13	53	66	0
Sep 8 – Sep 14	7	10	67	77	11	97	108	21
<sup>3</sup> Sep 14 – Sep 28	15	7	187	194	18	240	258	10
Sep 28 – Oct 5	8	42	632	674	76	850	926	7
Oct 5 – Oct 12	8	39	471	510	43	583	626	23
Oct 12 – Oct 19	4	0	0	0	12	939	951	15
Oct 19 – Oct 26	0	9	327	336	9	356	365	18
<sup>4</sup> Oct 26 – Nov 16	0	11	393	404	9	212	221	12
Nov 16 – Nov 23	0	0	24	24	0	0	0	0

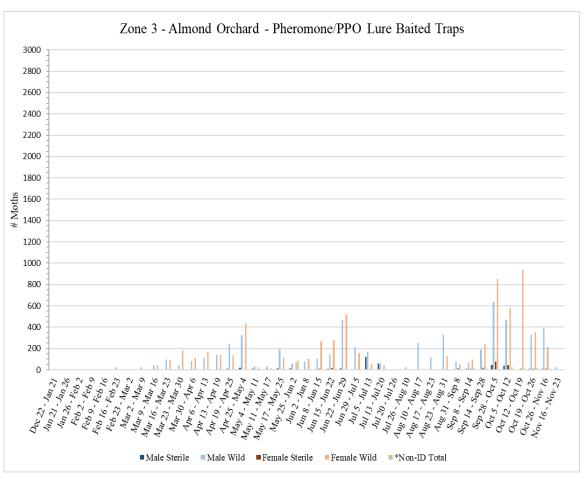
<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/22

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 3 during the week of Aug 5 due to pesticide applications on site <sup>3</sup>Traps not serviced in Zone 3 during the week of Sep 23 due to severe weather on site

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 3 during the week of Nov 4 due to staffing issues; Traps not serviced in Zone 3 during the week of Nov 11 due to severe weather on site





Zone 4 is an almond orchard where aerial NOW SIT releases were not conducted. No traps were collected from Zone 4 during the week of <u>November 11</u> due to severe weather on site.

A total of **72** traps were collected from Zone 4 on <u>Thursday</u>, <u>November 17</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 4 on <u>Tuesday, November 22</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

		7	Zone 4	- Almoi	nd			
		Pist	achio Me	al Baited	Traps			
	# of Releases During				1			
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 2 - Jan 21	0	0	0	0	0	0	0	0
Jan 21 - Jan 27	0	0	0	0	0	0	0	0
Jan 27 - 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 17	0	0	0	0	0	0	0	0
Feb 17 - Feb 24	0	0	0	0	0	2	2	0
Feb 24 - Mar 3	0	0	0	0	0	1	1	0
Mar 3 - Mar 10	0	0	4	4	0	5	5	0
Mar 10 - Mar 17	0	0	5	5	0	21	21	0
Mar 17 - Mar 24	0	0	3	3	0	81	81	0
Mar 24 - Apr 1	0	0	17	17	0	232	232	0
Apr 1 - Apr 7	0	0	7	7	0	213	213	0
Apr 7 - Apr 14	0	0	35	35	0	172	172	0
Apr 14 - Apr 20	0	0	14	14	0	187	187	7
Apr 20 - Apr 28	0	0	0	0	0	197	197	0
Apr 28 - May 5	0	0	4	4	0	159	159	11
May 5 - May 12	0	0	3	3	0	52	52	6
<sup>2</sup> May 12 - May 26	0	0	83	83	0	157	157	11
May 26 - Jun 3	0	3	4	7	2	16	18	1
<sup>3</sup> Jun 3 - Jun 16	0	1	1	2	1	229	230	57
Jun 16 - Jun 23	0	0	5	5	24	97	121	11
Jun 23 - Jun 30	0	2	31	33	0	34	34	1
Jun 30 - Jul 8	0	0	0	0	0	15	15	1
<sup>4</sup> Jul 8 - Jul 21	0	0	0	0	0	89	89	3
Jul 21 - Jul 27	0	0	7	7	0	15	15	0
Jul 27 - Aug 4	0	0	4	4	0	155	155	3
Aug 4 - Aug 11	0	0	51	51	0	81	81	0
Aug 11 - Aug 18	0	0	36	36	1	28	29	0
Aug 18 - Aug 25	0	0	0	0	0	10	10	0
Aug 25 - Sep 1	0	0	4	4	0	12	12	0
Sep 1 - Sep 9	0	0	9	9	0	5	5	0
Sep 9 – Sep 15	0	0	8	8	0	19	19	1
<sup>5</sup> Sep 15 – Sep 29	0	0	80	80	0	10	10	0
Sep 29 – Oct 6	0	0	17	17	0	74	74	13
Oct 6 – Oct 13	0	0	112	112	2	21	23	0

Oct 13 – Oct 20	0	0	6	6	0	21	21	6
<sup>6</sup> Oct 20 – Nov 17	0	0	3	3	0	15	15	0
Nov 17 – Nov 22	0	0	0	0	0	0	0	0

<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/2

<sup>2</sup>Traps not serviced in Zone 4 during the week of May 20 due to pesticide applications on site <sup>3</sup>Traps not serviced in Zone 4 during the week of June 10 due to staff shortage

<sup>4</sup>Traps not serviced in Zone 4 during the week of July 15 due to pesticide applications on site <sup>5</sup>Traps not serviced in Zone 4 during the week of Sep 23 due to severe weather on site

<sup>6</sup>Traps not serviced in Zone 4 during the week of Oct 28 due to pesticide applications on site; Traps not serviced in Zone 4 during the week of Nov 4 due to staffing issues; Traps not serviced in Zone 4 during the week of Nov 11 due to severe weather on site

