

Navel Orangeworm Program 2025 – Weekly Report

Week Ending – January 3, 2025

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I. Program Updates

Navel Orangeworm Area Wide Program – Multi-Phase Approach

Phase 1 – 2018-2022

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

Phase 2 – 2023-2025

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

Navel Orangeworm Sterile Insect Technique

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

Releases of sterile NOW moths are anticipated to begin in March 2025 over select sites in West Fresno County. Prior to releases, the Navel Orangeworm Action Committee (NOWAC) will meet to discuss plans for the 2025 NOW SIT season.

Navel Orangeworm Trapping

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

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

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

II. Project Design

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

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

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

Each zone has a trap site ratio of approximately one trap site per 18 acres for a total of 36 trap sites for each 640-acre zone and 34 traps for the 600-acre zone. Each trap site has one trap baited with NOW pheromone/PPO lures. All traps are serviced on a weekly basis. Servicing includes collecting trap bottoms and replacing with new trap bottoms. Bait/lure changes occur once a month, and trap tops are replaced as needed. Counts are performed on each trap collected to determine number of wild versus sterile captures and male versus female captures.

III. Trap Results for Week Ending on January 3, 2024

Zone 2 – Pistachio Orchard

No traps were collected from Zone 2 during the week of January 3 due to excessive rain and muddy conditions preventing access to the trap sites.

Zone 2 - Pistachio								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
¹ Dec 23 -								
¹ No traps were serviced in Zone 2 during the week of January 3 due to excessive rain and muddy conditions preventing access								

Zone 3 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 3 on Monday, December 30.

Zone 3 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 17 – Dec 30	0	0	15	15	0	0	0	0

Zone 4 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 4 on Tuesday, December 31.

Zone 4 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 23 – Dec 31	0	0	38	38	0	1	1	0

Zone 5 – Pistachio Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 5 on Monday, December 30.

Zone 5 - Pistachio								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 23 – Dec 30	0	0	12	12	0	0	0	0

Zone 6 – Pistachio Orchard

No traps were collected from Zone 6 during the week of January 3 due to excessive rain and muddy conditions preventing access to the trap sites.

Zone 6 - Pistachio								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
¹ Dec 26 –								
¹ No traps were serviced in Zone 6 during the week of January 3 due to excessive rain and muddy conditions preventing access								

Zone 7 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 7 on Tuesday, December 31.

Zone 7 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 24 – Dec 31	0	0	7	7	0	0	0	0

Zone 8 – Almond Orchard

A total of **36** pheromone/PPO lure-baited traps were collected from Zone 8 on Thursday, January 2.

Zone 8 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
Dec 26 – Jan 2	0	0	4	4	0	0	0	0

Zone 9 – Almond Orchard

No traps were collected from Zone 9 during the week of January 3 due to excessive rain and muddy conditions preventing access to the trap sites.

Zone 9 - Almond								
Pheromone/PPO Lure Baited Traps								
Dates Traps in Field	# of Releases During Trap Period	Male Sterile	Male Wild	Male Total	Female Sterile	Female Wild	Female Total	Non-ID Total
¹ Dec 19 –								
¹ No traps were serviced in Zone 9 during the week of January 3 due to excessive rain and muddy conditions preventing access								

IV. NOW Degree Days

NOW Degree days begin to accumulate when ambient temperatures remain between the lower threshold of 55° F and the upper threshold of 93.9° F. Using data from weather stations nearest to the trap sites, courtesy of the UC IPM website - https://ipm.ucanr.edu/PHENOLOGY/ma-navel_orangeworm.html, the chart below shows daily and total accumulated degree days since January 1, 2024. The model uses a double triangle and vertical cutoff method of calculating degree days.

