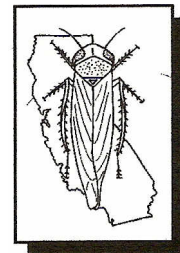


BEET CURLY TOP VIRUS MONTHLY REPORT



CURLY TOP VIRUS CONTROL PROGRAM

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Report for June 2021

Program Update

- Throughout the month of June, Curly Top Virus (CTV) Control Program (Program) staff conducted plant damage surveys on CTV-susceptible commodities. These surveys were conducted across Fresno, Imperial, Kern, Kings, Riverside, San Joaquin, and Stanislaus Counties.
- Staff conducted these surveys by driving to areas where CTV-impacted commodities have historically been grown. Crops were then visually inspected, and samples were collected from plants with symptomatic damage. Samples were then sent to the California Department of Food and Agriculture's Plant Diagnostic Laboratory in Sacramento.
- Tomatoes made up the highest percentage of commodities surveyed for damage across all counties. However, sugar beets and melons were surveyed in Imperial County.
- For program inquiries or questions regarding this report, please contact Samuel Krasnobrod at Samuel.Krasnobrod@cdfa.ca.gov.

Pathology Results

- **May 2021:**
 - Colusa County Sample Results
 - Symptomatic Tomato Plant: **11 Positive**; 2 Negative
 - Fresno County Sample Results
 - BLH: 0 Positive; 1 Negative
 - Symptomatic Tomato Plant: **33 Positive**; 20 Negative
 - Glenn County Sample Results
 - Symptomatic Tomato Plant: **1 Positive**; 1 Negative
 - Kings County Sample Results
 - BLH: **3 Positive**; 42 Negative; Waiting on results for 14 samples
 - Symptomatic Tomato Plant: **9 Positive**; 0 Negative
 - Merced County Sample Results
 - Symptomatic Tomato Plant: **5 Positive**; 0 Negative
 - Monterey County Sample Results
 - BLH: 0 Positive; 1 Negative

- Symptomatic Tomato Plant: 0 Positive; 4 Negative
- Stanislaus County Samples Results
 - Symptomatic Tomato Plant: **3 Positive**; 3 Negative
- Yolo County Sample Results
 - Symptomatic Tomato Plant: **6 Positive**; 5 Negative
- **June 2021:**
 - Fresno County Sample Results
 - Symptomatic Tomato Plant: 0 Positive; 2 Negative
 - Kern County Sample Results
 - Symptomatic Tomato Plant: **2 Positive**; 0 Negative
 - Kings County Sample Results
 - BLH: Waiting on results for 34 samples
 - Symptomatic Tomato Plant: **4 Positive**; 0 Negative
 - Imperial County Sample Results
 - BLH: Waiting on results for 4 samples
 - Symptomatic Sugar Beet Plant: 0 Positive; 1 Negative
 - Host Plant: **1 Positive**; 1 Negative
 - Stanislaus County Samples Results
 - BLH: Waiting on results for 22 samples
 - Symptomatic Tomato Plant: **9 Positive**; 3 Negative; Waiting on result for 1 sample

County Briefs:

- Fresno County:
 - Commodity surveys were conducted along Highway 33 near the Cities of Firebaugh, Benito, Mendota, and along Highway 269 near the City of Helm, and Five Points.
- Imperial County:
 - Commodity surveys were conducted along Highway 111 and Highway 115 near the Cities of El Centro, Brawley, and Calipatria.
- Kern County:
 - Commodity surveys were conducted along Lerdo Highway between the Cities of Shafter and Buttonwillow, east of Interstate 5 from Buttonwillow to Tupman, and in the cultivated area in the Buena Vista lakebed.
- Kings County:
 - Commodity surveys were conducted primarily near the Cities of Corcoran, Stratford, and Kettleman.
- Merced County:
 - Commodity surveys were conducted along Highway 33 throughout Merced County.
- Riverside County:
 - Roadside surveys were conducted near the Cities of Palo Verde, Blythe, and Winterhaven.

- San Joaquin County:
 - Commodity surveys were conducted along Highway 33 from the Modesto-San Joaquin County border toward the City of Tracy.
- Stanislaus County:
 - Commodity surveys were conducted along Highway 33 from the Merced-Stanislaus County border toward Crows Landing and further north to the City of Patterson. This survey located one tomato field with moderate CTV-induced damage.

County Reports:

Fresno County

- Commodity Survey, Firebaugh, 6/7/2021
 - Crop: Tomato
 - Damage: Little to no CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
- Commodity Survey, Dos Palos, 6/8/2021
 - Crop: Tomato
 - Damage: Little to no CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
- Commodity Survey, Huron, 6/9/2021
 - Crop: Tomato
 - Damage: No CTV damage observed
 - Samples Taken: No
 - BLH Present: No
 - Survey conducted near El Dorado and Palmer Ave, along Hwy 269 north of Hwy 198, and along Hwy 198 and El Dorado Ave.
- Commodity Survey, Three Rocks, 6/17/2021
 - Crop: Tomato
 - Damage: Little to no CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
- Commodity Mapping, Huron, 6/23/2021
 - Crop: Tomato
 - Damage: N/A
 - Organic tomato crops were mapped north of Hwy 198, along Hwy 269.
- Commodity Survey, Mendota, 6/25/2021
 - Crop: Tomato
 - Damage: No CTV damage observed
 - Samples Taken: No
 - BLH Present: No
 - Survey conducted near the Cities of Tranquility, and Mendota.

