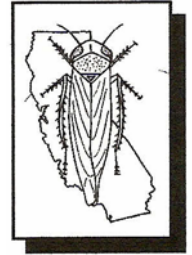


# BEET CURLY TOP VIRUS MONTHLY REPORT



## **CURLY TOP VIRUS CONTROL PROGRAM**

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### Monthly Report for November, 2013

November remained dry and warm. A rain event occurred on November 19-20<sup>th</sup> but only produced trace amounts of moisture for the Westside. Ground rig treatment applications were performed in Fresno and Kings Counties from November 4<sup>th</sup> to November 7<sup>th</sup> and on November 26<sup>th</sup>. A total of 960 gallons of tank mixed Malathion was used for ground rig treatment applications in Fresno and Kings Counties. In Kern County, one field was mapped and aerial treatment was conducted on November 25<sup>th</sup>, with a total of 1,000 acres treated. On November 19<sup>th</sup>, The Beet Curly Top Virus Control Program (BCTVCP) received four new fleet vehicles to replace the old vehicles that were surveyed several months ago.

The BCTVCP will begin using a new system of communication called Lyrus. This notification process will be more user friendly and easy to subscribe to. Please visit <http://www.cdfa.ca.gov/subscriptions/> to sign up for Curly Top Virus monthly newsletters and alerts. If you already receive the monthly BCTV report via email, you will automatically be switched to Lyrus. Stakeholders that wish to be added to this new system can subscribe using the above link.

## **Fresno County**

Ground rig treatment applications were conducted along roadsides and dry ditches in Firebaugh, Mendota, Three Rock, and Five Points. Beet leafhopper (BLH) population surveys were done prior to treatment. The highest BLH counts in most areas were collected from stressed *Bassia*.

- In Firebaugh to Mendota, treatment was conducted along Nees Avenue to Belmont Avenue (north and south) and Highway 33 to Fairfax Avenue (east and west). Beet leafhopper counts were on average, 10-20 adults and 0-1 nymphs, per sweep.
- In Mendota to Three Rocks, treatment was conducted along Manning Avenue to Jensen Avenue (north and south) and from Calaveras Avenue to San Bernardino Avenue (east and west). Beet leafhopper counts were on average 10 adults and zero nymphs, per sweep.
- From Three Rocks to Five Points, treatment was conducted along West Davis Avenue to West Mount Whitney Avenue (north and south) and from South Colusa Avenue to South Yuba Avenue (east and west). Beet leafhopper counts were on average 5-6 adults and zero nymphs, per sweep.
- A total of 740 gallons of tank mixed Malathion was used for ground rig treatment applications in Fresno County.
- Post treatment BLH population surveys produced on average, 0-2 adults and zero nymphs, per sweep.

- At a grower's request, a BLH and host plant survey was conducted on a field north of Huron, near Highway 198 and Lassen Avenue, on the east side. Russian thistle and beet leafhopper samples were obtained and sent for analysis to determine if Curly Top Virus (CTV) was present. At this time of year, and with the lack of rainfall all year, obtaining "green" viable Russian thistle is difficult. One plant sample out of 8, tested positive for CTV. Results of the BLH samples are still pending and will be reported on next month.
- Beet leafhopper population counts were variable and surveyed on four different days. On 11/13, counts were on average 4-5 per sweep. On 11/14, counts were less than 1 per sweep. On 11/25, counts were 4-5 per sweep. On 11/26, counts were 5 per sweep.
- Ground rig treatment was conducted on the east side of Lassen and Highway 198 on November 26, 2013. 160 gallons of tank mixed Malathion was used.

## **Imperial/ Riverside County**

A BLH survey was planned for November; however, it was postponed because aerial treatment in Kern County was necessary. The survey is scheduled for December 9-12<sup>th</sup> and will be reported on next month.

## **Kern County**

Beet leafhopper population surveys were conducted throughout the month. Beet leafhopper counts were very low in October and treatment was not warranted. Counts remained low (less than one per sweep), for most of November. Temperatures were warm and very little precipitation occurred.

- Surveys along major highways (Interstate 5, Highway 99, and Highway 46) resulted in very low counts; on average, less than one beet leafhopper per sweep. Host vegetation was also observed to be scarce and drying. About 20% remained viable.
- Survey along Interstate 5 south, from the base of the Grapevine to the Kern County line produced less than one BLH per sweep.
- Survey along Highway 99, from the intersection of Interstate 5 and Highway 99 to County Line Road, near Delano produced less than one BLH per sweep.
- In the Lost Hills area, along Interstate 5 and Twissleman Road, BLH counts increased significantly due mainly to disking of adjacent thistle. Counts in that area were 10-25 adult BLH per sweep. The area was mapped and preparations were made for aerial treatment on the field. A total of 1,000 acres was treated on November 25, 2013. Please see attached treatment map at the end of this report.
- Post treatment BLH counts were conducted 24 hours after treatment. Counts were on average 0-2 adults which was a 95% reduction to the population in that field.

## **Kings County**

Ground rig treatment applications were conducted along roadsides and dry ditches along Interstate 5 and Utica Avenue. A total of 320 gallons of tank mixed Malathion was used.

## **Merced County**

Beet leafhopper population and host plant surveys were conducted in parts of Los Banos, Gustine, and Newman. Host plants were very dry and BLH counts were on average, 0-3 adults, per sweep.

## **San Joaquin County**

Survey was conducted along the Westside of San Joaquin County. Russian thistle is sparse. Beet leafhopper counts were low.

- Survey conducted along S. Corral Hollow Road west of 580, resulted in BLH counts that were on average, 3 adult BLH and zero nymphs, per sweep.
- Survey along S. Chrisman Road south of W. Linne Road resulted in BLH counts that were on average, 3 adult BLH and zero nymphs, per sweep.
- A forty acre fallow field with Russian thistle near S. Chrisman Road and W. Linne Road also resulted in an average of 3 adult BLH and zero nymphs, per sweep.
- The Program will continue to monitor BLH populations over the winter months.
- Maps have been generated and will be used for identifying property owners. Staff will begin making contact to establish communication and obtain permission to survey rangeland and foothills.

## **Stanislaus County**

Survey was conducted along the Westside of Stanislaus County. Beet leafhopper counts were on average 3 adults and zero nymphs. The following roadsides were surveyed for Russian thistle and beet leafhopper populations.

- Highway 33 south of Highway 132
- Blewett Road west of Koster Road
- Blewett Road and Welty Road
- Crows Landing Road east of Carpenter Road
- Carpenter Road north of Crows Landing to Rubble Road
- Bell Avenue north of Fink Road
- Hale Road south of Anderson Road
- Stuhr Road east of Hale Road
- Bell Avenue north of Orestimba Road
- The Program will continue to monitor BLH populations over the winter months.
- Maps have been generated and will be used for identifying property owners. Staff will begin making contact to establish communication and obtain permission to survey rangeland and foothills.

CURLY TOP VIRUS CONTROL PROGRAM

Fall 2013

Western Kern County

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