

# Beet Curly Top Virus Control Program

## Monthly Report

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**May 2024**

### Program Update

- In May, Beet Curly Top Virus Control Program (BCTVCP) personnel conducted beet 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, Monterey, Riverside, Imperial, and Colusa counties.
- BLH counts remained very low or not present in all survey areas statewide (0-3 BLH per sweep). There has been increased BLH activity observed along roadside and fallow field vegetation in Fresno, Kings, Riverside, and Imperial Counties.
- The Program will continue to conduct BLH population surveys on the valley floor and roadsides. Mapping of fallow fields and roadside vegetation continues for future assessment and control operations.
- Host plant vegetation throughout the state continues to thrive with London Rocket, Russian Thistle, Mallow, Filaree, Goosefoot, Lamb's Quarter, and Shepherd's Purse present.
- Commodity surveys are currently showing low percentages of damage (below 2%) in the Central Valley. Commodity surveys in the Northern counties are still low while we wait for the plants to reach 1 foot in size.
- In May, ground-rig control operations were performed in Fresno and Kings County in areas with high BLH counts (20-100 per sweep).
  - Ground-rig control operations were conducted along Oil City Rd, W Gale Ave, Kings Ave, W Tractor Ave, N Monterey Ave, and S Derrick Ave on May 9, 2024, in Fresno County.
  - Ground-rig control operations were conducted along 25<sup>th</sup> Ave and Utica Ave on May 14, 2024, in Kings County.
  - Ground-rig control operations were conducted along W Mt. Whitney Ave, Sonoma Ave, and W Manning Ave on May 16, 2024, in Fresno County.
  - Kill checks were conducted after treatment and saw a 98-100% reduction in BLH populations in the fallow field and along the roadsides.

- On May 22<sup>nd</sup>, the Beet Curly Top Virus Control Board (BCTVCB) held an annual spring meeting to review the Program budget, provide updates on current operations, and to review objectives for the 2024 growing season.
- The Program would like to remind growers and PCA's that any fallow fields or weedy areas adjacent to susceptible crops should be inspected for BLH prior to disking or mowing. The Program can be available for BLH surveys and, if needed, control of fallow fields and/or roadsides where BLH counts reach the control thresholds.
- Please visit the Program's webpage to view Program reports and alerts. [https://www.cdfa.ca.gov/plant/ipc/curlytopvirus/ctv\\_hp.htm](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](mailto: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	6	-	10	-	-	-	-	-	-	-	-	-	-	-
Negative BLH	40	23	43	-	-	-	-	-	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	Sacramento	Stanislaus	San Joaquin
Positive BLH	9	3	3	-	-	-	-	-	-	-	-	-	-	-
Negative BLH	62	4	9	-	-	-	-	-	-	-	-	-	-	2
Positive Host Plant	8	7	6	-	-	-	-	-	-	-	-	-	-	-
Negative Host Plant	288	53	158	21	34	5	17	-	26	-	15	13	70	36

April 2024- BCTV Sample Results by County														
	Fresno	Kings	Kern	Merced	Madera	Glenn	Yolo	Colusa	Sutter	Butte	Solano	Sacramento	Stanislaus	San Joaquin
Positive BLH	5	3	1	-	-	2	-	-	-	-	-	-	-	-
Negative BLH	4	1	2	-	-	1	-	4	1	5	-	1	-	-
Positive Host Plant	4	2	5	3	-	-	-	-	-	1	-	-	-	-
Negative Host Plant	223	96	151	40	53	5	8	15	5	11	16	8	73	15

May 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Positive Host Plant	2	1	5	-	-	-	-	-	-	-	-	-	-	-
Negative Host Plant	36	8	77	-	11	-	5	8	4	4	4	1	-	6

## 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 moderate to low throughout survey areas, averaging 0-4 BLH per sweep set. Coalinga had higher levels of BLH activity along roadsides (10-50 BLH per sweep).
- Host vegetation surveyed included Mallow, London Rocket, Shepherd's Purse, Filaree, *Plantago*, Mustards, Russian Thistle, Pig Weed, *Bassia*, 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>
S Fairfax Ave	5/1/2024	1.2
Coalinga	5/1/2024	1.7
Huron	5/1/2024	0.6
Levis	5/2/2024	0.4
Mendota	5/2/2024	0.8
Huron	5/2/2024	0.3
Skunk Hollow	5/2/2024	7.7
Coalinga	5/2/2024	16.4
Coalinga	5/7/2024	0.4
Mendota	5/7/2024	0.8
Benito	5/7/2024	0.4
Coalinga	5/8/2024	25.9
Five Points	5/8/2024	1.0
San Joaquin	5/8/2024	3.1
Mendota	5/8/2024	0.6
Wood Ranch	5/8/2024	0.6
Coalinga	5/9/2024	1.7
Five Points	5/9/2024	5.3
Tranquillity	5/13/2024	5.8
Calflax	5/13/2024	0.3
Coalinga	5/13/2024	0.2
Calflax	5/14/2024	0.2
S Lassen Ave	5/15/2024	1.3
Benito	5/28/2024	0.5

### 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 0-1 BLH per sweep set.
- Host plant vegetation surveyed included Pig Weed, Goosefoot, London Rocket, Lamb's Quarter, Mustards, *Bassia*, Mallow, and Russian Thistle.
- 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>
Spicer City	5/1/2024	0.3
Millux	5/1/2024	0.2
San Emidio	5/2/2024	0.8
Spicer City	5/6/2024	0.4
Antelope Valley	5/7/2024	0.1
Millux	5/7/2024	0.5
Lakeview	5/8/2024	0.1
Spicer City	5/8/2024	0.4
Millux	5/9/2024	1.0
Buttonwillow	5/13/2024	0.9
Spicer City	5/14/2024	1.2
San Emidio	5/15/2024	0.4
Mettler	5/15/2024	0.3
Mettler	5/16/2024	0.4
Tupman	5/20/2024	0.5
Kern Lake	5/21/2024	0.5
South Dome	5/22/2024	0.6
Millux	5/23/2024	0.6
Mettler	5/28/2024	0.1
Spicer City	5/29/2024	0.2
Mettler	5/29/2024	0.3
Buttonwillow	5/30/2024	0.4

### 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 moderate to low throughout survey areas, averaging 0-4 BLH per sweep set. Dudley Ridge had higher levels of BLH activity (5-20 BLH per sweep).
- Host vegetation surveyed included Mallow, Goosefoot, Mustards, *Bassia*, Pig Weed, London Rocket, Russian Thistle, 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 City	5/1/2024	0.3
Kettleman City	5/2/2024	5.2
Sunflower Valley	5/7/2024	0.6
Kettleman Plain	5/7/2024	0.7
Kettleman City	5/7/2024	3.1
Kettleman City	5/8/2024	5.6
Kettleman City	5/9/2024	0.9
Dudley Ridge	5/14/2024	13.0
25th Ave	5/15/2024	0.4
Kettleman City	5/16/2024	0.5
Avenal Gap	5/16/2024	2.3
25th Ave	5/20/2024	6.3
Dudley Ridge	5/28/2024	10.6
Dudley Ridge	5/29/2024	6.9

### Madera 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, London Rocket, Goosefoot, Mustards, Russian Thistle, and Filaree.
- A map identifying BLH counts is provided at the end of the report.