- Commodity Mapping, Three Rocks, 6/30/2021
 - Crop: Tomato
 - Damage: N/A
 - Organic tomato crops were mapped near the City of Three Rocks.

Imperial County

- Commodity Survey, El Centro, 6/8/2021
 - Crop: Sugar Beet and Melon
 - Damage: Little to no CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
 - The tissue sample collected from a sugar beet was found to be **negative for CTV**
 - A total of around 10 fields each of sugar beets and melons were found across Imperial County. Most fields were not located near BLH host vegetation, and those that were had no obvious signs of CTV-induced damage.
- Roadside Survey, El Centro, 6/8/2021
 - BLH Present: Yes
 - Primary BLH Host Vegetation: Chenopodium, Russian thistle
 - Samples Collected: Yes
 - Roadsides were mostly clear of any weeds/host vegetation. Generally, only small patches of weeds were found.
 - Roadside surveys of BLH host vegetation were conducted across the El Centro area. The survey covered nearly all the cultivated land from Holtville to Calipatria along Hwy 111 and 115, and from Seeley north to Westmorland.
 - Adult and nymph BLH were found in patches of BLH host vegetation. Population counts were inconsistent and remained below treatment thresholds of 8 per 10 sweeps.

Kern County

- Commodity Survey, Buttonwillow, 6/15/2021
 - Crop: Tomato
 - Damage: Little to no CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
- Roadside Survey, 6/16/2021
 - BLH Present: Yes
 - Primary BLH Host Vegetation: Russian thistle (past season)
 - Samples Collected: No
 - Survey conducted in northern section of county primarily between Hwy 33 and I-5. Host vegetation was dry and primarily from last season (2020).

Kings County

- Commodity Survey, Kettleman City, 6/8/2021
 - Crop: Tomato
 - Damage: No CTV damage observed
 - Samples Taken: No
 - BLH Present: No
 - Survey conducted along Quail, Plymouth, 30th, Omaha, Nevada, and Laurel Ave near Hwy 41.

- Roadside Survey, Utica Ave, 6/15/2021
 - BLH Present: Yes
 - Primary BLH Host Vegetation: Chenopodium, Russian thistle
 - Samples Collected: No
 - Survey conducted along 23rd Ave between Hwy 41 and Utica Ave. Host vegetation was no more than one foot in height along surveyed roadsides and in fallowed fields.

- Commodity Survey, Stratford, 6/26/2021
 - Crop: Tomato
 - Damage: Little to no CTV damage observed
 - Samples Taken: No
 - BLH Present: No
 - Survey conducted southwest of Stratford, north of Nevada Ave at 18th Ave.

Merced County

- Commodity Survey, Gustine, 6/24/2021
 - Crop: Tomato
 - Damage: Little to no CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
 - Survey conducted along the Hwy 33 corridor through Merced County and into Stanislaus County. One field contained symptomatic plants.

Riverside County

- Roadside Survey, Blythe, 6/9/2021
 - BLH Present: Yes
 - Primary BLH Host Vegetation: Chenopodium, Russian thistle
 - Samples Collected: Yes
 - Host vegetation was located upon entering the cultivated area. Although the host vegetation was limited to a stretch of approximately 50 feet, there were BLH present. BLH counts were 2 per 10 sweeps on average.
 - No susceptible commodities were located near these BLH populations.

- Roadside Survey, Winterhaven, 6/9/2021
 - BLH Present: Yes
 - Primary BLH Host Vegetation: Chenopodium, Russian thistle
 - Samples Collected: Yes
 - Fewer than 10 patches of host vegetation were located, with five patches covering more than 20 feet. BLH were present on most, but not all, patches of host vegetation. Counts remained around 2 per 10 sweeps.

San Joaquin County

- Commodity Survey, Tracy, 6/15/2021
 - Crop: Tomato
 - Damage: Little to no CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No

