

INSECT PEST MONITORING FOR TREE & NUT CROPS IN NORTH SAN JOAQUIN VALLEY

-5 May Update

Jhalendra Rijal, Ph.D.

Area IPM Advisor - San Joaquin, Stanislaus, Merced

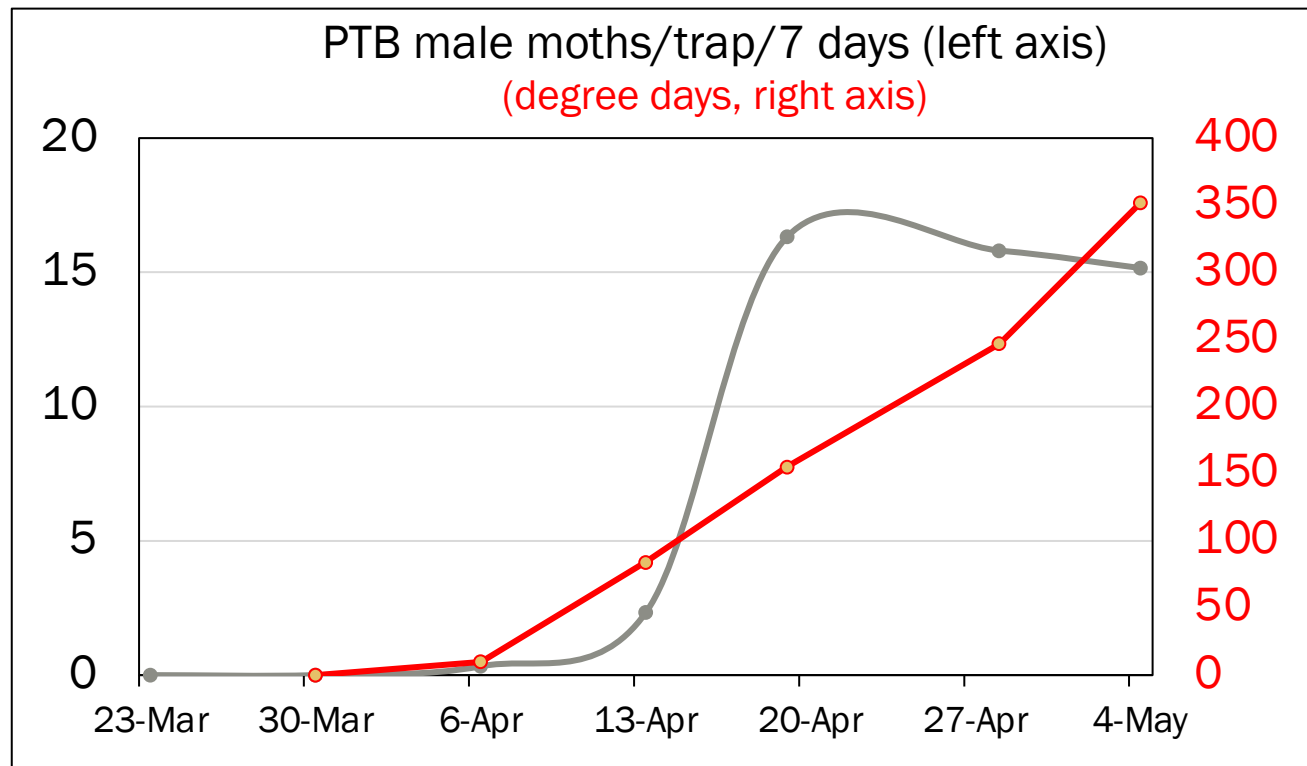
UC Cooperative Extension - Stanislaus

5 May, 2021

Pest Activities/DD in Traps (*Denair II CIMIS #206*)

■ Peach twig borer (PTB)

- *Biofix: 6 April*
- *Accumulated degree-days (as of 5/4): 352*
- *Predicted 1st gen. spray timing (300 - 400DD): May 1 – May 7*