			Zone	4 - Alm	nond			
		Phero	omone/PI	O Lure I	Baited Traps	3		
	# of 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 2 - Jan 21	0	0	26	26	0	1	1	0
Jan 21 - Jan 27	0	0	0	0	0	0	0	0
Jan 27 - 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 17	0	0	4	4	0	0	0	0
Feb 17 - Feb 24	0	0	20	20	0	1	1	0
Feb 24 - Mar 3	0	0	11	11	0	3	3	0
Mar 3 - Mar 10	0	0	30	30	0	3	3	0
Mar 10 - Mar 17	0	0	96	96	0	25	25	1
Mar 17 - Mar 24	0	0	328	328	0	50	50	0
Mar 24 - Apr 1	0	0	355	355	0	267	267	0
Apr 1 - Apr 7	0	0	281	281	0	439	439	0
Apr 7 - Apr 14	0	0	414	414	0	330	330	0
Apr 14 - Apr 20	0	0	742	742	0	154	154	17
Apr 20 - Apr 28	0	0	640	640	0	257	257	3
Apr 28 - May 5	0	0	676	676	0	549	549	14
May 5 - May 12	0	0	271	271	0	185	185	6
<sup>2</sup> May 12 - May 26	0	0	609	609	0	370	370	18
May 26 - Jun 3	0	1	17	18	2	11	13	0
<sup>3</sup> Jun 3 - Jun 16	0	0	82	82	0	240	240	8
Jun 16 - Jun 23	0	0	96	96	0	349	349	2
Jun 23 - Jun 30	0	0	225	225	0	354	354	4
Jun 30 - Jul 8	0	0	43	43	0	7	7	0
<sup>4</sup> Jul 8 - Jul 21	0	0	307	307	0	106	106	1
Jul 21 - Jul 27	0	1	115	116	0	103	103	4
Jul 27 - Aug 4	0	0	529	529	0	1504	1504	4
Aug 4 - Aug 11	0	27	769	796	0	183	183	46
Aug 11 - Aug 18	0	4	249	253	0	4	4	0
Aug 18 - Aug 25	0	0	219	219	5	64	69	0
Aug 25 - Sep 1	0	0	26	26	0	0	0	0

Sep 1 - Sep 9	0	1	217	218	0	20	20	0
Sep 9 – Sep 15	0	0	81	81	0	58	58	0
<sup>5</sup> Sep 15 – Sep 29	0	0	293	293	4	287	291	0
Sep 29 – Oct 6	0	1	2288	2289	0	1186	1186	13
Oct 6 – Oct 13	0	17	1888	1905	29	1033	1062	16
Oct 13 – Oct 20	0	2	2326	2328	4	469	473	55
<sup>6</sup> Oct 20 – Nov 17	0	0	834	834	0	562	562	8
Nov 17 – Nov 22	0	0	10	10	0	0	0	0

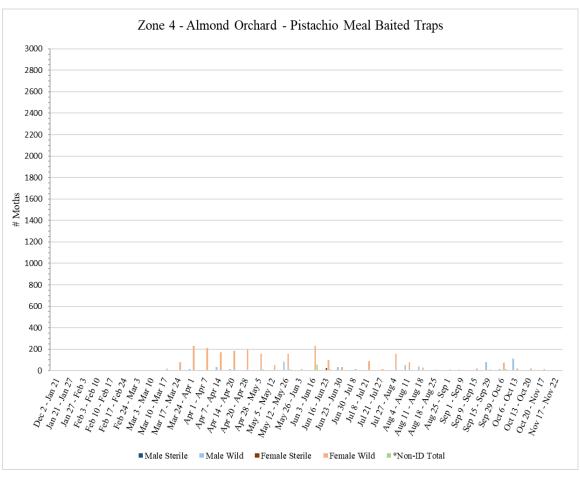
<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

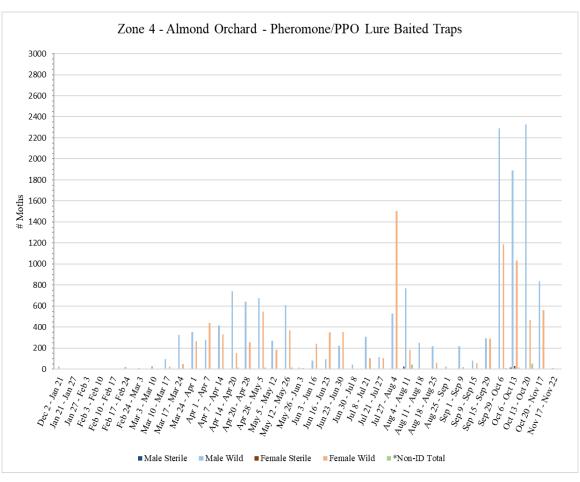
1 Traps in field since 12/2

<sup>2</sup>Traps not serviced in Zone 4 during the week of May 20 due to pesticide applications on site <sup>3</sup>Traps not serviced in Zone 4 during the week of June 10 due to staff shortage

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 4 during the week of July 15 due to pesticide applications on site <sup>5</sup>Traps not serviced in Zone 4 during the week of Sep 23 due to severe weather on site

<sup>&</sup>lt;sup>6</sup>Traps not serviced in Zone 4 during the week of Oct 28 due to pesticide applications on site; Traps not serviced in Zone 4 during the week of Nov 4 due to staffing issues; Traps not serviced in Zone 4 during the week of Nov 11 due to severe weather on site





Zone 5 is a pistachio orchard where aerial NOW SIT releases were conducted. No traps were collected from Zone 5 during the week of November 11 due to severe weather on site.

A total of **72** traps were collected from Zone 5 on <u>Monday, November 14</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 5 on Monday, November 21, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