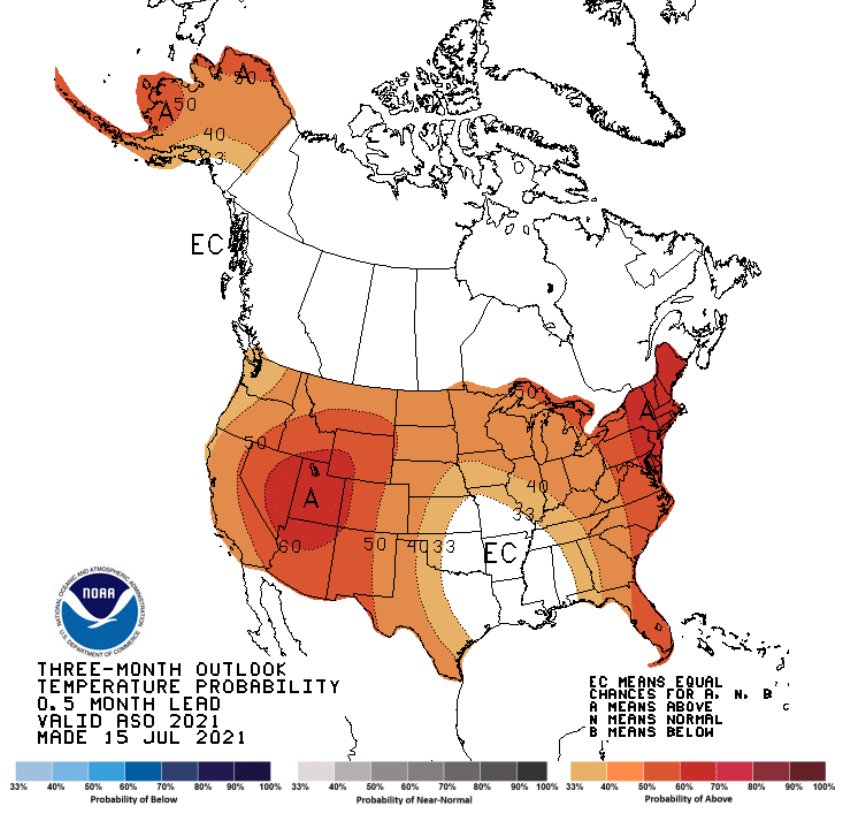
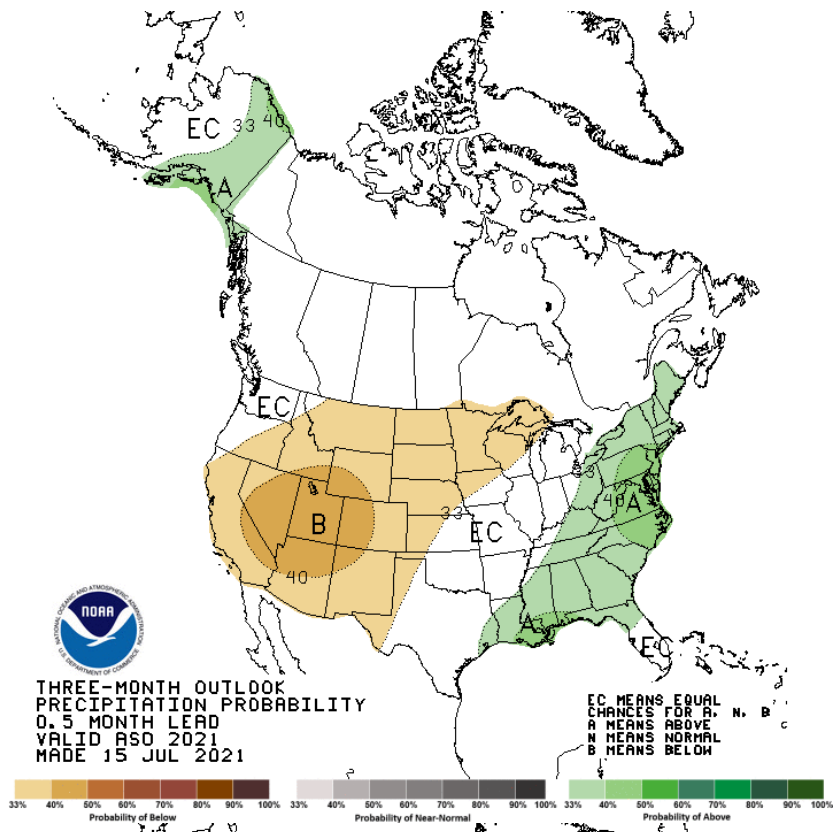
Stanislaus County

- Commodity Survey, Crows Landing, 6/9/2021

- Crop: Tomato
- Damage: Little to no CTV damage observed
- Samples Taken: Yes, symptomatic leaf tissue
- BLH Present: No
- Survey conducted in southern end of county, along Hwy 33 near Fink Rd.

- Commodity Survey, Westley, 6/9/2021
 - Crop: Tomato
 - Damage: Moderate CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
 - One field located in the northern section of the county had moderate-to-high CTV damage. BLH were found earlier in season. This area between the Cities of Westley and Patterson will continue to be monitored for BLH and CTV damage.

- Commodity Survey, Westley, 6/22/2021
 - Crop: Tomato
 - Damage: Moderate CTV damage observed
 - Samples Taken: Yes, symptomatic leaf tissue
 - BLH Present: No
 - Survey conducted along Zacharias Rd, near the City of Patterson. Staff continue to monitor damaged tomato crops located in Stanislaus County



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https://www.cdfa.ca.gov/plant/ipc/curlytopvirus/ctv_hp.htm