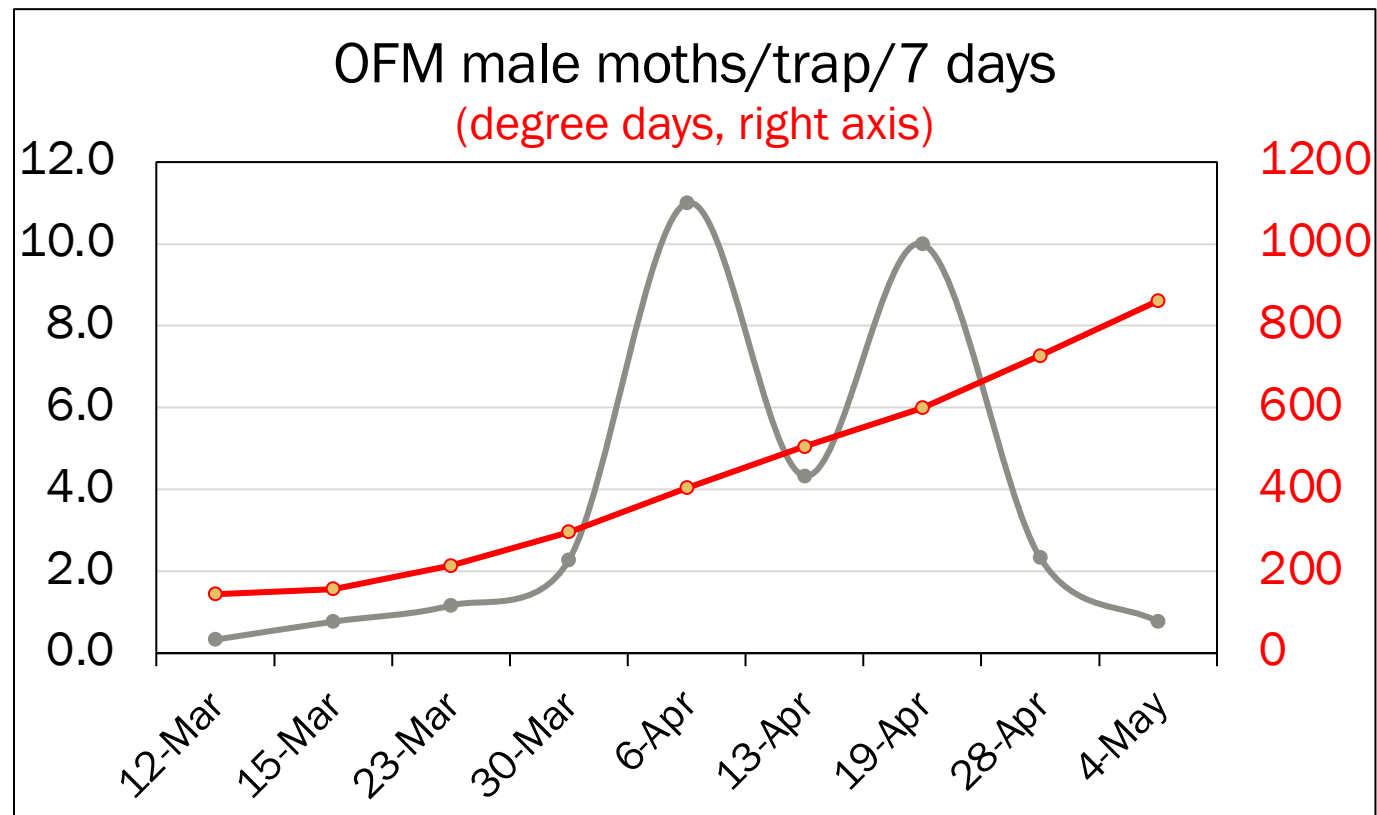


Shoot strike monitoring
from 400 - 800 DD for
each generation

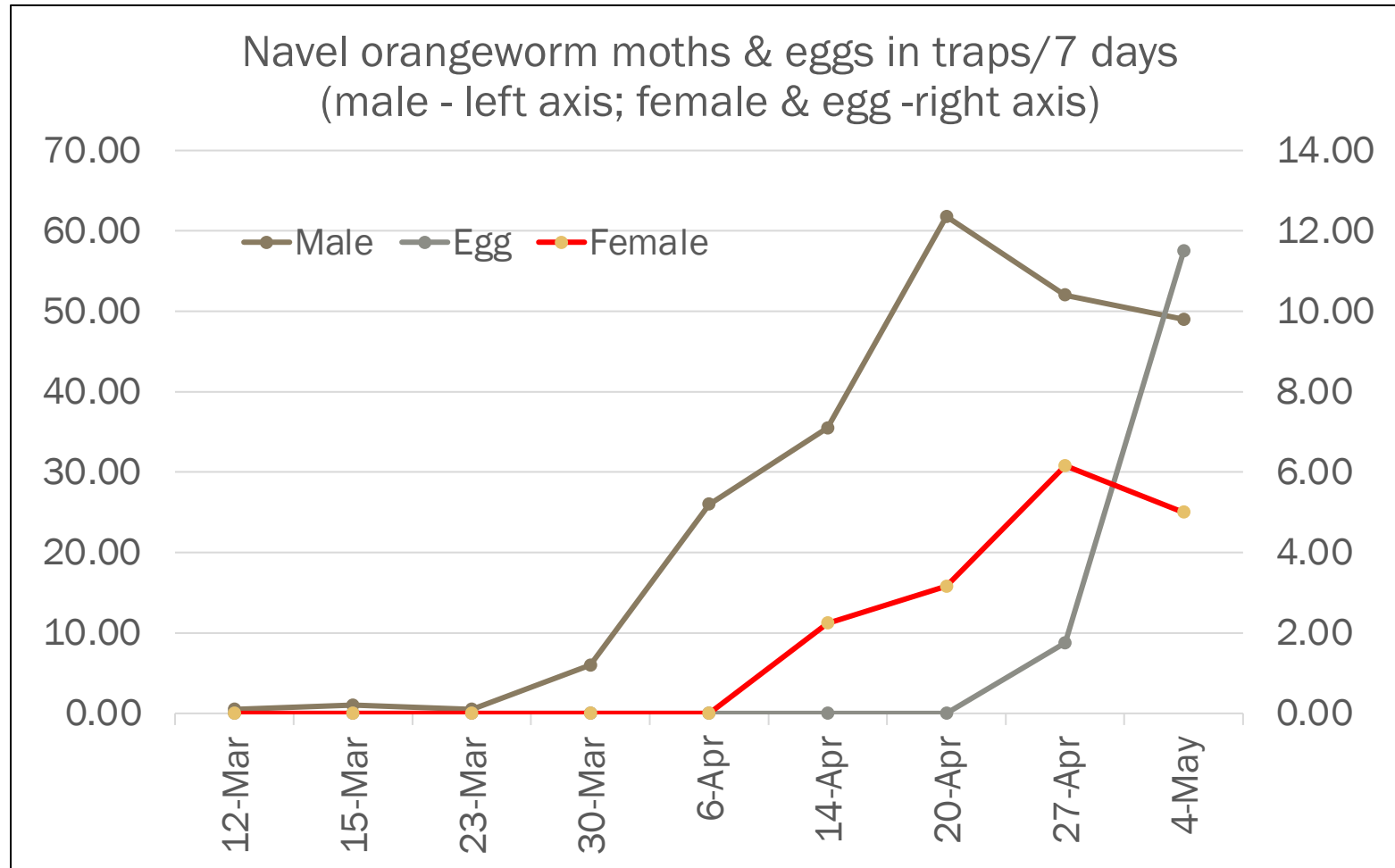
Pest Activities/DD in Traps (Denair II CIMIS #206)

■ Oriental fruit moth (OFM)

- *Biofix: 22 February*
- *Accumulated degree-days (as of 4/19): 861*
- *Predicted 1st gen. spray timing (500-600DD): April 13 -19*