Madera County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Firebaugh	5/1/2024	0.1
La Vina	5/1/2024	0.1
La Vina	5/14/2024	0.1
Firebaugh	5/14/2024	0.1
Bonita	5/14/2024	0.3
Dairyland	5/14/2024	0.1
Irrigosa	5/15/2024	0.2

### 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, *Bassia*, Goosefoot, Mustards, Russian Thistle, 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>
Los Banos	5/13/2024	0.5
Lingard	5/15/2024	2.3
Hamburg Farms	5/29/2024	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 0-1 BLH per sweep set.
- Host vegetation surveyed included Mallow, Mustards, *Bassia*, Kochia, Bindweed, 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>
Manteca	5/2/2024	0.5
Vernalis	5/14/2024	0.2
Tracy	5/14/2024	0.6
Thornton	5/14/2024	0.6
French Camp	5/30/2024	1.4

### Colusa 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, Russian Thistle, Bindweed, and Filaree.
- A map identifying BLH counts is provided at the end of the report.

Colusa County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Williams	5/13/2024	0.7
Colusa	5/13/2024	0.8
Sycamore	5/28/2024	0.2

### 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.
- Host vegetation surveyed included Mallow, Pig Weed, Bindweed, Russian Thistle.

### Sutter 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, *Bassia*, Bindweed, 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>
Wheatland	5/22/2024	1.8
Hinsdale	5/22/2024	0.6
Joes Landing	5/23/2024	0.8
Nicolaus	5/23/2024	0.4

### 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.
- Host vegetation surveyed included Mallow, Russian Thistle, and Bindweed.

### Butte 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, Knotgrass, Bindweed, and Filaree.
- A map identifying BLH counts is provided at the end of the report.

Butte County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Richvale	5/6/2024	0.5
Nelson	5/6/2024	1.0
Rancho Llano Seco	5/6/2024	0.3
Dayton	5/21/2024	0.3

### 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.
- Host vegetation surveyed included Yellow Star Thistle.

### Solano 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, Bindweed, and Filaree.
- A map identifying BLH counts is provided at the end of the report.

Solano County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Sucro	5/22/2024	0.2
Dixon	5/23/2024	1.0

### Monterey 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, *Bassia*, Russian Thistle.
- A map identifying BLH counts is provided at the end of the report.

Monterey County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Elsa	5/15/2024	0.2

### Riverside County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained moderate to low throughout the survey areas, averaging 0-4 BLH per sweep set. One area in Blythe had higher levels of BLH activity (5-20 BLH per sweep).
- Host vegetation surveyed included Goosefoot, Salt Bush, and Russian Thistle.
- A map identifying BLH counts is provided at the end of the report.

Riverside County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Blythe	5/23/2024	6.9
Ripley	5/23/2024	0.3

### Imperial County

- BLH population surveys were conducted in fallow fields and roadsides within five miles of the foothills.
- Overall counts remained moderate to high throughout the survey areas, averaging 0-21 BLH per sweep set. Areas in Date City, Meloland, Westmorland, Estelle, Wiest, and Munyon had higher levels of BLH Activity (20-100 BLH per sweep).
- Host vegetation surveyed included Goosefoot, Salt Bush, Mallow, Russian Thistle, Bush Seepweed, and Indian Rushpea.

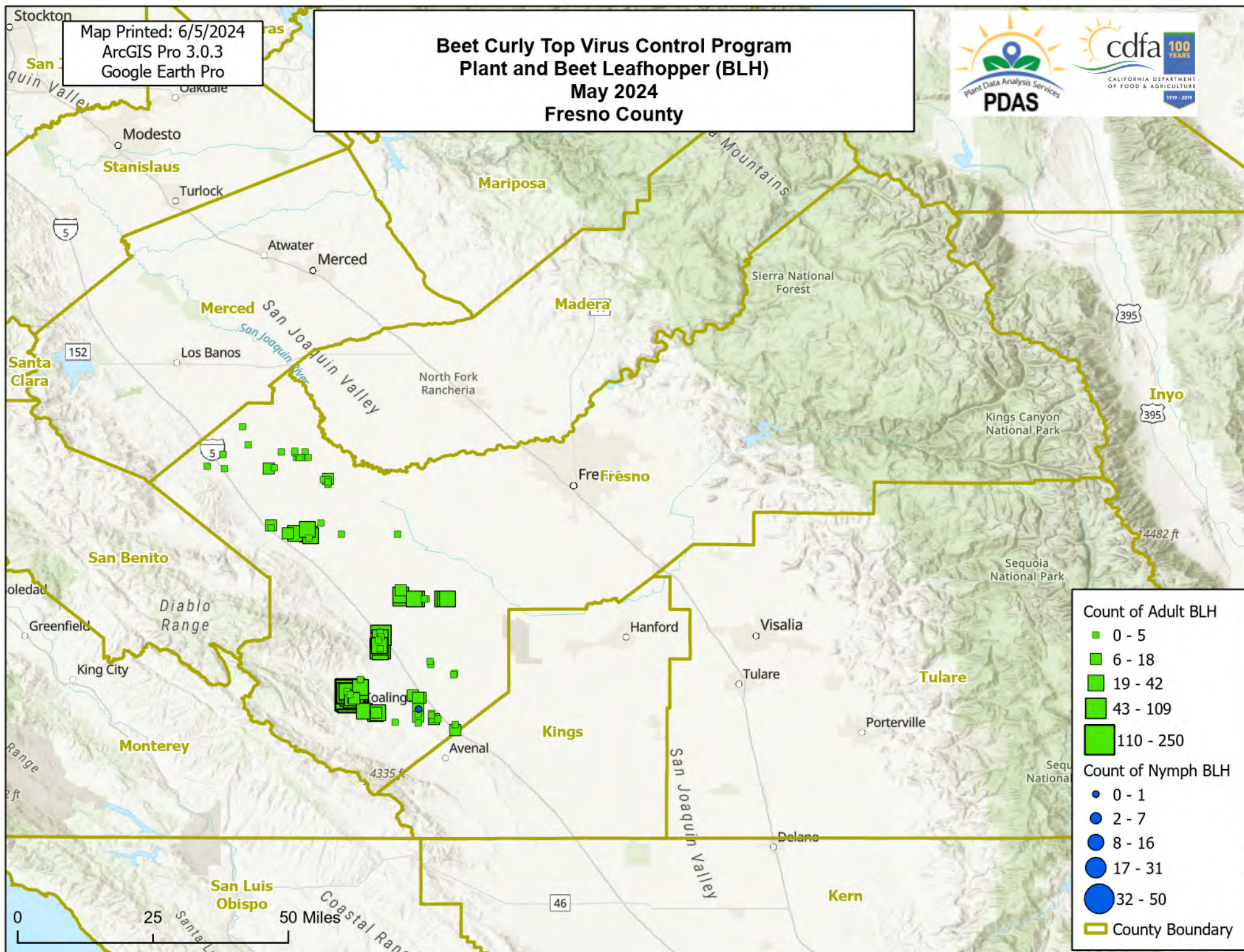
A map identifying BLH counts is provided at the end of the report.

