

IPM Update – April 9, 2025

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Monitoring

- Use traps to monitor insect pests – basis of IPM
- Keep trapping records
- Use biofix, *UCIPM guidelines*
- Use degree day models for making treatment decisions

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Insect Pests & Trap Placement

Insect Pest	Crop(s)	Trap/Lure Type	Target Sex	Trap Placement Date
Navel orangeworm	Almond, Walnut, Pistachio	Pheromone,	Male	15-Mar
Navel orangeworm	Almond, Walnut, Pistachio	Peterson (MD+)	Female	15-Mar
Navel orangeworm	Almond, Walnut, Pistachio	Egg (MD+)	Female	1-Apr
Codling moth	Walnut, Apple, Pear	CM 1x pheromone,	Male	15-Mar
Codling moth	Walnut, Apple, Pear	CMDA Combo (MD+)	Male + Female	15-Mar
Peach twig borer	Peach, Almond	Pheromone	Male	15-Mar
Oriental fruit moth	Peach, Almond	Pheromone	Male	7-Feb
Oriental fruit moth	Peach, Almond	Combo Dual (MD+)	Male + Female	7-Feb
Obliquebanded leafroller	Tree and Nut Crops	Pheromone	Male	15-Apr
Lilac borer	Olive	Pheromone	Male	15-Mar
San Jose Scale	Tree and Nut Crops	Pheromone	Male SJS + Parasitoids	25-Feb
Brown marmorated stink bug (BMSB)	Almond, Pistachio, tree fruits	Pheromone (aggregation)	Male + Female	1-Mar
Leaffooted bug	Almond, Pistachio, Pomegranate	Pheromone (male produced)	Female	15-Mar
Walnut husk fly	Walnut	Yellow trap with Amm. Car.	Male + Female	1-Jun
Mite predator trap	Tree and Nut Crops	Yellow sticky trap	Sixspotted thrips, Stethorus beetle; Male+female	1-Apr

MD+ = needed for mating disruption orchard, but also can be used in conventional orchards

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Oriental Fruit Moth

- 1st biofix: 18 February
 - DD (4/8): 478
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- Projected 1st gen. spray timing (500 - 600DD): **10 - 17 April**



Generation Length (degree-days)			Spray Timing (degree-days)	
1st	2nd	3rd	Early generation	Later generations
920-1010	920-1010	920-1010	500-600	400-500



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Codling Moth

- 1st biofix: **1 April**
- DD (4/8): 72



- Projected 1st gen. spray timing,
 1A (300DD): **1 May**
 1B (600DD): **21 May**

Generation Length (degree-days)			Spray Timing (degree-days)	
1st	2nd	3rd	Early generation	Later generations
1060	1100	1200	1A Peak: 300 1B Peak: 600-700	300

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Peach Twig Borer (PTB)

- 1st biofix: **8 April**
- DD (4/8): 72



- Projected 1st gen. spray timing (400 -500 DD): **12-18 May**

Generation Length (degree-days)			Spray Timing (degree-days)	
1st	2nd	3rd	Early Generation	Later Generations
1030	1030	1030	400-500	300-400

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Egg trap for navel orangeworm



- Most reliable trap for egg-laying activities and degree-day calculations
- Multiple traps; 4-8 traps/orchard
- Bait: almond meal
- Biofix: If 50% of traps have egg captures in two consecutive weeks, the earlier date would be a biofix.

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Egg trap for navel orangeworm

Projected beginning of the 2nd generation (1056 DD): **30 June**
(based on 1 April biofix)



1-Apr	Egg Trap 1	2	1	1
	Egg Trap 2	0	1	0
	Egg Trap 3	3	1	1
	Egg Trap 4	0	0	0
	Egg Trap 5	0	0	0
	Egg Trap 6	3	2	0
	Egg Trap 7	0	0	2
	Egg Trap 8	0	0	1
Average		1	0.625	0.625

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Leaffooted Bug

First capture in our traps: **8 April, 2025**



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Brown marmorated stink bug (BMSB)

First capture in our traps: **1 April, 2025**



Wide Integrated Management Program

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SAVE THE DATES

2025 TREE & VINE IPM BREAKFAST MEETINGS

OLD MILL CAFE
600 9TH ST., MODESTO CA 95354
7 AM - 8 AM

MARCH 5	MAY 7
MARCH 19	MAY 21
APRIL 9	JUNE 4
APRIL 23	JUNE 18

MORE INFO: UCCE STANISLAUS 209.525.6800

For sponsoring DPR hours application,

-21 May
-4 June
-18 June

Contact UCCE Stanislaus:
209-525-6800