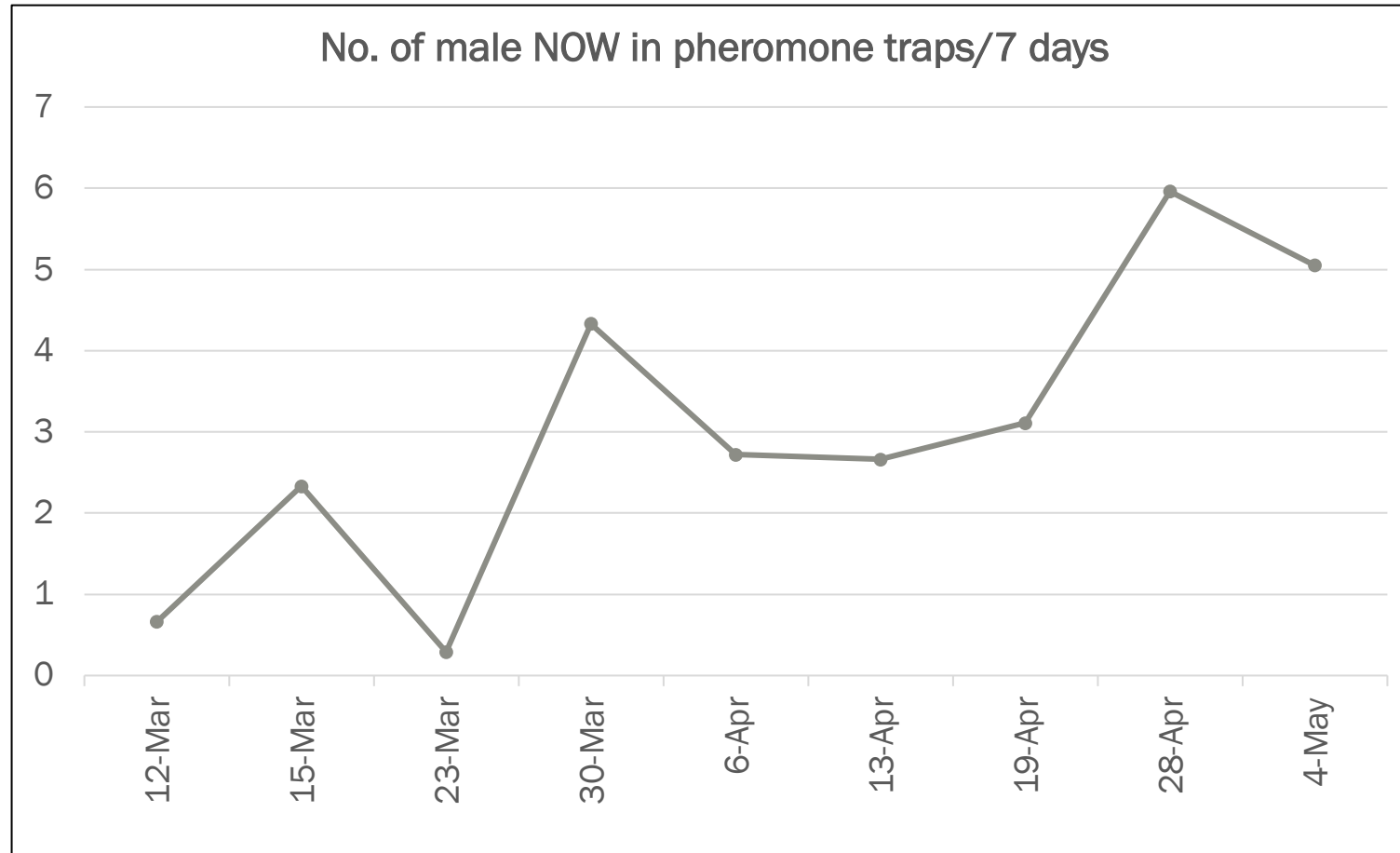


Navel Orangeworm (NOW) Activities in Traps (Almonds) High pressure



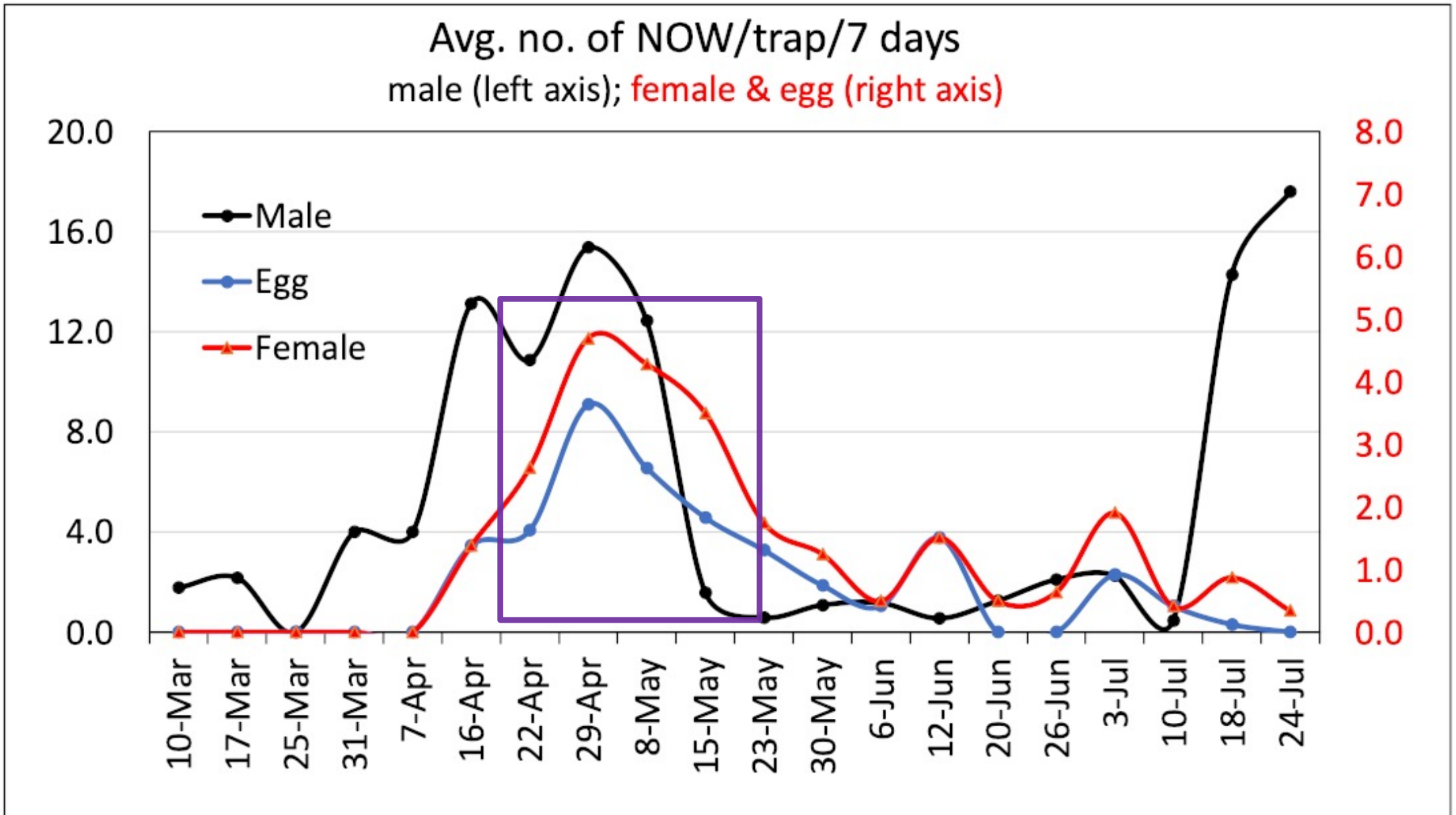
- Both male in pheromone & female activities in Peterson baits increased
- Eggs laying biofix; 22 April
 - 100 DD : 2 May
 - 1056 DD: 29 June
- Egg biofix: when egg numbers and number of traps with eggs increase for at least two consecutive sampling periods or 50% of the traps have eggs (UCIPM)

