

Beet Curly Top Virus Control Program

Monthly Report

California Department of Food and Agriculture
Plant Health and Pest Prevention Services
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March 2024

Program Update

- In March, Beet Curly Top Virus Control Program (BCTVCP) personnel conducted beetle leafhopper (BLH) and vegetation surveys in the foothills on the westside of the San Joaquin and Sacramento Valleys in Fresno, Kern, Kings, Yolo, Sutter, Glenn, Merced, Stanislaus, Butte, Sacramento, San Joaquin, Madera, and Colusa counties.
- BLH counts remained very low or not present in all survey areas statewide (0-2 BLH per sweep). There has been nymph activity observed in Fresno, Kings, and Kern County (0-2 BLH nymph per set range).
- Rain events in March have increased the abundance of annual grasses in the foothills limiting the ideal conditions for BLH population development.
- Host plant vegetation throughout the Central Valley is showing signs of die off. Peppergrass has the highest percentage of die off in the 75-95% range. Filaree and *Plantago* have lower percentages of die off, but expect 100% die off going into April.
- Please visit the Program's webpage to view Program reports and alerts. https://www.cdfa.ca.gov/plant/ipc/curlytopvirus/ctv_hp.htm
- The BCTVCP has deployed a Beet Leafhopper Sighting Report that industry can use to report BLH or CTV incidence in the field. This report is available using the following web browser link: <https://arcg.is/O9LyK> or by downloading the ArcGIS Survey123 app from the Google Play Store or Apple App Store and using the QR code below. A user guide for the BLH Sighting Report is available on the BCTVCP webpage.



- For program inquiries or questions regarding this report, please contact Kendra Tapia at kendra.tapia@cdfa.ca.gov or (916) 823-1169.

2024 Beet Curly Top Virus Sample Results

January 2024 BCTV Sample Results by County														
	Fresno	Kings	Kern	Merced	Madera	Glenn	Yolo	Colusa	Sutter	Butte	Solano	Sacramen	Stanislaus	San Joaquin
Positive BLH	5	5	1	1	-	-	-	-	-	-	-	-	-	-
Negative BLH	20	10	1	-	-	-	3	3	-	-	-	1	-	-
Positive Host Plant	-	1	1	1	-	-	-	-	-	-	-	-	-	-
Negative Host Plant	62	29	34	10	-	-	9	2	-	-	-	-	6	-

February 2024 BCTV Sample Results by County														
	Fresno	Kings	Kern	Merced	Madera	Glenn	Yolo	Colusa	Sutter	Butte	Solano	Sacramen	Stanislaus	San Joaquin
Positive BLH	6	-	10	-	-	-	-	-	-	-	-	-	-	-
Negative BLH	40	23	41	-	-	-	-	-	5	-	-	-	1	3
Positive Host Plant	3	-	1	-	-	-	-	-	-	-	-	-	-	-
Negative Host Plant	140	46	159	11	2	18	2	5	55	4	11	-	24	9

March 2024 BCTV Sample Results by County														
	Fresno	Kings	Kern	Merced	Madera	Glenn	Yolo	Colusa	Sutter	Butte	Solano	Sacramen	Stanislaus	San Joaquin
Positive BLH	5	2	1	-	-	-	-	-	-	-	-	-	-	-
Negative BLH	55	3	4	-	-	-	-	-	-	-	-	-	-	2
Positive Host Plant	5	7	4	-	-	-	-	-	-	-	-	-	-	-
Negative Host Plant	253	53	97	21	22	5	17	-	13	-	10	13	30	36

County Reports

Fresno County

- BLH population surveys were conducted in the overwintering foothills as well as in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained low throughout survey areas, averaging 0-2 BLH per sweep set. One area in Domegine had higher levels of BLH activity (10-50 BLH per sweep).
- Host vegetation surveyed included Mallow, London Rocket, Shepherd's Purse, Filaree, *Plantago*, and Peppergrass.
- A map identifying the location of the BLH counts is provided at the end of the report.

