

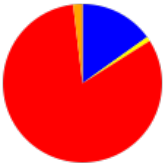


Adult Trap Data - Detail

Start Date: 07/16/2025 End Date: 07/16/2025

Berthoud

Trap #		Date	Species	Count	Percent		
LC-001	CDC Light Trap	Larimer	Berthoud Park				
		07/16/2025	<i>Aedes dorsalis</i>	3	2.7%		- Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/16/2025	<i>Aedes melanimon</i>	3	2.7%		
		07/16/2025	<i>Aedes vexans</i>	17	15.3%		
		07/16/2025	<i>Culex pipiens</i>	4	3.6%		
		07/16/2025	<i>Culex tarsalis</i>	84	75.7%		
			Total	111			

LC-049	CDC Light Trap	Larimer	Berthoud North				
		07/16/2025	<i>Aedes dorsalis</i>	1	0.9%		- Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/16/2025	<i>Aedes melanimon</i>	1	0.9%		
		07/16/2025	<i>Aedes vexans</i>	14	13.2%		
		07/16/2025	<i>Anopheles freeborni</i>	1	0.9%		
		07/16/2025	<i>Culex pipiens</i>	9	8.5%		
		07/16/2025	<i>Culex tarsalis</i>	78	73.6%		
		07/16/2025	<i>Culiseta inornata</i>	2	1.9%		
			Total	106			

LC-053	CDC Light Trap	Larimer	Berthoud West				
		07/16/2025	<i>Aedes dorsalis</i>	1	2.0%		- Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/16/2025	<i>Aedes vexans</i>	2	4.1%		
		07/16/2025	<i>Culex pipiens</i>	2	4.1%		
		07/16/2025	<i>Culex tarsalis</i>	44	89.8%		
			Total	49			

LC-054	CDC Light Trap	Larimer	Berthoud Point				
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Trap #	Date	Species	Count	Percent	 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
	07/16/2025	<i>Aedes dorsalis</i>	1	0.9%	
	07/16/2025	<i>Aedes melanimon</i>	2	1.7%	
	07/16/2025	<i>Aedes vexans</i>	4	3.4%	
	07/16/2025	<i>Culex pipiens</i>	6	5.1%	
	07/16/2025	<i>Culex tarsalis</i>	104	88.9%	
		Total	117		

LC-058	CDC Light Trap	Berthoud Gateway				 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/16/2025	<i>Aedes dorsalis</i>	1	1.9%	
		07/16/2025	<i>Aedes vexans</i>	6	11.1%	
		07/16/2025	<i>Culex pipiens</i>	1	1.9%	
		07/16/2025	<i>Culex tarsalis</i>	46	85.2%	
			Total	54		

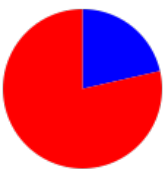
LC-059	CDC Light Trap	Berthoud Hillsdale				 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/16/2025	<i>Aedes dorsalis</i>	4	2.4%	
		07/16/2025	<i>Aedes hendersoni</i>	1	0.6%	
		07/16/2025	<i>Aedes melanimon</i>	4	2.4%	
		07/16/2025	<i>Aedes vexans</i>	60	35.9%	
		07/16/2025	<i>Culex pipiens</i>	8	4.8%	
		07/16/2025	<i>Culex tarsalis</i>	90	53.9%	
			Total	167		

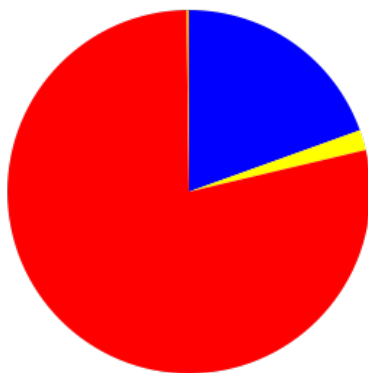
LC-060	CDC Light Trap	Berthoud Pioneer				 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/16/2025	<i>Aedes melanimon</i>	3	6.8%	
		07/16/2025	<i>Culex tarsalis</i>	41	93.2%	
			Total	44		

