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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.

The 2021 aerial NOW SIT releases began Wednesday, March 10, with one magazine released per day, 7 days per week. This magazine, identified as "Mag 1," was released over the 2020 Area Wide Project site acreage.

On May 17, 2021, CDFA deployed traps to an additional approximately 1,600 acres of pistachio and almond orchards; expanding the Area Wide Project site acreage. As of June 16, 2021, a second magazine was released daily. This second magazine, identified as "Mag 2," was released over 1,280 acres of the new acreage added to the Area Wide Project site, five times per week, Friday through Tuesday. Beginning on Thursday, June 24, Mag 2 was released over separate sites every Wednesday and Thursday for research purposes.

The 2021 aerial NOW SIT releases concluded on October 16, 2021, with the final two magazines being released. Aerial releases are expected to begin again sometime in early 2022. The Navel Orangeworm Action Committee (NOWAC) will meet to discuss plans for the 2022 aerial NOW SIT season. When a date has been finalized, it will be included in this report.

Listed below are any circumstances which prevented regular aerial releases in 2021:

- <u>Monday, March 15:</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
- <u>Tuesday, March 16:</u> today's magazine and magazine from previous day released
- <u>Saturday, May 29:</u> no magazines shipped due to airline schedule change
- <u>Sunday, May 30:</u> no aerial release conducted
- <u>Sunday</u>, July 4: no magazines shipped due to airline schedule during holiday
- Monday, July 5: no aerial releases conducted
- <u>Sunday</u>, July 11: no aerial release conducted for Mag 2 due to release aircraft issues
- <u>Monday, July 12:</u> no aerial release conducted due to ongoing release aircraft issues; moths from previous day's Mag 2 destroyed

- <u>Tuesday, July 13:</u> Mag 1 and Mag 2 from previous day released over Area Wide Project Site Zones 1 & 3 and Zones 5 & 7, respectively
- <u>Wednesday, July 14</u>: no magazines shipped due to airline misplacing moth shipments; Mag 1 and Mag 2 from previous day released over Area Wide Project Site Zones 1 & 3 and Zones 5 & 7, respectively; Mag 1 from today released over research sites; Mag 2 from today released over Area Wide Project Site Zones 5 & 7
- <u>Thursday, July 15</u>: no aerial releases conducted
- <u>Tuesday, August 10:</u> no aerial release conducted for Mag 2 due to release aircraft issues; moths from Mag 2 destroyed
- <u>Wednesday, August 11:</u> there was a delay in takeoff time due to release aircraft issues. Mag 2 was eventually released, as normal, over the research sites; no aerial release conducted for Mag 1. Mag 1 was held an extra night in the cold room to be released the following day
- <u>Thursday, August 12:</u> Mag 1 from the previous day was released over Area Wide Project Site Zones 1 & 3; today's Mag 2 was released over research sites. Today's Mag 1 was held an extra night in the cold room to be released the following day
- <u>Friday, August 13:</u> Mag 1 from previous day was released over Area Wide Project Site Zones 1 & 3; today's Mag 2 was released over Area Wide Project Site Zones 5 & 7. The moths from today's Mag 1 were destroyed.
- <u>Sunday, August 22:</u> no magazines shipped due to shortage of shipping supplies
- Monday, August 23: no aerial releases conducted due to ongoing shortage of shipping supplies
- <u>Tuesday</u>, <u>August 24</u>: no aerial releases conducted due to ongoing shortage of shipping supplies
- <u>Saturday</u>, <u>September 11 Thursday</u>, <u>September 16</u>: no aerial releases conducted due to staffing issues
- <u>Saturday, September 18</u>: no magazines shipped due to airline cancelation of flight
- <u>Sunday, September 19</u>: no aerial releases conducted
- <u>Saturday, September 25</u>: no magazines shipped due to airline cancelation of flight
- <u>Sunday, September 26</u>: no aerial releases conducted
- <u>Saturday, October 2</u>: no magazines shipped due to airline cancelation of flight
- <u>Sunday, October 3</u>: no aerial releases conducted

#### **Navel Orangeworm Trapping**

The NOW trapping program began May 5, 2020, with all traps being serviced on a weekly basis. This trapping schedule has continued into 2021 using the previous year's Area Wide Project site containing four 640-acre orchards; two almond and two pistachio, located in Fresno County. The 2021 NOW Area Wide Project site includes the previous year's four zones and, as of May 17, 2021, it includes an additional four zones, designated as Zones 5 through 8. As with Zones 1-4, all traps in Zones 5-8 are serviced on a weekly basis. Listed below are any circumstances which prevented regular servicing in 2021:

• <u>Week of January 29</u>: Zones 1, 3, and 4 not serviced due to severe weather; only 40 of the 72 traps in Zone 2

were able to be serviced

- <u>Week of February 5:</u> Only 32 of the 72 traps in Zone 2 were able to be serviced due to poor field conditions from the severe weather during the previous week
- <u>Week of March 12:</u> Zone 4 not serviced due to severe weather
- <u>Week of March 26:</u> Zone 4 not serviced due to pesticide application on site
- <u>Week of April 30:</u> Zone 2 not serviced due to pesticide application on site
- <u>Week of June 4:</u> Zone 3 not serviced due to pesticide application on site
- <u>Week of July 9:</u> Zone 3 not serviced due to branch-wide all staff meeting
- <u>Week of July 30:</u> Zone 3 not serviced due to pesticide application on site
- <u>Week of August 20:</u> 16 of the 72 traps in Zone 3 not serviced due to ongoing harvest operations
- <u>Week of September 3:</u> Zone 5 not serviced due to ongoing harvest operations
- <u>Week of September 10:</u> Zone 3 not serviced due to staffing issues
- <u>Week of September 17:</u> Only 32 of the 72 traps in Zone 2 serviced due to ongoing harvest operations
- <u>Week of September 24</u>: Zones 3, 4, and 7 not serviced due to staffing issues; only 12 of the 72 traps in Zone 5 serviced due to staffing issues
- <u>Week of October 1:</u> Zones 1, 2, 3, and 4 not serviced due to staffing issues
- <u>Week of October 29:</u> No traps were serviced due to severe weather
- <u>Week of November 19:</u> Only 48 of the 72 traps in Zone 3 were serviced due to pesticide application on site; only 40 of the 72 traps in Zone 4 were serviced due to trapping equipment issues
- <u>Week of November 26:</u> No traps were serviced in Zone 4 due to state holiday
- <u>Week of December 10:</u> No traps were serviced in Zone 4 due to severe weather
- <u>Week of December 17:</u> No traps were serviced in Zones 2, 3, 4, 5, 6, 7, and 8 due to severe weather
- <u>Week of December 24:</u> No traps were serviced in Zones 4 and 7 due to severe weather

# II. Project Design

The NOW Area Wide Project site includes four 640-acre orchards located in Fresno County and identified as Zone 1, Zone 2, Zone 3, and Zone 4, where trapping and SIT operations have been underway since May 2020.

Zone #	Crop Type	Acres	Aerial SIT Release/Non-Release
Zone 1	Pistachio	640	Release
Zone 2	Pistachio	640	Non-Release
Zone 3	Almond	640	Release
Zone 4	Almond	640	Non-Release

As of May 17, 2021, the NOW Area Wide Project site has expanded to include two more 640-acre orchards and two 160-acre orchards located in Fresno County. These orchards are identified as Zone 5, Zone 6, Zone 7, and Zone 8.

Zone #	Crop Type	Acres	Aerial SIT Release/Non-Release
Zone 5	Pistachio	640	Release
Zone 6	Pistachio	160	Non-Release
Zone 7	Almond	640	Release
Zone 8	Almond	160	Non-Release

Each zone has a trap site ratio of approximately 1 trap site per 18 acres for a total of 36 trap sites for each 640acre 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.

# III. Trap Results for <u>Weeks Ending November 12 through December 24, 2021</u>

#### Zone 1

Zone 1 is a pistachio orchard where aerial NOW SIT releases were conducted. A total of **72** traps were collected from Zone 1 on <u>Monday</u>, <u>November 8</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 15</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 22</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 29</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</u>, <u>December 6</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</u>, <u>December 13</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

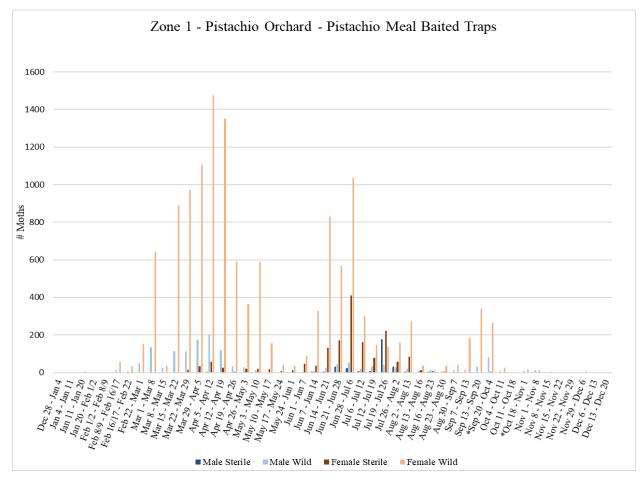
A total of **72** traps were collected from Zone 1 on <u>Monday</u>, <u>December 20</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

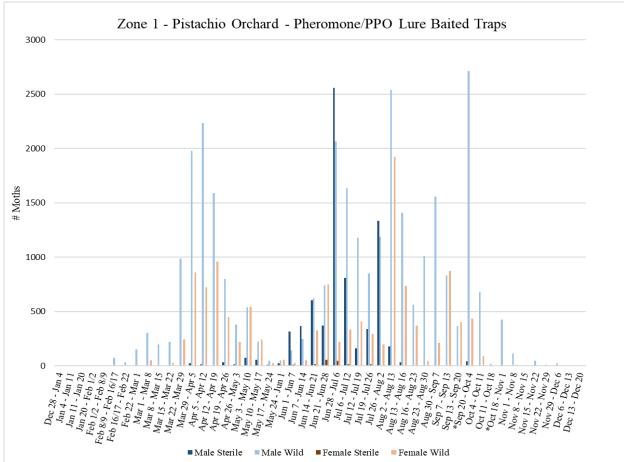
	Zone 1 - Pistachio										
Pistachio Meal Baited Traps											
	# of										
	Releases										
	During Trap	Male	Male	Male	Female	Female					
Dates Traps in Field	Period	Sterile	Wild	Total	Sterile	Wild	Female Total				
Dec 28 - Jan 4	0	0	0	0	0	0	0				
Jan 4 - Jan 11	0	0	0	0	0	0	0				
Jan 11 - Jan 20	0	0	1	1	0	3	3				
<sup>1</sup> Jan 20 - Feb 1/2	0	0	0	0	0	0	0				
<sup>2</sup> Feb 1/2 - Feb 8/9	0	0	1	1	0	1	1				
<sup>3</sup> Feb 8/9 - Feb 16/17	0	0	13	13	0	56	56				
Feb 16/17 - Feb 22	0	0	8	8	0	32	32				

