# IPM Update – April 15, 2026

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## Temperature matters…

Insect growth, development and other movement activities directly related to temperature…..

- Early emergence in the spring
- Shorter calendar days to complete one generation/life cycle
- Feeding activities can be faster due to higher metabolic activities

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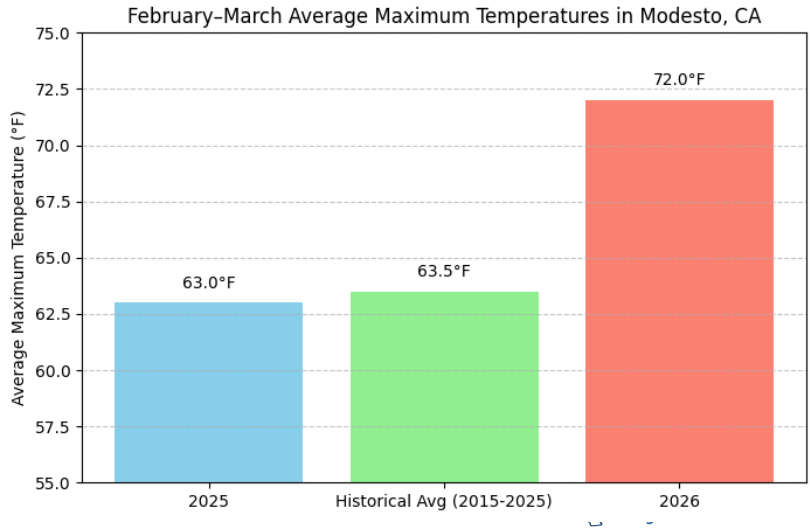
# Temperature matters…

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# Temperature matters…

| Pest Category | Species | 2025 Activity/Biofix | 2026 Activity/Biofix | Difference |
|---|---|---|---|---|
| **Lepidoptera** | Oriental Fruit Moth | March 18 | March 11–17 | 4 to -7 Days |
| | Peach Twig Borer | Early April | Late March | 10 to -15 Days |
| | Codling Moth | Early April | Late March | 10 to -15 Days |
| | Navel Orangeworm (Male moths) | March 18 | March 10 | 8 Days |
| | Navel Orangeworm (Female moths) | March 25 | March 24 | 1 Day |
| **Hemiptera** | Brown Marmorated Stink Bug | April 1 | March 1 | 31 Days |
| | Leaffooted Bug | April 8 | March 18 | 21 Days |

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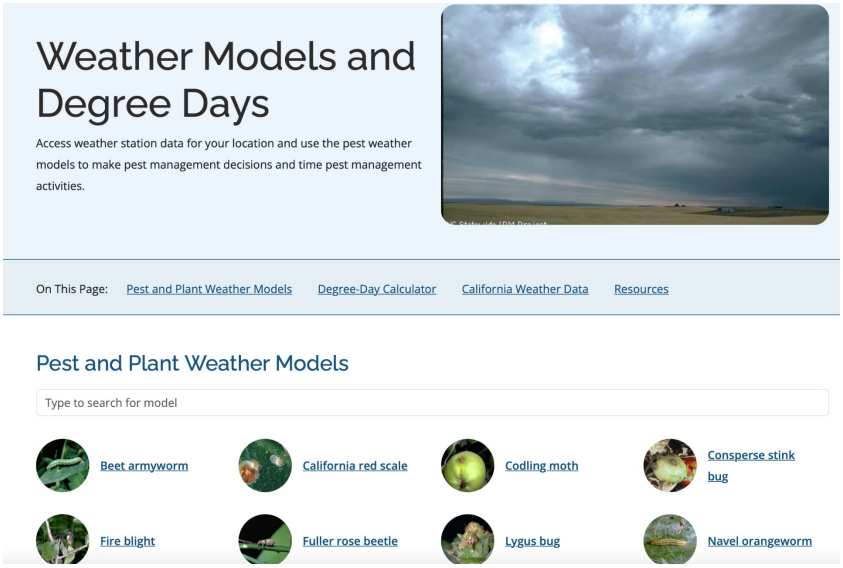
# Degree days calculation from UCIPM website