Weather Station Location: Five Points, Fresno

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

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
2/10/2024	35.50	55.60	0.01	48.91
2/11/2024	32.00	59.30	0.35	49.26
2/12/2024	33.80	62.20	0.94	50.20
2/13/2024	35.60	62.90	1.22	51.42
2/14/2024	38.70	64.60	2.02	53.44
2/15/2024	44.20	59.50	0.64	54.08
2/16/2024	42.90	62.10	1.57	55.65
2/17/2024	48.30	60.90	1.39	57.04
2/18/2024	48.40	66.80	3.90	60.94
2/19/2024	49.50	67.40	4.00	64.94
2/20/2024	46.60	65.50	2.70	67.64
2/21/2024	43.30	63.50	1.69	69.33
2/22/2024	40.70	64.50	1.96	71.29
2/23/2024	42.20	64.40	1.96	73.25
2/24/2024	41.60	70.50	4.05	77.30
2/25/2024	40.00	72.00	4.87	82.17
2/26/2024	44.30	61.30	1.16	83.33
2/27/2024	44.20	62.00	1.20	84.53
2/28/2024	38.00	68.80	3.27	87.80
2/29/2024	41.20	66.30	3.17	90.97
3/1/2024	49.50	63.60	2.48	93.45
3/2/2024	47.80	55.80	0.03	93.48
3/3/2024	42.80	60.00	0.65	94.13
3/4/2024	38.10	60.00	0.73	94.86
3/5/2024	46.00	66.10	2.85	97.71
3/6/2024	42.80	65.60	2.70	100.41
3/7/2024	46.50	63.20	1.70	102.11
3/8/2024	39.10	66.70	2.59	104.70
3/9/2024	41.40	68.00	3.39	108.09
3/10/2024	44.60	68.30	3.53	111.62
3/11/2024	41.70	68.10	3.72	115.34
3/12/2024	47.60	67.00	3.29	118.63
3/13/2024	41.90	64.50	1.93	120.56
3/14/2024	40.40	67.80	3.06	123.62
3/15/2024	41.60	70.40	3.84	127.46
3/16/2024	37.20	72.70	4.72	132.18
3/17/2024	41.60	73.70	5.47	137.65
3/18/2024	41.90	77.00	7.29	144.94
3/19/2024	45.50	79.30	8.81	153.75
3/20/2024	46.10	78.80	8.61	162.36
3/21/2024	45.70	74.00	6.63	168.99
3/22/2024	47.80	79.00	8.60	177.59
3/23/2024	42.90	63.80	1.72	179.31
3/24/2024	39.50	61.80	1.01	180.32
3/25/2024	38.30	66.80	2.43	182.75
3/26/2024	37.90	68.30	3.01	185.76
3/27/2024	39.90	72.80	5.98	191.74
3/28/2024	50.60	64.80	2.95	194.69
3/29/2024	45.80	63.30	1.93	196.62
3/30/2024	45.10	63.80	1.96	198.58
3/31/2024	42.80	66.30	2.60	201.18