Feb 22 - Mar 1	0	0	50	50	0	152	152
Mar 1 - Mar 8	0	0	134	134	0	645	645
Mar 8 - Mar 15	5	0	25	25	0	36	36
Mar 15 - Mar 22	8	0	113	113	1	889	890
Mar 22 - Mar 29	8	0	113	113	14	974	988
Mar 29 - Apr 5	8	1	175	176	32	1105	1137
Apr 5 - Apr 12	8	3	200	203	58	1474	1532
Apr 12 - Apr 19	8	0	117	117	25	1351	1376
Apr 19 - Apr 26	8	0	34	34	5	592	597
Apr 26 - May 3	8	0	29	29	21	365	386
May 3 - May 10	8	0	13	13	20	588	608
May 10 - May 17	8	0	0	0	16	156	172
May 17 - May 24	8	0	0	0	7	40	47
May 24 - Jun 1	9	1	1	2	13	36	49
Jun 1 - Jun 7	7	0	3	3	46	90	136
Jun 7 - Jun 14	8	5	8	13	35	329	364
Jun 14 - Jun 21	8	5	25	30	131	829	960
Jun 21 - Jun 28	8	31	45	76	171	568	739
Jun 28 - Jul 6	8	22	52	74	411	1038	1449
Jul 6 - Jul 12	6	8	21	29	160	302	462
Jul 12 - Jul 19	6	8	34	42	79	147	226
Jul 19 - Jul 26	8	177	42	219	221	137	358
Jul 26 - Aug 2	8	30	29	59	57	160	217
Aug 2 - Aug 13	11	3	20	23	83	271	354
Aug 13 - Aug 16	4	0	9	9	11	35	46
Aug 16 - Aug 23	7	3	14	17	8	15	23
Aug 23 - Aug 30	6	1	7	8	5	35	40
Aug 30 - Sep 7	9	1	13	14	1	40	41
Sep 7 - Sep 13	4	0	11	11	1	183	184
Sep 13 - Sep 20	3	0	31	31	2	339	341
*Sep 20 - Oct 4	13	1	81	82	3	265	268
Oct 4 - Oct 11	8	0	7	7	2	24	26
Oct 11 - Oct 18	6	0	1	1	0	2	2
*Oct 18 - Nov 1	0	0	6	6	0	16	16
Nov 1 - Nov 8	0	0	11	11	0	13	13
Nov 8 - Nov 15	0	0	2	2	0	3	3
Nov 15 - Nov 22	0	0	1	1	0	2	2
Nov 22 - Nov 29	0	0	1	1	0	0	0
Nov 29 - Dec 6	0	0	1	1	0	8	8
Dec 6 - Dec 13	0	0	0	0	0	0	0
Dec 13 - Dec 20	0	0	0	0	0	0	0
	21 of the 36 trap						
	19 of the 36 trap				•		
<sup>3</sup> 12	2 of the 36 traps					on <u>Feb 17</u>	
		*All trap	os in field f	or two weel	ks		

		Zo	ne 1 - Pi	stachio			
		Pheromor	ne/PPO Lur	e Baited Tr	aps		
	# of	1			upo (		
	Releases						
	During Trap	Male	Male	Male	Female	Female	
Dates Traps in Field	Period	Sterile	Wild	Total	Sterile	Wild	Female Total
Dec 28 - Jan 4	0	0	0	0	0	0	0
Jan 4 - Jan 11	0	0	3	3	0	0	0
Jan 11 - Jan 20	0	0	5	5	0	0	0
<sup>1</sup> Jan 20 - Feb 1/2	0	0	1	1	0	0	0
<sup>2</sup> Feb 1/2 - Feb 8/9	0	0	0	0	0	0	0
<sup>3</sup> Feb 8/9 - Feb 16/17	0	0	74	74	0	0	0
Feb 16/17 - Feb 22	0	0	31	31	0	1	1
Feb 22 - Mar 1	0	0	152	152	0	3	3
Mar 1 - Mar 8	0	0	303	303	0	53	53
Mar 8 - Mar 15	5	1	199	200	0	7	7
Mar 15 - Mar 22	8	0	222	222	0	28	28
Mar 22 - Mar 29	8	0	988	988	0	242	242
Mar 29 - Apr 5	8	22	1980	2002	5	858	863
Apr 5 - Apr 12	8	13	2235	2248	4	722	726
Apr 12 - Apr 12	8	7	1588	1595	3	958	961
Apr 19 - Apr 26	8	35	798	833	0	448	448
Apr 26 - May 3	8	14	379	393	2	220	222
May 3 - May 10	8	75	542	617	1	546	547
May 10 - May 17	8	57	226	283	2	243	245
May 17 - May 24	8	10	46	56	3	243	243
May 24 - Jun 1	9	24	50	74	2	57	59
Jun 1 - Jun 7	7	314	142	456	9	27	36
Jun 7 - Jun 7	8	368	247	615	5	50	55
Jun 14 - Jun 21	8	602	620	1222	14	325	339
Jun 21 - Jun 28	8	370	740	11110	56	749	805
Jun 28 - Jul 6	8	2558		4622		218	263
Jul 28 - Jul 8 Jul 6 - Jul 12	<u> </u>	810	2064 1635	2445	45 13	332	345
		159					
Jul 12 - Jul 19	6 8		1180	1339	6 13	408	414
Jul 19 - Jul 26	8	338	851	1189	13 7	292 199	305
Jul 26 - Aug 2		1333	1187	2520			206
Aug 2 - Aug 13	11	180	2540	2720	6	1921	1927
Aug 13 - Aug 16	4	33	1406	1439	3	734	737
Aug 16 - Aug 23	7	4	562	566		371	374
Aug 23 - Aug 30	6	3	1010	1013	1	45	46
Aug 30 - Sep 7	9	2	1559	1561	0	213	213
Sep 7 - Sep 13	4	0	833	833	2	871	873
Sep 13 - Sep 20	3	0	364	364	0	404	404
*Sep 20 - Oct 4	13	43	2714	2757	0	436	436
Oct 4 - Oct 11	8	3	682	685	0	92	92
Oct 11 - Oct 18	6	1	20	21	0	7	7
*Oct 18 - Nov 1	0	1	426	427	0	1	1
Nov 1 - Nov 8	0	0	113	113	0	10	10
Nov 8 - Nov 15	0	0	6	6	0	1	1
Nov 15 - Nov 22	0	0	45	45	0	2	2
Nov 22 - Nov 29	0	0	8	8	0	0	0
Nov 29 - Dec 6	0	0	22	22	0	4	4
Dec 6 - Dec 13	0	0	2	2	0	0	0

Dec 13 - Dec 20	0	0	0	0	0	0	0		
<sup>1</sup> 21 of the 36 traps serviced on <u>Feb 1</u> ; 15 of the 36 traps serviced on <u>Feb 2</u>									
2]	<sup>2</sup> 19 of the 36 traps serviced on Feb 8; 17 of the 36 traps serviced on Feb 9								
<sup>3</sup> 12 of the 36 traps serviced on <u>Feb 16</u> ; 24 of the 36 traps serviced on <u>Feb 17</u>									
	*All traps in field for two weeks								





Zone 2 is a pistachio orchard where aerial NOW SIT releases were not conducted. A total of **72** traps were collected from Zone 2 on <u>Tuesday</u>, <u>November 9</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</u>, <u>November 16</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</u>, <u>November 23</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</u>, <u>November 30</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</u>, <u>December 7</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

No traps were collected from Zone 2 during the week of <u>December 17</u> due to severe weather on site.

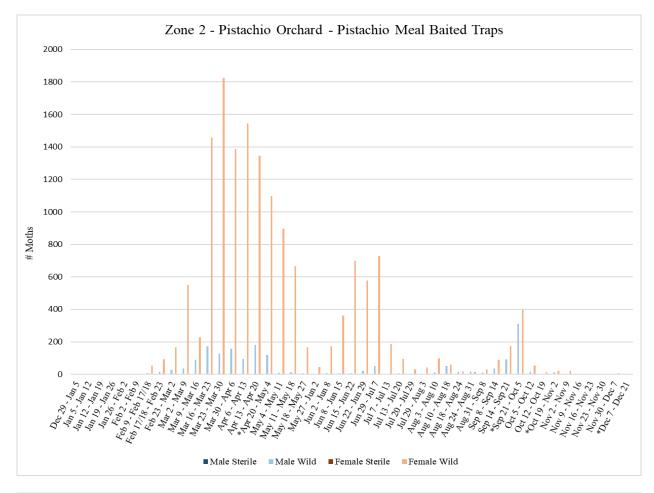
A total of **72** traps were collected from Zone 2 on <u>Tuesday</u>, <u>December 21</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

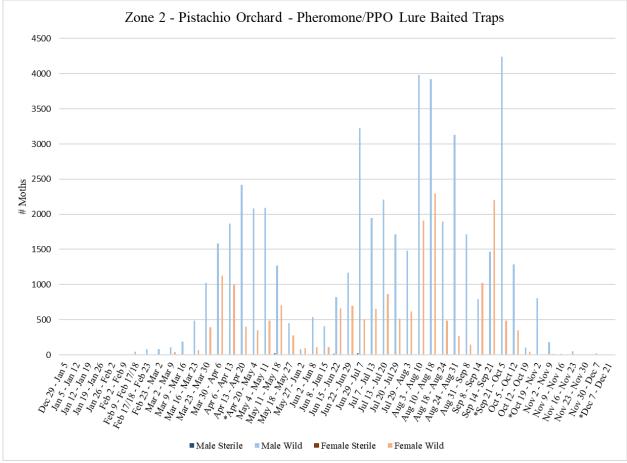
		Zor	ne 2 - Pis	stachio			
		Pistach	nio Meal Ba	aited Traps			
	# of Releases						
Dates Traps in	During Trap	Male	Male	Male	Female	Female	
Field	Period	Sterile	Wild	Total	Sterile	Wild	Female Total
Dec 29 - Jan 5	0	0	0	0	0	0	0
Jan 5 - Jan 12	0	0	0	0	0	0	0
Jan 12 - Jan 19	0	0	0	0	0	0	0
Jan 19 - Jan 26	0	0	0	0	0	0	0
<sup>1</sup> Jan 26 - Feb 2	0	0	0	0	0	0	0
Feb 2 - Feb 9	0	0	1	1	0	1	1
<sup>2</sup> Feb 9 - Feb 17/18	0	0	7	7	0	55	55
Feb 17/18 - Feb 23	0	0	14	14	0	91	91
Feb 23 - Mar 2	0	0	26	26	0	165	165
Mar 2 - Mar 9	0	0	37	37	0	551	551
Mar 9 - Mar 16	0	0	88	88	0	229	229
Mar 16 - Mar 23	0	0	172	172	0	1458	1458
Mar 23 - Mar 30	0	0	129	129	0	1825	1825
Mar 30 - Apr 6	0	0	158	158	0	1387	1387
Apr 6 - Apr 13	0	0	95	95	0	1543	1543
Apr 13 - Apr 20	0	0	180	180	0	1347	1347
*Apr 20 - May 4	0	0	120	120	0	1097	1097
May 4 - May 11	0	0	10	10	0	897	897
May 11 - May 18	0	0	13	13	0	665	665
May 18 - May 27	0	0	7	7	0	167	167
May 27 - Jun 2	0	0	0	0	0	45	45
Jun 2 - Jun 8	0	0	8	8	1	173	174
Jun 8 - Jun 15	0	0	6	6	0	361	361
Jun 15 - Jun 22	0	0	8	8	0	698	698
Jun 22 - Jun 29	0	0	20	20	1	576	577
Jun 29 - Jul 7	0	0	52	52	0	728	728

Jul 7 - Jul 13	0	0	1	1	0	188	188
Jul 13 - Jul 20	0	0	8	8	0	94	94
Jul 20 - Jul 29	0	0	5	5	0	30	30
Jul 29 - Aug 3	0	0	2	2	0	41	41
Aug 3 - Aug 10	0	0	12	12	0	98	98
Aug 10 - Aug 18	0	0	50	50	0	59	59
Aug 18 - Aug 24	0	0	15	15	0	17	17
Aug 24 - Aug 31	0	0	16	16	0	15	15
Aug 31 - Sep 8	0	0	10	10	0	31	31
<sup>3</sup> Sep 8 - Sep 14	0	0	37	37	0	88	88
Sep 14 - Sep 21	0	0	92	92	0	175	175
*Sep 21 - Oct 5	0	0	311	311	0	397	397
Oct 5 - Oct 12	0	0	14	14	0	53	53
Oct 12 - Oct 19	0	0	0	0	0	13	13
*Oct 19 - Nov 2	0	0	13	13	0	22	22
Nov 2 - Nov 9	0	0	3	3	0	22	22
Nov 9 - Nov 16	0	0	0	0	0	2	2
Nov 16 - Nov 23	0	0	0	0	0	5	5
Nov 23 - Nov 30	0	0	2	2	0	2	2
Nov 30 - Dec 7	0	0	1	1	0	8	8
*Dec 7 - Dec 21	0	0	0	0	0	0	0
	<sup>1</sup> 20 traps unserv						
	5 of these traps i						
25	of the 36 traps					on <u>Feb 18</u>	
	-			or two wee			
	<sup>3</sup> Only 16 of the	e 36 traps ser	rviced this	week due t	o harvest oper	ations	