Google “UCIPM weather models”

https://ipm.ucanr.edu/weather/#gsc.tab=0

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# Oriental Fruit Moth

- 1st biofix: 17 February
- DD (4/14): 840

- Projected 1st gen. spray timing (500 - 600DD): 23-28 March

| 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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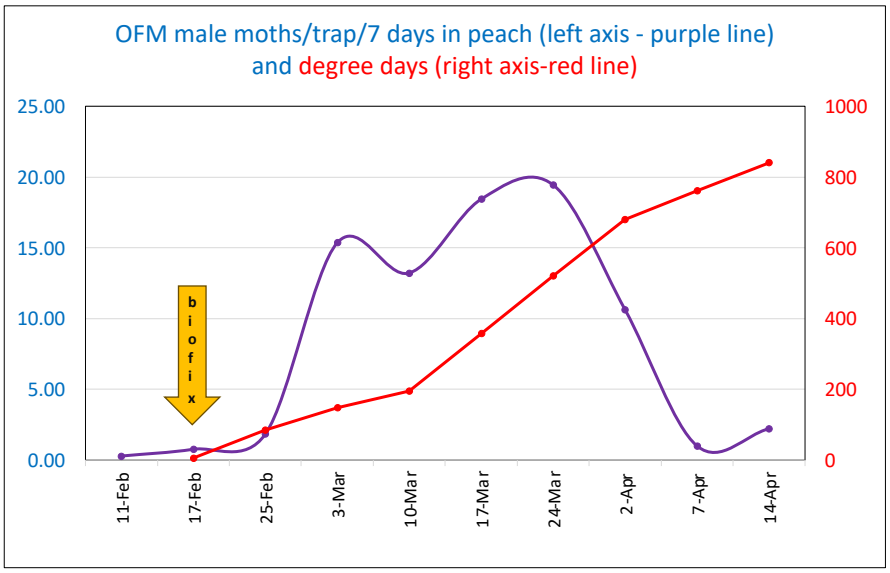
# Oriental Fruit Moth




1st biofix: 17 February
DD (4/14): 840

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# Peach Twig Borer (PTB)

- 1st biofix: **24 March**
- DD (4/14): 250

- Projected 1st gen. spray timing (300 - 400 DD): **21-29 April**

| 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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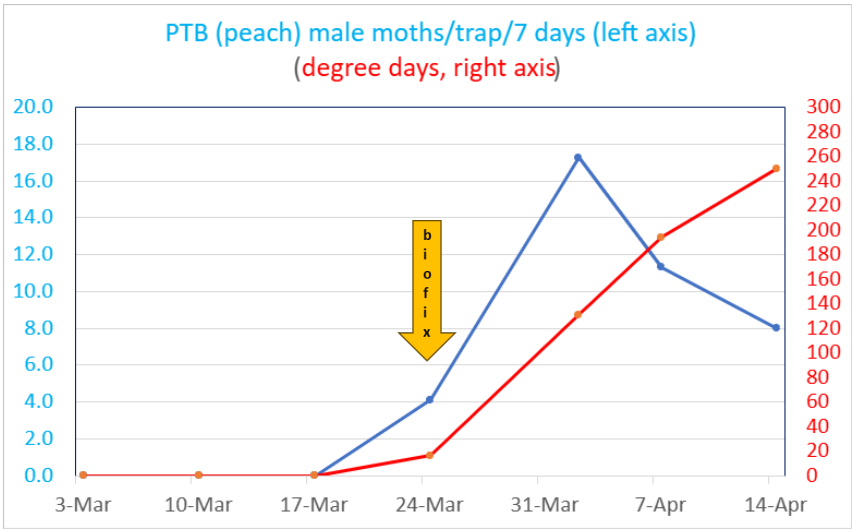
# Peach Twig Borer (PTB)




- 1st biofix: **24 March;**
- DD (4/14): 250

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# Codling Moth

- 1st biofix: **24 March**
- DD (4/14): 250

- Projected 1st gen. 1A spray timing (250 – 300 DD): **April 17**
- Projected 1st gen. 1B spray timing (600 DD): **May 12**

| Generation Length (degree-days) | | | Spray Timing (degree-days) | |
|---|---|---|---|---|
| 1st | 2nd | 3rd | Early generation | Later generations |
| 1060 | 1100 | 1200 | 250-300 | 250 |