Fresno County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
North Chevron	3/5/2024	1.9
Chevron	3/5/2024	1.8
Coalinga Nose	3/5/2024	0.5
Jacalitos	3/5/2024	0.5
Panoche Creek	3/6/2024	1.0
Los Gatos	3/5/2024	0.4
Domegine	3/6/2024	12.2
Cantua	3/7/2024	0.6
North Kamm	3/7/2024	0.2
South Kamm	3/7/2024	0.8
Turk	3/11/2024	0.8
W Kamm Ave	3/11/2024	2.2
Tumey Hills	3/11/2024	4.0
North of Panoche Creek	3/12/2024	2.2
Gyp Pitts	3/13/2024	0.6
Domegine	3/13/2024	0.1
Zapatos	3/13/2024	1.2
Staircase	3/14/2024	0.6
Big C	3/18/2024	0.3
Chevron	3/18/2024	1.5
North Chevron	3/18/2024	2.2
Domegine	3/19/2024	3.2
South Kamm	3/20/2024	1.6
North Kamm	3/20/2024	1.9
Cantua	3/20/2024	0.3
Tumey Hills	3/26/2024	0.2
Gyp Pitts	3/26/2024	0.6
Jacalitos	3/26/2024	1.8
Coalinga	3/26/2024	0.5
Jacalitos	3/27/2024	2.3
Tumey Hills	3/27/2024	2.5

Kern County

- BLH population surveys were conducted in the overwintering foothills as well as in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained low throughout survey areas, averaging 0-2 BLH per sweep set.
- Host plant vegetation surveyed included Filaree, Peppergrass, Mallow, and *Plantago*.
- A map identifying the location of the BLH counts is provided at the end of the report.

Kern County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
McKittrick West	3/5/2024	2.6
Buena Vista Hills	3/5/2024	0.3
Midway South Flats	3/6/2024	0.5
McKittrick	3/6/2024	1.6
Elk Hills	3/7/2024	1.1
South lake	3/11/2024	0.4
San Emidio	3/11/2024	1.0
Shooting Range	3/11/2024	1.6
Rods Hill	3/12/2024	1.1
Triple 5s	3/12/2024	1.4
Shooting Range	3/12/2024	1.6
Elk Hills	3/13/2024	1.0
McKittrick	3/13/2024	2.0
Elk Hills	3/14/2024	0.5
36 Hills	3/18/2024	1.0
McKittrick West	3/19/2024	1.4
McKittrick	3/19/2024	5.4
Midway West	3/20/2024	0.8
Midway South Flats	3/20/2024	1.6
Buena Vista Hills	3/21/2024	0.6
Triple 5s	3/21/2024	0.8
Buena Vista Hills	3/25/2024	1.8
Elkhorn	3/25/2024	0.2
Shooting Range	3/25/2024	0.7
Valley Acres Flat	3/26/2024	0.3
West Buena Vista Hills	3/26/2024	0.5
Buena Vista Valley	3/27/2024	0.5
Gardner Field	3/28/2024	0.5
McKittrick	3/28/2024	2.4

Kings County

- BLH population surveys were conducted in the overwintering foothills as well as in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained low throughout survey areas, averaging 0-2 BLH per sweep set.
- Host vegetation surveyed included Peppergrass, *Plantago*, London Rocket, Shepherd’s Purse, and Filaree.
- A map identifying the location of the BLH counts is provided at the end of the report.

Kings County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Kettleman Hills	3/6/2024	0.6
Devil’s Den	3/7/2024	0.7
Devil’s Den Rd	3/12/2024	0.4
Kettleman Hills	3/14/2024	0.4
Kettleman Hills	3/20/2024	3.7
Kettleman Hills	3/21/2024	3.4

Madera County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Madera County.

Merced County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained low throughout the survey areas, averaging 0-1 BLH per sweep set.
- Host vegetation surveyed included Mallow, Shepherd’s Purse, and Filaree.
- A map identifying BLH counts is provided at the end of the report.

Merced County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Santa Nella	3/5/2024	0.3

San Joaquin County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained very low throughout the survey areas, averaging 0-1 BLH per sweep set.
- Host vegetation surveyed included Mallow, Mustards and Filaree.
- A map identifying BLH counts is provided at the end of the report.

San Joaquin County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
French Camp	3/18/2024	0.2
Farmington	3/21/2024	0.2

Colusa County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Colusa County.

Yolo County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Yolo County.