	Zone 2 - Pistachio										
		Pheromone	/PPO Lure	Baited Trap	DS						
	# of Releases During Trap	Male	Male	Male	Female	Female	Female				
Dates Traps in Field	Period	Sterile	Wild	Total	Sterile	Wild	Total				
Dec 29 - Jan 5	0	0	0	0	0	0	0				
Jan 5 - Jan 12	0	0	1	1	0	0	0				
Jan 12 - Jan 19	0	0	6	6	0	0	0				
Jan 19 - Jan 26	0	0	4	4	0	0	0				
<sup>1</sup> Jan 26 - Feb 2	0	0	1	1	0	0	0				
Feb 2 - Feb 9	0	0	0	0	0	0	0				
<sup>2</sup> Feb 9 - Feb 17/18	0	0	46	46	0	0	0				
Feb 17/18 - Feb 23	0	0	83	83	0	0	0				
Feb 23 - Mar 2	0	0	78	78	0	4	4				
Mar 2 - Mar 9	0	0	109	109	0	33	33				
Mar 9 - Mar 16	0	0	192	192	0	3	3				
Mar 16 - Mar 23	0	0	484	484	0	65	65				
Mar 23 - Mar 30	0	0	1027	1027	0	389	389				
Mar 30 - Apr 6	0	0	1584	1584	0	1124	1124				
Apr 6 - Apr 13	0	0	1866	1866	0	992	992				
Apr 13 - Apr 20	0	0	2416	2416	0	400	400				
*Apr 20 - May 4	0	0	2081	2081	0	349	349				
May 4 - May 11	0	0	2092	2092	0	484	484				

May 11 - May 18	0	19	1268	1287	2	701	703
May 18 - May 27	0	0	450	450	0	276	276
May 27 - Jun 2	0	0	82	82	0	94	94
Jun 2 - Jun 8	0	3	541	544	0	110	110
Jun 8 - Jun 15	0	2	406	408	0	110	110
Jun 15 - Jun 22	0	16	820	836	0	662	662
Jun 22 - Jun 29	0	0	1171	1171	0	698	698
Jun 29 - Jul 7	0	24	3227	3251	0	501	501
Jul 7 - Jul 13	0	2	1947	1949	0	656	656
Jul 13 - Jul 20	0	0	2210	2210	0	864	864
Jul 20 - Jul 29	0	0	1716	1716	0	516	516
Jul 29 - Aug 3	0	3	1479	1482	0	614	614
Aug 3 - Aug 10	0	0	3983	3983	0	1910	1910
Aug 10 - Aug 18	0	1	3925	3926	0	2293	2293
Aug 18 - Aug 24	0	0	1899	1899	0	485	485
Aug 24 - Aug 31	0	0	3131	3131	0	269	269
Aug 31 - Sep 8	0	0	1714	1714	0	148	148
<sup>3</sup> Sep 8 - Sep 14	0	0	792	792	0	1025	1025
Sep 14 - Sep 21	0	0	1464	1464	0	2198	2198
*Sep 21 - Oct 5	0	0	4239	4239	0	490	490
Oct 5 - Oct 12	0	0	1289	1289	0	345	345
Oct 12 - Oct 19	0	0	100	100	0	40	40
*Oct 19 - Nov 2	0	0	807	807	0	4	4
Nov 2 - Nov 9	0	0	179	179	0	12	12
Nov 9 - Nov 16	0	0	15	15	0	1	1
Nov 16 - Nov 23	0	0	48	48	0	0	0
Nov 23 - Nov 30	0	0	8	8	0	0	0
Nov 30 - Dec 7	0	0	19	19	0	2	2
*Dec 7 - Dec 21	0	0	8	8	0	0	0
	20 traps unserv						
	of these traps in						
25	of the 36 traps s					Feb 18	
	20.1.16.61	•	in field for				
	<sup>3</sup> Only 16 of the	36 traps serv	viced this w	reek due to	harvest operati	ons	





Zone 3 is an almond orchard where aerial NOW SIT releases were conducted. A total of **72** traps were collected from Zone 3 on <u>Wednesday</u>, <u>November 10</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **48** traps were collected from Zone 3 on <u>Wednesday</u>, <u>November 17</u>, with **24** pistachio meal baited traps and **24** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 3 on <u>Wednesday</u>, <u>November 24</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 3 on <u>Wednesday</u>, <u>December 1</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 3 on <u>Wednesday</u>, <u>December 8</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

No traps were collected from Zone 3 during the week of December 17 due to severe weather on site.

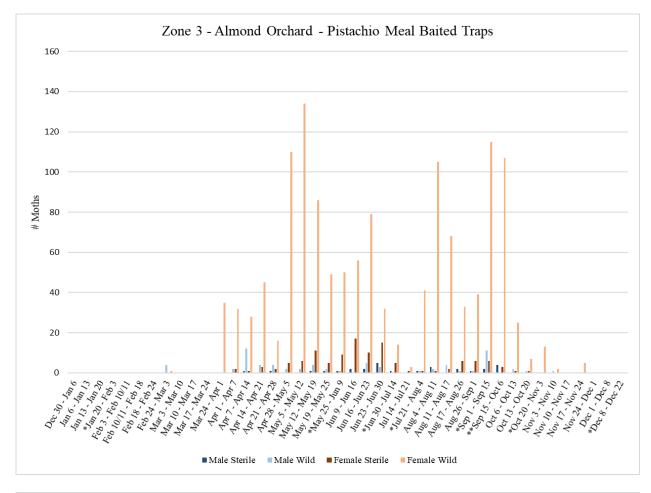
A total of **72** traps were collected from Zone 3 on <u>Wednesday</u>, <u>December 22</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

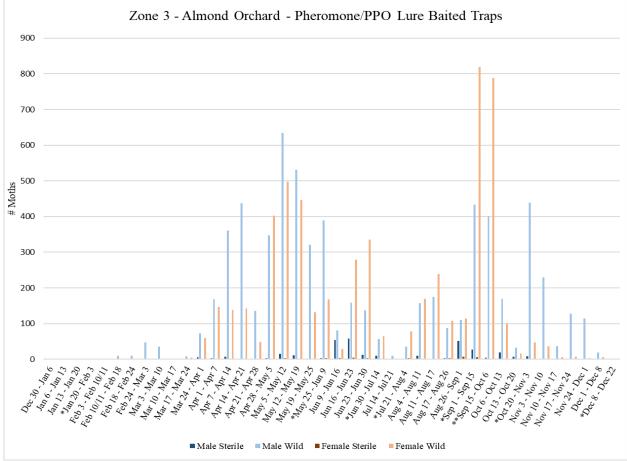
	Zone 3 - Almond											
		Pistach	nio Meal Ba	aited Traps								
	# of Releases											
Dates Traps in	During Trap	Male	Male	Male	Female	Female						
Field	Period	Sterile	Wild	Total	Sterile	Wild	Female Total					
Dec 30 - Jan 6	0	0	0	0	0	0	0					
Jan 6 - Jan 13	0	0	0	0	0	0	0					
Jan 13 - Jan 20	0	0	0	0	0	0	0					
*Jan 20 - Feb 3	0	0	0	0	0	0	0					
<sup>1</sup> Feb 3 - Feb 10/11	0	0	0	0	0	0	0					
Feb 10/11 - Feb 18	0	0	0	0	0	0	0					
Feb 18 - Feb 24	0	0	0	0	0	0	0					
Feb 24 - Mar 3	0	0	4	4	0	1	1					
Mar 3 - Mar 10	1	0	0	0	0	0	0					
Mar 10 - Mar 17	8	0	0	0	0	0	0					
Mar 17 - Mar 24	8	0	0	0	0	0	0					
Mar 24 - Apr 1	8	0	0	0	0	35	35					
Apr 1 - Apr 7	7	0	2	2	2	32	34					
Apr 7 - Apr 14	8	1	12	13	1	28	29					
Apr 14 - Apr 21	8	0	4	4	3	45	48					
Apr 21 - Apr 28	8	1	4	5	2	16	18					
Apr 28 - May 5	8	0	2	2	5	110	115					
May 5 - May 12	8	0	2	2	6	134	140					
May 12 - May 19	8	1	4	5	11	86	97					
May 19 - May 25	7	1	2	3	5	49	54					
*May 25 - Jun 9	16	1	1	2	9	50	59					
Jun 9 - Jun 16	8	2	0	2	17	56	73					
Jun 16 - Jun 23	8	2	5	7	10	79	89					
Jun 23 - Jun 30	8	5	3	8	15	32	47					
*Jun 30 - Jul 14	13	1	0	1	5	14	19					
Jul 14 - Jul 21	7	0	0	0	1	3	4					

*Jul 21 - Aug 4	15	1	1	2	1	41	42			
Aug 4 - Aug 11	7	3	2	5	1	105	106			
Aug 11 - Aug 17	6	0	4	4	2	68	70			
Aug 17 - Aug 26	8	2	1	3	6	33	39			
Aug 26 - Sep 1	7	1	1	2	6	39	45			
*Sep 1 - Sep 15	10	2	11	13	6	115	121			
**Sep 15 - Oct 6	17	4	0	4	3	107	110			
Oct 6 - Oct 13	8	0	2	2	1	25	26			
Oct 13 - Oct 20	4	0	1	1	1	7	8			
*Oct 20 - Nov 3	0	0	0	0	0	13	13			
Nov 3 - Nov 10	0	0	1	1	0	2	2			
<sup>2</sup> Nov 10 - Nov 17	0	0	0	0	0	0	0			
Nov 17 - Nov 24	0	0	0	0	0	5	5			
Nov 24 - Dec 1	0	0	0	0	0	0	0			
Dec 1 - Dec 8	0	0	0	0	0	0	0			
*Dec 8 - Dec 22	0	0	0	0	0	0	0			
	*All traps in field for two weeks									
17	of the 36 traps	serviced on ]	Feb 10; 29	of the 36 tr	aps serviced o	n <u>Feb 11</u>				
	**All traps in field for three weeks									
<sup>2</sup> Only 24	of the 36 traps	s were servi	ced this we	ek due to	pesticide appl	ications on s	ite			

	Zone 3 - Almond									
		Pheromone	/PPO Lure	Baited Trap	DS					
	# of Releases									
	During Trap	Male	Male	Male	Female	Female	Female			
Dates Traps in Field	Period	Sterile	Wild	Total	Sterile	Wild	Total			
Dec 30 - Jan 6	0	0	0	0	0	0	0			
Jan 6 - Jan 13	0	0	0	0	0	0	0			
Jan 13 - Jan 20	0	0	0	0	0	0	0			
*Jan 20 - Feb 3	0	0	0	0	0	0	0			
<sup>1</sup> Feb 3 - Feb 10/11	0	0	0	0	0	0	0			
Feb 10/11 - Feb 18	0	0	9	9	0	0	0			
Feb 18 - Feb 24	0	0	10	10	0	0	0			
Feb 24 - Mar 3	0	0	47	47	0	0	0			
Mar 3 - Mar 10	1	0	35	35	0	0	0			
Mar 10 - Mar 17	8	0	1	1	0	0	0			
Mar 17 - Mar 24	8	0	8	8	0	4	4			
Mar 24 - Apr 1	8	6	73	79	0	59	59			
Apr 1 - Apr 7	7	3	168	171	0	147	147			
Apr 7 - Apr 14	8	7	361	368	0	138	138			
Apr 14 - Apr 21	8	0	437	437	0	143	143			
Apr 21 - Apr 28	8	2	136	138	0	49	49			
Apr 28 - May 5	8	3	348	351	1	403	404			
May 5 - May 12	8	15	634	649	3	498	501			
May 12 - May 19	8	11	531	542	0	447	447			
May 19 - May 25	7	2	321	323	1	132	133			
*May 25 - Jun 9	16	3	389	392	3	168	171			
Jun 9 - Jun 16	8	54	81	135	3	28	31			
Jun 16 - Jun 23	8	58	158	216	4	279	283			
Jun 23 - Jun 30	8	12	137	149	3	335	338			

*Jun 30 - Jul 14	13	9	56	65	0	64	64
Jul 14 - Jul 21	7	0	10	10	0	2	2
*Jul 21 - Aug 4	15	0	35	35	3	78	81
Aug 4 - Aug 11	7	9	157	166	2	169	171
Aug 11 - Aug 17	6	0	175	175	0	239	239
Aug 17 - Aug 26	8	3	88	91	3	107	110
Aug 26 - Sep 1	7	51	110	161	7	114	121
*Sep 1 - Sep 15	10	27	433	460	5	819	824
**Sep 15 - Oct 6	17	4	401	405	1	789	790
Oct 6 - Oct 13	8	19	169	188	0	101	101
Oct 13 - Oct 20	4	7	32	39	0	17	17
*Oct 20 - Nov 3	0	8	438	446	0	47	47
Nov 3 - Nov 10	0	0	230	230	0	36	36
<sup>2</sup> Nov 10 - Nov 17	0	0	37	37	0	5	5
Nov 17 - Nov 24	0	0	128	128	0	7	7
Nov 24 - Dec 1	0	0	114	114	0	3	3
Dec 1 - Dec 8	0	0	19	19	0	5	5
*Dec 8 - Dec 22	0	0	2	2	0	0	0
		*All traps	in field for	r two week	s		
17	of the 36 traps s	erviced on F	<u>eb 10;</u> 29 o	f the 36 traj	os serviced on	Feb 11	
		**All traps	in field for	three week	CS		
<sup>2</sup> Only 24	of the 36 traps	were service	ed this wee	k due to p	esticide applic	ations on site	e





Zone 4 is an almond orchard where aerial NOW SIT releases were not conducted. A total of **72** traps were collected from Zone 4 on <u>Friday</u>, <u>November 12</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **40** traps were collected from Zone 4 on <u>Thursday, November 18</u>, with **20** pistachio meal baited traps and **20** pheromone/PPO lure traps.