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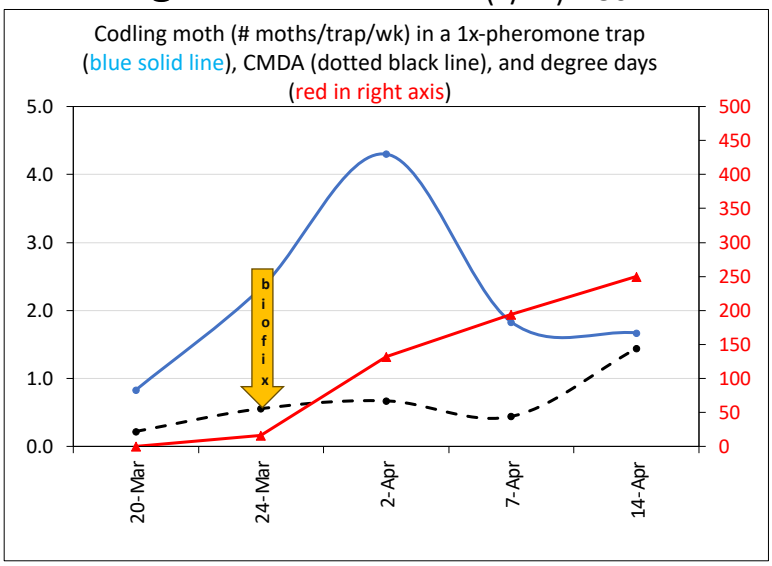
# Codling Moth

- 1st biofix: **24 March**
- DD (4/14): 250



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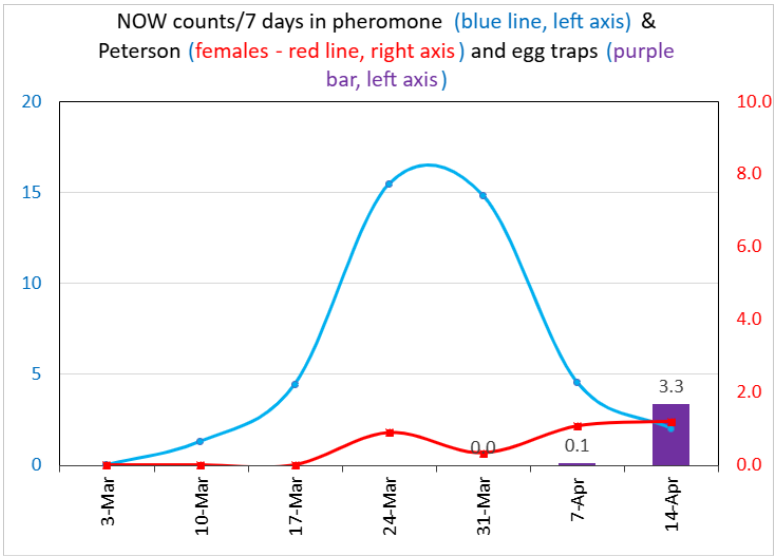
# Navel Orangeworm in almonds




- 1st biofix: **7 April**
- 1st generation spray (100DD): April 22
- DD (1056): 2nd Flight on July 1st



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BMSB infesting almond crop (April 10, 2026; Source: PCA consultant)

*Halyomorpha halys*

*Brochymena* spp.

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# Brown marmorated stink bug (BMSB) traps