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

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
5/22/2024	50.00	90.00	16.02	722.80
5/23/2024	53.40	84.80	13.15	735.95
5/24/2024	48.30	84.60	11.84	747.79
5/25/2024	46.90	80.10	9.78	757.57
5/26/2024	48.80	83.80	12.53	770.10
5/27/2024	52.40	90.60	17.34	787.44
5/28/2024	55.60	92.80	18.38	805.82
5/29/2024	52.10	88.80	15.52	821.34
5/30/2024	51.90	92.70	18.21	839.55
5/31/2024	55.30	95.20	20.48	860.03
6/1/2024	56.20	95.60	20.60	880.63
6/2/2024	55.00	88.00	17.48	898.11
6/3/2024	58.90	85.50	16.73	914.84
6/4/2024	57.00	91.90	21.35	936.19
6/5/2024	64.60	99.80	27.90	964.09
6/6/2024	67.40	104.10	29.13	993.22
6/7/2024	60.90	101.70	25.45	1018.67
6/8/2024	57.50	92.70	19.75	1038.42
6/9/2024	56.10	93.90	20.17	1058.59
6/10/2024	56.80	94.70	22.33	1080.92
6/11/2024	63.10	100.50	27.42	1108.34
6/12/2024	65.60	104.50	29.05	1137.39
6/13/2024	61.60	96.00	22.75	1160.14
6/14/2024	57.40	94.90	22.03	1182.17
6/15/2024	60.90	89.60	18.63	1200.80
6/16/2024	54.40	91.00	19.40	1220.20
6/17/2024	61.20	84.10	15.07	1235.27
6/18/2024	50.20	87.30	14.30	1249.57
6/19/2024	51.40	91.60	17.12	1266.69
6/20/2024	53.50	91.70	18.29	1284.98
6/21/2024	56.20	96.00	22.10	1307.08
6/22/2024	60.20	102.40	27.58	1334.66
6/23/2024	65.30	105.50	31.38	1366.04
6/24/2024	69.20	96.60	28.28	1394.32
6/25/2024	70.70	102.40	30.30	1424.62
6/26/2024	65.70	97.60	26.10	1450.72
6/27/2024	63.50	93.50	21.73	1472.45
6/28/2024	56.40	94.90	21.43	1493.88
6/29/2024	59.50	99.90	25.15	1519.03
6/30/2024	61.30	96.10	24.05	1543.08
7/1/2024	62.70	99.10	28.35	1571.43
7/2/2024	72.50	101.80	30.40	1601.83
7/3/2024	65.50	104.30	30.45	1632.28
7/4/2024	67.70	107.60	32.40	1664.68
7/5/2024	66.70	105.00	30.90	1695.58
7/6/2024	66.90	109.50	34.23	1729.81
7/7/2024	71.00	110.60	34.73	1764.54
7/8/2024	66.70	109.00	32.43	1796.97
7/9/2024	65.00	103.90	29.33	1826.30
7/10/2024	64.50	106.00	31.13	1857.43
7/11/2024	68.00	109.20	33.68	1891.11

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
7/12/2024	68.30	109.00	35.75	1926.86
7/13/2024	76.70	104.90	34.25	1961.11
7/14/2024	70.50	103.40	31.63	1992.74
7/15/2024	69.20	99.90	28.78	2021.52
7/16/2024	66.10	96.50	24.65	2046.17
7/17/2024	59.50	94.70	22.30	2068.47
7/18/2024	60.30	98.50	25.08	2093.55
7/19/2024	63.00	100.10	27.50	2121.05
7/20/2024	66.80	104.80	30.42	2151.47
7/21/2024	65.30	99.10	27.60	2179.07
7/22/2024	66.90	107.00	32.65	2211.72
7/23/2024	69.70	109.30	36.03	2247.75
7/24/2024	75.80	106.50	35.68	2283.43
7/25/2024	73.90	102.90	31.60	2315.03
7/26/2024	66.70	104.30	28.38	2343.41
7/27/2024	58.20	91.10	19.15	2362.56
7/28/2024	56.20	92.80	20.45	2383.01
7/29/2024	60.00	94.40	22.15	2405.16
7/30/2024	59.80	94.70	22.78	2427.94
7/31/2024	61.90	96.70	25.15	2453.09
8/1/2024	65.30	102.50	29.83	2482.92
8/2/2024	69.00	93.50	26.10	2509.02
8/3/2024	68.40	102.20	30.30	2539.32
8/4/2024	68.40	104.40	30.88	2570.20
8/5/2024	66.30	102.10	28.87	2599.07
8/6/2024	65.00	103.80	29.95	2629.02
8/7/2024	67.20	107.10	31.58	2660.60
8/8/2024	64.90	101.00	27.70	2688.30
8/9/2024	63.90	102.60	28.50	2716.80
8/10/2024	64.90	101.00	27.95	2744.75
8/11/2024	64.90	101.20	27.33	2772.08
8/12/2024	62.00	96.80	23.33	2795.41
8/13/2024	57.70	94.60	20.98	2816.39
8/14/2024	57.00	94.30	21.20	2837.59
8/15/2024	59.20	95.40	21.58	2859.17
8/16/2024	56.30	96.00	21.95	2881.12
8/17/2024	59.50	91.90	21.50	2902.62
8/18/2024	62.70	89.60	20.23	2922.85
8/19/2024	59.00	92.30	20.20	2943.05
8/20/2024	57.20	93.90	21.40	2964.45
8/21/2024	60.60	93.70	21.50	2985.95
8/22/2024	58.00	89.40	18.28	3004.23
8/23/2024	56.30	79.50	14.60	3018.83
8/24/2024	63.10	82.30	15.75	3034.58
8/25/2024	55.30	84.40	14.35	3048.93
8/26/2024	53.20	92.10	18.60	3067.53
8/27/2024	56.90	96.20	22.15	3089.68
8/28/2024	59.30	98.20	23.55	3113.23
8/29/2024	58.50	96.30	22.50	3135.73
8/30/2024	58.90	96.20	22.75	3158.48
8/31/2024	59.70	96.30	23.60	3182.08