			Zone 5	- Pistac	chio			
		Pi	stachio M	eal Baited	l 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
<sup>1</sup> Dec 20 - Jan 12	0	0	0	0	0	0	0	0
Jan 12 - Jan 18	0	0	0	0	0	0	0	0
Jan 18 - Jan 24	0	0	0	0	0	0	0	0
Jan 24 - Jan 31	0	0	1	1	0	0	0	0
Jan 31 -Feb 7	0	0	0	0	0	0	0	0
Feb 7 - Feb 14	0	0	25	25	0	138	138	0
Feb 14 - Feb 24	0	0	40	40	0	204	204	0
Feb 24 - Feb 28	0	0	6	6	0	12	12	0
Feb 28 - Mar 7	0	0	166	166	0	327	327	3
Mar 7 - Mar 14	0	0	26	26	0	124	124	5
Mar 14 - Mar 21	0	0	80	80	0	720	720	2
<sup>2</sup> Mar 21 - Apr 5	0	0	78	78	0	960	960	0
Apr 5 - Apr 11	0	0	19	19	0	566	566	3
Apr 11 - Apr 18	0	0	21	21	0	127	127	11
Apr 18 - Apr 25	0	0	11	11	0	194	194	70
Apr 25 - May 2	0	0	18	18	0	254	254	161
May 2 - May 9	0	0	21	21	0	210	210	41
May 9 - May 16	0	0	27	27	0	298	298	130
May 16 - May 26	0	0	9	9	0	111	111	30
May 26 - May 31	2	0	4	4	1	80	81	35
May 31 - Jun 6	0	0	5	5	5	130	135	177
Jun 6 - Jun 14	0	0	11	11	0	337	337	238
Jun 14 - Jun 21	0	0	32	32	3	320	323	411
Jun 21 - Jun 27	1	1	12	13	0	391	391	28
Jun 27 - Jul 5	5	0	6	6	2	225	227	191
Jul 5 - Jul 12	6	0	2	2	9	215	224	75
Jul 12 - Jul 19	6	1	0	1	3	66	69	4
Jul 19 - Jul 26	6	0	8	8	5	21	26	0
Jul 26 - Aug 2	6	4	26	30	2	36	38	14
<sup>3</sup> Aug 2 - Aug 16	9	9	3	12	2	45	47	0
Aug 16 - Aug 23	3	16	7	23	0	34	34	0
Aug 23 – Sep 1	4	0	6	6	0	32	32	0
Sep 1 – Sep 6	3	0	46	46	1	52	53	0
Sep 6 – Sep 15	5	2	23	25	7	128	135	23
Sep 15 – Sep 19	4	0	14	14	4	21	25	4

Sep 19 – Sep 26	6	0	8	8	0	23	23	0
Sep 26 – Oct 6	7	2	54	56	1	43	44	19
Oct 6 – Oct 10	4	2	11	13	3	17	20	4
Oct 10 – Oct 18	4	0	1	1	0	17	17	0
Oct 18 – Oct 24	0	0	2	2	0	5	5	1
Oct 24 – Oct 31	0	0	1	1	0	1	1	0
<sup>4</sup> Oct 31 – Nov 14	0	0	0	0	0	1	1	0
Nov 14 – Nov 21	0	0	0	0	0	0	0	0

<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/20

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 5 during the week of Nov 11 due to severe weather on site

	Zone 5 - Pistachio											
		Phero	omone/PI	O Lure I	Baited Traps	S						
	# 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 12	0	0	0	0	0	0	0	0				
Jan 12 - Jan 18	0	0	24	24	0	0	0	0				
Jan 18 - Jan 24	0	0	7	7	0	0	0	0				
Jan 24 - Jan 31	0	0	41	41	0	0	0	0				
Jan 31 - Feb 7	0	0	10	10	0	0	0	0				
Feb 7 - Feb 14	0	0	427	427	0	1	1	7				
Feb 14 - Feb 24	0	0	202	202	0	3	3	0				
Feb 24 - Feb 28	0	0	51	51	0	0	0	0				
Feb 28 - Mar 7	0	0	159	159	0	38	38	0				
Mar 7 - Mar 14	0	0	74	74	0	15	15	0				
Mar 14 - Mar 21	0	0	296	296	0	266	266	4				
<sup>2</sup> Mar 21 - Apr 5	0	0	634	634	0	660	660	2				
Apr 5 - Apr 11	0	0	565	565	0	703	703	0				
Apr 11 - Apr 18	0	0	329	329	0	402	402	4				
Apr 18 - Apr 25	0	0	589	589	0	297	297	42				
Apr 25 - May 2	0	0	657	657	0	535	535	39				
May 2 - May 9	0	0	589	589	0	715	715	26				
May 9 - May 16	0	0	1203	1203	0	168	168	15				
May 16 - May 26	0	0	582	582	0	325	325	4				
May 26 - May 31	2	1	308	309	0	125	125	5				
May 31 - Jun 6	0	95	288	383	17	231	248	4				
Jun 6 - Jun 14	0	41	660	701	8	343	351	22				
Jun 14 - Jun 21	0	0	1712	1712	0	215	215	13				
Jun 21 - Jun 27	1	6	1359	1365	0	343	343	23				
Jun 27 - Jul 5	5	4	1086	1090	1	330	331	9				
Jul 5 - Jul 12	6	10	628	638	5	1405	1410	7				
Jul 12 - Jul 19	6	3	549	552	1	463	464	1				
Jul 19 - Jul 26	6	0	52	52	0	2	2	0				
Jul 26 - Aug 2	6	32	611	643	2	1247	1249	13				

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 5 during the week of Apr 1 due to severe weather on site

<sup>&</sup>lt;sup>3</sup>Traps not serviced in Zone 5 during the week of Aug 12 due to pesticide applications on site

<sup>3</sup> Aug 2 - Aug 16	9	4	240	244	0	11	11	0
Aug 16 - Aug 23	3	80	258	338	1	43	44	0
Aug 23 - Sep 1	4	15	776	791	0	79	79	0
Sep 1 - Sep 6	3	1	91	92	0	0	0	0
Sep 6 – Sep 15	5	42	837	879	21	1291	1312	26
Sep 15 – Sep 19	4	0	830	830	4	567	571	0
Sep 19 – Sep 26	6	38	2393	2431	25	1034	1059	18
Sep 26 – Oct 6	7	0	495	495	0	1272	1272	1
Oct 6 – Oct 10	4	17	670	687	9	734	743	41
Oct 10 – Oct 18	4	11	183	194	13	406	419	6
Oct 18 – Oct 24	0	3	81	84	3	128	131	2
Oct 24 – Oct 31	0	0	37	37	0	23	23	0
<sup>4</sup> Oct 31 – Nov 14	0	0	4	4	1	6	7	0
Nov 14 – Nov 21	0	0	9	9	0	2	2	0

