

Beet Curly Top Virus Control Program

Monthly Report

California Department of Food and Agriculture
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February 2024

Program Update

- In February, 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.
- Rain and storm events in February limited the Program's ability to conduct surveys in the traditional beetle leafhopper (BLH) overwintering areas due to muddy and washed-out access roads.
- BLH counts remained very low or not present in all survey areas statewide (0-2 BLH per sweep). There have been some high levels of BLH activity observed in Fresno and Kern County, but it remains isolated (8-10 BLH per sweep range). There has been some nymph activity observed in Kern County, but overall hatch activity is minimal.
- Annual Grasses are developing faster than host plant vegetation and continue to limit ideal conditions for BLH population development in the foothills. Filaree, Peppergrass, and *Plantago* are the primary foothill host plants currently.
- On March 7, The Program was invited to speak at the Vegetable Crop Pest Management Meeting hosted by the University of California Agriculture and Natural Resources Cooperative Extension in Fresno County.
- 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	Sacramento	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	Sacramento	Stanislaus	San Joaquin
Positive BLH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Negative BLH	2	23	15	-	-	-	-	-	4	-	-	-	-	3
Positive Host Plant	3	-	1	-	-	-	-	-	-	-	-	-	-	-
Negative Host Plant	114	46	158	11	2	15	2	5	55	4	11	-	24	9

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 (8-10 BLH per sweep).
- Host vegetation surveyed included Mallow, Filaree, Peppergrass, and *Plantago*.
- 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>
Pepper Flats	2/13/2024	0.2
North Panoche Creek	2/13/2024	1.2
Jacalitos	2/14/2024	2.0
San Joaquin	2/14/2024	0.6
Tumey Hills	2/14/2024	0.4
Gyp Pitts	2/14/2024	1.4
Cantua	2/15/2024	2.1
South of Kamm	2/15/2024	1.2
Chevron	2/15/2024	5.9
North Chevron	2/15/2024	2.2
Chevron	2/21/2024	0.4
Coalinga Nose	2/26/2024	0.5
Domegine	2/26/2024	10.5
Big C	2/27/2024	0.3
Tumey Hills	2/27/2024	1.3
Jacalitos	2/28/2024	0.4
Gyp Pitts	2/28/2024	1.9
Tumey Hills	2/28/2024	1.0
North Panoche Creek	2/29/2024	1.4

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, 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>
Dustin Acres	2/5/2024	0.2
Elk Hills	2/7/2024	0.2
Gardner Field	2/12/2024	0.4
McKittrick	2/12/2024	0.8
West Buena Vista Hills	2/13/2024	0.2
McKittrick	2/13/2024	2.2
North Belridge	2/14/2024	0.6
San Emidio	2/15/2024	1.1
McKittrick	2/20/2024	2.2
Fellows	2/21/2024	3.2
Derby Acres	2/21/2024	1.5
McKittrick	2/22/2024	1.5
Hovey Hills	2/22/2024	4.0
Elk Hills	2/26/2024	1.1
Buena Vista Hills	2/26/2024	2.3
Kitty Care	2/26/2024	2.4
Buena Vista Hills	2/27/2024	1.6
Elk Hills	2/27/2024	1.2
Gardner Field	2/28/2024	1.7
Elkhorn	2/28/2024	2.7
Shooting Range	2/28/2024	1.7
Triple 5's	2/29/2024	2.6
Gardner Field	2/29/2024	1.2

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 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	2/12/2024	2.1
Devils Den	2/13/2024	2.1
Kettleman Hills	2/13/2024	3.0
Kettleman Hills	2/14/2024	1.4
Tulare Lakebed	2/15/2024	1.8

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, Mustards, and Fiddleneck.
- 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>
Dos Palos	2/20/2024	0.4

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 0-2 BLH per sweep set.
- Host vegetation surveyed included Mallow, Mustards, Fiddleneck 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>
Midway	2/13/2024	2.8
W Vernalis Rd	2/22/2024	0.4

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.
- Overall counts remained low throughout 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.

