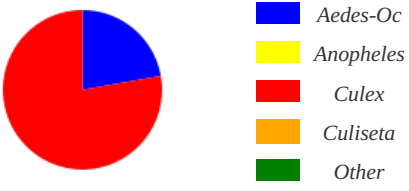


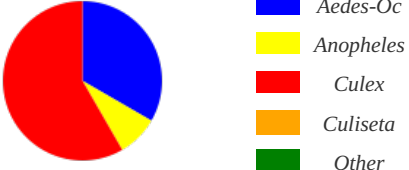


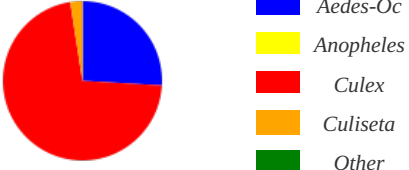
Adult Trap Data - Detail

Start Date: 07/01/2025 End Date: 07/02/2025

Berthoud

Trap #		Date	Species	Count	Percent		
LC-001	CDC Light Trap	Larimer	Berthoud Park				
		07/02/2025	<i>Aedes dorsalis</i>	2	2.0%		
		07/02/2025	<i>Aedes melanimon</i>	2	2.0%		
		07/02/2025	<i>Aedes trivittatus</i>	4	4.0%		
		07/02/2025	<i>Aedes vexans</i>	14	14.1%		
		07/02/2025	<i>Culex pipiens</i>	3	3.0%		
		07/02/2025	<i>Culex tarsalis</i>	74	74.7%		
			Total	99			

LC-049	CDC Light Trap	Larimer	Berthoud North				
		07/02/2025	<i>Aedes dorsalis</i>	4	33.3%		
		07/02/2025	<i>Anopheles earlei</i>	1	8.3%		
		07/02/2025	<i>Culex tarsalis</i>	7	58.3%		
			Total	12			

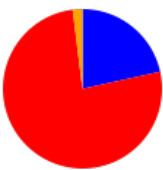
LC-053	CDC Light Trap	Larimer	Berthoud West				
		07/02/2025	<i>Aedes dorsalis</i>	3	3.7%		
		07/02/2025	<i>Aedes melanimon</i>	3	3.7%		
		07/02/2025	<i>Aedes vexans</i>	15	18.5%		
		07/02/2025	<i>Culex tarsalis</i>	58	71.6%		
		07/02/2025	<i>Culiseta inornata</i>	2	2.5%		
			Total	81			

LC-054	CDC Light Trap	Larimer	Berthoud Point				
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Trap #	Date	Species	Count	Percent	 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
	07/02/2025	<i>Aedes dorsalis</i>	2	1.7%	
	07/02/2025	<i>Aedes melanimon</i>	1	0.8%	
	07/02/2025	<i>Aedes vexans</i>	5	4.1%	
	07/02/2025	<i>Anopheles freeborni</i>	1	0.8%	
	07/02/2025	<i>Culex pipiens</i>	3	2.5%	
	07/02/2025	<i>Culex tarsalis</i>	108	89.3%	
	07/02/2025	<i>Culiseta inornata</i>	1	0.8%	
		Total	121		

LC-058	CDC Light Trap	Berthoud Gateway			 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/02/2025	<i>Aedes dorsalis</i>	4 17.4%	
		07/02/2025	<i>Aedes vexans</i>	1 4.3%	
		07/02/2025	<i>Culex pipiens</i>	1 4.3%	
		07/02/2025	<i>Culex tarsalis</i>	17 73.9%	
		Total		23	

LC-059	CDC Light Trap	Berthoud Hillsdale			 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/02/2025	<i>Aedes melanimon</i>	1 1.8%	
		07/02/2025	<i>Aedes vexans</i>	15 27.3%	
		07/02/2025	<i>Culex pipiens</i>	1 1.8%	
		07/02/2025	<i>Culex tarsalis</i>	38 69.1%	
		Total		55	

LC-060	CDC Light Trap	Berthoud Pioneer			 - Aedes-Oc - Anopheles - Culex - Culiseta - Other
		07/02/2025	<i>Aedes dorsalis</i>	4 7.8%	
		07/02/2025	<i>Aedes melanimon</i>	1 2.0%	
		07/02/2025	<i>Aedes vexans</i>	6 11.8%	
		07/02/2025	<i>Culex pipiens</i>	1 2.0%	
		07/02/2025	<i>Culex tarsalis</i>	38 74.5%	
		07/02/2025	<i>Culiseta inornata</i>	1 2.0%	
		Total		51	

Trap #		Date	Species	Count	Percent		
LC-061	CDC Light Trap		Berthoud Reservoir				
		07/02/2025	<i>Aedes dorsalis</i>	1	0.6%		Aedes-Oc Anopheles Culex Culiseta Other
		07/02/2025	<i>Aedes melanimon</i>	2	1.1%		
		07/02/2025	<i>Aedes vexans</i>	8	4.4%		
		07/02/2025	<i>Anopheles freeborni</i>	13	7.2%		
		07/02/2025	<i>Culex tarsalis</i>	155	86.1%		
		07/02/2025	<i>Culiseta inornata</i>	1	0.6%		
			Total	180			

