

Adult Trap Data - Detail

Start Date: 06/04/2025 End Date: 06/04/2025

Berthoud

Trap #	Date	Species	Count	Percent
LC-001	CDC Light Trap	Larimer	Berthoud Park	

06/04/2025	<i>Culex tarsalis</i>	2	100.0%
	Total	2	



- █ *Aedes-Oc*
- █ *Anopheles*
- █ *Culex*
- █ *Culiseta*
- █ *Other*

Trap #	Date	Species	Count	Percent
LC-049	CDC Light Trap	Larimer	Berthoud North	

06/04/2025	<i>No Mosquitoes</i>	0	NaN%
	Total	0	

- █ *Aedes-Oc*
- █ *Anopheles*
- █ *Culex*
- █ *Culiseta*
- █ *Other*

Trap #	Date	Species	Count	Percent
LC-053	CDC Light Trap	Larimer	Berthoud West	
	06/04/2025	<i>Aedes vexans</i>	2	11.1%
	06/04/2025	<i>Culex tarsalis</i>	16	88.9%
		Total	18	



- █ *Aedes-Oc*
- █ *Anopheles*
- █ *Culex*
- █ *Culiseta*
- █ *Other*

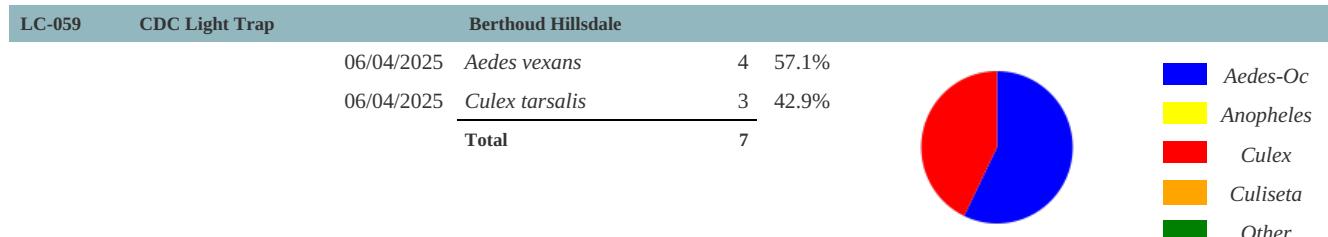
Trap #	Date	Species	Count	Percent
LC-054	CDC Light Trap	Larimer	Berthoud Point	
	06/04/2025	<i>No Mosquitoes</i>	0	NaN%
		Total	0	

- █ *Aedes-Oc*
- █ *Anopheles*
- █ *Culex*
- █ *Culiseta*
- █ *Other*

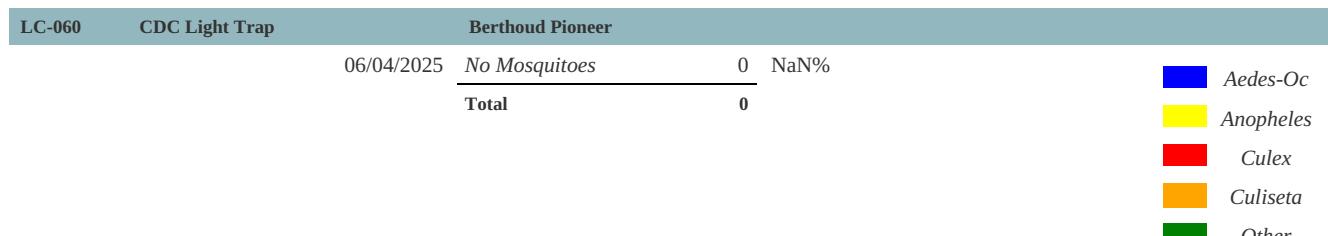
Trap #	Date	Species	Count	Percent
LC-058	CDC Light Trap		Berthoud Gateway	

Trap #	Date	Species	Count	Percent
	06/04/2025	No Mosquitoes	0	NaN%
		Total	0	

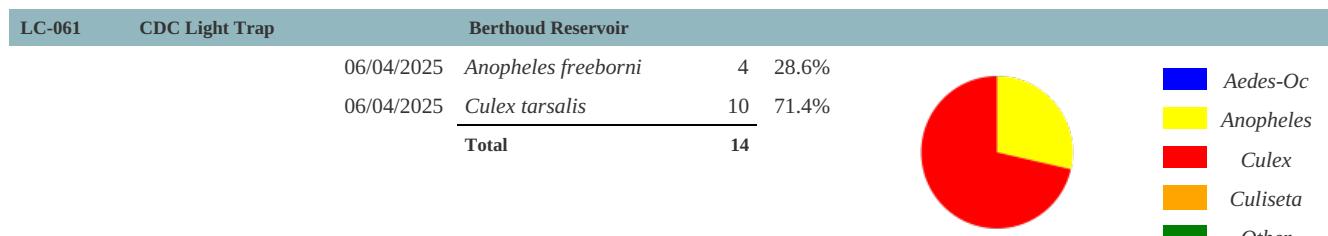
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- *Other*