Clear Panel Trap

Pyramid Trap

Experimental vibrational (Shindo) Trap

All baited with BMSB lure

First BMSB capture: March 3

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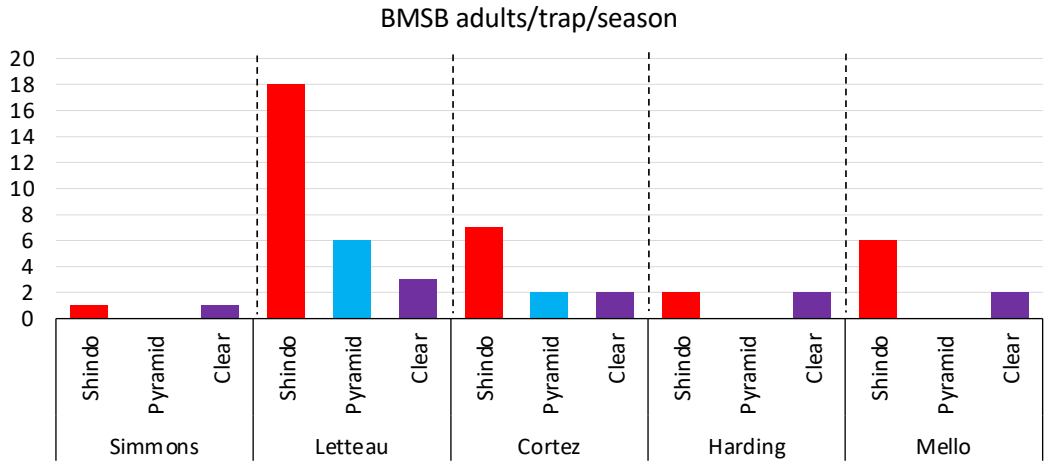
# Adult - Seasonal total BMSB capture

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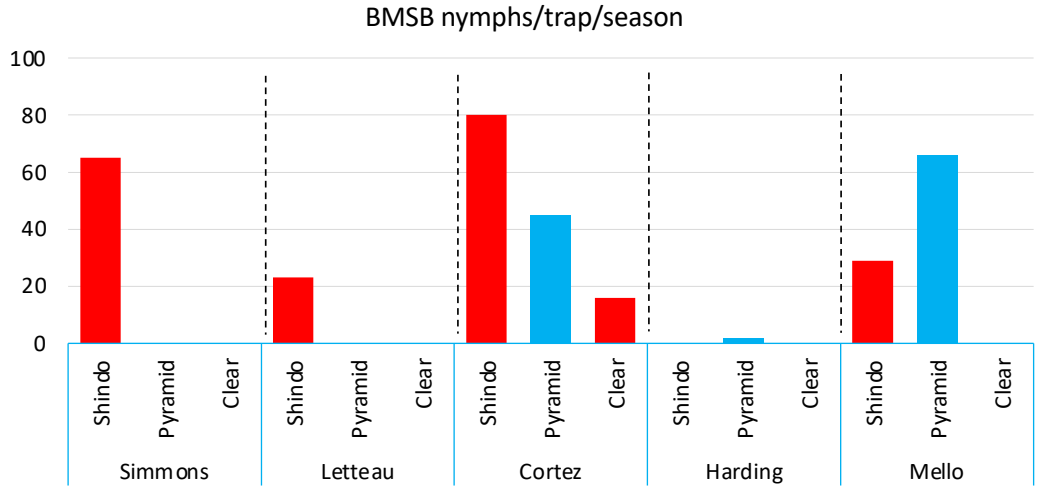
# Nymph - Seasonal total BMSB capture

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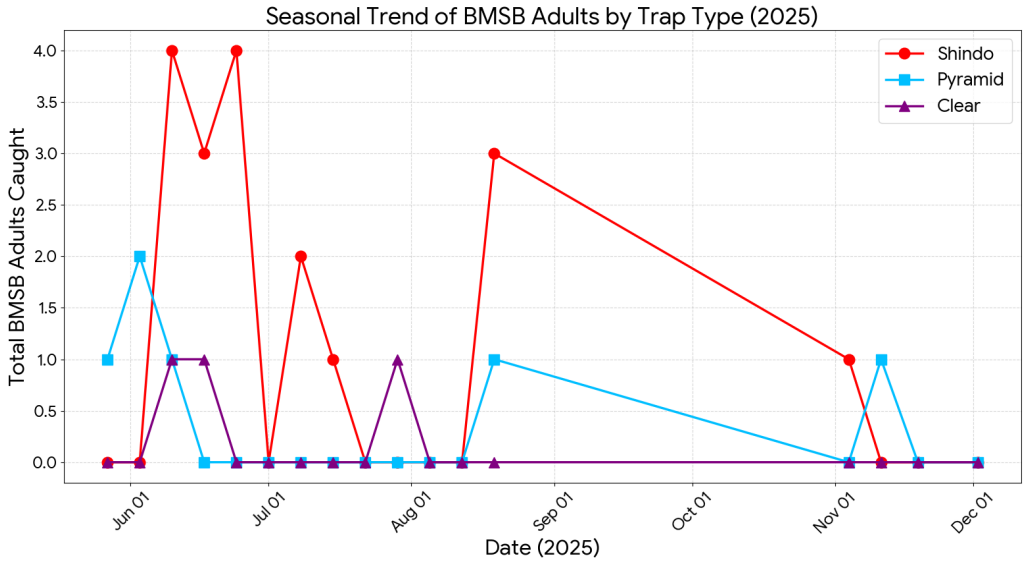
# Seasonal adult capture trend