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
9/1/2024	62.10	98.00	25.13	3207.21
9/2/2024	62.40	92.70	22.03	3229.24
9/3/2024	60.30	97.30	23.78	3253.02
9/4/2024	60.20	104.50	28.90	3281.92
9/5/2024	66.40	101.40	29.00	3310.92
9/6/2024	66.80	101.60	28.62	3339.54
9/7/2024	64.50	100.70	28.00	3367.54
9/8/2024	66.10	101.50	27.88	3395.42
9/9/2024	62.40	104.30	27.10	3422.52
9/10/2024	57.40	92.90	18.77	3441.29
9/11/2024	51.60	89.00	16.70	3457.99
9/12/2024	56.90	83.90	14.37	3472.36
9/13/2024	52.60	90.20	16.89	3489.25
9/14/2024	54.40	93.20	18.66	3507.91
9/15/2024	53.80	87.50	14.97	3522.88
9/16/2024	50.50	74.80	7.56	3530.44
9/17/2024	47.00	80.10	10.77	3541.21
9/18/2024	53.90	80.90	13.31	3554.52
9/19/2024	57.50	83.70	14.57	3569.09
9/20/2024	53.30	86.90	15.72	3584.81
9/21/2024	55.70	91.10	19.20	3604.01
9/22/2024	58.90	93.00	20.83	3624.84
9/23/2024	58.40	96.20	22.42	3647.26
9/24/2024	58.90	102.60	25.78	3673.04
9/25/2024	59.00	91.90	19.25	3692.29
9/26/2024	54.20	90.10	16.84	3709.13
9/27/2024	52.80	92.80	18.23	3727.36
9/28/2024	54.40	93.90	19.65	3747.01
9/29/2024	56.40	91.60	18.22	3765.23
9/30/2024	53.20	92.80	18.75	3783.98
10/1/2024	56.10	97.70	22.63	3806.61
10/2/2024	59.00	100.60	24.55	3831.16
10/3/2024	58.00	101.80	25.63	3856.79
10/4/2024	60.90	100.20	26.38	3883.17
10/5/2024	64.20	97.60	24.80	3907.97
10/6/2024	59.80	97.80	23.73	3931.70
10/7/2024	59.50	98.40	23.43	3955.13
10/8/2024	57.40	95.00	21.28	3976.41
10/9/2024	57.70	94.30	20.45	3996.86
10/10/2024	55.50	87.20	16.01	4012.87
10/11/2024	54.10	91.00	18.06	4030.93
10/12/2024	56.10	83.90	16.20	4047.13
10/13/2024	60.90	82.40	15.18	4062.31
10/14/2024	55.00	84.10	14.19	4076.50
10/15/2024	53.50	85.60	14.41	4090.91
10/16/2024	52.70	80.00	10.91	4101.82
10/17/2024	49.90	79.20	9.50	4111.32
10/18/2024	46.70	72.10	5.02	4116.34
10/19/2024	38.00	78.40	7.01	4123.35
10/20/2024	40.60	85.80	10.85	4134.20
10/21/2024	43.50	85.20	11.37	4145.57