Navel Orangeworm (NOW) Activities in Traps (Almonds) Low pressure



- Minimal moth activities (both male and female)
- Egg laying biofix: 22 April

2020 NOW Overwintering Activity in North San Joaquin Valley



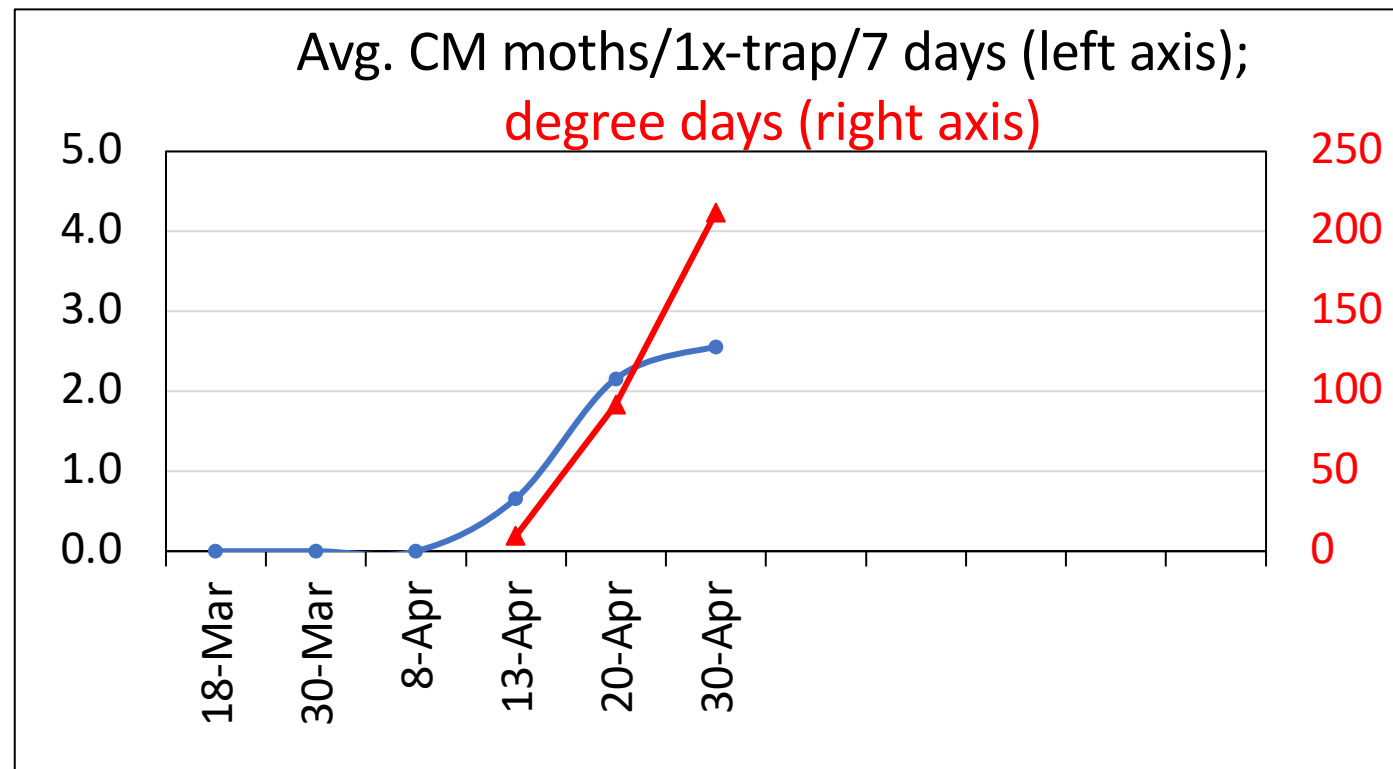
Is 'May Spray' needed? A broader discussion

- Is this spray originally intended for NOW control?
Evolution: PTB spray \longrightarrow May spray \longrightarrow Mummy spray
- Should we focus on mummy sanitation, not on mummy spray?
- Which is important? Protecting split nuts or spraying in May-Economics??
- Efficacy of insecticides to control NOW - 50% max.
- Do we really have options to do 2-3 sprays given limited a.i. in the market?
- Industry sustainability goal – Is it IPM if the best cultural practice (i.e., removal of mummy nuts) not implemented??
- Exception: orchard specific decisions – Peach twig borer, high pressure despite the winter sanitation, unfinished blocks, plant bugs issue, etc.

