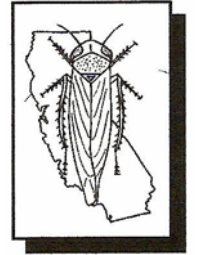


BEET CURLY TOP VIRUS

MONTHLY REPORT



CURLY TOP VIRUS CONTROL PROGRAM

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Report for July, 2015

Program-wide notice

- **New Pest Alert:** As of July 2015, APHIS confirmed the detection of three adult male Old World Bollworms (OWB) (*Helicoverpa armigera*) in Bradenton, Manatee County, Florida. These are the first detections of OWB in the continental United States. OWB is found in many countries in Africa, Europe, Asia, and the islands of the Western Pacific Region, and has recently become established in Brazil and Argentina. It is considered a severe economic pest in most places where it occurs. OWB feeds on many types of plants and can affect 180 species of wild and cultivated plants in more than 45 families. Some of the major hosts include:
 - tomatoes
 - beans and forage legumes
 - bell peppers
 - cotton
 - peas
 - okra
 - maize, wheat, and other small grains
 - artichokes
 - potatoes
- Further information can be found at <http://www.aphis.usda.gov/plant-health/owb>
- CDFA is providing this alert for your information. At this time, CDFA is not recommending any action. If there was sufficient community and financial support, CDFA could consider implementing a monitoring program. Because this pest affects many popular garden vegetables, it is likely to be moved by the general public as much as, or more so, than in trade. A monitoring program should therefore include urban as well as crop areas.
- The Beet Curly Top Virus Program hosted the 2015 WERA 1007 Curly Top Regional Working Group. There were researchers and academia in attendance from Washington State, New Mexico, and Idaho. Several informative presentations were made followed by great group discussion on curly top virus and the beat leafhopper.

Fresno County

- Personnel will continue to identify and monitor fallow fields for BLH populations as the Program begins to prepare for the fall spray campaign.
- BLH population surveys and host plant surveys were conducted in Five Points, Cantua Creek, Three Rocks, Coalinga, Firebaugh and Mendota. BLH counts were on average 0-1 adult BLH and zero nymphs per single sweep.
- Mapping of fall host plants has begun although the host plants and BLH are very widespread.
- Approximately, 20,000 acres in Fresno County have been mapped for potential fall treatment. As many of these mapped areas get disked, mowed, or grazed, the size of the BLH population will begin to concentrate on remaining host plants. Mapping and monitoring of potential treatment sites will continue through September.
- Preparations for the fall waiver process began, based upon the mapped areas considered for fall treatment.

Kern County

- Personnel will continue to identify and monitor fallow fields for BLH populations as the Program begins to prepare for the fall spray campaign.
- BLH population survey in the Lost Hills and Buttonwillow area had very low counts, with an average of 0-2 adult BLH per single sweep.
- Mapping of fall host plants has begun although the host plants and BLH are very widespread.
- Approximately, 11,448 acres in north western Kern County have been mapped for potential fall treatment. As many of these mapped areas get disked, mowed, or grazed, the size of the BLH population will begin to concentrate on remaining host plants. Mapping and monitoring of potential treatment sites will continue through September.
- Preparations for the fall waiver process began, based upon the mapped areas considered for fall treatment.
- Nine (9) host plant samples were submitted for virus analysis. Two (2) were positive for curly top virus. Three (3) were negative. The remaining four (4) samples have not yet been tested. Results will be reported next month.

Kings County

- Personnel will continue to identify and monitor fallow fields for BLH populations as the Program begins to prepare for the fall spray campaign.
- BLH population surveys and host plant surveys were conducted in the Kettleman Hills, Reef City, Devil's Den, and the Interstate 5/Utica Avenue area. BLH counts averaged 0-1 adult BLH per single sweep in each of the areas.
- Mapping of fall host plants has begun although the host plants and BLH are very widespread.
- Approximately, 20,705 acres in Kings County have been mapped for potential fall treatment. As many of these mapped areas get disked, mowed, or grazed, the size of the BLH population will begin to concentrate on remaining host plants. Mapping and monitoring of potential treatment sites will continue through September.
- Preparations for the fall waiver process began, based upon the mapped areas considered for fall treatment.

Merced County

- Personnel will continue to identify and monitor fallow fields for BLH populations as the Program begins to prepare for the fall spray campaign.
- BLH population surveys and host plant surveys were conducted from Los Banos to Santa Nella, and north to Gustine.
- A large fallow field on the north side of Highway 152, east of Los Banos city limit was surveyed. Host plants in the field were goosefoot and Russian thistle. BLH counts were 2 adult BLH per 10 sweeps.
- At Highway 165 and Henry Miller Road, Russian thistle was surveyed. BLH counts averaged 3 adult BLH and 1 nymph per 10 sweeps. Along Highway 165 and Middle Road, goosefoot was surveyed. BLH counts averaged 2 adults and 1 nymph per 10

- sweeps.
- In the Dos Palos area, near a dairy, a small patch of goosefoot was surveyed. BLH counts were 5 adult BLH per single sweep.
- Two (2) beet leafhopper samples were submitted for virus analysis. Both samples were positive for curly top virus.
- Seven (7) symptomatic tomato plant samples were submitted for virus analysis. Six (6) were positive for curly top virus.
- Two (2) host plant samples were submitted for virus analysis. Results will be reported next month.

Sacramento Valley

- The four (4) host weed samples that were submitted for virus analysis last month were all positive for curly top virus.

San Joaquin County

- Personnel will continue to identify and monitor fallow fields for BLH populations as the Program begins to prepare for the fall spray campaign.
- BLH population surveys and host plant surveys were conducted. Roadside hosts were minimal. Sweep surveys conducted on roadsides did not produce any BLH.
- Some small areas with Russian thistle development were surveyed. BLH counts were less than 1 adult BLH per single sweep, with 150 total sweeps conducted at time of survey.
- A melon field was surveyed however, no samples were taken because the field looked very good.
- Two (2) beet leafhopper samples were submitted for virus analysis. Both samples were positive for curly top virus.

Stanislaus County

- Personnel will continue to identify and monitor fallow fields for BLH populations as the Program begins to prepare for the fall spray campaign.
- BLH population and host plant surveys were conducted in the Patterson area. Host plants were very limited. Sweep surveys produced 2 adult BLH and 1 nymph in approximately 100 sweeps.
- Four (4) symptomatic tomato plant samples were submitted for virus analysis. All of them were positive for curly top virus.

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