No traps were collected from Zone 4 during the week of <u>November 26</u> due to state holiday.

A total of **72** traps were collected from Zone 4 on <u>Thursday, December 2</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

No traps were collected from Zone 4 during the week of <u>December 10</u> due to severe weather on site.

No traps were collected from Zone 4 during the week of December 17 due to severe weather on site

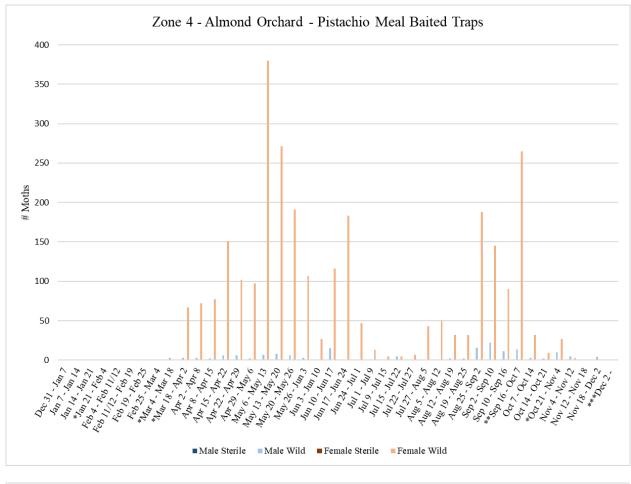
No traps were collected from Zone 4 during the week of December 24 due to severe weather on site

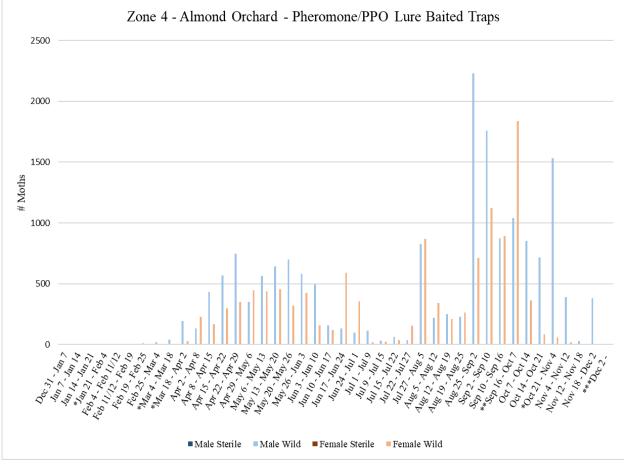
		Zon	e 4 - Alr	nond			
		Pistachi	o Meal Bai	ited Traps			
	# of Releases						
	During Trap	Male	Male	Male	Female	Female	Female
Dates Traps in Field	Period	Sterile	Wild	Total	Sterile	Wild	Total
Dec 31 - Jan 7	0	0	0	0	0	0	0
Jan 7 - Jan 14	0	0	0	0	0	0	0
Jan 14 - Jan 21	0	0	0	0	0	0	0
*Jan 21 - Feb 4	0	0	0	0	0	0	0
<sup>1</sup> Feb 4 - Feb 11/12	0	0	0	0	0	0	0
Feb 11/12 - Feb 19	0	0	0	0	0	0	0
Feb 19 - Feb 25	0	0	0	0	0	0	0
Feb 25 - Mar 4	0	0	1	1	0	0	0
*Mar 4 - Mar 18	0	0	3	3	0	0	0
*Mar 18 - Apr 2	0	0	3	3	0	67	67
Apr 2 - Apr 8	0	0	3	3	0	72	72
Apr 8 - Apr 15	0	0	2	2	0	77	77
Apr 15 - Apr 22	0	0	6	6	0	151	151
Apr 22 - Apr 29	0	0	6	6	0	102	102
Apr 29 - May 6	0	0	2	2	0	97	97
May 6 - May 13	0	0	7	7	0	380	380
May 13 - May 20	0	0	8	8	0	271	271
May 20 - May 26	0	0	6	6	0	191	191
May 26 - Jun 3	0	0	3	3	0	107	107
Jun 3 - Jun 10	0	0	1	1	0	27	27
Jun 10 - Jun 17	0	0	15	15	0	116	116
Jun 17 - Jun 24	0	0	1	1	0	183	183
Jun 24 - Jul 1	0	0	0	0	1	47	48
Jul 1 - Jul 9	0	0	0	0	0	13	13
Jul 9 - Jul 15	0	0	0	0	0	5	5
Jul 15 - Jul 22	0	0	5	5	0	5	5
Jul 22 - Jul 27	0	0	0	0	0	7	7
Jul 27 - Aug 5	0	0	1	1	0	43	43
Aug 5 - Aug 12	0	0	0	0	0	50	50

Aug 12 - Aug 19	0	0	2	2	0	32	32				
Aug 19 - Aug 25	0	0	2	2	0	32	32				
Aug 25 - Sep 2	0	0	16	16	0	188	188				
Sep 2 - Sep 10	0	0	22	22	0	145	145				
Sep 10 - Sep 16											
**Sep 16 - Oct 7											
Oct 7 - Oct 14	0	0	3	3	0	32	32				
Oct 14 - Oct 21	0	0	2	2	0	9	9				
*Oct 21 - Nov 4	0	0	10	10	0	27	27				
Nov 4 - Nov 12	0	0	5	5	0	3	3				
<sup>2</sup> Nov 12 - Nov 18	0	0	0	0	0	0	0				
<sup>3</sup> Nov 18 - Dec 2	0	0	4	4	0	0	0				
Dec 2 -											
		*All traps	in field for	two weeks							
<sup>1</sup> 18	of the 36 traps s	serviced on H	<u>Feb 11;</u> 18 o	of the 36 tra	ps serviced on	<u>Feb 12</u>					
		1		three week							
<sup>2</sup> Only 20	of the 36 traps	s were servi	ced this we	ek due to t	rapping equip	ment issues					
<sup>3</sup> 20 of the previous	y serviced trap			,	e previously u	nserviced tra	ps in field				
			or three we								
**:	*No traps servic	ed in Zone 4	since 12/2	21 due to s	evere weather	on site					

		Zo	ne 4 - A	lmond			
		Pheromon	e/PPO Lur	e Baited Ti	aps		
	# of						
	Releases						
Dates Traps in	During Trap	Male	Male	Male	Female	Female	
Field	Period	Sterile	Wild	Total	Sterile	Wild	Female Total
Dec 31 - Jan 7	0	0	0	0	0	0	0
Jan 7 - Jan 14	0	0	0	0	0	0	0
Jan 14 - Jan 21	0	0	0	0	0	0	0
*Jan 21 - Feb 4	0	0	0	0	0	0	0
<sup>1</sup> Feb 4 - Feb 11/12	0	0	0	0	0	0	0
Feb 11/12 - Feb 19	0	0	4	4	0	0	0
Feb 19 - Feb 25	0	0	9	9	0	0	0
Feb 25 - Mar 4	0	0	20	20	0	0	0
*Mar 4 - Mar 18	0	0	38	38	0	0	0
*Mar 18 - Apr 2	0	0	192	192	0	26	26
Apr 2 - Apr 8	0	0	131	131	0	229	229
Apr 8 - Apr 15	0	0	431	431	0	165	165
Apr 15 - Apr 22	0	0	570	570	0	299	299
Apr 22 - Apr 29	0	0	745	745	0	351	351
Apr 29 - May 6	0	0	352	352	0	445	445
May 6 - May 13	0	0	564	564	0	439	439
May 13 - May 20	0	0	643	643	0	454	454
May 20 - May 26	0	0	697	697	0	318	318
May 26 - Jun 3	0	0	582	582	0	424	424
Jun 3 - Jun 10	0	0	496	496	0	159	159
Jun 10 - Jun 17	0	0	160	160	0	120	120
Jun 17 - Jun 24	0	0	130	130	0	590	590

0	0	96	96	0	355	355					
0	0	113	113	0	18	18					
0	0	31	31	0	23	23					
0	0	64	64	0	34	34					
0	0	36	36	0	154	154					
0	0	826	826	0	867	867					
0	0	217	217	0	342	342					
0	0	251	251	0	212	212					
0	0	227	227	0	262	262					
0	0	2231	2231	0	712	712					
0	0	1760	1760	0	1122	1122					
0	0	872	872	0	892	892					
0	0	850	850	0	364	364					
0	0	716	716	0	84	84					
0	0	1534	1534	0	59	59					
0	0	387	387	0	19	19					
0	0	29	29	0	4	4					
0	0	380	380	0	7	7					
of the 36 traps					on <u>Feb 12</u>						
ly serviced tra	-			he previously	v unserviced t	raps in field					
*No traps servi	iced in Zone	4 since 12/	2/21 due to	severe weath	er on site						
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0         0           *All trap           of the 36 traps serviced on           **All trap           0 of the 36 traps were serviced on	0         0         113           0         0         31           0         0         64           0         0         36           0         0         826           0         0         217           0         0         221           0         0         2231           0         0         2231           0         0         1760           0         0         872           0         0         872           0         0         850           0         0         1041           0         0         850           0         0         1534           0         0         387           0         0         387           0         0         380           *All traps in field fease           *All traps in field fease         **All traps in field fease           0         0         11; 18           **All traps in field for two week         for three w	0         0         113         113           0         0         31         31           0         0         64         64           0         0         36         36           0         0         826         826           0         0         217         217           0         0         251         251           0         0         2231         2231           0         0         1760         1760           0         0         872         872           0         0         850         850           0         0         1041         1041           0         0         850         850           0         0         1534         1534           0         0         387         387           0         0         380         380           *All traps in field for two week         *All traps in field for three we           0 of the 36 traps serviced on Feb 11; 18 of the 36 traps         *All traps in field for three we           0 of the 36 traps were serviced this week due to the serviced traps in field for three weeks; 16 of the serviced traps in field for two weeks; 16 of the serviced traps in fiel	0         0         113         113         0           0         0         31         31         0           0         0         64         64         0           0         0         36         36         0           0         0         36         36         0           0         0         826         826         0           0         0         217         217         0           0         0         251         251         0           0         0         2231         2231         0           0         0         1760         1760         0           0         0         872         872         0           0         0         1041         1041         0           0         0         850         850         0           0         0         1534         1534         0           0         0         380         380         0           *All traps in field for two weeks         0         0         380         380           0 of the 36 traps serviced on Feb 11; 18 of the 36 traps serviced         **Allt traps in fiel	0         0         113         113         0         18           0         0         31         31         0         23           0         0         64         64         0         34           0         0         36         36         0         154           0         0         826         826         0         867           0         0         217         217         0         342           0         0         251         251         0         212           0         0         227         227         0         262           0         0         2231         2231         0         712           0         0         1760         1760         0         1122           0         0         872         872         0         892           0         0         1041         1041         0         1838           0         0         850         850         0         364           0         0         1534         1534         0         59           0         0         380         380					





Zone 5 is a pistachio orchard where aerial NOW SIT releases were conducted. A total of **72** traps were collected from Zone 5 on <u>Monday</u>, <u>November 8</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 5 on <u>Monday</u>, <u>November 15</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 5 on <u>Monday, November 22</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 5 on <u>Monday, November 29</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

A total of **72** traps were collected from Zone 5 on <u>Monday</u>, <u>December 6</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

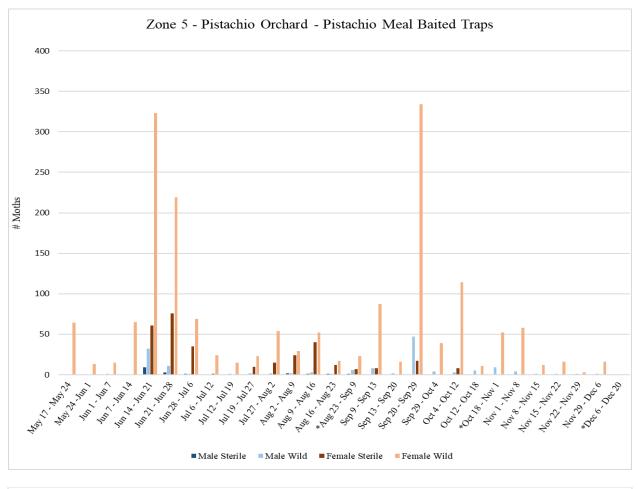
No traps were collected in Zone 5 during the week of <u>December 17</u> due to severe weather on site.