Sutter County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Sutter County.

Stanislaus County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Stanislaus County.

Glenn County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Glenn County.

Butte County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Butte County.

Sacramento County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Sacramento County.

Solano County

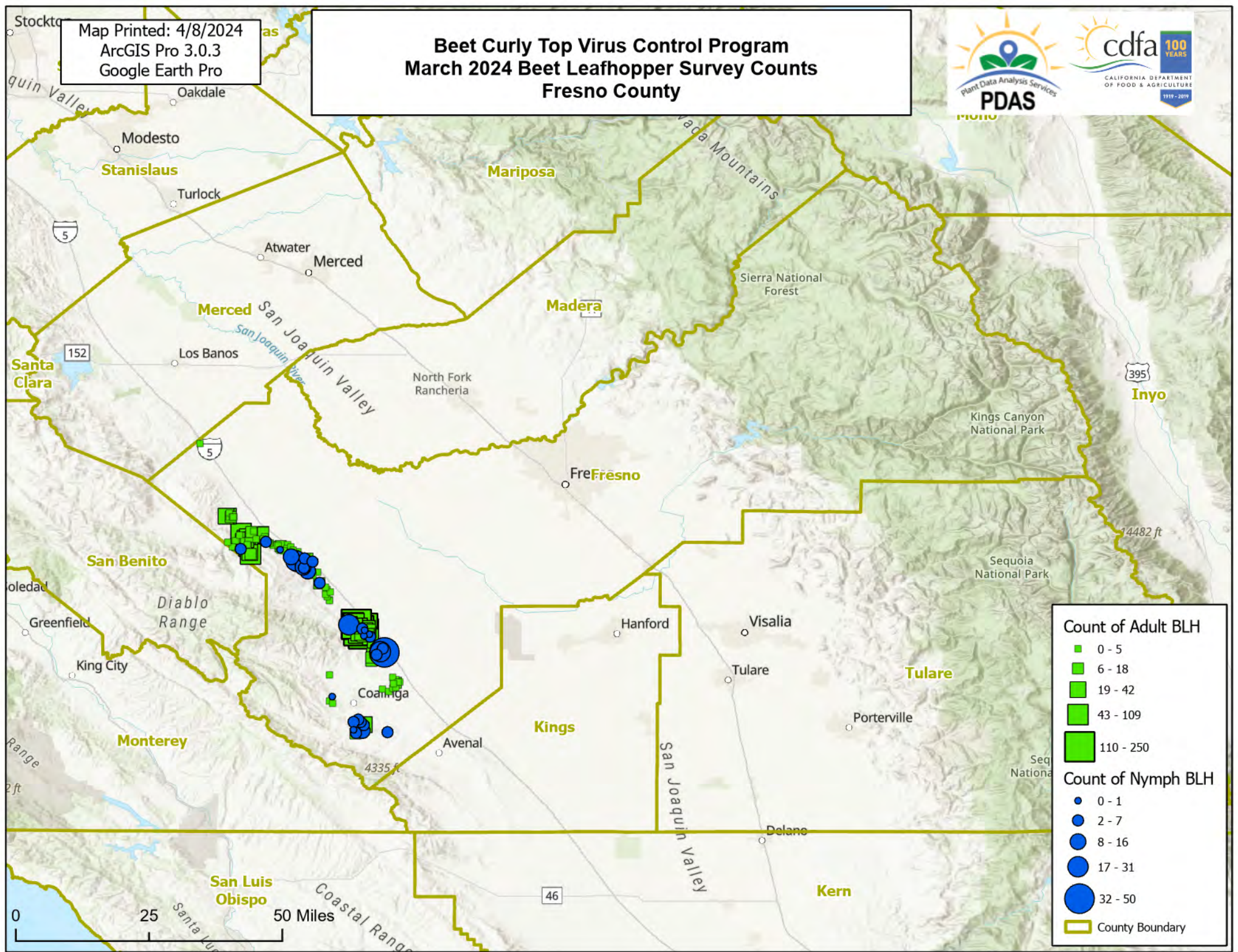
- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Solano County.