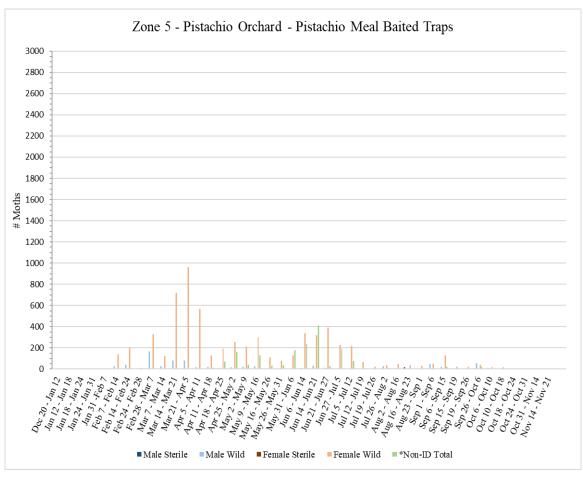
<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

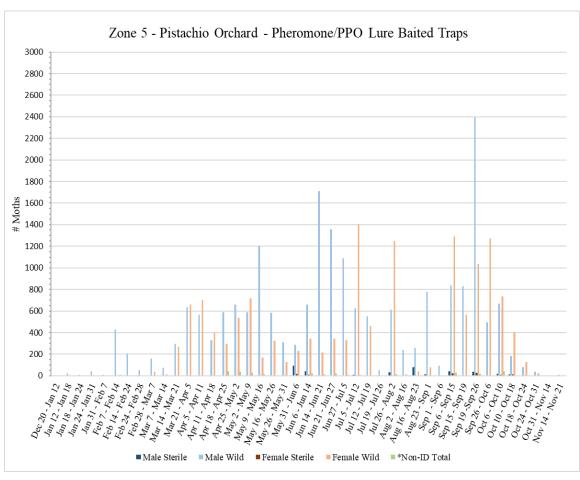
1 Traps in field since 12/20

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 5 during the week of Apr 1 due to severe weather on site

<sup>&</sup>lt;sup>3</sup>Traps not serviced in Zone 5 during the week of Aug 12 due to pesticide applications on site

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 5 during the week of Nov 11 due to severe weather on site





Zone 6 is a pistachio orchard where aerial NOW SIT releases were not conducted. No traps were collected from Zone 6 during the week of <u>November 11</u> due to severe weather on site.

A total of **17** traps were collected from Zone 6 on <u>Tuesday</u>, <u>November 15</u>, with **8** pistachio meal baited traps and **9** pheromone/PPO lure traps. Trap number 5 meal was missing this week.

A total of **18** traps were collected from Zone 6 on <u>Tuesday, November 22</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

Zone 6 - Pistachio										
		P		Meal Bait						
	# of				<u> </u>					
	Releases									
	During									
Dates Traps in	Trap	Male	Male	Male	Female	Female	Female	*Non-ID		
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total	Total		
<sup>1</sup> Dec 21 - Jan 11	0	0	0	0	0	0	0	0		
Jan 11 - Jan 19	0	0	0	0	0	0	0	0		
Jan 19 - Jan 25	0	0	0	0	0	0	0	0		
Jan 25 - Feb 1	0	0	0	0	0	0	0	0		
Feb 1 - Feb 8	0	0	0	0	0	0	0	0		
Feb 8 - Feb 15	0	0	1	1	0	0	0	0		
Feb 15 - Feb 22	0	0	0	0	0	4	4	0		
Feb 22 - Mar 2	0	0	1	1	0	11	11	0		
Mar 2 - Mar 7	0	0	1	1	0	22	22	0		
Mar 7 - Mar 15	0	0	0	0	0	29	29	0		
Mar 15 - Mar 22	0	0	0	0	0	24	24	0		
<sup>2</sup> Mar 22 - Apr 6	0	0	44	44	0	175	175	0		
Apr 6 - Apr 12	0	0	1	1	0	132	132	0		
Apr 12 - Apr 20	0	0	11	11	0	123	123	14		
Apr 20 - Apr 26	0	0	5	5	0	75	75	9		
Apr 26 - May 3	0	0	16	16	0	18	18	3		
May 3 - May 10	0	0	0	0	0	7	7	1		
May 10 - May 17	0	0	2	2	0	19	19	4		
May 17 - May 24	0	0	0	0	0	7	7	1		
May 24 - Jun 1	0	0	0	0	0	9	9	1		
Jun 1 - Jun 7	0	0	0	0	0	38	38	14		
Jun 7 - Jun 15	0	0	1	1	0	96	96	87		
Jun 15 - Jun 22	0	0	1	1	0	161	161	105		
Jun 22 - Jun 28	0	0	0	0	0	178	178	81		
Jun 28 - Jul 6	0	0	3	3	0	101	101	74		
Jul 6 - Jul 13	0	0	0	0	0	130	130	48		
Jul 13 - Jul 20	0	0	0	0	0	83	83	4		
Jul 20 - Jul 27	0	1	4	5	0	17	17	0		
Jul 27 - Aug 3	0	1	1	2	0	84	84	12		
Aug 3 - Aug 10	0	0	3	3	0	6	6	0		
Aug 10 - Aug 17	0	0	0	0	0	2	2	0		
Aug 17 - Aug 24	0	0	0	0	0	3	3	0		
<sup>3</sup> Aug 24 - Sep 7	0	0	0	0	0	2	2	0		
Sep 7 - Sep 12	0	0	0	0	0	4	4	0		
Sep 12 - Sep 22	0	0	6	6	0	16	16	0		

Sep 22 – Sep 27	0	0	10	10	0	1	1	3
Sep 27 – Oct 4	0	0	6	6	0	1	1	0
Oct 4 – Oct 12	0	0	5	5	0	8	8	1
Oct 12 – Oct 19	0	0	0	0	0	8	8	2
Oct 19 – Oct 26	0	0	2	2	0	1	1	1
Oct 26 – Nov 1	0	0	0	0	0	0	0	0
<sup>4</sup> Nov 1 – Nov 15	0	0	1	1	0	1	1	0
Nov 15 – Nov 22	0	0	0	0	0	0	0	0

<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/21

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 6 during the week of Nov 11 due to severe weather on site