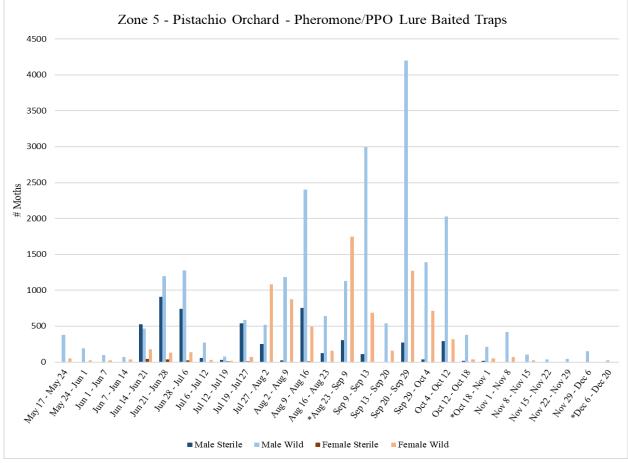
A total of **72** traps were collected from Zone 5 on <u>Monday</u>, <u>December 20</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

		Zo	ne 5 - Pi	stachio			
		Pistac	hio Meal B	aited Traps			
	# of Releases						
Dates Traps in	During Trap	Male	Male	Male	Female	Female	Female
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total
May 17 - May 24	0	0	0	0	0	64	64
May 24 -Jun 1	0	0	0	0	0	13	13
Jun 1 - Jun 7	0	0	1	1	0	15	15
Jun 7 - Jun 14	0	0	0	0	0	65	65
Jun 14 - Jun 21	4	9	32	41	61	323	384
Jun 21 - Jun 28	6	3	11	14	76	219	295
Jun 28 - Jul 6	6	1	1	2	35	69	104
Jul 6 - Jul 12	3	0	0	0	1	24	25
Jul 12 - Jul 19	6	0	1	1	0	15	15
Jul 19 - Jul 27	7	0	2	2	10	23	33
Jul 27 - Aug 2	5	0	2	2	15	54	69
Aug 2 - Aug 9	6	2	2	4	24	29	53
Aug 9 - Aug 16	^6	1	3	4	40	52	92
Aug 16 - Aug 23	^6	1	1	2	12	17	29
*Aug 23 - Sep 9	^11	1	6	7	7	23	30
Sep 9 - Sep 13	0	0	8	8	8	87	95
<sup>1</sup> Sep 13 - Sep 20	3	0	2	2	0	16	16
Sep 20 - Sep 29	6	0	47	47	17	334	351
Sep 29 - Oct 4	3	0	4	4	0	39	39
Oct 4 - Oct 12	7	0	3	3	8	114	122
Oct 12 - Oct 18	4	0	5	5	0	11	11
*Oct 18 - Nov 1	0	0	9	9	0	52	52
Nov 1 - Nov 8	0	0	4	4	0	58	58
Nov 8 - Nov 15	0	0	1	1	0	12	12
Nov 15 - Nov 22	0	0	1	1	0	16	16
Nov 22 - Nov 29	0	0	1	1	0	3	3

Nov 29 - Dec 6	0	0	1	1	0	16	16				
*Dec 6 - Dec 20	0	0	0	0	0	0	0				
	^Extra moths from Mag 2 released over Zone 5 on select Thursdays										
	*All traps in field for two weeks										
	<sup>1</sup> Only 6 of the 36 traps serviced this week due to staffing issues										

		Zo	ne 5 - Pis	stachio			
		Pheromor	ne/PPO Lur	e Baited Tra	aps		
Dates Traps in	# of Releases During Trap Period	Male Sterile	Male Wild	Male	Female Sterile	Female Wild	Female Total
Field	0	0	381	Total 381			50
May 17 - May 24	0	0	188	188	0	50 26	26
May 24 - Jun 1	0	-			0	20	20
Jun 1 - Jun 7 Jun 7 - Jun 14	0	0	100 70	100 70	0	38	38
	4	525	467	992	44	176	220
Jun 14 - Jun 21							
Jun 21 - Jun 28 Jun 28 - Jul 6	6	907	1198 1274	2105 2013	37	132	169
Jul 28 - Jul 8 Jul 6 - Jul 12	6 3	739 57	271	328	21 2	136 33	157 35
	5 6	27	75	102	7	17	24
Jul 12 - Jul 19	7	540	585	102	9	69	78
Jul 19 - Jul 27	5	252	585	773	4	1085	1089
Jul 27 - Aug 2	6	232	1185	1209	4	875	879
Aug 2 - Aug 9	0 ^6	756	2403	3159	8	490	498
Aug 9 - Aug 16	^6	125	640	765	<u> </u>	159	163
Aug 16 - Aug 23 *Aug 23 - Sep 9	^11	304	1129	1433	5	1748	1753
Sep 9 - Sep 13	0	111	2992	3103	3	687	690
<b>.</b>	3	2	542	544	0	160	160
<sup>1</sup> Sep 13 - Sep 20	<u> </u>	274	4202	4476	4	1272	1276
Sep 20 - Sep 29	3	38	1394	1432	0	715	715
Sep 29 - Oct 4 Oct 4 - Oct 12	<u> </u>	<u> </u>	2026	2320	0	316	316
Oct 12 - Oct 12 Oct 12 - Oct 18	4	19	378	397	0	40	40
*Oct 12 - Oct 18	0	19	210	227	0	53	53
Nov 1 - Nov 8	0	3	421	424	0	70	70
Nov 8 - Nov 15	0	0	105	105	0	24	24
Nov 15 - Nov 22	0	0	37	37	0	3	3
Nov 13 - Nov 22 Nov 22 - Nov 29	0	0	44	44	0	3	3
Nov 29 - Dec 6	0	0	152	152	0	4	4
*Dec 6 - Dec 20	0	0	25	25	0	0	
	~	v					, v
	^Extra moths	from Mag 2	released or	ver Zone 5 c	on select Thurs	davs	1
	2.nuu motilis	0		or two weel		<i>aa</i> , 0	
	<sup>1</sup> Only 6 of 1				to staffing issu	es	





Zone 6 is a pistachio orchard where aerial NOW SIT releases were not conducted. A total of **18** traps were collected from Zone 6 on <u>Tuesday</u>, <u>November 9</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 6 on <u>Tuesday, November 16</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 6 on <u>Tuesday</u>, <u>November 23</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 6 on <u>Tuesday</u>, <u>November 30</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 6 on <u>Tuesday</u>, <u>December 7</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

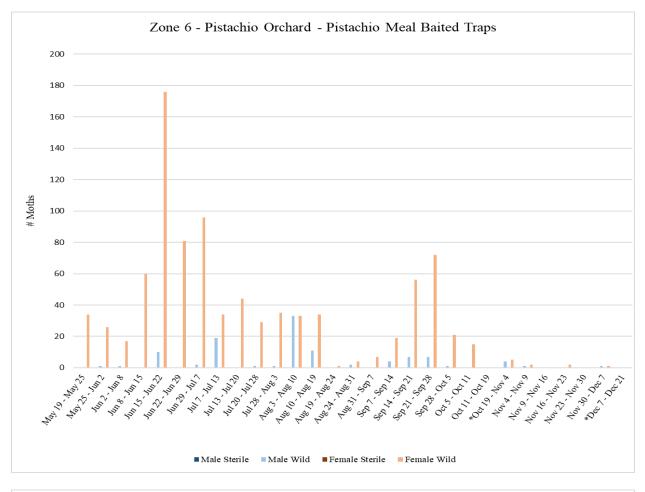
No traps were collected from Zone 6 during the week of <u>December 17</u> due to severe weather on site.

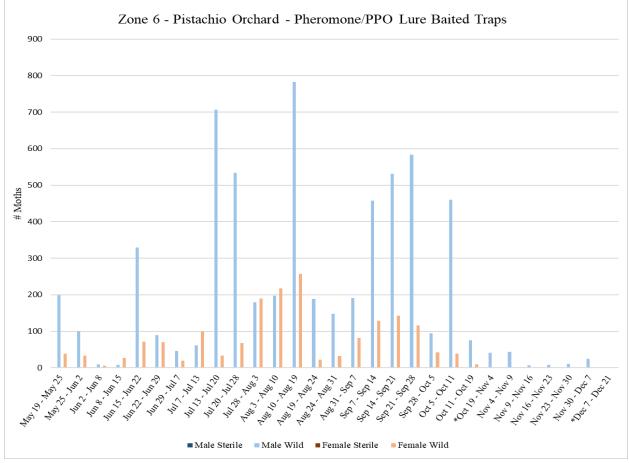
A total of **18** traps were collected from Zone 6 on <u>Tuesday</u>, <u>December 21</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

		Zo	ne 6 - Pis	stachio								
	Pistachio Meal Baited Traps											
	# of Releases											
Dates Traps in	During Trap	Male	Male	Male	Female	Female	Female					
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total					
May 19 - May 25	0	0	0	0	0	34	34					
May 25 - Jun 2	0	0	1	1	0	26	26					
Jun 2 - Jun 8	0	0	1	1	0	17	17					
Jun 8 - Jun 15	0	0	0	0	0	60	60					
Jun 15 - Jun 22	0	0	10	10	0	176	176					
Jun 22 - Jun 29	0	0	0	0	0	81	81					
Jun 29 - Jul 7	0	0	2	2	0	96	96					
Jul 7 - Jul 13	0	0	19	19	0	34	34					
Jul 13 - Jul 20	0	0	0	0	0	44	44					
Jul 20 - Jul 28	0	0	1	1	0	29	29					
Jul 28 - Aug 3	0	0	1	1	0	35	35					
Aug 3 - Aug 10	0	0	33	33	0	33	33					
Aug 10 - Aug 19	0	0	11	11	0	34	34					
Aug 19 - Aug 24	0	0	0	0	0	1	1					
Aug 24 - Aug 31	0	0	2	2	0	4	4					
Aug 31 - Sep 7	0	0	0	0	0	7	7					
Sep 7 - Sep 14	0	0	4	4	0	19	19					
Sep 14 - Sep 21	0	0	7	7	0	56	56					
Sep 21 - Sep 28	0	0	7	7	0	72	72					
Sep 28 - Oct 5	0	0	1	1	0	21	21					
Oct 5 - Oct 11	0	0	0	0	0	15	15					
Oct 11 - Oct 19	0	0	0	0	0	0	0					
*Oct 19 - Nov 4	0	0	4	4	0	5	5					
Nov 4 - Nov 9	0	0	1	1	0	2	2					
Nov 9 - Nov 16	0	0	0	0	0	0	0					
Nov 16 - Nov 23	0	0	0	0	0	2	2					