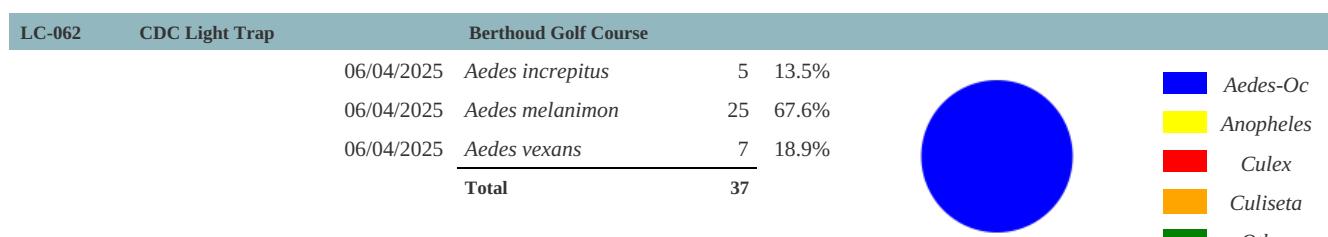
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- *Other*



- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- *Other*



- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- *Other*

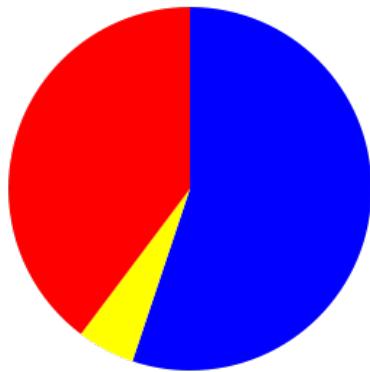


- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- *Other*

WC-055	CDC Light Trap	Weld	Berthoud East
--------	----------------	------	---------------

Trap #	Date	Species	Count	Percent
	06/04/2025	No Mosquitoes	0	NaN%
		Total	0	

█ *Aedes-Oc*
█ *Anopheles*
█ *Culex*
█ *Culiseta*
█ *Other*



	TOTAL	%
█ <i>Aedes-Oc</i>	43	55.1%
█ <i>Anopheles</i>	4	5.1%
█ <i>Culex</i>	31	39.7%
█ <i>Culiseta</i>	0	0.0%
█ <i>Other</i>	0	0.0%

D. Reporting templates

Based on the need to now report data not only for FC citywide but also separately for each of the four zones (NW, NE, SE, SW; broken down using College and Drake) the city has been divided into for the purpose of WNV surveillance and mosquito control, CSU had to generate a new reporting template. This new reporting template is tailored to provide data relevant to the Level III and IV entomological triggers (see below) for control measures in the “City of Fort Collins Program Response Guidelines to Mosquito Borne Arboviral Activity (July 2008 edition)”.

Level III

- Vector index > 0.5 and increasing
- *Culex* mosquito populations increasing and at or above historical average for that time period
- Mosquito infection rates of > 3.0 per thousand (0.3%) and increasing

Level IV

- Vector index > 0.75 .
- *Culex* mosquito population above historical average for that time period
- Sustained mosquito infection rates of > 5.0 per thousand (0.5%)

The new reporting format comprises a set of 6 tables to address the current week (1a, 2a, 3a) and to provide seasonal and historical context (1b, 2b, 3b) (see full table formats on following pages)

- Table 1a. Vector Index for current week
- Table 1b. Vector Index for All *Culex* by week from June-August
- Table 2a. Vector abundance for current week
- Table 2b. Vector abundance for All *Culex* by week from June-August
- Table 3a. WNV infection rate per 1,000 females for current week
- Table 3b. WNV infection rate per 1,000 females for All *Culex* by week from June-August

Table 1a. Vector Index for current week

Week: 23	Mean abundance of females per trap night ¹		Estimate for proportion of females infected with WNV ²	Vector Index			
	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>		Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	Cx. <i>pipiens</i> ³	Cx. <i>tarsalis</i> ⁴
FC – Zone NW	1.11	0.78	0.0000	0.0000	0.000	0.000	0.000
FC – Zone NE	0.70	5.50	0.0000	0.0000	0.000	0.000	0.000
FC – Zone SE	0.13	0.87	0.0000	0.0000	0.000	0.000	0.000
FC – Zone SW	0.56	0.33	0.0000	0.0000	0.000	0.000	0.000
FC – Citywide	0.63	1.87	0.0000	0.0000	0.000	0.000	0.000
LV	0.0	2.33	0.0000	0.0000	0.0000	0.0000	0.0000
BE	0.0	3.10	0.0000	0.0000	0.0000	0.0000	0.0000
BC							

¹From Table 2a (CDC light trap catches only).²Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).³Vector Index for *Cx. pipiens* = (Mean abundance of *Cx. pipiens* females per trap night) x (Estimate for proportion of all *Cx. pipiens* females infected with WNV).⁴Vector Index for *Cx. tarsalis* = (Mean abundance of *Cx. tarsalis* females per trap night) x (Estimate for proportion of all *Cx. tarsalis* females infected with WNV).⁵Vector Index for All *Culex* = (Vector Index for *Cx. pipiens*) + (Vector Index for *Cx. tarsalis*).**Table 1b. Vector Index for All *Culex* by week from June-August**