LC-061	CDC Light Trap	Berthoud Reservoir			
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Trap #	Date	Species	Count	Percent	 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
	07/16/2025	<i>Aedes dorsalis</i>	1	0.7%	
	07/16/2025	<i>Aedes melanimon</i>	1	0.7%	
	07/16/2025	<i>Aedes vexans</i>	2	1.4%	
	07/16/2025	<i>Anopheles freeborni</i>	14	9.7%	
	07/16/2025	<i>Culex pipiens</i>	5	3.5%	
	07/16/2025	<i>Culex tarsalis</i>	121	84.0%	
		Total	144		

LC-062	CDC Light Trap	Berthoud Golf Course				 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/16/2025	<i>Aedes increpitus</i>	3	3.2%	
		07/16/2025	<i>Aedes melanimon</i>	1	1.1%	
		07/16/2025	<i>Aedes vexans</i>	36	37.9%	
		07/16/2025	<i>Anopheles freeborni</i>	2	2.1%	
		07/16/2025	<i>Culex pipiens</i>	2	2.1%	
		07/16/2025	<i>Culex tarsalis</i>	51	53.7%	
			Total	95		

WC-055	CDC Light Trap	Weld	Berthoud East				 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
			07/16/2025	<i>Aedes dorsalis</i>	1	1.8%	
			07/16/2025	<i>Aedes melanimon</i>	9	16.1%	
			07/16/2025	<i>Aedes vexans</i>	2	3.6%	
			07/16/2025	<i>Culex tarsalis</i>	44	78.6%	
				Total	56		



		TOTAL	%
	<i>Aedes-Oc</i>	184	19.5%
	<i>Anopheles</i>	17	1.8%
	<i>Culex</i>	740	78.5%
	<i>Culiseta</i>	2	0.2%
	<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: 29	Mean abundance of females per trap night ¹		Estimate for proportion of females infected with WNV ²		Vector Index		
	<i>Cx. pipiens</i>	<i>Cx. tarsalis</i>	<i>Cx. pipiens</i>	<i>Cx. tarsalis</i>	<i>Cx. pipiens</i>	<i>Cx. tarsalis</i>	All <i>Culex</i> ⁵
FC – Zone NW	4.67	56.11	0.00	0.01	0.00	0.63	0.47
FC – Zone NE	19.00	57.90	0.01	0.01	0.13	0.60	0.71
FC – Zone SE	7.20	55.93	0.02	0.02	0.12	0.86	1.00
FC – Zone SW	4.33	30.11	0.02	0.01	0.08	0.24	0.35
FC – Citywide	8.81	51.02	0.01	0.01	0.08	0.63	0.69
LV	1.67	77.67	0.00	0.01	0.00	1.03	1.03
BE	3.70	70.30	0.03	0.01	0.11	0.89	1.01
BC	6.00	171.60	0.00	0.00	0.00	0.00	0.00

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	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average			
23	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0.12	0	0	0	0.04	0	0	0	
26	0.1	0	0	0	0.06	0.02	0	0	0.05	0	0.17	0	
27	0	0	0.09	0	0.17	0.06	0.1	0	0.11	0.02	0.16	0.22	
28	0.06	0.02	0.29	0.03	0.61	0.28	0.21	0.09	0.34	0.13	0.55	0.44	
29	0.47	0.19	0.71	0.36	1	0.34	0.35	0.21	0.69	0.29	1.03	1.01	0
30		0.10		0.37		0.31		0.25		0.27			
31		0.18		0.14		0.72		0.19		0.38			
32		0.26		0.32		0.35		0.30		0.34			
33		0.19		0.68		0.30		0.30		0.38			
34		0.19		0.51		0.50		0.35		0.44			
35		0.09		0.45		0.42		0.13		0.30			
36		0.06		0.11		0.12		0.01		0.10			
37		0.01		0.30		0.04		0.00		0.09			