Nov 23 - Nov 30	0	0	0	0	0	0	0					
Nov 30 - Dec 7	0	0	1	1	0	1	1					
*Dec 7 - Dec 21	0	0	0	0	0	0	0					
	*All traps in field for two weeks											

Pheromone/PPO Lure Baited Traps# ofImage: Second Sec			Zo	ne 6 - Pis	stachio			
Bates Traps in Field         Releases During Trap         Male Sterile         Male Wild         Male Total         Female Sterile         Female Wild         Female Total           May 19 - May 25         0         0         198         198         0         39         39           May 25 - Jun 2         0         0         100         100         0         33         33           Jun 2 - Jun 8         0         0         10         10         0         6         6           Jun 8 - Jun 15         0         0         8         8         0         27         27           Jun 15 - Jun 22         0         0         329         329         0         72         72           Jun 2 - Jun 29         0         0         46         46         0         20         20           Jul 7 - Jul 13         0         0         62         62         0         99         99           Jul 13 - Jul 20         0         0         707         70         34         34           Jul 20 - Jul 28         0         0         717         717         0         217         217           Aug 10 - Aug 19         0         0 <t< th=""><th></th><th></th><th></th><th></th><th></th><th>aps</th><th></th><th></th></t<>						aps		
FieldPeriodSterileWildTotalSterileWildTotalMay 19 - May 250019819803939May 25 - Jun 20010010003333Jun 2 - Jun 800100100066Jun 40032932907272Jun 15 - Jun 220032932907272Jun 22 - Jun 2900909007070Jun 29 - Jul 700464602020Jul 7 - Jul 1300626209999Jul 13 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791790190190Aug 10 - Aug 19007837830227227Aug 10 - Aug 19014814803232Aug 24 - Aug 310014814803232Sep 7 - Sep 14005315310143143Sep 21 - Sep 28005835830116116Sep 24 - Sep 140044444011Nov 4 - Nov 9007701								
May 19 - May 250019819803939May 25 - Jun 20010010003333Jun 2 - Jun 8001010066Jun 8 - Jun 15008802727Jun 15 - Jun 220032932907272Jun 22 - Jun 2900909007070Jun 29 - Jul 700464602020Jul 17 - Jul 1300626209999Jul 13 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791970190190Aug 3 - Aug 10007837830227227Aug 10 - Aug 19007837830227227Aug 24 - Aug 310014814803232Aug 31 - Sep 70019119108282Sep 7 - Sep 14004584580129129Sep 14 - Sep 28005315310143143Sep 21 - Sep 28005835830116116Nov 4 - Nov 400444011 <td>Dates Traps in</td> <td></td> <td>Male</td> <td>Male</td> <td>Male</td> <td>Female</td> <td>Female</td> <td>Female</td>	Dates Traps in		Male	Male	Male	Female	Female	Female
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Field	Period	Sterile	Wild	Total	Sterile	Wild	Total
Jun 2 - Jun 8001010066Jun 8 - Jun 15008802727Jun 15 - Jun 220032932907272Jun 22 - Jun 2900909007070Jun 29 - Jul 700464602020Jul 7 - Jul 1300626209999Jul 13 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791790190190Aug 3 - Aug 10001871830257257Aug 10 - Aug 190018918902222Aug 24 - Aug 310019119108282Sep 7 - Sep 14004584580129129Sep 14 - Sep 21005835830116116Sep 21 - Sep 28005835830116116Sep 21 - Sep 280046046003838Oct 1 - Oct 1900777011Nov 4 - Nov 9004444011Nov 4 - Nov 9002424011<	May 19 - May 25	0	0	198	198	0	39	39
Jun 8 - Jun 15008802727Jun 15 - Jun 220032932907272Jun 22 - Jun 2900909007070Jun 29 - Jul 700464602020Jul 7 - Jul 1300626209999Jul 3 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791790190190Aug 3 - Aug 10001971970217217Aug 19 - Aug 240018918902222Aug 24 - Aug 310014814803232Aug 31 - Sep 70019119108282Sep 7 - Sep 14004584580129129Sep 14 - Sep 28005835830116116Sep 28 - Oct 500949404242Oct 5 - Oct 11004444011Nov 4 - Nov 9004444011Nov 4 - Nov 30001111000Nov 30 - Dec 7002424011	May 25 - Jun 2	0	0	100	100	0	33	33
Jun 15 - Jun 220032932907272Jun 22 - Jun 29000909007070Jun 29 - Jul 700464602020Jul 7 - Jul 1300626209999Jul 13 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791790190190Aug 3 - Aug 10001971970217217Aug 10 - Aug 190018918902222Aug 24 - Aug 310014814803232Aug 31 - Sep 70019119108282Sep 7 - Sep 14004584580129129Sep 14 - Sep 21005835830116116Sep 28 - Oct 500949404242Oct 1 - Oct 19007676099 $\sim Vot 16$ - Nov 23004444011Nov 4 - Nov 90011111Nov 2300Nov 30 - Dec 7002424011Nov 23 - Nov 30002424 <td< td=""><td>Jun 2 - Jun 8</td><td>0</td><td>0</td><td>10</td><td>10</td><td>0</td><td>6</td><td>6</td></td<>	Jun 2 - Jun 8	0	0	10	10	0	6	6
Jun 22 - Jun 2900909007070Jun 29 - Jul 700464602020Jul 7 - Jul 1300626209999Jul 13 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791790190190Aug 3 - Aug 10001971970217217Aug 10 - Aug 19007837830257257Aug 19 - Aug 240018918902222Aug 24 - Aug 310014814803232Aug 31 - Sep 70019119108282Sep 7 - Sep 14004584580129129Sep 14 - Sep 21005835830116116Sep 28 - Oct 500949404242Oct 5 - Oct 110046046003838Oct 19 - Nov 40077011Nov 4 - Nov 90077011Nov 16 - Nov 23002424011Nov 30 - Dec 7002424000<	Jun 8 - Jun 15	0	0	8	8	0	27	27
Jun 29 - Jul 700464602020Jul 7 - Jul 1300626209999Jul 13 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791790190190Aug 3 - Aug 10001971970217217Aug 10 - Aug 19007837830257257Aug 19 - Aug 240018918902222Aug 24 - Aug 310014814803232Aug 31 - Sep 70019119108282Sep 7 - Sep 14005315310143143Sep 21 - Sep 28005835830116116Sep 28 - Oct 50094940424242Oct 5 - Oct 110046046003838Oct 19 - Nov 4004141011Nov 4 - Nov 900777011Nov 23 - Nov 30001111000Nov 23 - Nov 30002424011Nov 23 - Nov 3000242400 <td>Jun 15 - Jun 22</td> <td>0</td> <td>0</td> <td>329</td> <td>329</td> <td>0</td> <td>72</td> <td>72</td>	Jun 15 - Jun 22	0	0	329	329	0	72	72
Jul 7 - Jul 1300626209999Jul 13 - Jul 200070770703434Jul 20 - Jul 280053453406868Jul 28 - Aug 3001791790190190Aug 3 - Aug 10001971970217217Aug 10 - Aug 19007837830257257Aug 19 - Aug 240018918902222Aug 24 - Aug 310014814803232Aug 31 - Sep 70019119108282Sep 7 - Sep 14004584580129129Sep 14 - Sep 21005315310143143Sep 21 - Sep 28005835830116116Sep 28 - Oct 500949404242Oct 5 - Oct 110046046003838Oct 19 - Nov 4004141011Nov 4 - Nov 90077011Nov 4 - Nov 90011111Nov 23 - Nov 30001111Nov 23 - Nov 30002424011*Dec 7 - Dec 21<	Jun 22 - Jun 29	0	0	90	90	0	70	70
Jul 13 - Jul 20         0         0         707         707         0         34         34           Jul 20 - Jul 28         0         0         534         534         0         68         68           Jul 28 - Aug 3         0         0         179         179         0         190         190           Aug 3 - Aug 10         0         0         197         197         0         217         217           Aug 10 - Aug 19         0         0         783         783         0         227         22           Aug 19 - Aug 24         0         0         189         189         0         22         22           Aug 31 - Sep 7         0         0         148         148         0         32         32           Sep 7 - Sep 14         0         0         458         458         0         129         129           Sep 14 - Sep 21         0         0         531         531         0         143         143           Sep 21 - Sep 28         0         0         583         583         0         116         116           Sep 21 - Sep 28         0         0         76         76	Jun 29 - Jul 7	0	0	46	46	0	20	20
Jul 20 - Jul 28         0         0         534         534         0         68         68           Jul 28 - Aug 3         0         0         179         179         0         190         190           Aug 3 - Aug 10         0         0         197         197         0         217         217           Aug 10 - Aug 19         0         0         783         783         0         257         257           Aug 19 - Aug 24         0         0         189         189         0         22         22           Aug 24 - Aug 31         0         0         148         148         0         32         32           Aug 31 - Sep 7         0         0         191         191         0         82         82           Sep 7 - Sep 14         0         0         458         458         0         129         129           Sep 14 - Sep 21         0         0         583         583         0         116         116           Sep 21 - Sep 28         0         0         583         583         0         116         116           Sep 28 - Oct 5         0         0         76         76	Jul 7 - Jul 13	0	0	62	62	0	99	99
Jul 28 - Aug 3         0         0         179         179         0         190         190           Aug 3 - Aug 10         0         0         197         197         0         217         217           Aug 10 - Aug 19         0         0         783         783         0         257         257           Aug 19 - Aug 24         0         0         189         189         0         22         22           Aug 24 - Aug 31         0         0         148         148         0         32         32           Aug 31 - Sep 7         0         0         191         191         0         82         82           Sep 7 - Sep 14         0         0         458         458         0         129         129           Sep 14 - Sep 21         0         0         531         531         0         143         143           Sep 21 - Sep 28         0         0         583         583         0         116         116           Sep 28 - Oct 5         0         0         94         94         0         42         42           Oct 5 - Oct 11         0         0         4460         44	Jul 13 - Jul 20	0	0	707	707	0	34	34
Aug 3 - Aug 10       0       0       197       197       0       217       217         Aug 10 - Aug 19       0       0       783       783       0       257       257         Aug 19 - Aug 24       0       0       189       189       0       22       22         Aug 24 - Aug 31       0       0       148       148       0       32       32         Aug 31 - Sep 7       0       0       191       191       0       82       82         Sep 7 - Sep 14       0       0       458       458       0       129       129         Sep 14 - Sep 21       0       0       531       531       0       143       143         Sep 21 - Sep 28       0       0       583       583       0       116       116         Sep 28 - Oct 5       0       0       94       94       0       42       42         Oct 5 - Oct 11       0       0       460       460       0       38       38         Oct 19 - Nov 4       0       0       7       7       0       1       1         Nov 4 - Nov 9       0       0       7       7       <	Jul 20 - Jul 28	0	0	534	534	0	68	68
Aug 10 - Aug 19       0       0       783       783       0       257       257         Aug 19 - Aug 24       0       0       189       189       0       22       22         Aug 24 - Aug 31       0       0       148       148       0       32       32         Aug 31 - Sep 7       0       0       191       191       0       82       82         Sep 7 - Sep 14       0       0       458       458       0       129       129         Sep 7 - Sep 14       0       0       531       531       0       143       143         Sep 14 - Sep 21       0       0       583       583       0       116       116         Sep 21 - Sep 28       0       0       583       583       0       116       116         Sep 28 - Oct 5       0       0       94       94       0       42       42         Oct 5 - Oct 11       0       0       460       460       0       38       38         Oct 19 - Nov 4       0       0       7       7       0       1       1         Nov 4 - Nov 9       0       0       7       7       <	Jul 28 - Aug 3	0	0	179	179	0	190	190
Aug 19 - Aug 24         0         0         189         189         0         22         22           Aug 24 - Aug 31         0         0         148         148         0         32         32           Aug 31 - Sep 7         0         0         191         191         0         82         82           Sep 7 - Sep 14         0         0         458         458         0         129         129           Sep 14 - Sep 21         0         0         531         531         0         143         143           Sep 21 - Sep 28         0         0         583         583         0         116         116           Sep 28 - Oct 5         0         0         94         94         0         42         42           Oct 5 - Oct 11         0         0         460         460         0         38         38           Oct 11 - Oct 19         0         0         76         76         0         9         9           *Oct 19 - Nov 4         0         0         7         7         0         1         1           Nov 4 - Nov 9         0         0         7         7         0         <	Aug 3 - Aug 10	0	0	197	197	0	217	217
Aug 24 - Aug 31       0       0       148       148       0       32       32         Aug 31 - Sep 7       0       0       191       191       0       82       82         Sep 7 - Sep 14       0       0       458       458       0       129       129         Sep 14 - Sep 21       0       0       531       531       0       143       143         Sep 14 - Sep 21       0       0       583       583       0       116       116         Sep 21 - Sep 28       0       0       583       583       0       116       116         Sep 28 - Oct 5       0       0       94       94       0       42       42         Oct 5 - Oct 11       0       0       460       460       0       38       38         Oct 11 - Oct 19       0       0       441       41       0       1       1         Nov 4 - Nov 9       0       0       444       44       0       1       1         Nov 16 - Nov 23       0       0       7       7       0       1       1         Nov 30 - Dec 7       0       0       24       24       0<	Aug 10 - Aug 19	0	0	783	783	0	257	257
Aug 31 - Sep 7       0       0       191       191       0       82       82         Sep 7 - Sep 14       0       0       458       458       0       129       129         Sep 14 - Sep 21       0       0       531       531       0       143       143         Sep 14 - Sep 21       0       0       583       583       0       116       116         Sep 28 - Oct 5       0       0       94       94       0       42       42         Oct 5 - Oct 11       0       0       460       460       0       38       38         Oct 19 - Nov 4       0       0       441       41       0       1       1         Nov 4 - Nov 9       0       0       44       44       0       1       1         Nov 4 - Nov 9       0       0       7       7       0       1       1         Nov 4 - Nov 9       0       0       8       8       0       1       1         Nov 16 - Nov 23       0       0       8       8       0       1       1         Nov 30 - Dec 7       0       0       2       0       0       0	Aug 19 - Aug 24	0	0	189	189	0	22	22
Sep 7 - Sep 14         0         0         458         458         0         129         129           Sep 14 - Sep 21         0         0         531         531         0         143         143           Sep 21 - Sep 28         0         0         583         583         0         116         116           Sep 28 - Oct 5         0         0         94         94         0         42         42           Oct 5 - Oct 11         0         0         460         460         0         38         38           Oct 11 - Oct 19         0         0         76         76         0         9         9           *Oct 19 - Nov 4         0         0         444         44         0         1         1           Nov 4 - Nov 9         0         0         7         7         0         1         1           Nov 4 - Nov 9         0         0         7         7         0         1         1           Nov 16 - Nov 23         0         0         8         8         0         1         1           Nov 30 - Dec 7         0         0         24         24         0         1	Aug 24 - Aug 31	0	0	148	148	0	32	32
Sep 14 - Sep 21       0       0       531       531       0       143       143         Sep 21 - Sep 28       0       0       583       583       0       116       116         Sep 28 - Oct 5       0       0       94       94       0       42       42         Oct 5 - Oct 11       0       0       460       460       0       38       38         Oct 11 - Oct 19       0       0       76       76       0       9       9         *Oct 19 - Nov 4       0       0       44       44       0       1       1         Nov 4 - Nov 9       0       0       7       7       0       1       1         Nov 9 - Nov 16       0       0       7       7       0       1       1         Nov 16 - Nov 23       0       0       8       8       0       1       1         Nov 30 - Dec 7       0       0       24       24       0       1       1         *Dec 7 - Dec 21       0       0       2       2       0       0       0	Aug 31 - Sep 7	0	0	191	191	0	82	82
Sep 21 - Sep 28         0         0         583         583         0         116         116           Sep 28 - Oct 5         0         0         94         94         0         42         42           Oct 5 - Oct 11         0         0         460         460         0         38         38           Oct 5 - Oct 11         0         0         76         76         0         9         9           *Oct 19 - Nov 4         0         0         41         41         0         1         1           Nov 4 - Nov 9         0         0         77         7         0         1         1           Nov 16 - Nov 23         0         0         8         8         0         1         1           Nov 23 - Nov 30         0         0         11         11         1         0         0         0           Nov 30 - Dec 7         0         0         24         24         0         1         1           *Dec 7 - Dec 21         0         0         2         2         0         0         0	Sep 7 - Sep 14	0	0	458	458	0	129	129
Sep 28 - Oct 5       0       0       94       94       0       42       42         Oct 5 - Oct 11       0       0       460       460       0       38       38         Oct 11 - Oct 19       0       0       76       76       0       9       9         *Oct 19 - Nov 4       0       0       41       41       0       1       1         Nov 4 - Nov 9       0       0       44       44       0       1       1         Nov 4 - Nov 9       0       0       7       7       0       1       1         Nov 9 - Nov 16       0       0       7       7       0       1       1         Nov 16 - Nov 23       0       0       8       8       0       1       1         Nov 23 - Nov 30       0       0       11       11       0       0       0         *Dec 7 - Dec 21       0       0       2       2       0       0       0	Sep 14 - Sep 21	0	0	531	531	0	143	143
Oct 5 - Oct 11       0       0       460       460       0       38       38         Oct 11 - Oct 19       0       0       76       76       0       9       9         *Oct 19 - Nov 4       0       0       41       41       0       1       1         Nov 4 - Nov 9       0       0       44       44       0       1       1         Nov 4 - Nov 9       0       0       7       7       0       1       1         Nov 9 - Nov 16       0       0       7       7       0       1       1         Nov 16 - Nov 23       0       0       8       8       0       1       1         Nov 23 - Nov 30       0       0       24       24       0       1       1         *Dec 7       0       0       24       24       0       1       1         *Dec 7 - Dec 21       0       0       2       2       0       0       0	Sep 21 - Sep 28	0	0	583	583	0	116	116
Oct 11 - Oct 19       0       0       76       76       0       9       9         *Oct 19 - Nov 4       0       0       41       41       0       1       1         Nov 4 - Nov 9       0       0       44       44       0       1       1         Nov 4 - Nov 9       0       0       77       7       0       1       1         Nov 9 - Nov 16       0       0       77       7       0       1       1         Nov 16 - Nov 23       0       0       8       8       0       1       1         Nov 23 - Nov 30       0       0       24       24       0       1       1         Nov 30 - Dec 7       0       0       24       24       0       1       1         *Dec 7 - Dec 21       0       0       2       2       0       0       0	Sep 28 - Oct 5	0	0	94	94	0	42	42
*Oct 19 - Nov 4       0       0       41       41       0       1       1         Nov 4 - Nov 9       0       0       44       44       0       1       1         Nov 4 - Nov 9       0       0       44       44       0       1       1         Nov 9 - Nov 16       0       0       7       7       0       1       1         Nov 16 - Nov 23       0       0       8       8       0       1       1         Nov 23 - Nov 30       0       0       11       11       0       0       0         Nov 30 - Dec 7       0       0       24       24       0       1       1         *Dec 7 - Dec 21       0       0       2       2       0       0       0	Oct 5 - Oct 11	0	0	460	460	0	38	38
Nov 4 - Nov 9         0         0         44         44         0         1         1           Nov 9 - Nov 16         0         0         7         7         0         1         1           Nov 16 - Nov 23         0         0         8         8         0         1         1           Nov 23 - Nov 30         0         0         11         11         0         0         0           Nov 23 - Nov 30         0         0         11         11         10         0         0           Nov 30 - Dec 7         0         0         24         24         0         1         1           *Dec 7 - Dec 21         0         0         2         2         0         0         0	Oct 11 - Oct 19	0	0	76	76	0	9	9
Nov 9 - Nov 16         0         0         7         7         0         1         1           Nov 16 - Nov 23         0         0         8         8         0         1         1           Nov 16 - Nov 23         0         0         8         8         0         1         1           Nov 23 - Nov 30         0         0         11         11         0         0         0           Nov 30 - Dec 7         0         0         24         24         0         1         1           *Dec 7 - Dec 21         0         0         2         2         0         0         0	*Oct 19 - Nov 4	0	0	41	41	0	1	1
Nov 16 - Nov 23         0         0         8         8         0         1         1           Nov 23 - Nov 30         0         0         11         11         0         0         0           Nov 30 - Dec 7         0         0         24         24         0         1         1           *Dec 7 - Dec 21         0         0         2         2         0         0         0	Nov 4 - Nov 9	0	0	44	44	0	1	1
Nov 23 - Nov 30         0         0         11         11         0         0         0           Nov 30 - Dec 7         0         0         24         24         0         1         1           *Dec 7 - Dec 21         0         0         2         2         0         0         0	Nov 9 - Nov 16	0	0	7	7	0	1	1
Nov 30 - Dec 7         0         0         24         24         0         1         1           *Dec 7 - Dec 21         0         0         2         2         0         0         0	Nov 16 - Nov 23	0	0	8	8	0	1	1
*Dec 7 - Dec 21 0 0 2 2 0 0 0 0	Nov 23 - Nov 30	0	0	11	11	0	0	0
	Nov 30 - Dec 7	0		24		0	1	1
*All trans in field for two weeks	*Dec 7 - Dec 21	0	0	2	2	0	0	0
			*All trop	ns in field f	or two wee	75		