LC-062	CDC Light Trap	Berthoud Golf Course			
	07/02/2025	Trap Malfunction	0	NaN%	
		Total	0		

Aedes-Oc

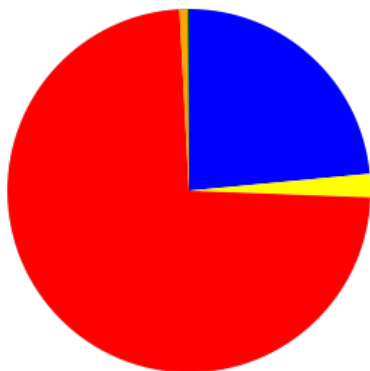
Anopheles

Culex

Culiseta

Other

WC-055	CDC Light Trap	Weld	Berthoud East				
		07/02/2025	<i>Aedes dorsalis</i>	23	22.8%		Aedes-Oc Anopheles Culex Culiseta Other
		07/02/2025	<i>Aedes melanimon</i>	45	44.6%		
		07/02/2025	<i>Aedes vexans</i>	4	4.0%		
		07/02/2025	<i>Coquillettidia perturbans</i>	1	1.0%		
		07/02/2025	<i>Culex tarsalis</i>	28	27.7%		
			Total	101			



		TOTAL	%
■	<i>Aedes-Oc</i>	170	23.5%
■	<i>Anopheles</i>	15	2.1%
■	<i>Culex</i>	532	73.6%
■	<i>Culiseta</i>	5	0.7%
■	<i>Other</i>	1	0.1%

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: 27	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	19.67	0.0000	0.0000	0.00	0.00	0.00
FC – Zone NE	6.50	47.30	0.0000	0.0021	0.00	0.10	0.09
FC – Zone SE	4.20	63.20	0.0000	0.0033	0.00	0.21	0.17
FC – Zone SW	4.67	52.67	0.0000	0.0020	0.00	0.11	0.10
FC – Citywide	4.93	48.19	0.0000	0.0025	0.00	0.12	0.11
LV	4.33	178.67	0.0000	0.0009	0.00	0.16	0.16
BE	1.00	58.11	0.0000	0.0038	0.00	0.22	0.22
BC			0.0000	0.0051			

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
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	NA
25	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.04	0.00	0.00	0.00	NA
26	0.10	0.00	0.00	0.00	0.06	0.02	0.00	0.00	0.05	0.00	0.17	0.00	NA
27	0.00	0.00	0.09	0.00	0.17	0.08	0.10	0.00	0.11	0.03	0.16	0.22	
28		0.03		0.03		0.34		0.10		0.16			
29		0.24		0.46		0.43		0.26		0.36			
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: 27	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	177	219	9	4.67	19.67	24.33
FC – Zone NE	65	473	538	10	6.50	47.30	53.80
FC – Zone SE	63	948	1011	15	4.20	63.20	67.40
FC – Zone SW	42	474	516	9	4.67	52.67	57.33
FC – Citywide	212	2072	2284	43	4.93	48.19	53.12
LV	26	1072	1098	6	4.33	178.67	183.00
BE	9	523	532	9	1.00	58.11	59.11
BC							

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	6.20	4.33	1.00	7.59	0.89	7.30	2.37	5.43	2.33	3.10	
24	1.78	6.17	2.70	8.36	8.47	8.27	2.56	4.54	4.49	7.26	18.00	17.40	
25	3.78	9.11	18.40	17.87	30.53	25.62	10.56	5.11	17.93	16.34	99.67	7.00	
26	6.22	48.46	28.70	66.53	22.20	101.80	15.56	34.38	18.98	70.23	87.17	22.70	
27	24.33	29.22	53.8	125.9	67.4	187.47	57.33	20.87	53.12	106.27	183	59.11	
28		85.73		153.75		244.92		107.50		166.13			
29		120.80		276.28		251.97		106.05		202.97			
30		69.09		216.33		133.16		62.95		127.25			
31		44.00		136.50		139.23		31.42		97.85			
32		39.10		148.40		94.54		47.03		87.48			
33		34.80		123.73		79.26		39.07		73.60			
34		38.22		131.93		64.90		32.12		69.64			
35		18.74		55.77		41.10		15.25		35.11			
36		9.53		50.37		21.68		7.38		23.08			
37		5.50		82.02		23.05		5.25		29.55			

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

Week: 27	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	177	219	9	10	19	0	0	0	0	0	0
FC – Zone NE	65	473	538	10	15	25	0	1	1	0	2.1	1.7
FC – Zone SE	63	948	1011	18	30	48	0	3	3	0	3.3	2.5
FC – Zone SW	42	474	516	7	16	23	0	1	1	0	2	1.8
FC – Citywide	212	2072	2284	44	71	115	0	5	5	0	2.5	2
LV	26	1072	1098	4	25	29	0	1	1	0	0.9	0.9
BE	9	523	532	5	16	21	0	2	2	0	3.8	3.7
BC				0	5	5	0	1	1	0	5.1	5.1

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	0.01
27	0.00	0.00	1.70	0.00	2.50	0.10	1.80	0.00	2.00	0.10	0.90	3.70	5.10
28		0.10		0.10		0.70		0.20		0.40			
29		0.70		1.10		1.20		0.50		1.00			
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			
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