Zone 6 - Pistachio										
		Phero	mone/PP0	O Lure Ba	ited 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		
<sup>1</sup> Dec 21 - Jan 11	0	0	0	0	0	0	0	0		
Jan 11 - Jan 19	0	0	1	1	0	0	0	0		
Jan 19 - Jan 25	0	0	0	0	0	0	0	0		
Jan 25 - Feb 1	0	0	0	0	0	0	0	0		
Feb 1 - Feb 8	0	0	0	0	0	0	0	0		
Feb 8 - Feb 15	0	0	3	3	0	0	0	0		
Feb 15 - Feb 22	0	0	3	3	0	0	0	0		
Feb 22 - Mar 2	0	0	2	2	0	1	1	0		
Mar 2 - Mar 7	0	0	24	24	0	1	1	0		
Mar 7 - Mar 15	0	0	20	20	0	0	0	0		
Mar 15 - Mar 22	0	0	0	0	0	8	8	0		
<sup>2</sup> Mar 22 - Apr 6	0	0	72	72	0	83	83	0		
Apr 6 - Apr 12	0	0	89	89	0	126	126	0		
Apr 12 - Apr 20	0	0	228	228	0	155	155	3		
Apr 20 - Apr 26	0	0	192	192	0	67	67	2		
Apr 26 - May 3	0	0	64	64	0	118	118	5		
May 3 - May 10	0	0	16	16	0	2	2	2		
May 10 - May 17	0	0	23	23	0	11	11	2		
May 17 - May 24	0	0	13	13	0	3	3	0		
May 24 - Jun 1	0	0	12	12	0	17	17	1		
Jun 1 - Jun 7	0	0	10	10	0	22	22	0		
Jun 7 - Jun 15	0	0	22	22	0	177	177	7		
Jun 15 - Jun 22	0	0	206	206	0	126	126	35		
Jun 22 - Jun 28	0	0	269	269	0	292	292	9		
Jun 28 - Jul 6	0	0	344	344	0	102	102	26		
Jul 6 - Jul 13	0	0	312	312	0	405	405	11		
Jul 13 - Jul 20	0	0	448	448	0	383	383	0		
Jul 20 - Jul 27	0	9	36	45	0	3	3	0		
July 27 - Aug 3	0	0	314	314	0	373	373	2		

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 6 during the week of Apr 1 due to severe weather on site <sup>3</sup>Traps not serviced in Zone 6 during the week of Sep 2 due to staffing issues

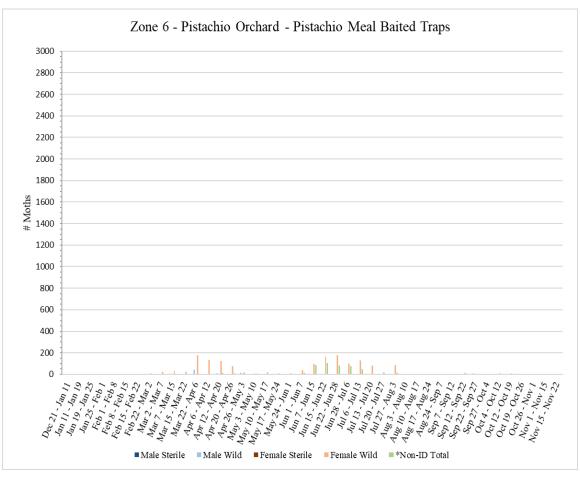
Aug 3 - Aug 10	0	0	75	75	0	0	0	0
Aug 10 - Aug 17	0	0	174	174	0	16	16	0
Aug 17 - Aug 24	0	0	30	30	0	0	0	0
<sup>3</sup> Aug 24 - Sep 7	0	2	22	24	0	0	0	0
Sep 7 - Sep 12	0	9	86	95	17	116	133	8
Sep 12 - Sep 22	0	4	337	341	0	48	48	0
Sep 22 – Sep 27	0	0	91	91	3	46	49	2
Sep 27 – Oct 4	0	0	125	125	0	48	48	0
Oct 4 – Oct 12	0	0	230	230	0	220	220	3
Oct 12 – Oct 19	0	1	290	291	1	59	60	17
Oct 19 – Oct 26	0	1	49	50	0	26	26	4
Oct 26 – Nov 1	0	0	34	34	0	3	3	0
<sup>4</sup> Nov 1 – Nov 15	0	0	4	4	0	1	1	0
Nov 15 – Nov 22	0	0	13	13	0	0	0	0

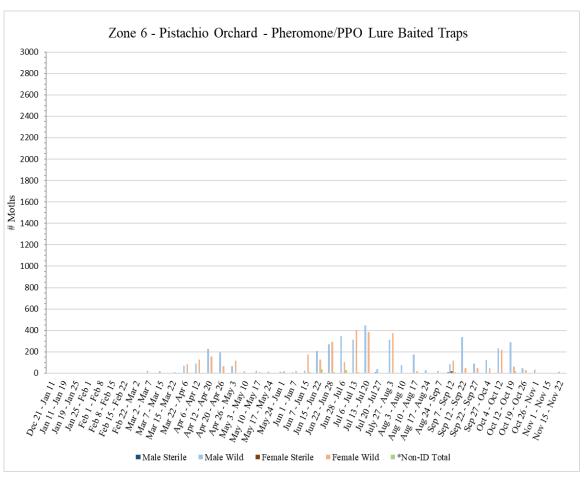
<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/21

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 6 during the week of Apr 1 due to severe weather on site <sup>3</sup>Traps not serviced in Zone 6 during the week of Sep 2 due to staffing issues

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 6 during the week of Nov 11 due to severe weather on site





Zone 7 is an almond orchard where aerial NOW SIT releases were conducted. No traps were collected from Zone 7 during the week of <u>November 11</u> due to severe weather on site.