Zone 7 is an almond orchard where aerial NOW SIT releases were conducted. A total of **72** traps were collected from Zone 7 on <u>Wednesday</u>, <u>November 10</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</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 7 on <u>Wednesday</u>, <u>November 24</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</u>, <u>December 1</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</u>, <u>December 8</u>, with **36** pistachio meal baited traps and **36** pheromone/PPO lure traps.

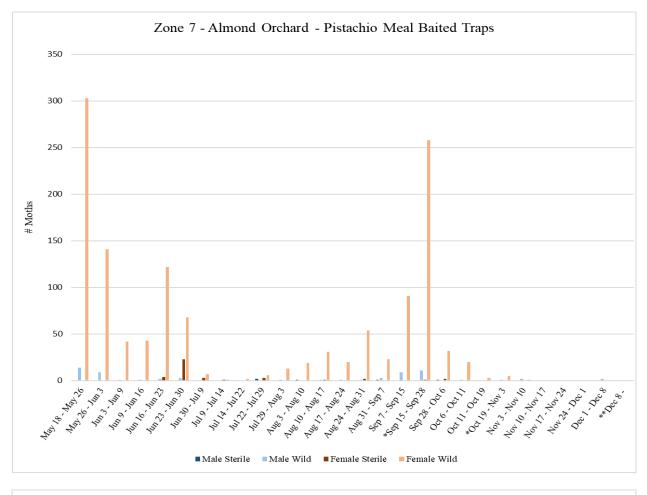
No traps were collected from Zone 7 during the week of <u>December 17</u> due to severe weather on site.

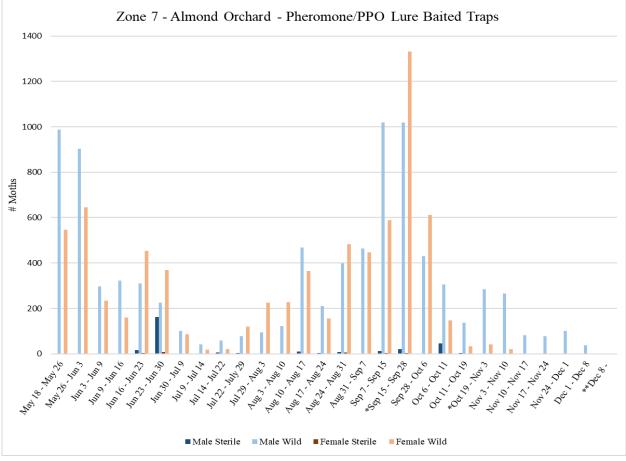
No traps were collected from Zone 7 during the week of <u>December 24</u> due to severe weather on site.