To subscribe to the BCTV monthly report, updates, and alerts, please use the link below:

www.cdfa.ca.gov/subscriptions/

Map Printed: 4/8/2024
ArcGIS Pro 3.0.3
Google Earth Pro

Beet Curly Top Virus Control Program March 2024 Beet Leafhopper Survey Counts Fresno County



Count of Adult BLH

- 0 - 5
- 6 - 18
- 19 - 42
- 43 - 109
- 110 - 250

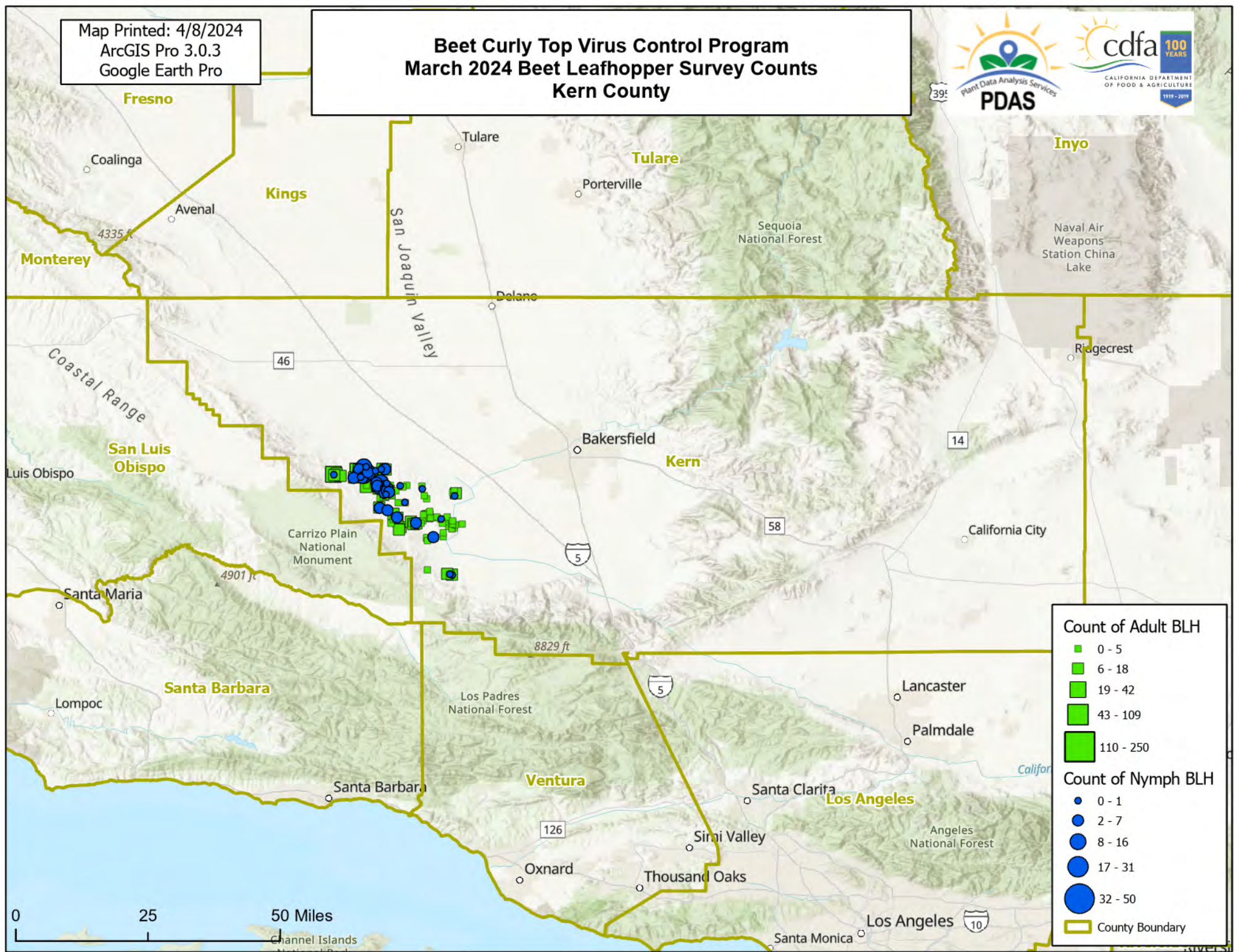
Count of Nymph BLH

- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary

Map Printed: 4/8/2024
ArcGIS Pro 3.0.3
Google Earth Pro

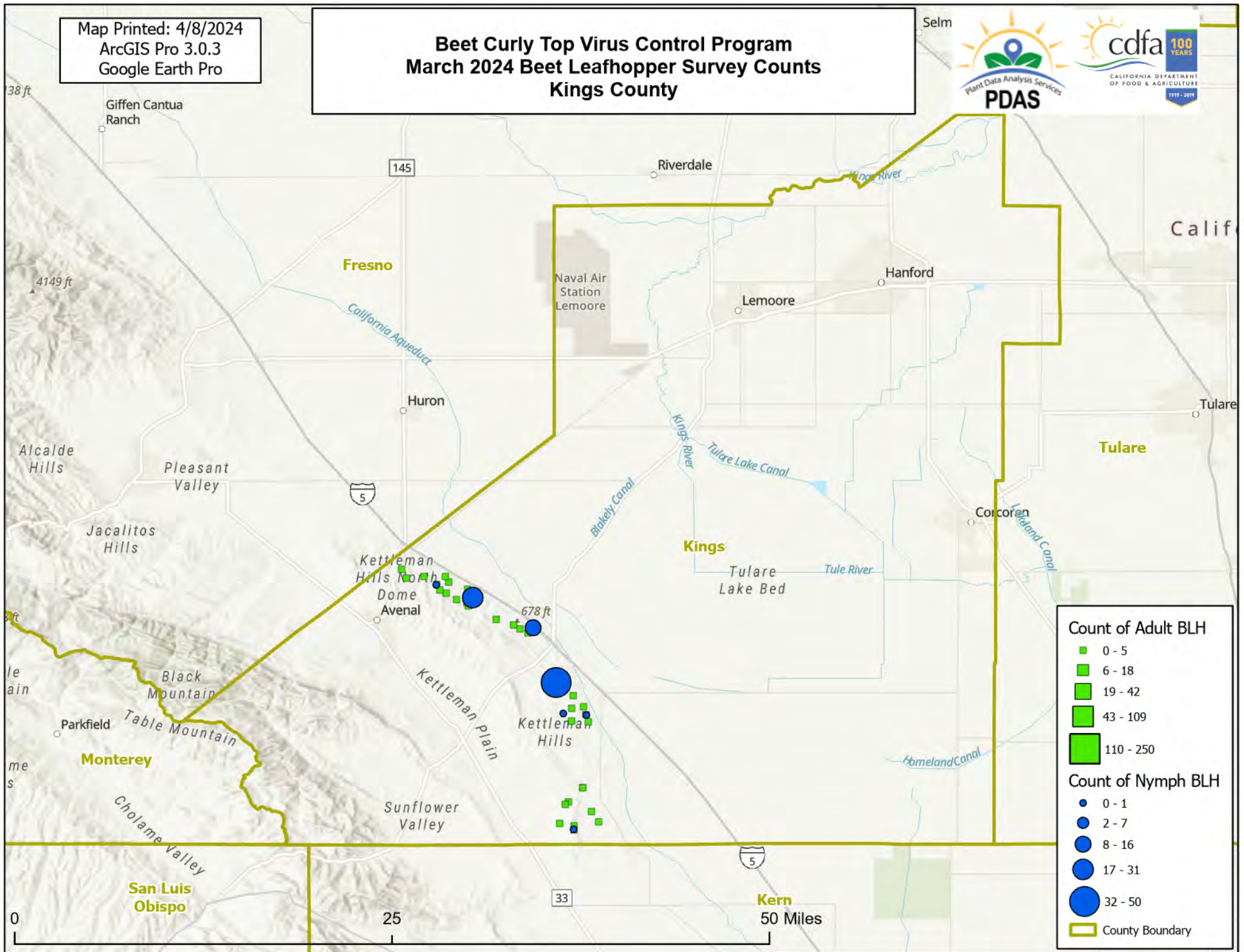
Beet Curly Top Virus Control Program March 2024 Beet Leafhopper Survey Counts Kern County