Pest Activities/DD in Traps *(Denair II CIMIS #206)*

■ Codling moth

- *Biofix: 13 April*
- *Accumulated degree-days (as of 5/4): 278*
- *Projected 1st gen. spray timing (1B peak) (600-700DD): May 22-27*



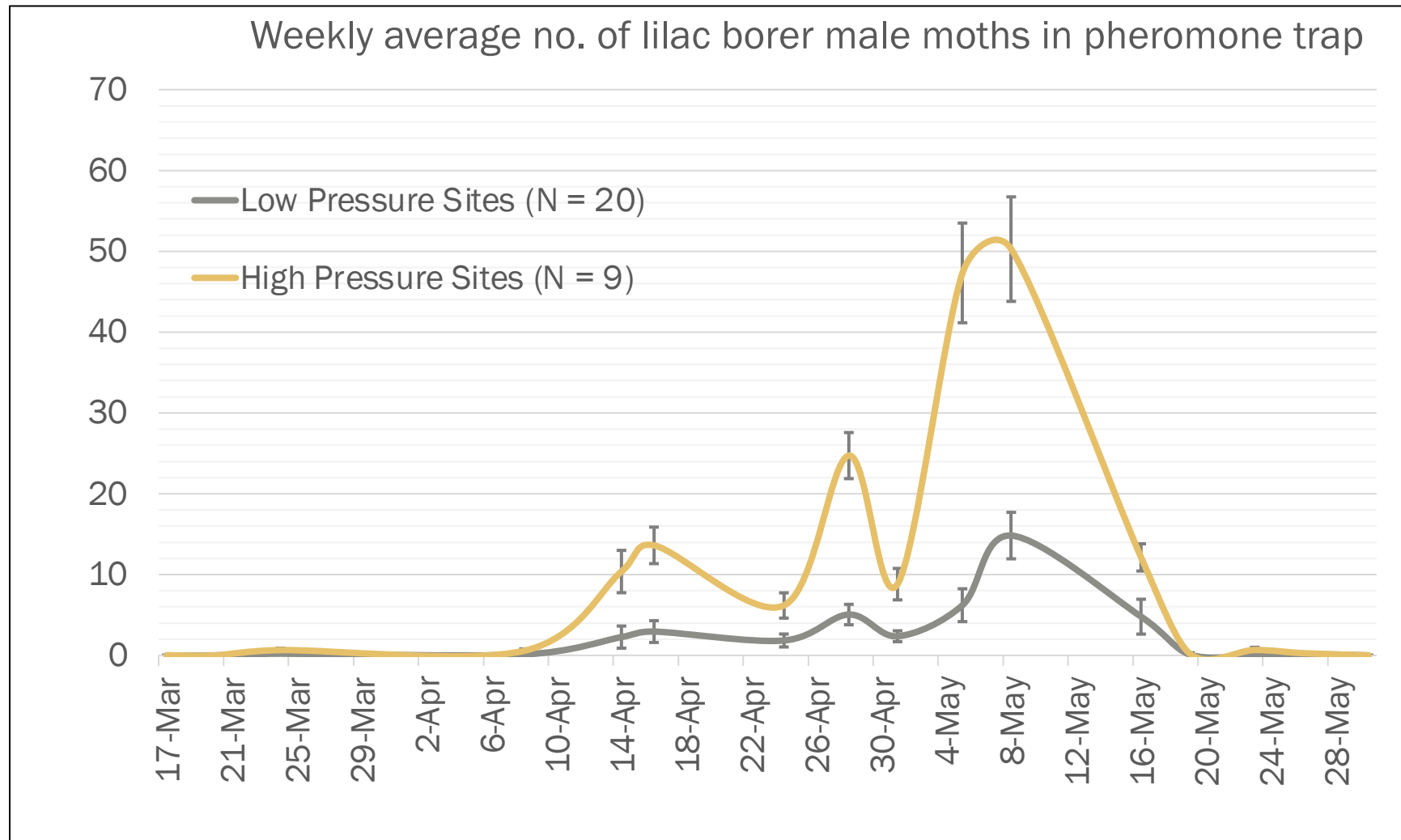
Leaffooted bug (wk of April 5, April 12)