Sutter County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Subaco	2/6/2024	0.6
Hinsdale	2/12/2024	2.4

Lira	2/12/2024	0.5
Knights Landing	2/28/2024	0.2
Cranmore	2/28/2024	0.2

Stanislaus County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained low throughout 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.

Stanislaus County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Newman	2/13/2024	0.7
Timba	2/13/2024	0.4
Jet	2/13/2024	1.0
Patterson	2/13/2024	0.7
Westley	2/13/2024	0.4
Westley	2/26/2024	0.6

Glenn 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 Filaree and Mustards.
- A map identifying BLH counts is provided at the end of the report.

Glenn County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
County Rd 65	2/14/2024	0.2

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

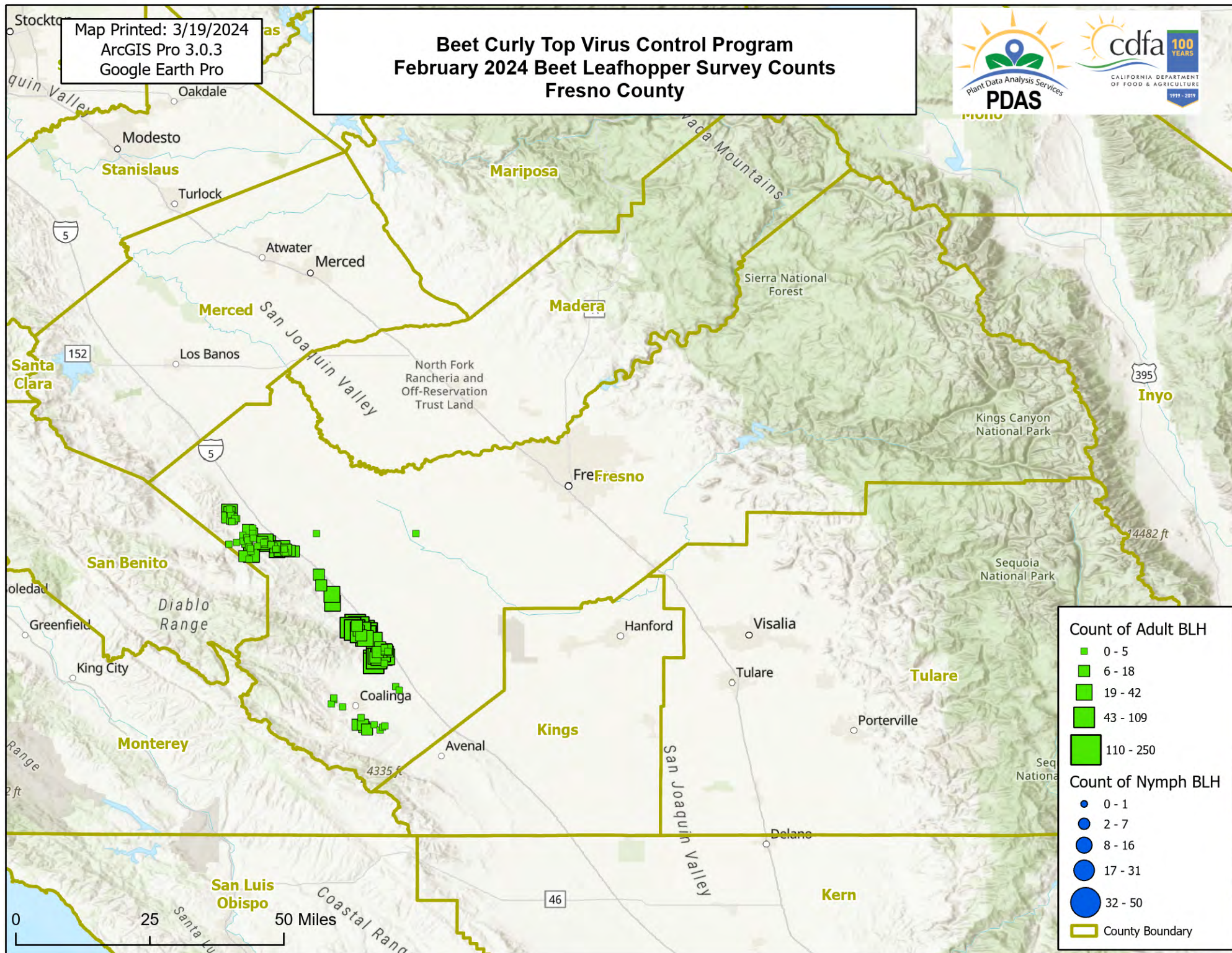
- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- No BLH were observed during survey in Solano County.