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

Week: 29	Total number females collected			Number CDC light trap nights	Mean abundance of females per CDC light trap night		
	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>		Cx. <i>pipiens</i> ¹	Cx. <i>tarsalis</i> ²	All <i>Culex</i> ³
FC – Zone NW	42	505	547	9	4.67	56.11	60.78
FC – Zone NE	190	579	769	10	19.00	57.90	76.90
FC – Zone SE	108	839	947	15	7.20	55.93	63.13
FC – Zone SW	39	271	310	9	4.33	30.11	34.44
FC – Citywide	379	2194	2573	43	8.81	51.02	59.84
LV	10	466	476	6	1.67	77.67	79.33
BE	37	703	740	10	3.70	70.30	74.00
BC	30	858	888	5	6.00	171.60	177.60

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	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹			
23	1.89	4.68	6.2	4.33	1	7.59	0.89	7.3	2.37	5.43	2.33	3.1	
24	1.78	6.26	2.7	7.36	8.47	8.74	2.56	3.88	4.49	7.02	21.6	17.4	
25	3.78	7.39	18.4	14.29	30.53	23.32	10.56	4.57	17.93	14.17	99.67	7	
26	6.22	40.54	28.7	53.35	22.2	86.63	15.56	29.97	18.98	58.81	87.17	22.7	
27	24.33	28.4	53.8	107.91	67.4	152.6	57.33	19.06	53.12	89.1	183	59.11	
28	16.56	72.27	56.1	130.91	104.93	223.86	65	84.61	66.72	144.74	97.5	84.6	
29	60.78	98.68	76.9	221.76	63.13	208.2	34.44	84.2	59.84	164.99	79.33	74	177.6
30		62.11		180.65		112.11		50.21		106.77			
31		40.68		114.24		118.81		29.6		84.04			
32		39.51		122.44		79.38		38.14		73.89			
33		32.64		113.47		65.86		33.09		64.41			
34		33.13		105.4		54.12		25.89		56.95			
35		16.82		50.67		33.84		12.09		30.16			
36		9.45		45.24		17.62		6.13		20.13			
37		5.6		69.66		18.72		4.31		24.95			

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

Week: 29	Total number individuals examined			Total number pools examined			Total number WNV-infected pools			Estimate for WNV infection rate per 1,000 females ¹		
	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>
FC – Zone NW	42	505	547	11	17	28	0	5	5	0	11.3	7.8
FC – Zone NE	190	579	769	16	18	34	2	5	7	6.8	10.4	9.2
FC – Zone SE	108	839	947	16	24	40	4	10	14	16.2	15.3	15.8
FC – Zone SW	39	271	310	8	10	18	1	2	3	18.9	8.1	10.2
FC – Citywide	379	2194	2573	51	69	120	7	22	29	9.1	12.4	11.5
LV	10	466	476	4	13	17	0	5	5	0	13.3	13
BE	37	703	740	8	18	26	1	7	8	29	12.6	13.7
BC	30	858	888	0	5	5	0	0	0	0	0	0

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	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average			
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	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.90	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00
26	16.50	0.00	0.00	0.00	2.90	0.00	0.00	0.00	2.40	0.00	1.90	0.00	0.00
27	0.00	0.00	1.70	0.00	2.50	0.10	1.80	0.00	2.00	0.10	0.90	0.10	3.70
28	3.50	0.10	5.10	0.30	5.80	0.60	3.20	0.60	5.10	0.50	5.60	0.20	5.20
29	7.80	0.90	9.20	0.90	14.60	1.10	10.20	1.00	11.10	1.00	13.00	2.50	13.70
30		0.70		1.10		2.50		1.60		1.60			
31		3.40		1.40		4.60		4.60		3.40			
32		7.50		3.50		5.20		9.00		5.20			
33		5.50		7.40		5.40		6.30		6.80			
34		6.40		6.90		8.50		10.50		7.70			
35		5.20		8.70		12.20		10.70		8.20			
36		12.50		2.90		5.60		4.10		4.70			
37		2.30		2.30		0.90		0.00		2.20			