Imperial County BLH Survey		
<u>Location</u>	<u>Date</u>	<u>Average # of BLH per 10 sweeps</u>
Date City	5/21/2024	51.1
Heber	5/21/2024	10.8
Meloland	5/21/2024	24.5
Imperial	5/21/2024	0.7
Westmorland	5/21/2024	27.7
Imperial	5/22/2024	0.9
Westmorland	5/22/2024	23.9
Calipatria	5/22/2024	2.3
Mundo	5/22/2024	1.4
Estelle	5/22/2024	11.7
Wiest	5/22/2024	37.5
Munyon	5/22/2024	64.0

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[www.cdfa.ca.gov/subscriptions/](http://www.cdfa.ca.gov/subscriptions/)

Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

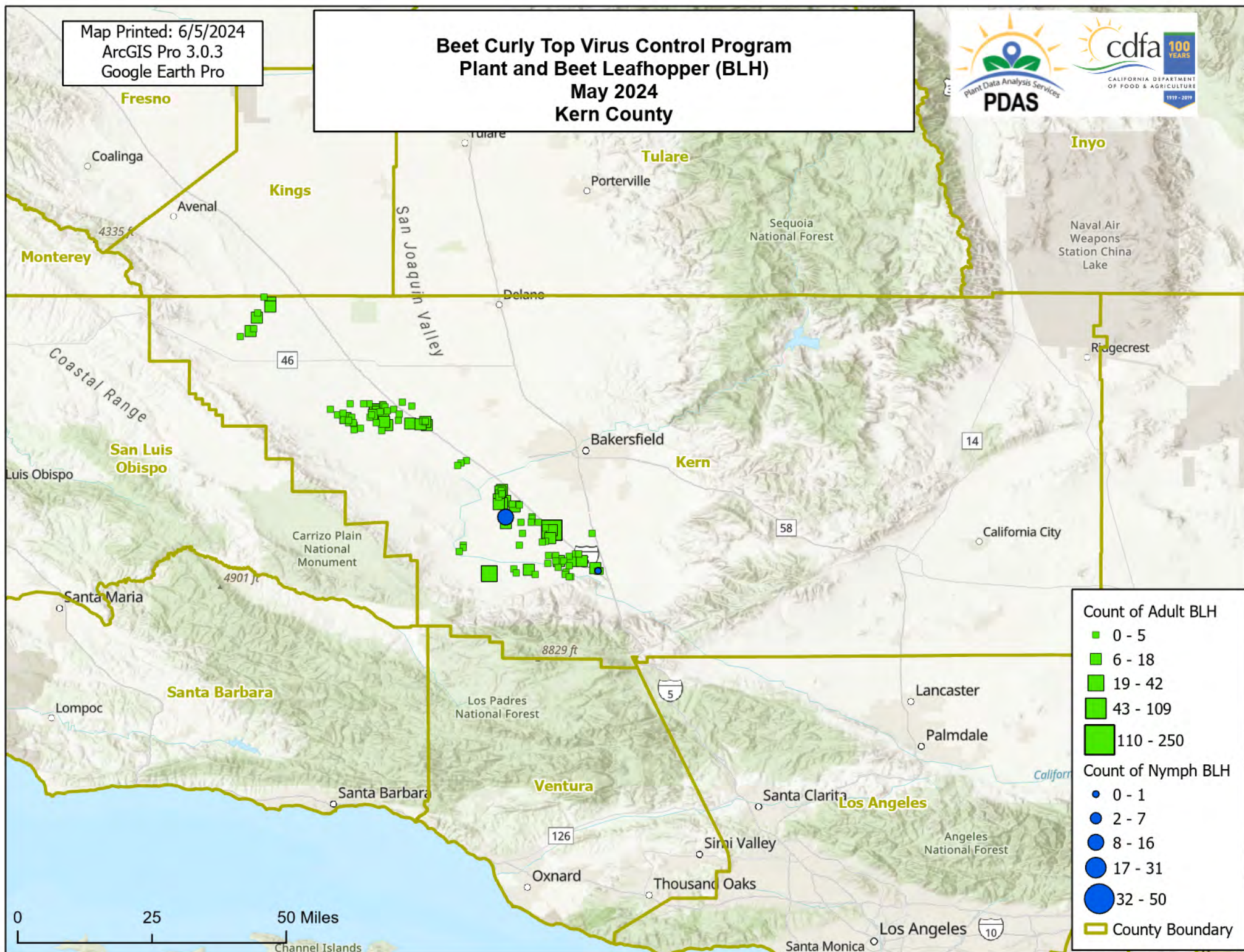
# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Fresno County





Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Kern County



## Count of Adult BLH

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

## Count of Nymph BLH

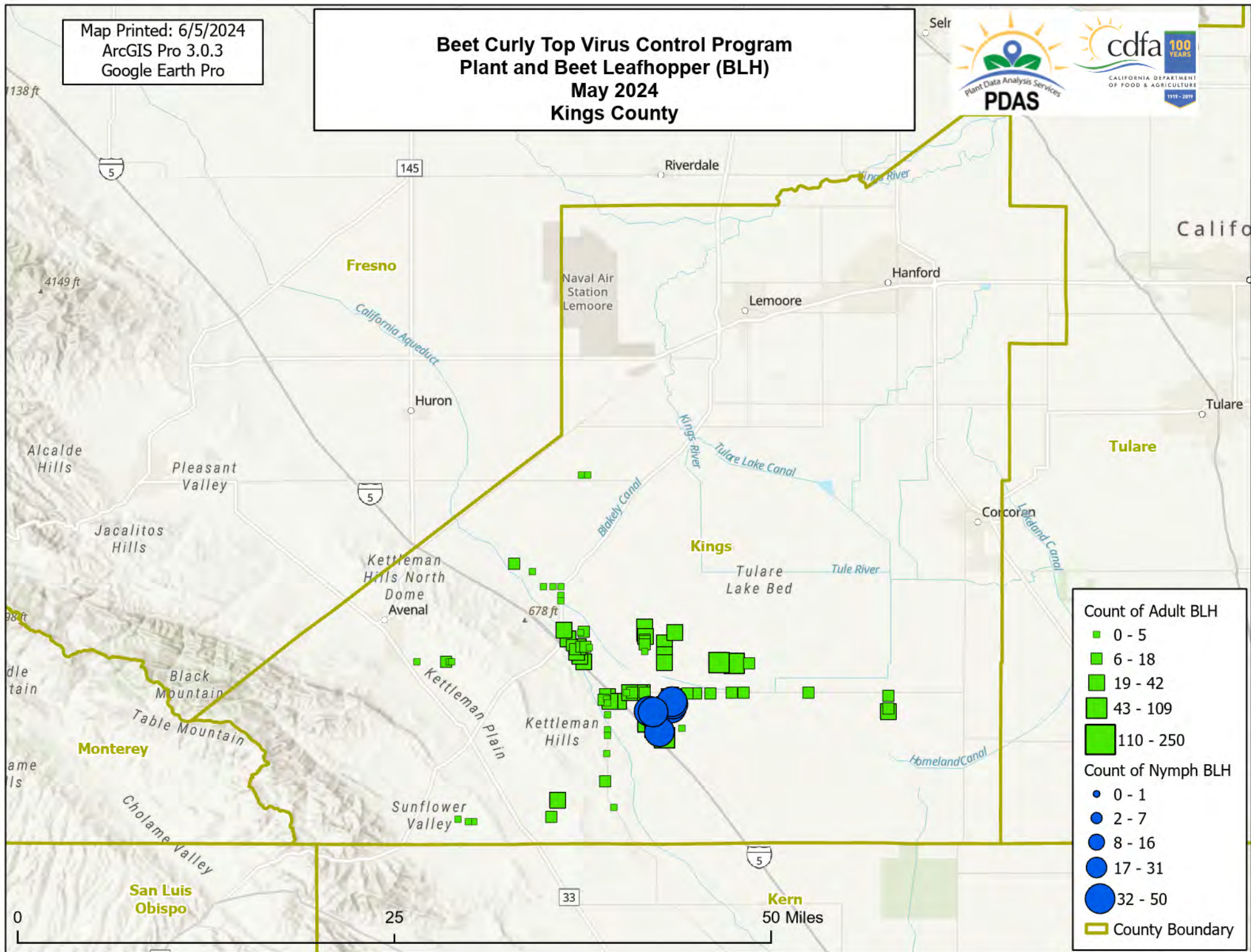
- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary



Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Kings County



## Count of Adult BLH

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

## Count of Nymph BLH

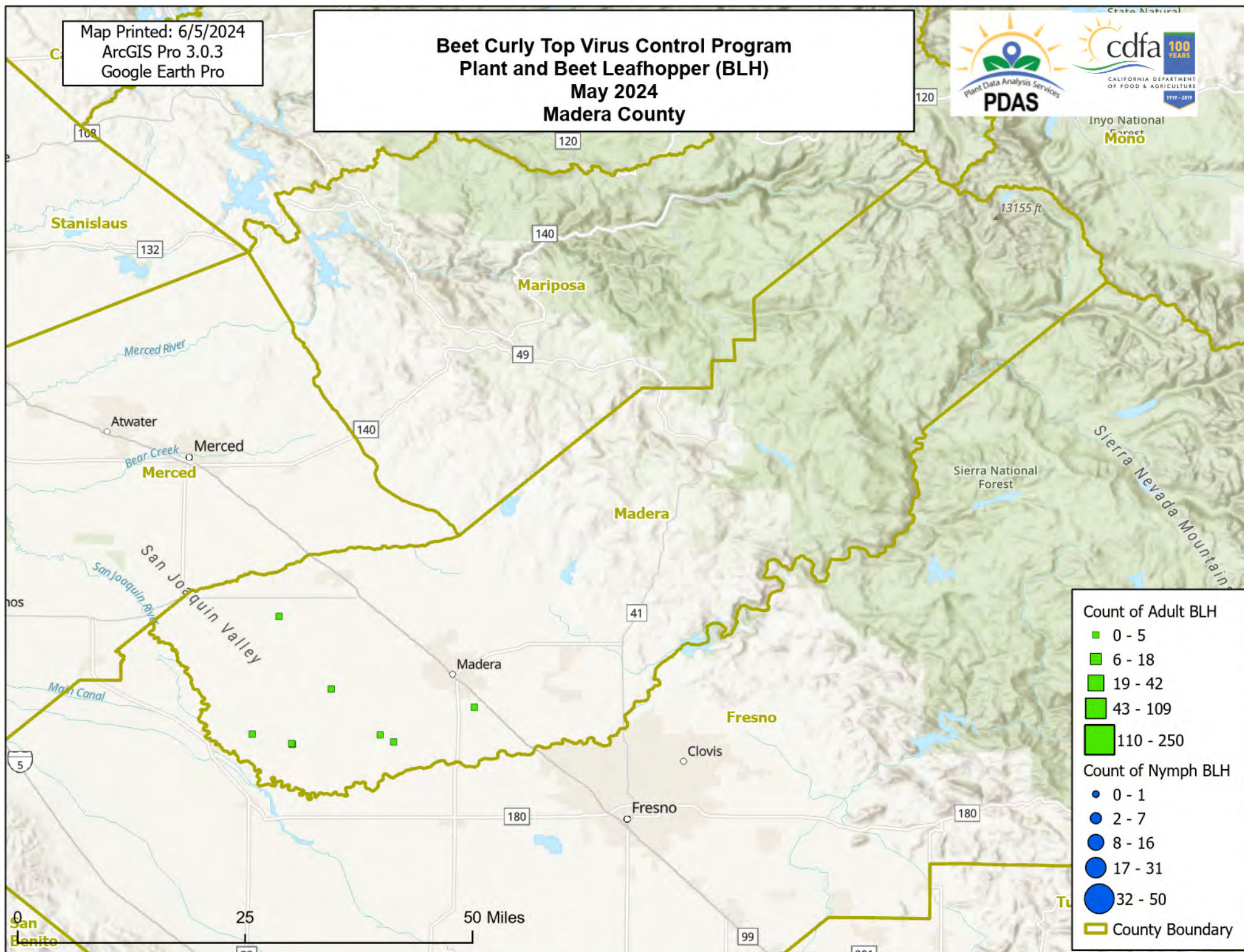
- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary



Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

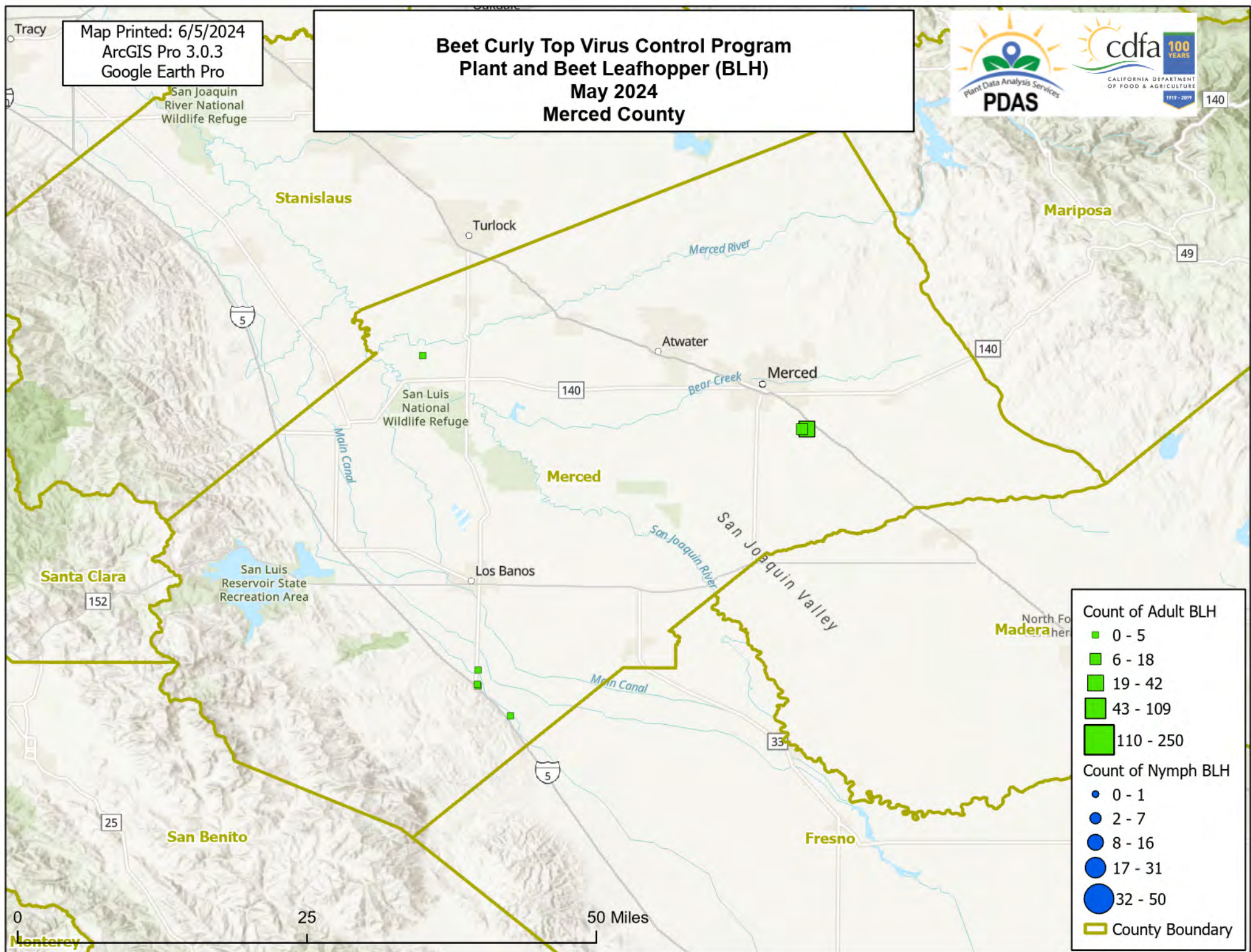
# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Madera County





Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Merced County



## Count of Adult BLH

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

## Count of Nymph BLH

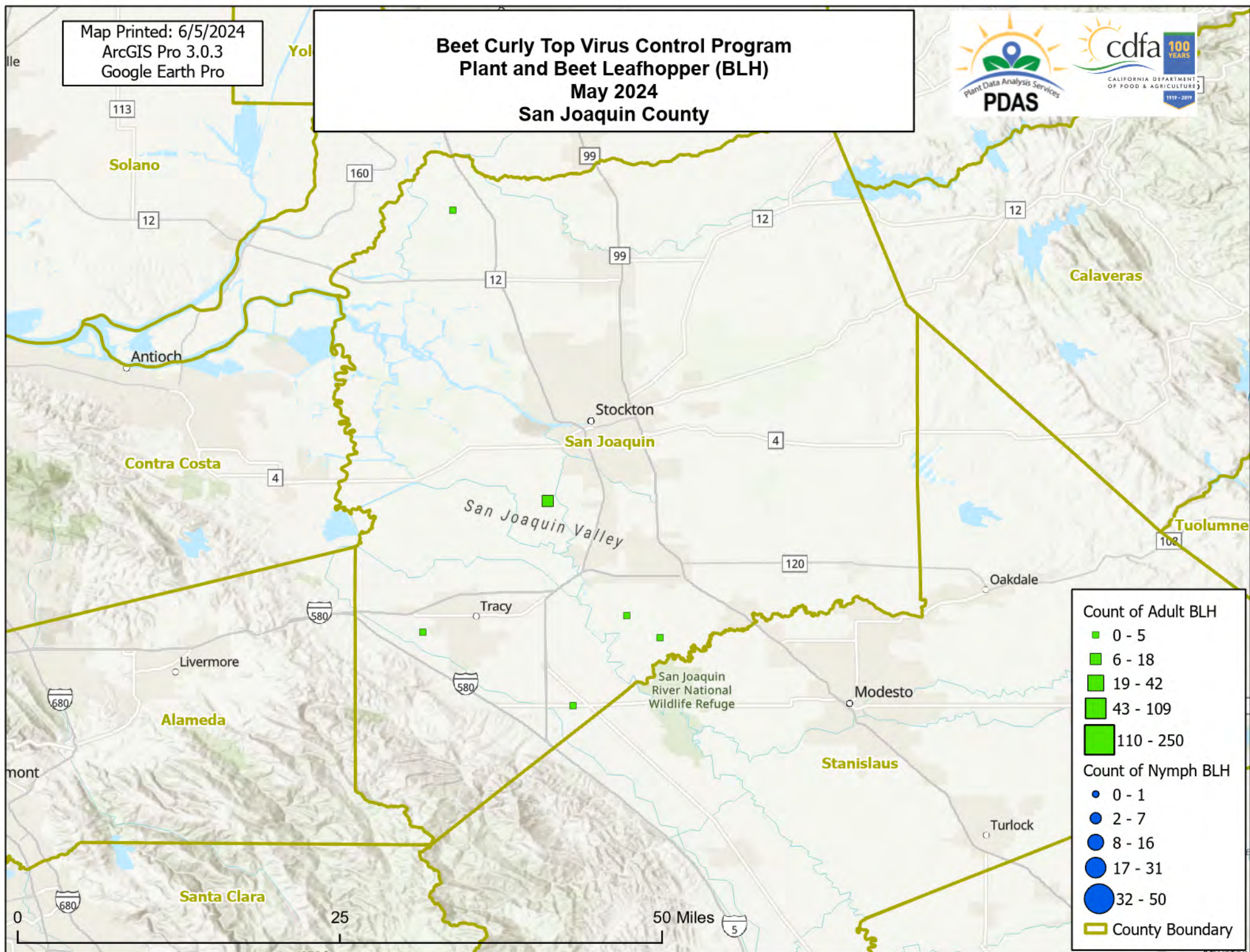
- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary



Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 San Joaquin County



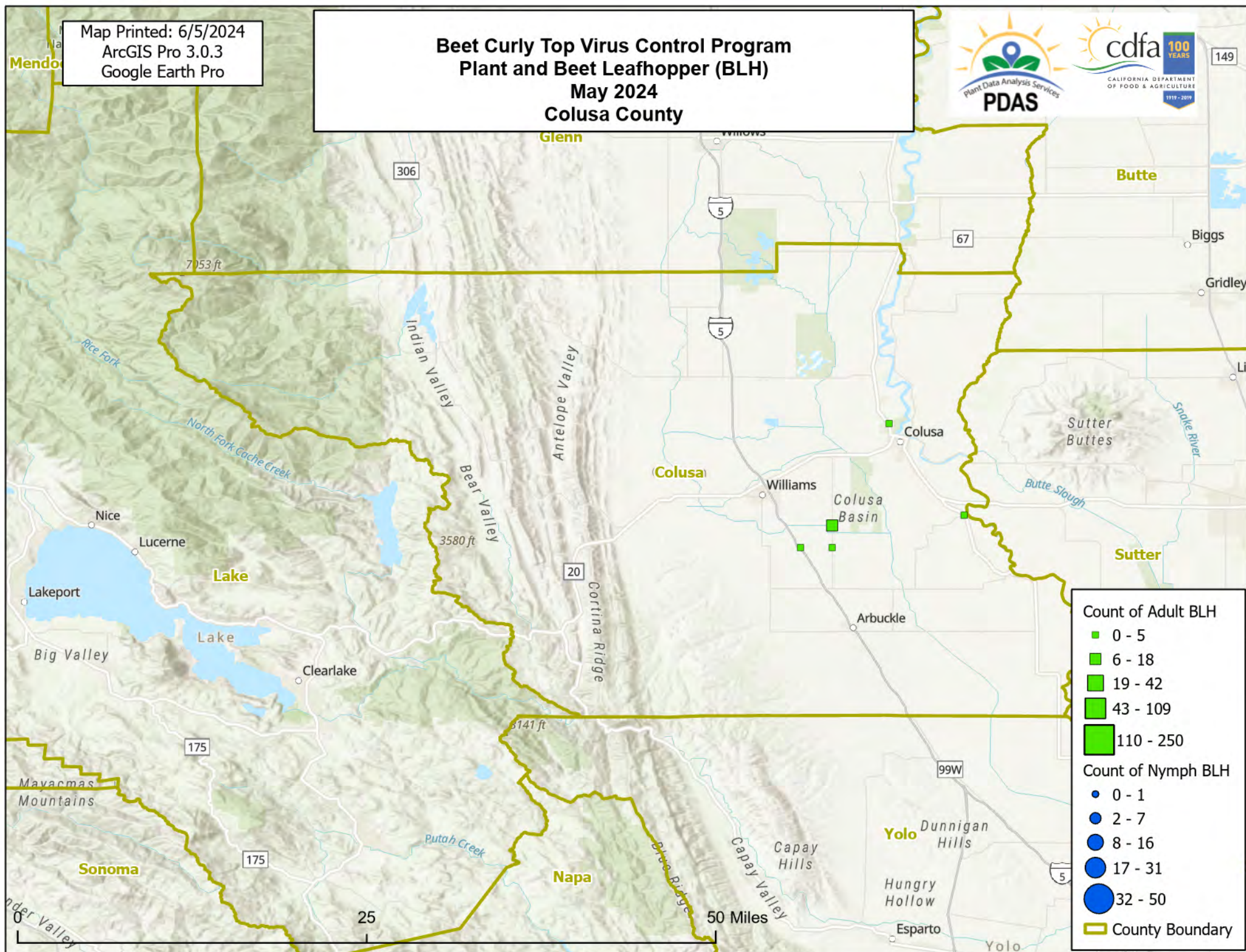


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ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Colusa County



149



## Count of Adult BLH

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

## Count of Nymph BLH

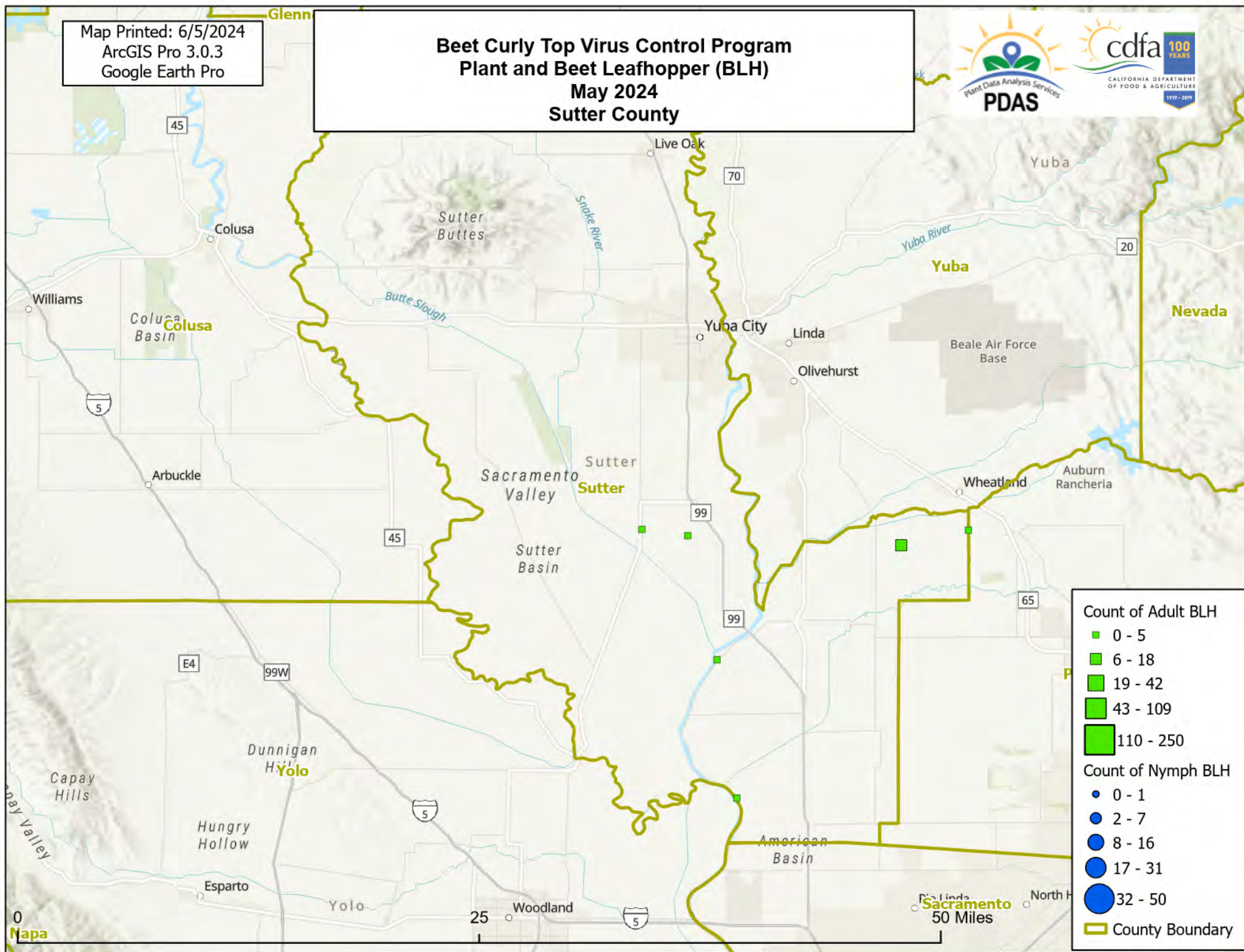
- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary



Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Sutter County



## Count of Adult BLH

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

## Count of Nymph BLH

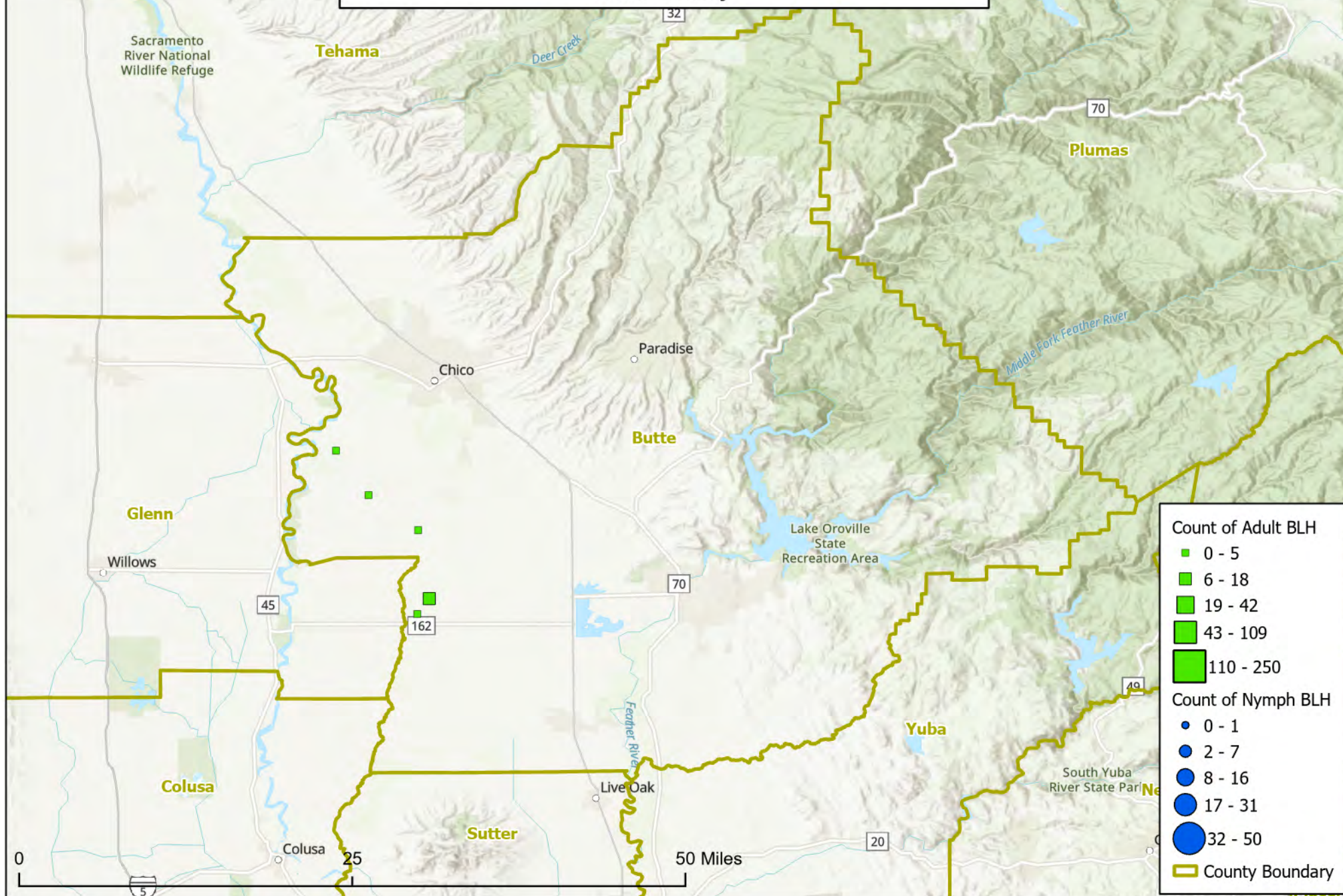
- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary



Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

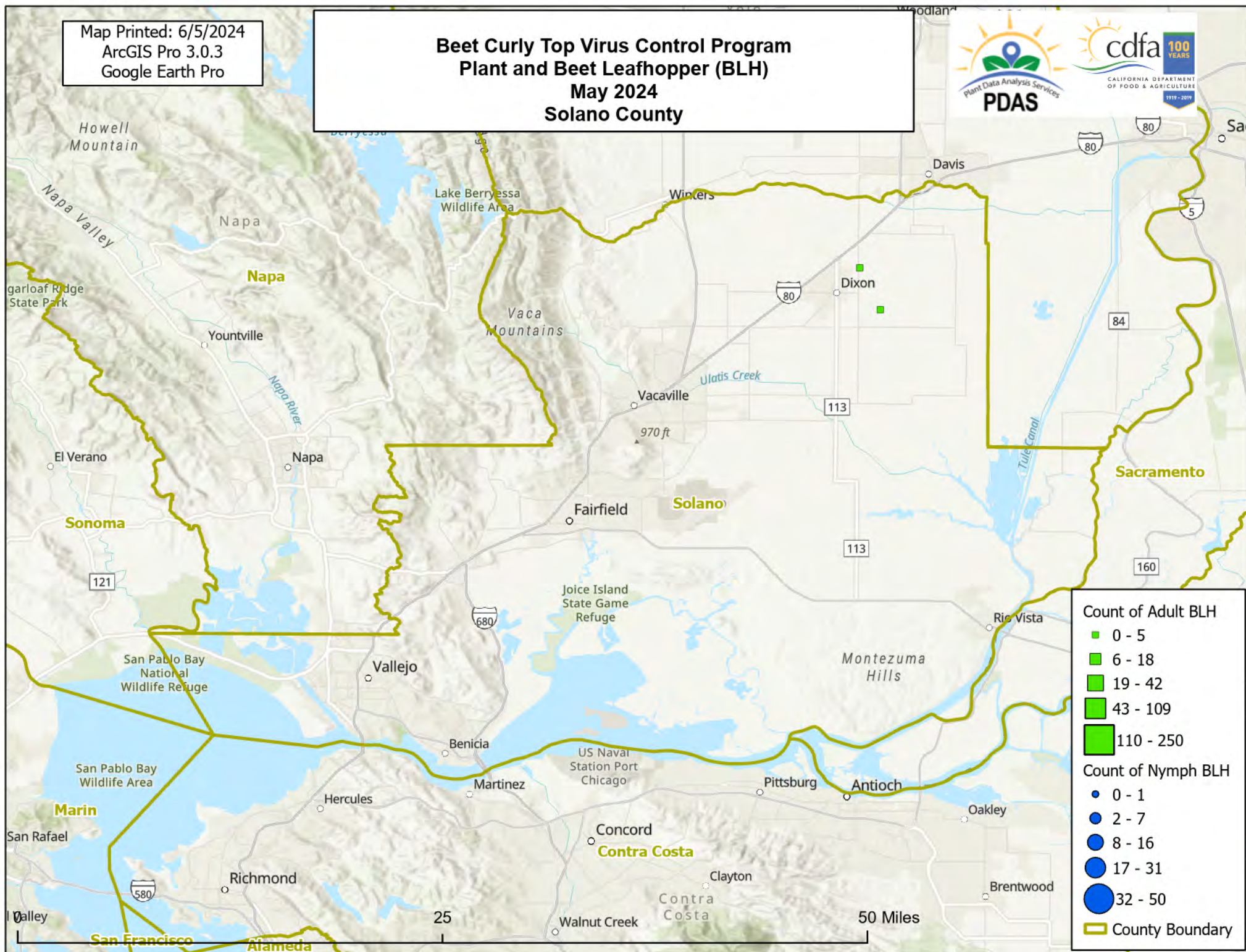
# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Butte County





Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Solano County



## Count of Adult BLH

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

## Count of Nymph BLH

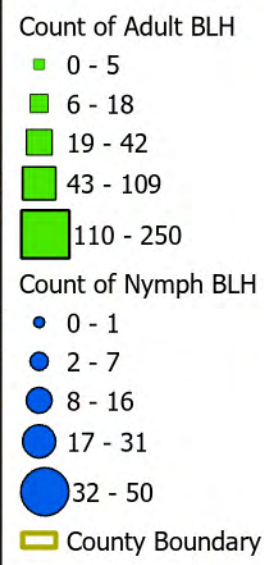
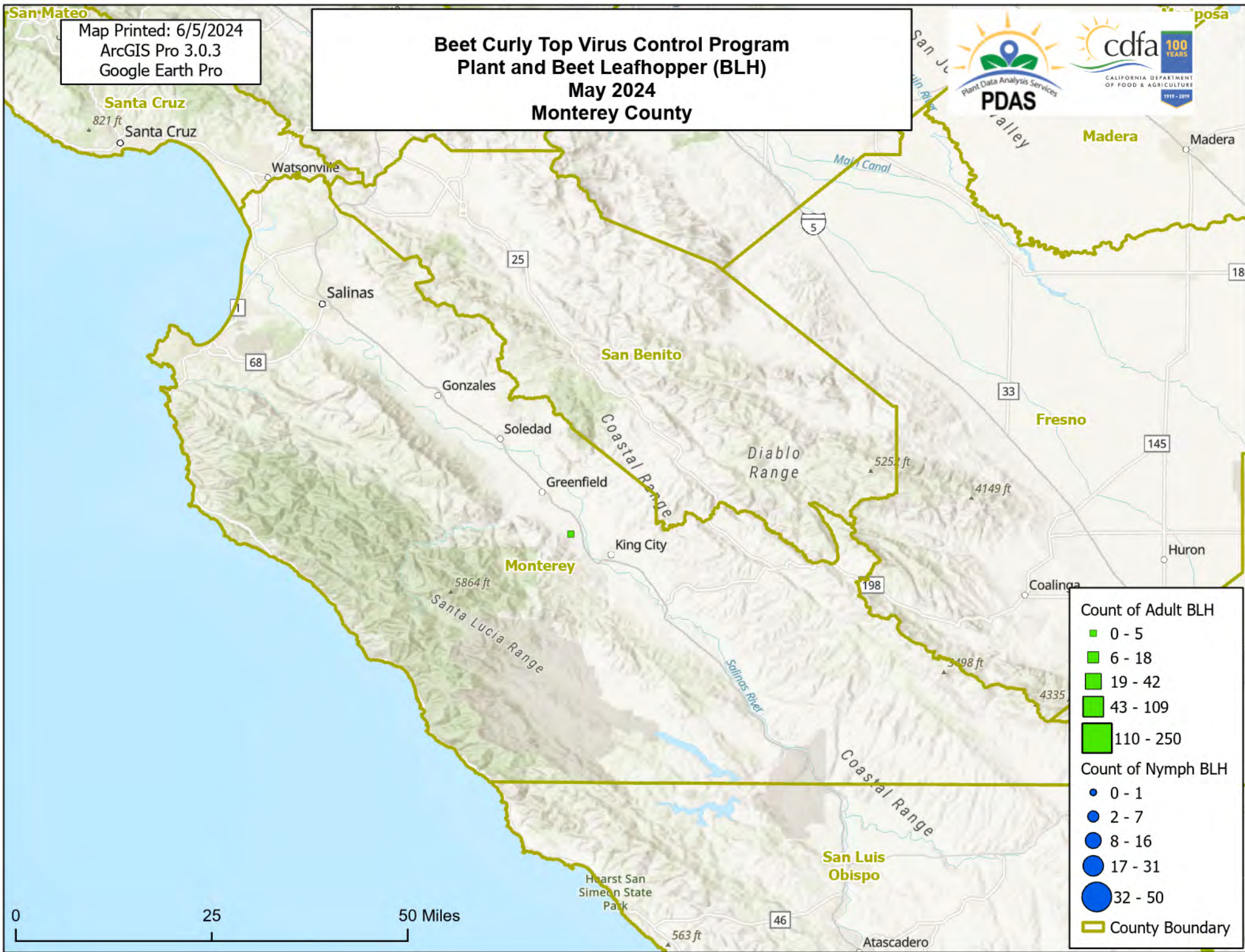
- 0 - 1
- 2 - 7
- 8 - 16
- 17 - 31
- 32 - 50

County Boundary



Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Monterey County





Map Printed: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Riverside County



King



## 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: 6/5/2024  
ArcGIS Pro 3.0.3  
Google Earth Pro

# Beet Curly Top Virus Control Program Plant and Beet Leafhopper (BLH) May 2024 Imperial County