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www.cdfa.ca.gov/subscriptions/

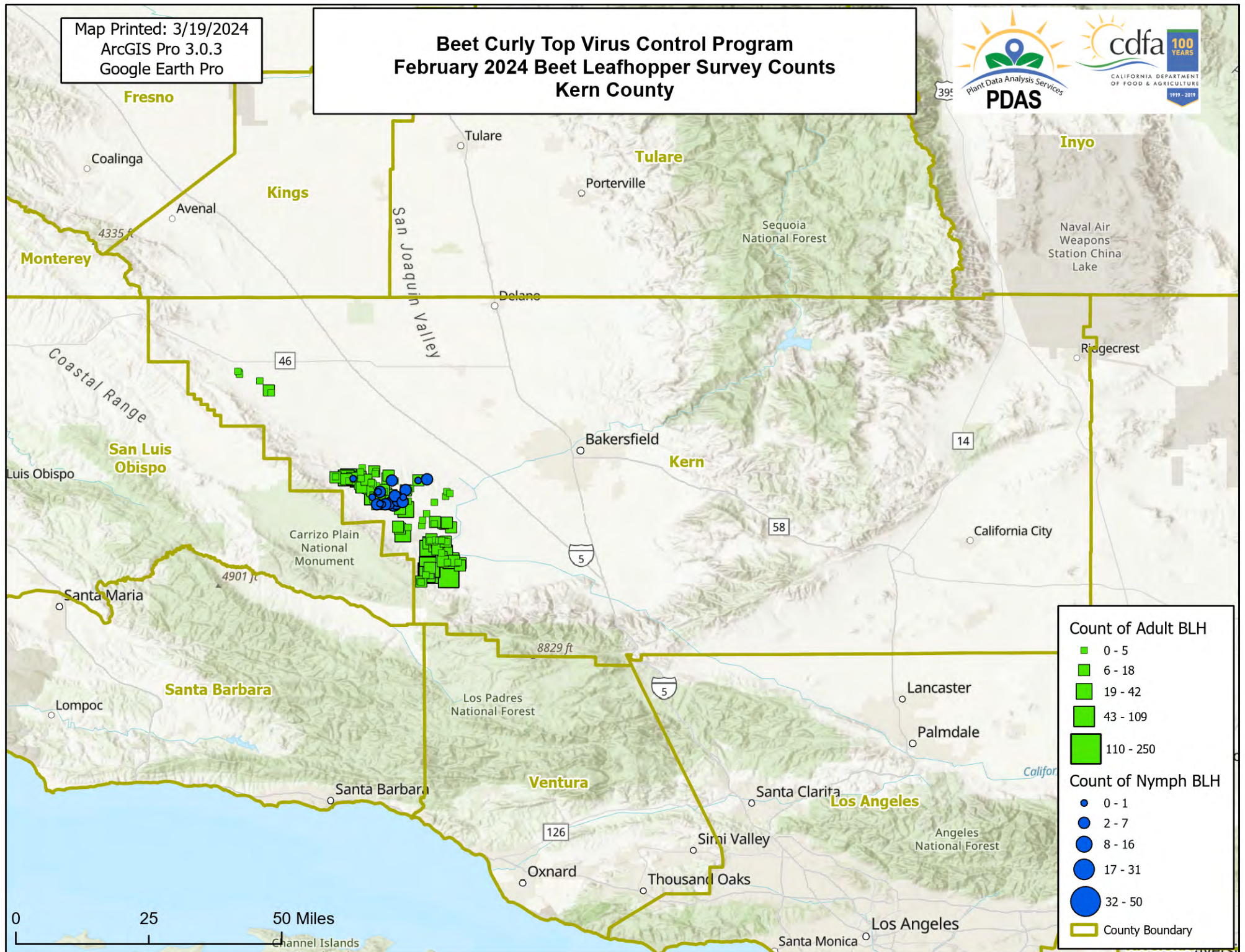
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ArcGIS Pro 3.0.3
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Beet Curly Top Virus Control Program February 2024 Beet Leafhopper Survey Counts Fresno County