A total of **72** traps were collected from Zone 7 on <u>Wednesday, November 16</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 7 on <u>Wednesday, November 23</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

Zone 7 - Almond										
	Pistachio Meal 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		
<sup>1</sup> Dec 8 - Jan 13	0	0	0	0	0	0	0	0		
Jan 13 - Jan 20	0	0	0	0	0	0	0	0		
Jan 20 - Jan 26	0	0	0	0	0	0	0	0		
Jan 26 - Feb 2	0	0	0	0	0	0	0	0		
Feb 2 - Feb 9	0	0	0	0	0	0	0	0		
Feb 9 - Feb 16	0	0	0	0	0	0	0	0		
Feb 16 - Feb 23	0	0	3	3	0	1	1	0		
Feb 23 - Mar 1	0	0	0	0	0	0	0	0		
Mar 1 - Mar 9	0	0	1	1	0	7	7	0		
Mar 9 - Mar 16	0	0	6	6	0	13	13	0		
Mar 16 - Mar 23	0	0	0	0	0	10	10	0		
<sup>2</sup> Mar 23 - Apr 7	0	0	6	6	0	191	191	0		
Apr 7 - Apr 13	0	0	17	17	0	125	125	0		
Apr 13 - Apr 19	0	0	10	10	0	74	74	3		
Apr 19 - Apr 27	0	0	11	11	0	109	109	7		
Apr 27 - May 4	0	0	11	11	0	122	122	10		
May 4 - May 11	0	0	8	8	0	34	34	6		
May 11 - May 18	0	0	0	0	0	101	101	0		
May 18 - May 25	0	0	0	0	0	30	30	1		
May 25 - Jun 2	2	0	1	1	0	19	19	0		
Jun 2 - Jun 8	0	2	2	4	4	40	44	4		
Jun 8 - Jun 16	0	0	5	5	0	105	105	6		
Jun 16 - Jun 23	0	0	56	56	0	108	108	18		
Jun 23 - Jun 30	1	1	3	4	1	39	40	1		
Jun 30 - Jul 7	7	1	2	3	0	3	3	1		
Jul 7 - Jul 14	5	1	0	1	1	14	15	1		
Jul 14 - Jul 21	5	0	1	1	0	9	9	0		
<sup>3</sup> Jul 21 - Aug 4	10	3	5	8	1	38	39	4		
Aug 4 - Aug 11	4	0	11	11	0	9	9	0		
Aug 11 - Aug 18	4	0	5	5	0	40	40	0		
Aug 18 - Aug 25	3	0	1	1	0	19	19	0		
Aug 25 - Aug 30	4	0	0	0	0	3	3	0		
Aug 30 - Sep 8	4	1	3	4	0	17	17	0		
Sep 8 - Sep 13	5	1	1	2	0	6	6	0		
Sep 13 - Sep 22	6	0	2	2	0	9	9	0		

Sep 22 – Sep 29	5	1	30	31	2	13	15	0
Sep 29 – Oct 4	5	2	0	2	0	57	57	0
Oct 4 – Oct 13	6	0	2	2	1	93	94	11
Oct 13 – Oct 20	2	0	4	4	0	23	23	4
Oct 20 – Oct 27	0	0	1	1	0	2	2	1
Oct 27 – Nov 2	0	0	1	1	0	5	5	0
<sup>4</sup> Nov 2 – Nov 16	0	0	1	1	0	7	7	0
Nov 16 – Nov 23	0	0	0	0	0	0	0	0

<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/8

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 7 during the week of Nov 11 due to severe weather on site

	Zone 7 - Almond									
		Pher	omone/Pl	PO Lure E	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		
<sup>1</sup> Dec 8 - Jan 13	0	0	6	6	0	0	0	0		
Jan 13 - Jan 20	0	0	0	0	0	0	0	0		
Jan 20 - Jan 26	0	0	0	0	0	0	0	0		
Jan 26 - Feb 2	0	0	0	0	0	0	0	0		
Feb 2 - Feb 9	0	0	0	0	0	0	0	0		
Feb 9 - Feb 16	0	0	29	29	0	0	0	0		
Feb 16 - Feb 23	0	0	55	55	0	0	0	0		
Feb 23 - Mar 1	0	0	8	8	0	0	0	0		
Mar 1 - Mar 9	0	0	31	31	0	0	0	0		
Mar 9 - Mar 16	0	0	138	138	0	8	8	0		
Mar 16 - Mar 23	0	0	98	98	0	27	27	0		
<sup>2</sup> Mar 23 - Apr 7	0	0	390	390	0	325	325	1		
Apr 7 - Apr 13	0	0	390	390	0	408	408	1		
Apr 13 - Apr 19	0	0	512	512	0	227	227	11		
Apr 19 - Apr 27	0	0	372	372	0	604	604	0		
Apr 27 - May 4	0	0	495	495	0	623	623	150		
May 4 - May 11	0	0	135	135	0	261	261	12		
May 11 - May 18	0	0	396	396	0	165	165	34		
May 18 - May 25	0	0	263	263	0	221	221	3		
May 25 - Jun 2	2	0	176	176	0	177	177	0		
Jun 2 - Jun 8	0	5	100	105	1	165	166	1		
Jun 8 - Jun 16	0	0	88	88	0	683	683	1		
Jun 16 - Jun 23	0	2	251	253	0	522	522	8		
Jun 23 - Jun 30	1	3	565	568	0	633	633	3		
Jun 30 - Jul 7	7	0	102	102	0	34	34	0		
Jul 7 - Jul 14	5	1	91	92	0	62	62	1		
Jul 14 - Jul 21	5	1	62	63	0	54	54	1		
<sup>3</sup> Jul 21 - Aug 4	10	2	255	257	2	543	545	4		
Aug 4 - Aug 11	4	0	44	44	0	1	1	0		

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 7 during the week of Apr 1 due to severe weather on site

<sup>&</sup>lt;sup>3</sup>Traps not serviced in Zone 7 during the week of Jul 29 due to pesticide applications on site

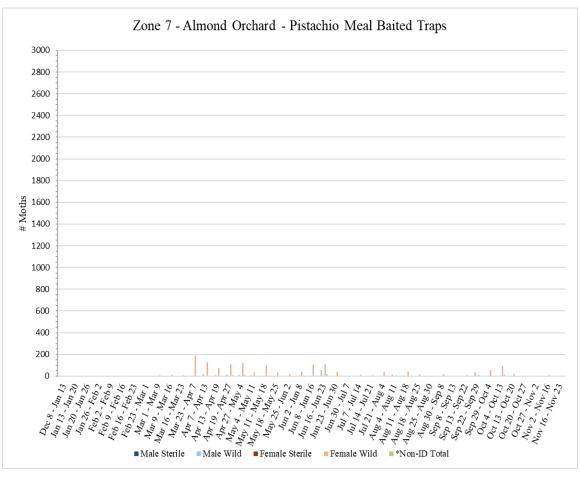
Aug 11 - Aug 18	4	1	135	136	0	1	1	0
Aug 18 - Aug 25	3	1	85	86	0	0	0	0
Aug 25 - Aug 30	4	0	72	72	0	1	1	0
Aug 30 - Sep 8	4	7	120	127	0	7	7	0
Sep 8 - Sep 13	5	0	43	43	0	30	30	0
Sep 13 - Sep 22	6	4	87	91	0	13	13	0
Sep 22 – Sep 29	5	72	508	580	8	683	691	43
Sep 29 – Oct 4	5	29	945	974	1	1363	1364	6
Oct 4 – Oct 13	6	42	943	985	38	1036	1074	13
Oct 13 – Oct 20	2	25	1072	1097	6	723	729	9
Oct 20 – Oct 27	0	22	532	554	1	271	272	2
Oct 27 – Nov 2	0	0	364	364	0	201	201	0
<sup>4</sup> Nov 2 – Nov 16	0	0	148	148	0	7	7	1
Nov 16 – Nov 23	0	0	1	1	0	6	6	0