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹									
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
24		0.00		0.00		0.00		0.00		0.00			
25		0.00		0.00		0.00		0.00		0.00			
26		0.00		0.01		0.01		0.00		0.01			
27		0.00		0.01		0.04		0.00		0.01			
28		0.01		0.02		0.14		0.03		0.07			
29		0.08		0.15		0.15		0.09		0.12			
30		0.06		0.13		0.19		0.09		0.13			
31		0.11		0.19		0.35		0.12		0.22			
32		0.19		0.21		0.21		0.16		0.21			
33		0.12		0.43		0.21		0.15		0.23			
34		0.13		0.26		0.23		0.12		0.20			
35		0.07		0.27		0.26		0.05		0.19			
36		0.03		0.09		0.06		0.03		0.06			
37		0.03		0.11		0.02		0.00		0.04			

¹The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.

Table 2a. Vector abundance for current week (CDC light trap catches only)

Week: 23	Total number females collected			Number CDC light trap nights	Mean abundance of females per CDC light trap night		
	Cx. pipiens	Cx. tarsalis	All Culex		Cx. pipiens ¹	Cx. tarsalis ²	All Culex ³
FC – Zone NW	0	14	14	6	0.00	2.33	2.33
FC – Zone NE	0	31	31	10	0.00	3.10	3.10
FC – Zone SE	2	13	15	15	0.13	0.87	1.00
FC – Zone SW	5	3	8	9	0.56	0.33	0.89
FC – Citywide	24	78	102	43	0.56	1.81	2.37
LV	0	14	14	6	0.0	2.3	2.33
BE	0	31	31	10	0.0	3.1	3.10
BC	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹Mean abundance of Cx. pipiens females per CDC light trap night = (Total number Cx. pipiens females collected) / (Number CDC light trap nights).

²Mean abundance of Cx. tarsalis females per CDC light trap night = (Total number Cx. tarsalis females collected) / (Number CDC light trap nights).

³Mean abundance of All Culex females per CDC light trap night = (Total number All Culex females collected) / (Number CDC light trap nights).

Table 2b. Vector abundance for All Culex by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹									
23	1.89	3.07	6.20	3.30	1.00	4.38	0.89	4.15	2.37	3.81	2.33	3.10	
24		4.21		5.03		5.10		2.59		4.27			
25		6.59		14.73		20.15		4.71		12.82			
26		27.05		37.61		50.41		17.79		35.72			
27		21.55		62.11		75.77		12.25		47.95			
28		47.90		83.00		134.95		43.02		85.41			
29		61.29		122.27		111.71		43.46		89.33			
30		52.87		119.42		92.11		34.90		78.27			
31		37.03		83.13		73.15		24.07		57.64			
32		34.98		79.57		44.62		22.61		46.12			
33		25.45		70.93		39.71		19.94		39.85			
34		21.91		52.36		29.81		15.21		30.35			
35		12.48		33.13		21.37		8.18		19.48			
36		8.81		34.88		13.64		4.72		15.70			
37		6.91		30.94		9.62		2.27		12.47			

¹The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards

Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)

Week: 23	Total number individuals examined			Total number pools examined			Total number WNV-infected pools			Estimate for WNV infection rate per 1,000 females ¹		
	Cx. pipiens	Cx. tarsalis	All Culex	Cx. pipiens	Cx. tarsalis	All Culex	Cx. pipiens	Cx. tarsalis	All Culex	Cx. pipiens	Cx. tarsalis	All Culex
FC – Zone NW	10	7	17	2	4	6	0	0	0	0.00	0.00	0
FC – Zone NE	12	55	67	4	8	12	0	0	0	0.00	0.00	0
FC – Zone SE	7	13	20	5	5	10	0	0	0	0.00	0.00	0
FC – Zone SW	5	3	8	4	3	7	0	0	0	0.00	0.00	0
FC – Citywide	34	78	112	15	20	35	0	0	0	0.00	0.00	0
LV	0	14	14	0	4	4	0	0	0	0	0	0
BE	0	31	31	0	4	4	0	0	0	0	0	0
BC												

¹Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

Table 3b. WNV infection rate per 1,000 females for All Culex by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹									
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
24		0.00		0.00		0.00		0.00		0.00			
25		0.00		0.00		0.00		0.00		0.00			
26		0.00		0.14		0.05		0.00		0.08			
27		0.00		0.18		0.29		0.00		0.24			
28		0.05		0.24		0.65		0.20		0.46			
29		0.81		0.94		1.02		0.79		0.98			
30		0.88		1.09		2.66		0.98		1.71			
31		3.08		2.60		4.60		5.09		3.87			
32		6.02		3.26		5.08		9.95		4.96			
33		4.85		7.57		6.82		6.37		6.93			

34	6.21	6.82	8.30	6.17	7.33		
35	6.66	9.38	14.62	7.57	9.95		
36	6.71	2.37	5.22	7.87	4.16		
37	3.67	3.56	2.48	0.00	3.79		

¹The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.