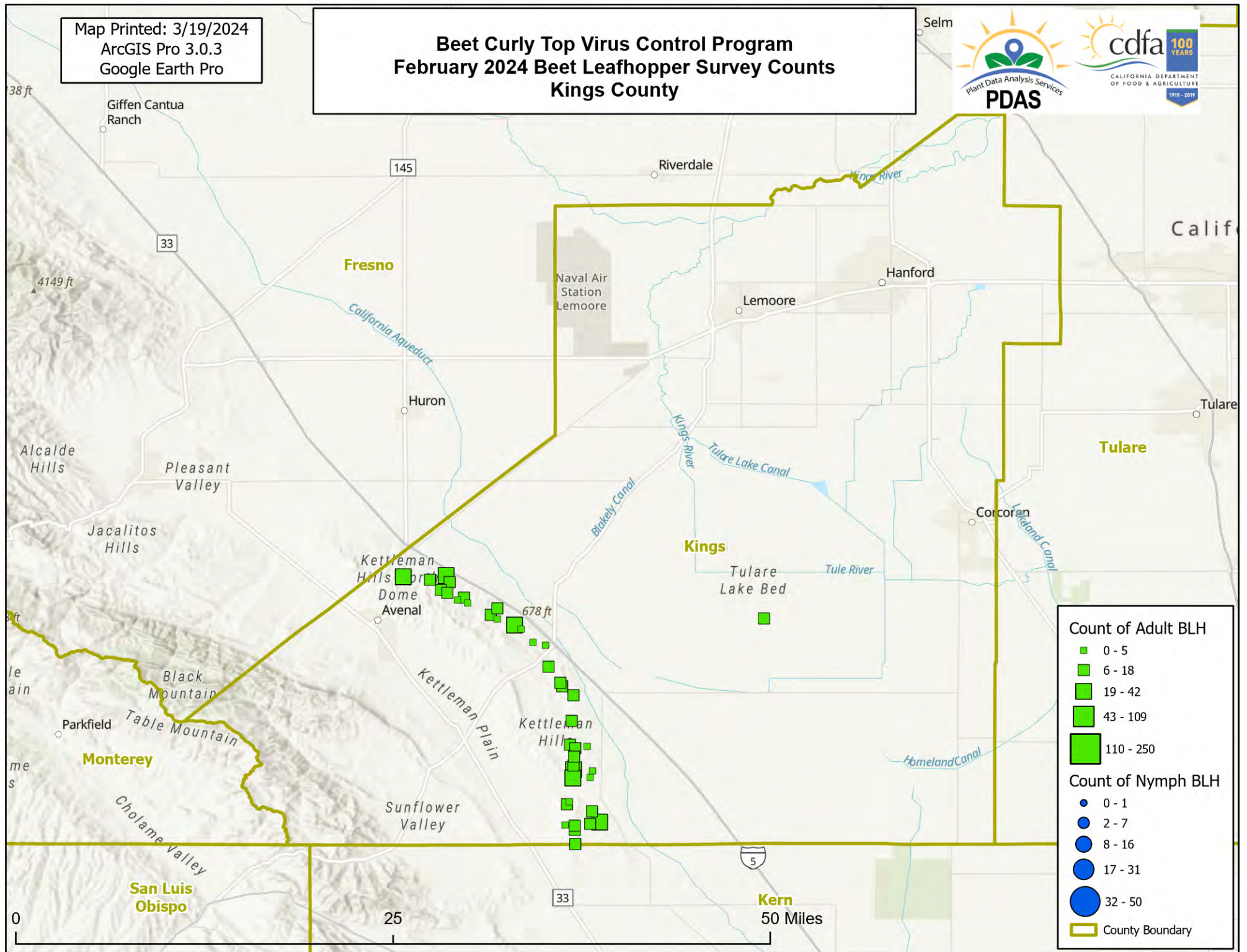
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Beet Curly Top Virus Control Program February 2024 Beet Leafhopper Survey Counts Kern County