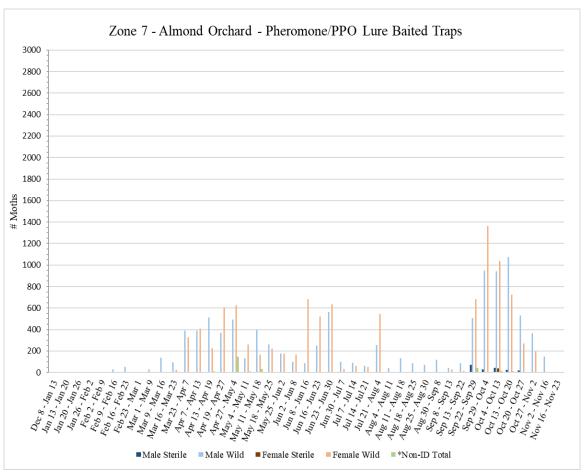
<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/8

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 7 during the week of Apr 1 due to severe weather on site <sup>3</sup>Traps not serviced in Zone 7 during the week of Jul 29 due to pesticide applications on site

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 7 during the week of Nov 11 due to severe weather on site





Zone 8 is an almond orchard where aerial NOW SIT releases were not conducted. No traps were collected from Zone 8 during the week of <u>November 11</u> due to severe weather on site.

A total of **14** traps were collected from Zone 8 on <u>Tuesday</u>, <u>November 15</u>, with **7** pistachio meal baited traps and **7** pheromone/PPO lure traps. 4 of the 18 traps were inaccessible during this week. All accessible traps were removed from Zone 8 this week due to trees being uprooted.

	Zone 8 - Almond										
		Pis	stachio M	eal Baite	d 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			
<sup>1</sup> Dec 21 - Jan 11	0	0	0	0	0	0	0	0			
Jan 11 - Jan 19	0	0	0	0	0	0	0	0			
Jan 19 - Jan 25	0	0	0	0	0	0	0	0			
Jan 25 - Feb 1	0	0	0	0	0	0	0	0			
Feb 1 - Feb 8	0	0	0	0	0	0	0	0			
Feb 8 - Feb 15	0	0	0	0	0	0	0	0			
Feb 15 - Feb 22	0	0	1	1	0	0	0	0			
Feb 22 - Mar 2	0	0	0	0	0	0	0	0			
Mar 2 - Mar 7	0	0	1	1	0	0	0	0			
Mar 7 - Mar 15	0	0	0	0	0	1	1	0			
Mar 15 - Mar 22	0	0	0	0	0	1	1	0			
<sup>2</sup> Mar 22 - Apr 6	0	0	70	70	0	59	59	0			
Apr 6 - Apr 12	0	0	7	7	0	37	37	0			
Apr 12 - Apr 20	0	0	2	2	0	23	23	0			
Apr 20 - Apr 26	0	0	0	0	0	9	9	0			
Apr 26 - May 3	0	0	0	0	0	22	22	2			
May 3 - May 10	0	0	3	3	0	3	3	2			
May 10 - May 17	0	0	0	0	0	10	10	2			
May 17 - May 24	0	0	16	16	0	19	19	0			
May 24 - Jun 1	0	0	1	1	0	6	6	0			
Jun 1 - Jun 7	0	0	0	0	0	16	16	9			
Jun 7 - Jun 15	0	0	1	1	1	70	71	19			
Jun 15 - Jun 22	0	0	1	1	0	28	28	5			
Jun 22 - Jun 28	0	0	5	5	0	11	11	1			
Jun 28 - Jul 6	0	0	0	0	0	3	3	0			
Jul 6 - Jul 13	0	0	0	0	0	0	0	0			
Jul 13 - Jul 20	0	0	0	0	0	0	0	0			
Jul 20 - Jul 27	0	0	0	0	0	0	0	0			
Jul 27 - Aug 3	0	0	0	0	0	23	23	2			
Aug 3 - Aug 10	0	0	4	4	0	1	1	0			
Aug 10 - Aug 17	0	0	5	5	0	4	4	0			
Aug 17 - Aug 24	0	0	4	4	0	1	1	0			
<sup>3</sup> Aug 24 - Sep 7	0	0	4	4	0	2	2	0			
Sep 7 - Sep 12	0	0	0	0	0	0	0	0			
Sep 12 - Sep 22	0	0	2	2	0	4	4	0			
Sep 22 – Sep 27	0	0	13	13	0	3	3	0			
Sep 27 – Oct 4	0	1	14	15	2	23	25	1			

Oct 4 – Oct 12	0	1	30	31	0	0	0	0
Oct 12 – Oct 19	0	0	3	3	0	14	14	8
Oct 19 – Oct 26	0	0	4	4	0	3	3	0
Oct 26 – Nov 1	0	0	0	0	0	5	5	0
<sup>4</sup> Nov 1 – Nov 15	0	0	0	0	0	0	0	0
***Nov 15								

<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

1 Traps in field since 12/21

<sup>2</sup>Traps not serviced in Zone 8 during the week of Apr 1 due to severe weather on site <sup>3</sup>Traps not serviced in Zone 8 during the week of Sep 2 due to staffing issues

<sup>4</sup>Traps not serviced in Zone 8 during the week of Nov 11 due to severe weather on site