0 25 50 Miles

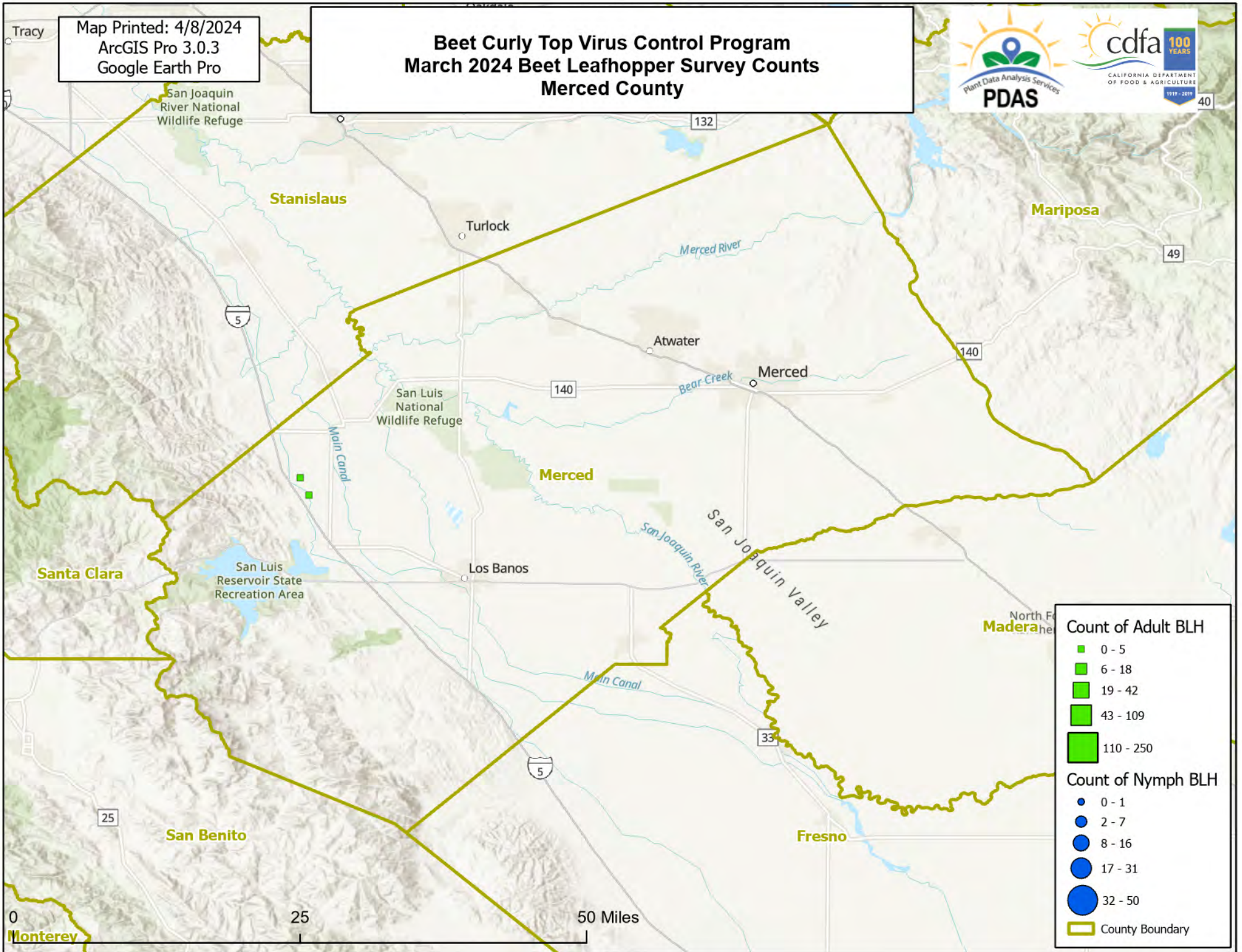
Map Printed: 4/8/2024
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Beet Curly Top Virus Control Program March 2024 Beet Leafhopper Survey Counts Kings County



Map Printed: 4/8/2024
ArcGIS Pro 3.0.3
Google Earth Pro

Beet Curly Top Virus Control Program March 2024 Beet Leafhopper Survey Counts Merced County