Zone 7 - Almond									
		Pistac	hio Meal B	aited Traps					
	# of								
Dates Traps in	Releases During Trap	Male	Male	Male	Female	Female	Female		
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total		
May 18 - May 26	0	0	14	14	0	303	303		
May 26 - Jun 3	0	0	9	9	0	141	141		
Jun 3 - Jun 9	0	0	1	1	0	42	42		
Jun 9 - Jun 16	0	0	1	1	0	43	43		
Jun 16 - Jun 23	5	0	2	2	4	122	126		
Jun 23 - Jun 30	6	0	3	3	23	68	91		
Jun 30 - Jul 9	7	0	0	0	3	7	10		
Jul 9 - Jul 14	^5	0	0	0	1	1	2		
Jul 14 - Jul 22	^9	0	0	0	0	2	2		
Jul 22 - Jul 29	^6	2	0	2	3	6	9		
Jul 29 - Aug 3	5	0	1	1	0	13	13		
Aug 3 - Aug 10	^6	1	0	1	0	19	19		
Aug 10 - Aug 17	5	0	1	1	1	31	32		
Aug 17 - Aug 24	4	0	1	1	0	20	20		
Aug 24 - Aug 31	5	0	1	1	2	54	56		
Aug 31 - Sep 7	^7	1	3	4	0	23	23		
Sep 7 - Sep 15	2	0	9	9	0	91	91		
*Sep 15 - Sep 28	^9	0	11	11	1	258	259		
Sep 28 - Oct 6	5	1	0	1	2	32	34		
Oct 6 - Oct 11	^5	0	1	1	0	20	20		
Oct 11 - Oct 19	4	0	0	0	0	3	3		
*Oct 19 - Nov 3	0	0	1	1	0	5	5		
Nov 3 - Nov 10	0	0	2	2	0	1	1		
Nov 10 - Nov 17	0	0	0	0	0	0	0		
Nov 17 - Nov 24	0	0	0	0	0	0	0		
Nov 24 - Dec 1	0	0	0	0	0	0	0		
<b>Dec 1 - Dec 8</b>	0	0	2	2	0	0	0		

**Dec 8 -							
^Extra moths from Mag 2 released over Zone 7 on select Thursdays							
*All traps in field for two weeks							
**No traps serviced in Zone 7 since 12/8/21 due to severe weather on site.							

		Zo	one 7 - A	lmond			
		Pheromo	ne/PPO Lur	e Baited Tra	aps		
Dates Traps in	# of Releases During Trap Period	Male Sterile	Male Wild	Male	Female Sterile	Female Wild	Female
Field				Total			Total
May 18 - May 26	0	0	988	988	0	546	546
May 26 - Jun 3	0	0	902	902	0	646	646
Jun 3 - Jun 9	0	0	296	296	0	233	233
Jun 9 - Jun 16	0	0	322	322	0	160	160
Jun 16 - Jun 23	5	17	309	326	3	453	456
Jun 23 - Jun 30	6	161	226	387	8	369	377
Jun 30 - Jul 9	7	0	100	100	0	86	86
Jul 9 - Jul 14	^5	0	42	42	0	18	18
Jul 14 - Jul 22	^9	5	59	64	1	20	21
Jul 22 - July 29	^6	4	78	82	0	119	119
Jul 29 - Aug 3	5	0	95	95	0	225	225
Aug 3 - Aug 10	^6	0	121	121	0	227	227
Aug 10 - Aug 17	5	9	469	478	0	364	364
Aug 17 - Aug 24	4	4	211	215	0	155	155
Aug 24 - Aug 31	5	8	398	406	5	483	488
Aug 31 - Sep 7	^7	0	463	463	0	447	447
Sep 7 - Sep 15	2	13	1019	1032	3	589	592
*Sep 15 - Sep 28	^9	21	1019	1040	3	1332	1335
Sep 28 - Oct 6	5	1	429	430	1	612	613
Oct 6 - Oct 11	^5	45	306	351	2	147	149
Oct 11 - Oct 19	4	4	137	141	0	33	33
*Oct 19 - Nov 3	0	0	285	285	0	42	42
Nov 3 - Nov 10	0	0	265	265	0	20	20
Nov 10 - Nov 17	0	0	81	81	0	0	0
Nov 17 - Nov 24	0	0	77	77	0	0	0
Nov 24 - Dec 1	0	0	100	100	0	0	0
Dec 1 - Dec 8 **Dec 8 -	0	0	37	37	0	1	1
Dec 8 -							
	^Extra moths	from Mag 2	released or	ver Zone 7 d	on select Thurso	davs	<u> </u>
		Ŭ		or two week		<i>j</i>	
**	No traps servic	ed in Zone	7 since 12/8	8/21 due to	severe weathe	r on site.	





Zone 8 is an almond orchard where aerial NOW SIT releases were not conducted. A total of **18** traps were collected from Zone 8 on <u>Tuesday</u>, <u>November 9</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 8 on <u>Tuesday, November 16</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 8 on <u>Tuesday</u>, <u>November 23</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 8 on <u>Tuesday</u>, <u>November 30</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

A total of **18** traps were collected from Zone 8 on <u>Tuesday</u>, <u>December 7</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

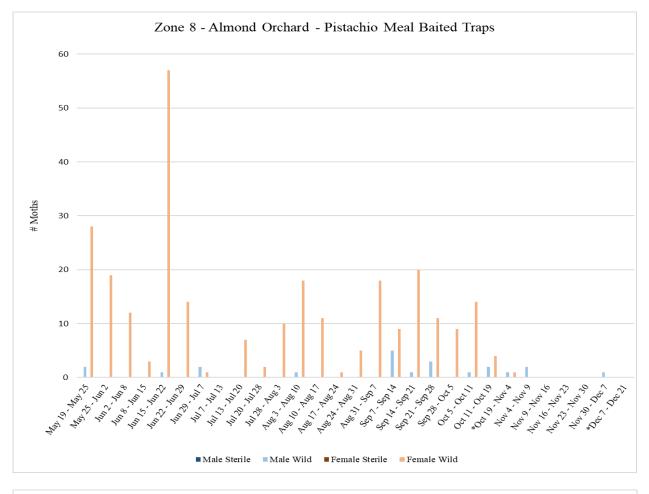
No traps were collected from Zone 8 during the week of <u>December 17</u> due to severe weather on site.

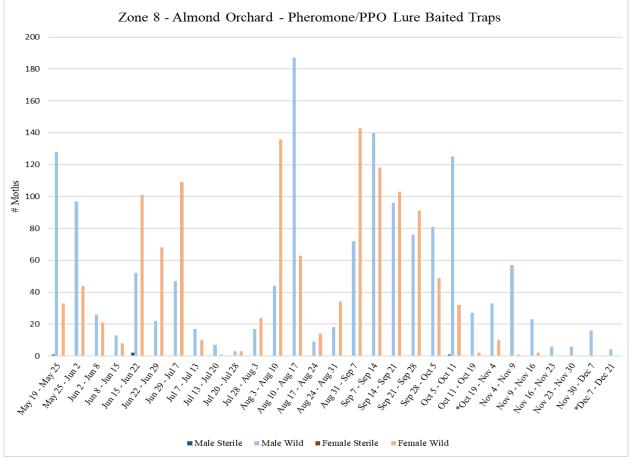
A total of **18** traps were collected from Zone 8 on <u>Tuesday</u>, <u>December 21</u>, with **9** pistachio meal baited traps and **9** pheromone/PPO lure traps.

Zone 8 - Almond										
Pistachio Meal Baited Traps										
	# of Releases									
Dates Traps in	During Trap	Male	Male	Male	Female	Female	Female			
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total			
May 19 - May 25	0	0	2	2	0	28	28			
May 25 - Jun 2	0	0	0	0	0	19	19			
Jun 2 - Jun 8	0	0	0	0	0	12	12			
Jun 8 - Jun 15	0	0	0	0	0	3	3			
Jun 15 - Jun 22	0	0	1	1	0	57	57			
Jun 22 - Jun 29	0	0	0	0	0	14	14			
Jun 29 - Jul 7	0	0	2	2	0	1	1			
Jul 7 - Jul 13	0	0	0	0	0	0	0			
Jul 13 - Jul 20	0	0	0	0	0	7	7			
Jul 20 - Jul 28	0	0	0	0	0	2	2			
Jul 28 - Aug 3	0	0	0	0	0	10	10			
Aug 3 - Aug 10	0	0	1	1	0	18	18			
Aug 10 - Aug 17	0	0	0	0	0	11	11			
Aug 17 - Aug 24	0	0	0	0	0	1	1			
Aug 24 - Aug 31	0	0	0	0	0	5	5			
Aug 31 - Sep 7	0	0	0	0	0	18	18			
Sep 7 - Sep 14	0	0	5	5	0	9	9			
Sep 14 - Sep 21	0	0	1	1	0	20	20			
Sep 21 - Sep 28	0	0	3	3	0	11	11			
Sep 28 - Oct 5	0	0	0	0	0	9	9			
Oct 5 - Oct 11	0	0	1	1	0	14	14			
Oct 11 - Oct 19	0	0	2	2	0	4	4			
*Oct 19 - Nov 4	0	0	1	1	0	1	1			
Nov 4 - Nov 9	0	0	2	2	0	0	0			
Nov 9 - Nov 16	0	0	0	0	0	0	0			
Nov 16 - Nov 23	0	0	0	0	0	0	0			

Nov 23 - Nov 30	0	0	0	0	0	0	0	
Nov 30 - Dec 7	0	0	1	1	0	0	0	
*Dec 7 - Dec 21	0	0	0	0	0	0	0	
*All traps in field for two weeks								

Zone 8 - Almond									
		Pheromor	ne/PPO Lur	e Baited Tra	aps				
	# of Releases				Î				
Dates Traps in	During Trap	Male	Male	Male	Female	Female	Female		
Field	Period	Sterile	Wild	Total	Sterile	Wild	Total		
May 19 - May 25	0	1	128	129	0	33	33		
May 25 - Jun 2	0	0	97	97	0	44	44		
Jun 2 - Jun 8	0	0	26	26	0	21	21		
Jun 8 - Jun 15	0	0	13	13	0	8	8		
Jun 15 - Jun 22	0	2	52	54	0	101	101		
Jun 22 - Jun 29	0	0	22	22	0	68	68		
Jun 29 - Jul 7	0	0	47	47	0	109	109		
Jul 7 - Jul 13	0	0	17	17	0	10	10		
Jul 13 - Jul 20	0	0	7	7	0	1	1		
Jul 20 - Jul 28	0	0	3	3	0	3	3		
Jul 28 - Aug 3	0	0	17	17	0	24	24		
Aug 3 - Aug 10	0	0	44	44	0	136	136		
Aug 10 - Aug 17	0	0	187	187	0	63	63		
Aug 17 - Aug 24	0	0	9	9	0	14	14		
Aug 24 - Aug 31	0	0	18	18	0	34	34		
Aug 31 - Sep 7	0	0	72	72	0	143	143		
Sep 7 - Sep 14	0	0	140	140	0	118	118		
Sep 14 - Sep 21	0	0	96	96	0	103	103		
Sep 21 - Sep 28	0	0	76	76	0	91	91		
Sep 28 - Oct 5	0	0	81	81	0	49	49		
Oct 5 - Oct 11	0	1	125	126	0	32	32		
Oct 11 - Oct 19	0	0	27	27	0	2	2		
*Oct 19 - Nov 4	0	0	33	33	0	10	10		
Nov 4 - Nov 9	0	0	57	57	0	1	1		
Nov 9 - Nov 16	0	0	23	23	0	2	2		
Nov 16 - Nov 23	0	0	6	6	0	0	0		
Nov 23 - Nov 30	0	0	6	6	0	0	0		
Nov 30 - Dec 7	0	0	16	16	0	0	0		
*Dec 7 - Dec 21	0	0	4	4	0	0	0		
		*All trai	  s in field f	or two wee	<b>ZS</b>				





# IV. Quality Control

QC tests are performed on samples taken from each shipment of sterile NOW moths. These tests include: zerohour 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 2021 SIT season's average QC results for Mag 1 and Mag 2 from the period of Wednesday, March 10, 2021 to Saturday, October 16, 2021.

- o 2% of moths from samples found dead at zero hour
- $\circ$  1% of moths from samples found to have mated at zero hour
- o 36% of moths from samples found to have mated after forty-eight hours
- $\circ$  84% of moths from samples remained alive after seven days in BioChamber
- $\circ$  83% of moths from samples found to have distinct red dye markings