\*\*\*All traps removed from Zone 8 on Nov 15 due to trees being uprooted

Zone 8 - Almond										
		Phero	mone/PP	O Lure Ba	ited 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		
<sup>1</sup> Dec 21 - Jan 11	0	0	0	0	0	0	0	0		
Jan 11 - Jan 19	0	0	0	0	0	0	0	0		
Jan 19 - Jan 25	0	0	0	0	0	0	0	0		
Jan 25 - Feb 1	0	0	0	0	0	0	0	0		
Feb 1 - Feb 8	0	0	0	0	0	0	0	0		
Feb 8 - Feb 15	0	0	2	2	0	1	1	0		
Feb 15 - Feb 22	0	0	19	19	0	0	0	0		
Feb 22 - Mar 2	0	0	2	2	0	0	0	0		
Mar 2 - Mar 7	0	0	28	28	0	4	4	0		
Mar 7 - Mar 15	0	0	15	15	0	0	0	0		
Mar 15 - Mar 22	0	0	0	0	0	25	25	0		
<sup>2</sup> Mar 22 - Apr 6	0	0	8	8	0	46	46	0		
Apr 6 - Apr 12	0	0	61	61	0	104	104	2		
Apr 12 - Apr 20	0	0	126	126	0	75	75	0		
Apr 20 - Apr 26	0	0	48	48	0	11	11	4		
Apr 26 - May 3	0	0	54	54	0	86	86	3		
May 3 - May 10	0	0	16	16	0	20	20	8		
May 10 - May 17	0	0	9	9	0	7	7	1		
May 17 - May 24	0	0	0	0	0	4	4	1		
May 24 - Jun 1	0	1	26	27	0	12	12	1		
Jun 1 - Jun 7	0	0	9	9	0	7	7	0		
Jun 7 - Jun 15	0	0	11	11	0	52	52	0		
Jun 15 - Jun 22	0	3	37	40	0	64	64	1		
Jun 22 - Jun 28	0	0	55	55	0	134	134	3		
Jun 28 - Jul 6	0	0	76	76	0	88	88	0		
Jul 6 - Jul 13	0	0	3	3	0	2	2	1		
Jul 13 - Jul 20	0	2	31	33	3	47	50	16		
Jul 20 - Jul 27	0	0	2	2	0	0	0	0		
Jul 27 - Aug 3	0	0	5	5	0	36	36	0		
Aug 3 - Aug 10	0	0	9	9	0	3	3	0		

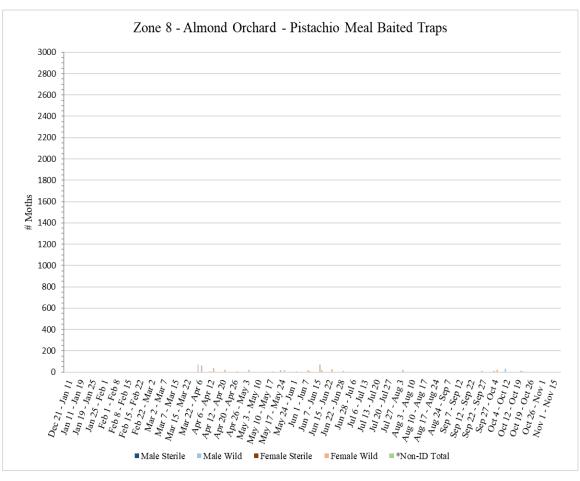
Aug 10 - Aug 17	0	1	51	52	0	5	5	0
Aug 17 - Aug 24	0	0	13	13	0	29	29	0
<sup>3</sup> Aug 24 - Sep 7	0	0	50	50	0	18	18	0
Sep 7 - Sep 12	0	0	2	2	0	2	2	0
Sep 12 - Sep 22	0	0	36	36	0	1	1	0
Sep 22 – Sep 27	0	0	65	65	0	24	24	0
Sep 27 – Oct 4	0	12	125	137	14	167	181	21
Oct 4 – Oct 12	0	0	209	209	4	205	209	1
Oct 12 – Oct 19	0	0	365	365	0	84	84	7
Oct 19 – Oct 26	0	0	66	66	0	110	110	0
Oct 26 – Nov 1	0	0	80	80	0	38	38	3
<sup>4</sup> Nov 1 – Nov 15	0	0	13	13	0	1	1	0
***Nov 15								

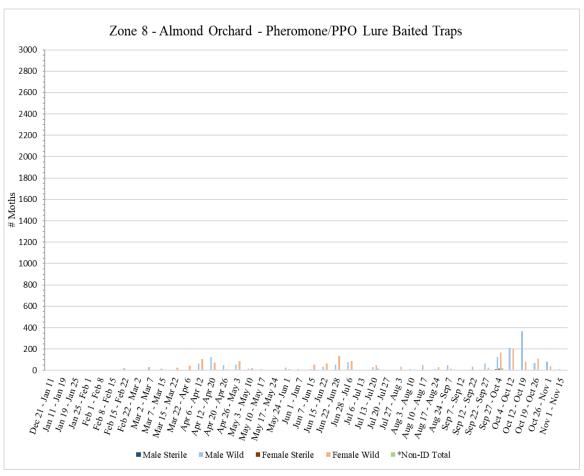
<sup>\*</sup>Non-ID counts are NOW moths unable to be sexed as male or female/or identified as sterile or wild due to missing or unrecognizable genitalia caused by predation while traps were in storage awaiting processing

<sup>1</sup>Traps in field since 12/21

<sup>&</sup>lt;sup>2</sup>Traps not serviced in Zone 8 during the week of Apr 1 due to severe weather on site <sup>3</sup>Traps not serviced in Zone 8 during the week of Sep 2 due to staffing issues

<sup>&</sup>lt;sup>4</sup>Traps not serviced in Zone 8 during the week of Nov 11 due to severe weather on site \*\*\*All traps removed from Zone 8 on Nov 15 due to trees being uprooted





### IV. 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 2022 SIT season's average QC results for Mag 1 and Mag 2 from the period of <u>Tuesday</u>, <u>March 15, 2022</u> to <u>Saturday</u>, <u>October 15, 2022</u>:

- 1% of moths from samples found dead at zero hour
- 1% of moths from samples found to have mated at zero hour
- 17% of moths from samples found to have mated after forty-eight hours
- 68% of moths from samples remained alive after seven days in BioChamber
- 94% of moths from samples found to have distinct red dye markings

