University of California Integrated Pest Management Insect Update #4
Tehama County 4/14/14

INSECT	FIRST BIOFIX	SECOND BIOFIX	THIRD BIOFIX	FOURTH BIOFIX	ACTIVITY MOTHS/DAY	AVG. DEG. DAYS/DAY	DAY DEGREES FROM BIOFIX
CODLING MOTH	3/18	-	-	-	1.9	16.0	248
ORIENTAL FRUIT MOTH	2/19	-	-	-	1.3	21.8	692
PEACH TWIG BORER	3/20	-	-	-	13.0	16.0	227
NAVEL ORANGE WORM	4/7	-	-	-	.8	5.8	58
SAN JOSE SCALE	3/17	-	-	-	-	8.3	202

For Codling moth in the Tehama Ashley orchard that we monitor our" first flight biofix" or the date that moths from the overwintering generation were consistently caught in traps occurred on 3/18/14.

On Thursday April 10 our CM-DA lures caught the first females usually referred to as the "Female biofix". Codling moth females lay eggs when sunset temperatures are at or above 62 F. Sunset temperatures for the CIMIS Gerber weather station have been above the egg laying threshold from 4/6 through 4/13. That would suggest first egg laying most likely occurred close to the "female biofix" on 4/13.

Average egg hatch occurs at about 160 Degree Days after egg laying. We have accumulated 87 DD since 4/13. Using 160DD for egg hatch timing that leaves 73 DD (160 DD -87DD=73DD) to average egg hatch. Assuming 16 DD per day that would put average egg hatch at 4.5 days or about Friday 4/18 (73DD /16DD=4.5days).

Notice that egg hatch spray timing is very close to the traditional 300DD timing from the "first flight biofix"

Notice that we have consistently observed NOW eggs in Almond on 4/7/14.

Additional Pest management information plus twilight temperatures are available at the UC IPM website including a day degree calculator. http://www.ipm.ucdavis.edu.

Tehama Pest management updates are also available at
http://cetehama.ucanr.edu/Orchard_Crops/Insect_Updates

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