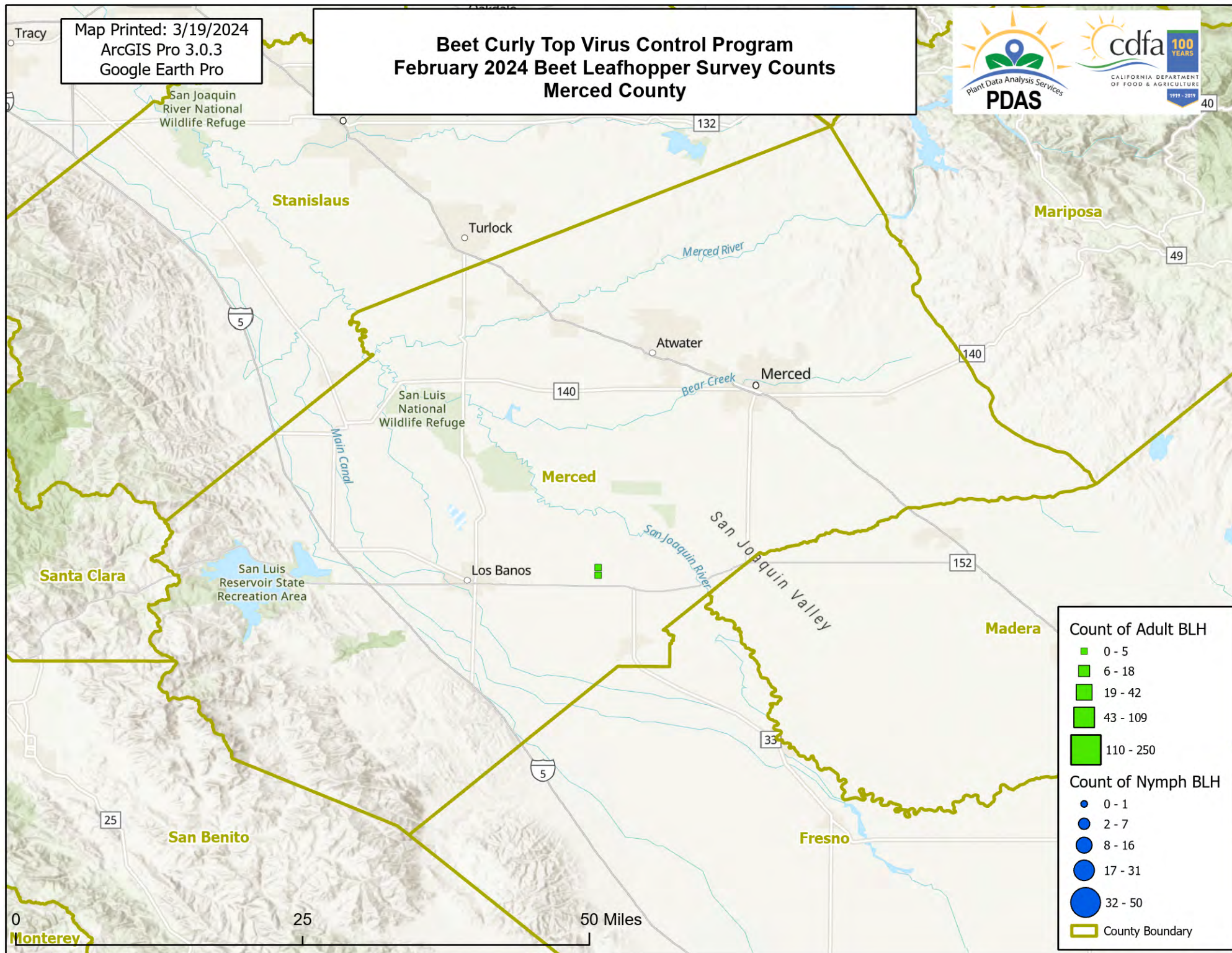
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Beet Curly Top Virus Control Program February 2024 Beet Leafhopper Survey Counts Kings County