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
10/22/2024	46.60	83.00	10.41	4155.98
10/23/2024	44.00	81.40	9.49	4165.47
10/24/2024	45.30	77.90	7.54	4173.01
10/25/2024	40.60	80.10	8.44	4181.45
10/26/2024	44.70	80.40	9.91	4191.36
10/27/2024	50.50	76.40	8.13	4199.49
10/28/2024	45.50	70.30	4.19	4203.68
10/29/2024	38.40	68.30	2.83	4206.51
10/30/2024	35.50	71.20	3.84	4210.35
10/31/2024	38.40	69.00	3.17	4213.52
11/1/2024	37.70	68.10	3.31	4216.83
11/2/2024	45.50	68.30	3.77	4220.60
11/3/2024	44.20	68.80	3.62	4224.22
11/4/2024	40.50	68.40	3.06	4227.28
11/5/2024	37.40	70.30	3.69	4230.97
11/6/2024	39.70	69.60	3.27	4234.24
11/7/2024	33.90	71.90	3.77	4238.01
11/8/2024	34.10	74.10	4.63	4242.64
11/9/2024	35.30	72.80	4.21	4246.85
11/10/2024	35.00	73.60	4.50	4251.35
11/11/2024	35.40	68.40	2.68	4254.03
11/12/2024	34.40	59.70	0.41	4254.44
11/13/2024	31.30	65.50	1.79	4256.23
11/14/2024	37.40	65.60	1.88	4258.11
11/15/2024	33.90	61.10	0.63	4258.74
11/16/2024	28.60	59.10	0.27	4259.01
11/17/2024	27.70	62.40	1.01	4260.02
11/18/2024	40.20	60.60	0.64	4260.66
11/19/2024	29.40	60.00	0.55	4261.21
11/20/2024	41.90	74.10	5.48	4266.69
11/21/2024	39.60	80.00	8.14	4274.83
11/22/2024	43.40	79.70	9.69	4284.52
11/23/2024	51.90	65.10	2.96	4287.48
11/24/2024	40.30	65.10	2.63	4290.11
11/25/2024	49.20	58.00	0.57	4290.68
11/26/2024	50.90	57.00	0.22	4290.90
11/27/2024	39.50	57.80	0.19	4291.09
11/28/2024	33.20	56.60	0.05	4291.14
11/29/2024	31.80	50.80	0.00	4291.14
11/30/2024	34.40	54.10	0.00	4291.14
12/1/2024	43.00	63.60	1.60	4292.74
12/2/2024	37.40	64.60	1.63	4294.37
12/3/2024	35.00	64.50	1.54	4295.91
12/4/2024	35.50	64.80	1.69	4297.60
12/5/2024	37.20	65.90	1.98	4299.58
12/6/2024	34.50	66.10	1.92	4301.50
12/7/2024	33.60	62.00	1.01	4302.51
12/8/2024	40.90	62.20	1.10	4303.61
12/9/2024	35.80	52.30	0.00	4303.61
12/10/2024	33.30	58.30	0.20	4303.81
12/11/2024	29.40	58.60	0.26	4304.07

Date	Air Temperatures (°F)		Degree Days	
	Min	Max	Daily	Accumulated
12/12/2024	36.90	56.80	0.08	4304.15
12/13/2024	35.50	60.30	0.62	4304.77
12/14/2024	39.50	67.80	2.72	4307.49
12/15/2024	35.60	59.40	0.41	4307.90
12/16/2024	36.20	58.70	0.35	4308.25
12/17/2024	41.20	53.00	0.00	4308.25
12/18/2024	47.90	57.40	0.23	4308.48
12/19/2024	38.80	57.20	0.13	4308.61
12/20/2024	37.90	52.20	0.00	4308.61
12/21/2024	41.40	55.50	0.01	4308.62
12/22/2024	49.00	64.70	2.67	4311.29
12/23/2024	44.60	68.70	3.79	4315.08
12/24/2024	43.30	59.00	0.44	4315.52
12/25/2024	37.30	54.40	0.00	4315.52
12/26/2024	38.30	57.50	0.23	4315.75
12/27/2024	47.30	67.50	3.47	4319.22
12/28/2024	42.10	63.80	1.91	4321.13
12/29/2024	44.70	62.70	1.47	4322.60
12/30/2024	39.70	57.40	0.14	4322.74
12/31/2024	32.70	56.70	0.06	4322.80

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