2024 IPM Update -15 May

Jhalendra Rijal, Ph.D. Area IPM Advisor UC Cooperative Extension - San Joaquin, Stanislaus, Merced



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1

Monitoring

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



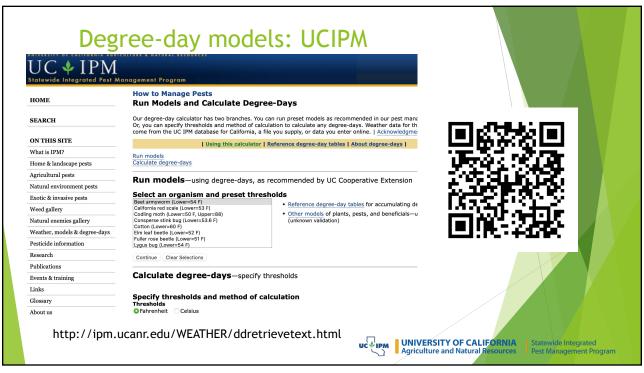
Or google "Run Degree Days UCIPM"

Note:

- All trapping data reported in this presentation were collected from 2-4 commercial orchards in Stanislaus County. The weather station used for calculating degree days was CIMIS Station #206, Denair.
- Therefore, the information provided here should be used as a general reference, this is not a recommendation of any kind. All growers/PCAs should have their monitoring systems and tools in place, and use that information in making pest management decisions as "every orchard is different"



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Timing for trap Deployment -almond/peach Insect pest Trap placement date **Purpose** Navel orangeworm Monitor biofix and determine hull-split April 1 /mid-March spray timing. (Egg trap) (eggs)/other traps Oriental fruit moth Monitoring needed only in orchards with a February 15 February history of damage. Peach twig borer March 20 Determine biofix for each generation. Use degree-days (see UC IPM Pest Management Guidelines: Almond) to determine May spray and hull-split spray timing. February 25 Determine biofix (see IPM website, San Jose scale (San Joaquin Valley) http://www.ipm.ucdavis.edu). March 1 Monitor beneficials.

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(Sacramento Valley)

Egg trap for navel orangeworm



- Multiple traps; minimum 4 traps/orchard
- Bait: almond meal
- Biofix: 50% of traps have egg captures consistently in two consecutive weeks
 - the earlier date would be a biofix.



5



Codling Moth Traps

Under no-mating disruption:

- ▶ 1 mg (1X) pheromone lure only attracts males
- Under low pressure: Use CM-DA lure –attracts both males & females

Under mating disruption or influenced by MD

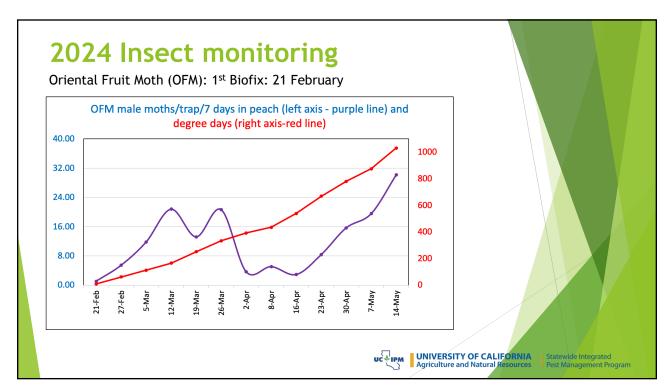
- CM-DA lure for seasonal activity
- ▶ 1 mg (1X) pheromone lure

Use these traps to determine the biofix and track the flights, and degree-days for making spray timing decisions



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7





- Oriental Fruit Moth (OFM): 1st Biofix 21 February
 - ▶ 1st gen. spray timing (500 600DD): 12-19 April
 - DD accumulated (as of 5/14): 1030



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	

https://ipm.ucanr.edu/agriculture/peach/peach-twig-borer/

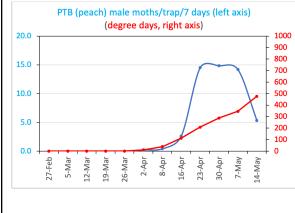


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9

2024 Insect monitoring

▶ Peach Twig Borer (PTB): 1st Biofix: 2 April







2024 Insect monitoring

▶ Peach Twig Borer (PTB): Biofix 2 April

DD accumulation (as of 4/30): 288

1st gen. spray timing (400 - 500DD): 10-15 May

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

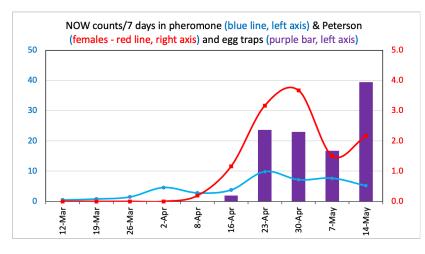


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11

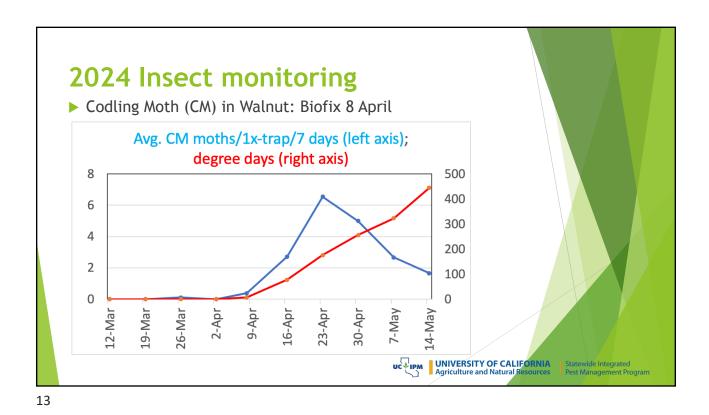
2024 Insect monitoring

▶ Navel Orangeworm (NOW) in almonds: Egg laying biofix: 16 April





- Projected spring spray timing (100DD): April 27
- Projected 2nd flight (1056 DD): June 27



2024 Insect monitoring

► Codling Moth (CM): Biofix 8 April

DD accumulation (as of 5/14): 444

1st gen. spray timing:

1A flight (300 DD): 4 May

1B flight (600 - 700 DD): 22 May - 27 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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