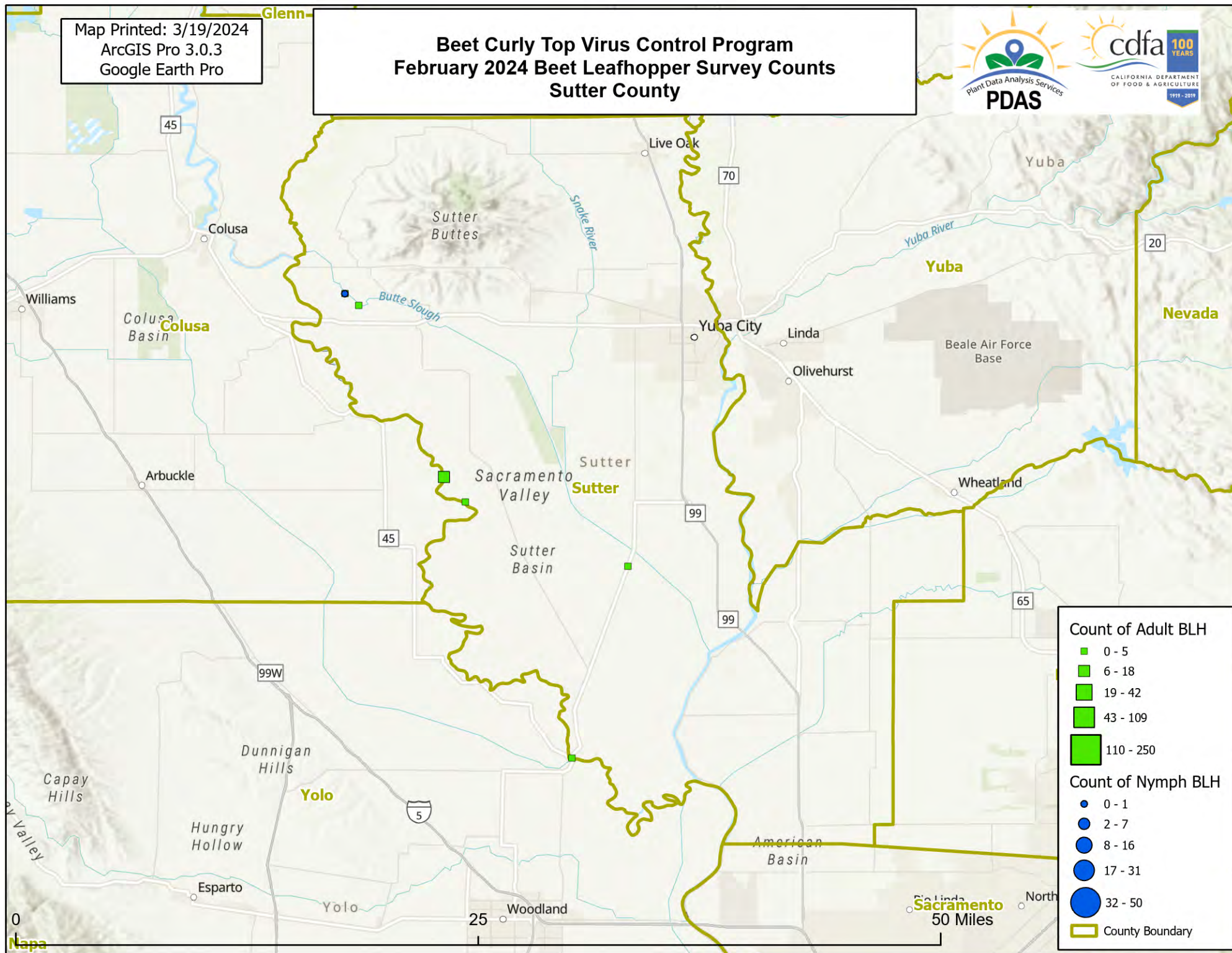
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Beet Curly Top Virus Control Program February 2024 Beet Leafhopper Survey Counts Merced County