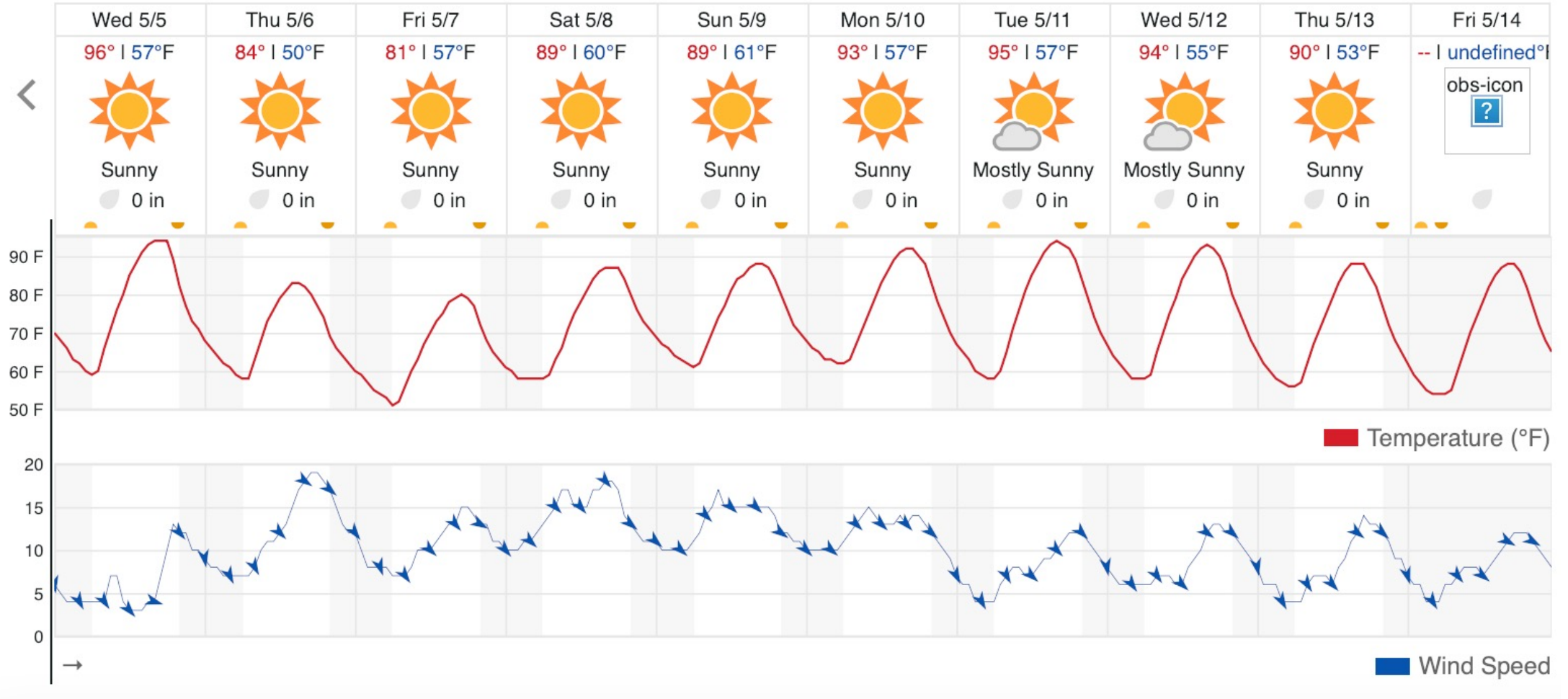
Lilac borer or ash borer in olives



Lilac borer or ash borer in olives



Weather (Modesto) – next 10 days



UCIPM Degree Days Models



<http://ipm.ucanr.edu/WEATHER/ddretrievetext.html>

Trap counts/DD info at IPMCorner.com

IPM Corner
An educational blog in addressing arthropod pest issues of tree & nut, and other crops of San Joaquin Valley, California

UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources
UC Cooperative Extension & Statewide IPM Program

BLOG **RESOURCES** **LINKS** **ABOUT**

Trap data and DD
Newsletter
Events

Insect monitoring data

2021:
[March 17 IPM updates-presentation](#)

2020:
[7/28/20](#)
[5/14/20](#)

2019 and earlier



Disclaimer:

The information provided here is for your reference purpose only. Every orchard is different regarding the insect activity and damage history. We highly encouraged to use your own monitoring tools, biofix dates, and degree-days for making pest management decisions.

The average numbers of insect captured may not represent what you are observing in your orchard(s). The average trend is more important than the exact number. All insect monitoring/DD information provided here are derived from the traps/weather stations located in Modesto area (Stanislaus county) in general, and may not be fully applicable to other geographic region/locations