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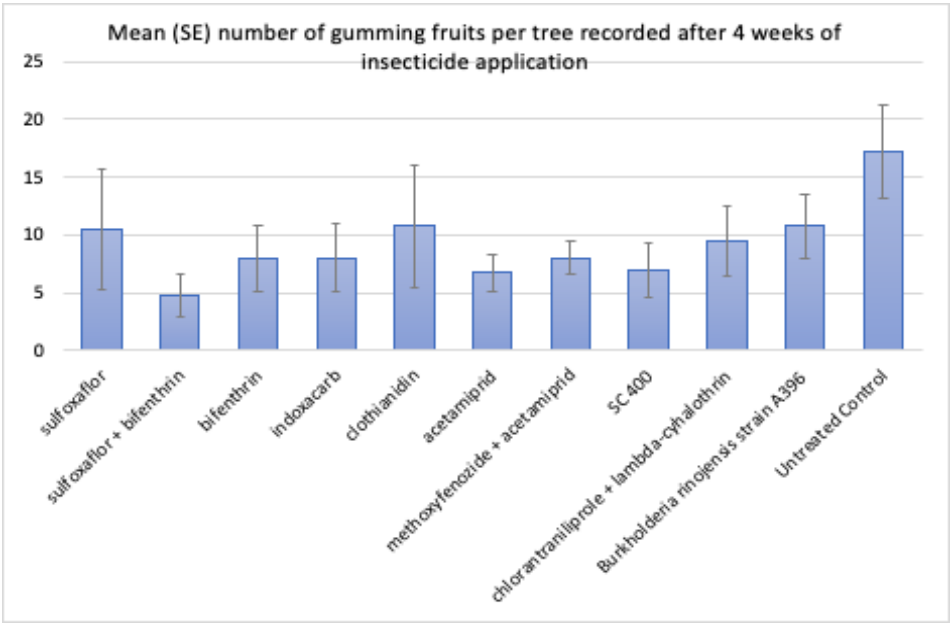
# Insecticides against hemipterans

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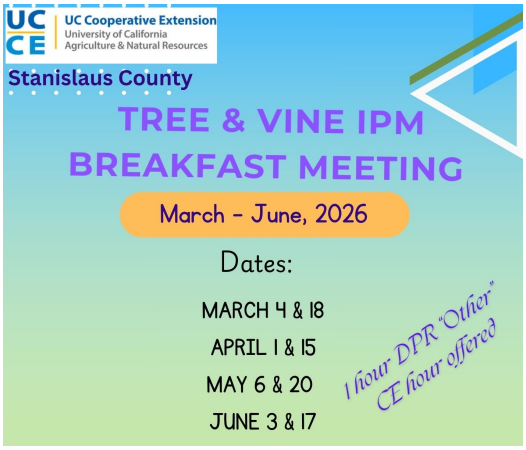
Today's Speaker: April 15

Dr. Andreas Westphal
Topic: Nematode Control




**Disclaimer:** Mention of commercial insecticides/products in this presentation does not constitute product endorsement, nor does it suggest products not listed would not be suitable for use. Some research results included involve the use of chemicals which are currently registered for use, or may involve use which would be considered off label. These results are reported but are not a recommendation from the University of California for use. Consult the label and use it as the basis of all recommendations.

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