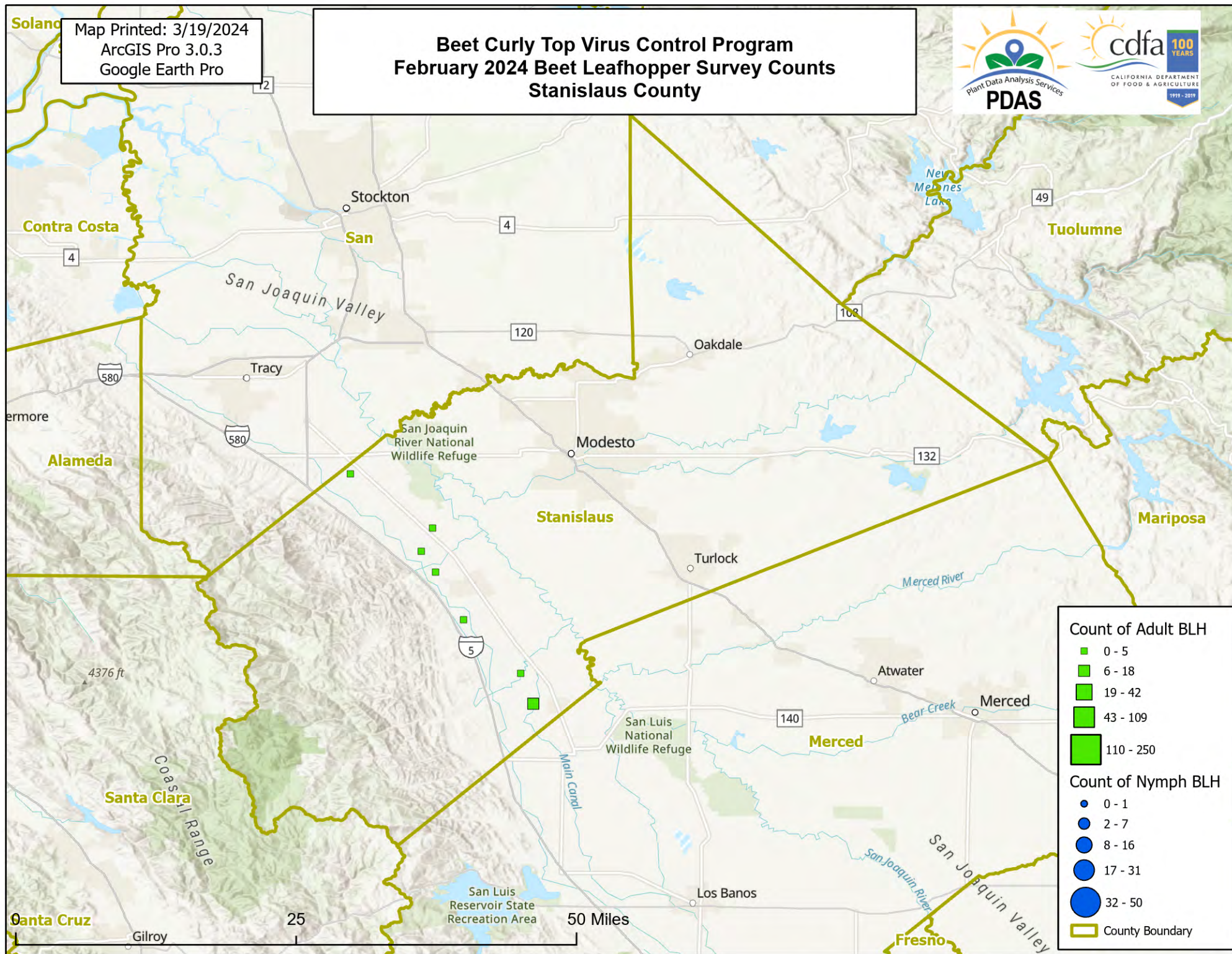
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Beet Curly Top Virus Control Program February 2024 Beet Leafhopper Survey Counts Sutter County



Map Printed: 3/19/2024
ArcGIS Pro 3.0.3
Google Earth Pro

Beet Curly Top Virus Control Program February 2024 Beet Leafhopper Survey Counts Stanislaus 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: 3/19/2024
ArcGIS Pro 3.0.3
Google Earth Pro

Beet Curly Top Virus Control Program February 2024 Beet Leafhopper Survey Counts Glenn County