Count of Adult BLH

- 0 - 5
- 6 - 18
- 19 - 42
- 43 - 109
- 110 - 250

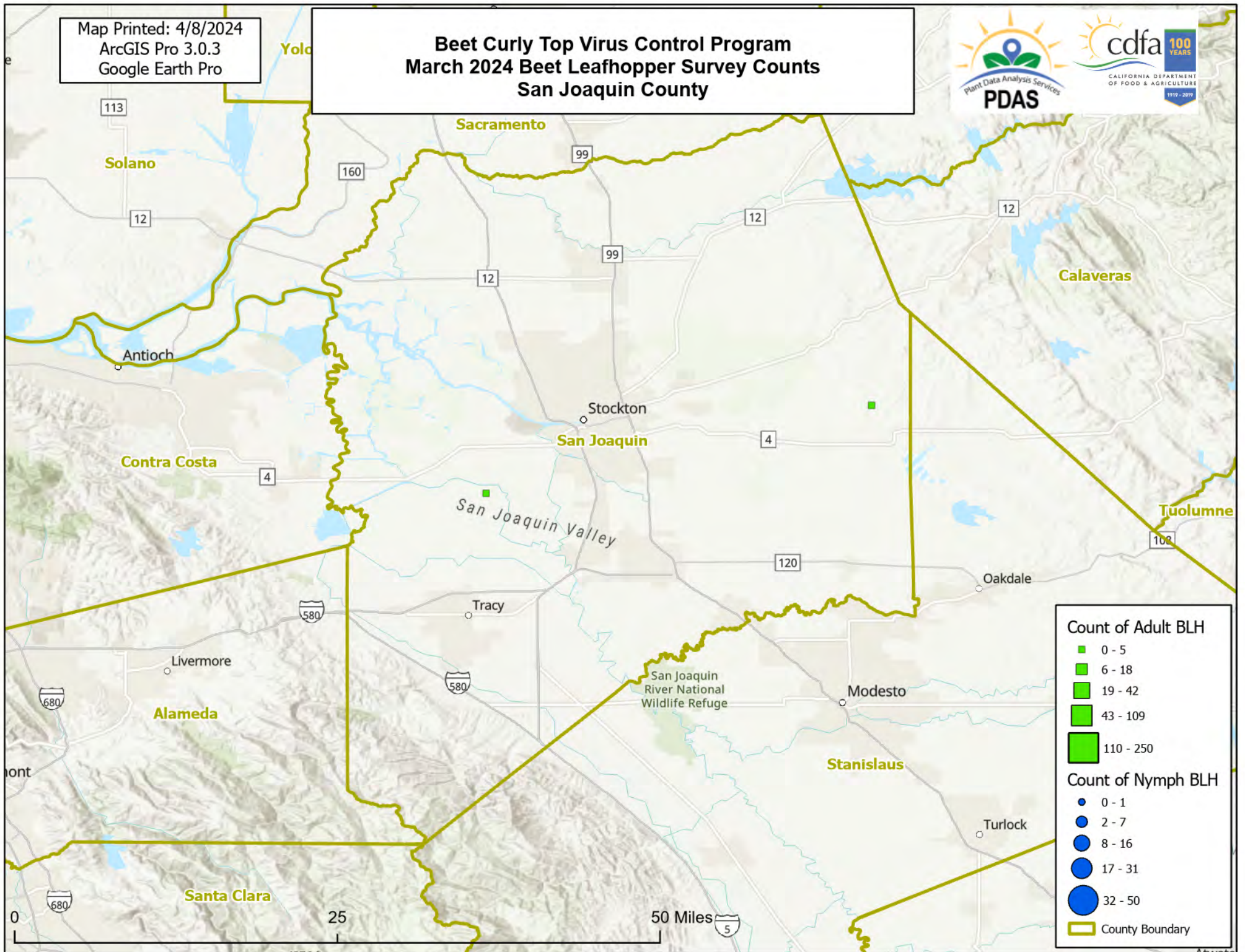
Count of Nymph BLH

- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary

Map Printed: 4/8/2024
ArcGIS Pro 3.0.3
Google Earth Pro

Beet Curly Top Virus Control Program March 2024 Beet Leafhopper Survey Counts San Joaquin County



0 25 50 Miles