



CITY OF FORT COLLINS AUGUST 2024 MONTHLY REPORT

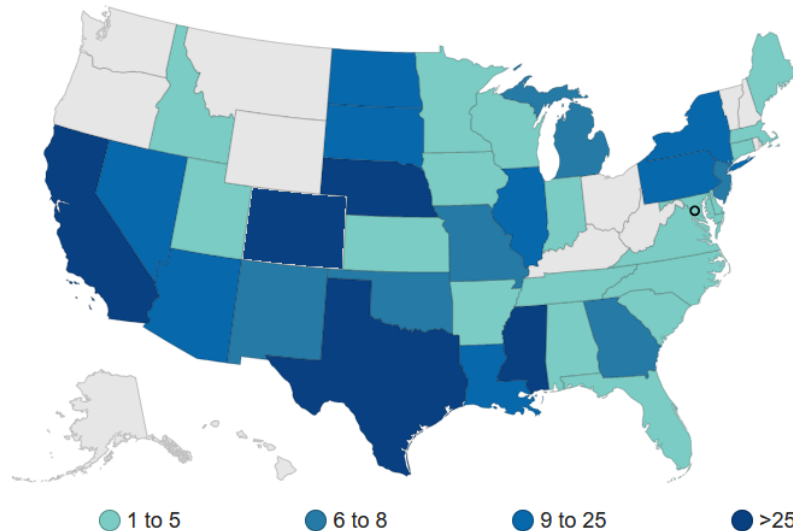
SEPTEMBER 9TH, 2024

West Nile Virus Risk

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 23 (June 2nd). As of September 9th, there have been (41) reported positive West Nile virus human case in the state of Colorado. Cases in Colorado have been reported in the following counties: Adams (4), Arapahoe (4), Boulder (6), Broomfield (4), Delta, (2), Denver (1), Douglas (1), El Paso (1), Fremont (2), Jefferson (2), Kit Carson (1), La Plata (1), Larimer (3), Mesa (1), and Weld (8).

As of September 3rd, the Centers for Disease Control and Prevention currently reports human West Nile virus infections in (39) states. Please note that reporting from states may be delayed, and CDC reports may be slightly behind reports from individual states. West Nile virus activity has been found in mosquito samples and human cases in Northern Colorado, and although we have seen a decreased disease risk going into September, we strongly still encourage personal protective measures including draining water from your property, avoiding the outdoors at dawn and dusk, defending yourself by wearing repellent and dressing appropriately

West Nile virus human disease cases reported by state of residence, 2024



In August 2024 Colorado State University (CSU) tested a total of 473 mosquito samples containing 6,792 mosquitoes. These samples consisted of 3,501 *Cx. tarsalis* and 3,291 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

By comparison, in August 2023 Colorado State University (CSU) tested a total of 580 mosquito samples containing 10,787 mosquitoes. These samples consisted of 6,898 *Cx. tarsalis* and 3,889 *Cx. Papiens* collected from the Fort Collins, Loveland, and Berthoud areas.

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Wear Your Repellent!

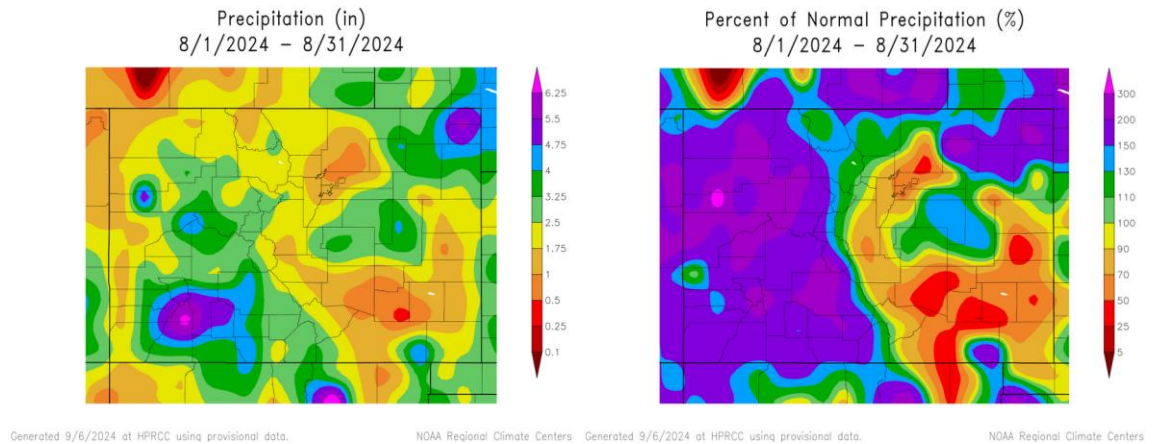
Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

DEET products generally provide the longest protection. The other repellents work but must be applied more frequently.

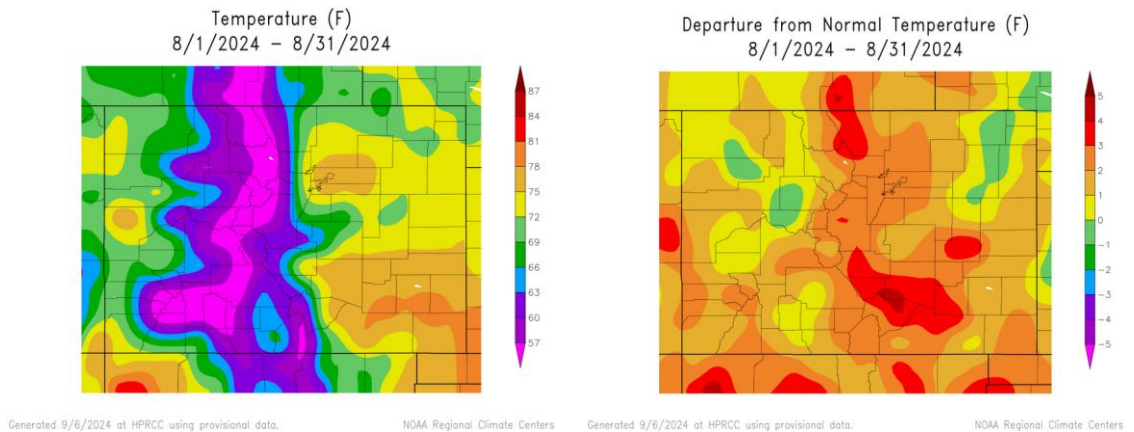
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

Weather

For much of the spring/summer of 2024, Northern Colorado has been hot and dry. In August 2024 however, Northern Colorado received some much-needed precipitation. The total number of Culex caught and tested in Larimer County during August 2024 decreased 37.04% from the numbers caught and tested in August 2023. According to NOAA, accumulated precipitation in Fort Collins from April 1st to August 31st, 2024 was 5.60 inches, with the normal being measured at 9.72 inches.



The temperature in August was above average in 2024, with temperatures reaching +2 to +4 degrees Fahrenheit above normal in much of Larimer County.



Larval Control Operations

In August of 2024, VDCI field technicians performed 1,168 site inspections as part of the inspection and larviciding program for Fort Collins. Of those 1,168 site inspections, 857 (73.4%) of those were wet and 446 (52.0%) wet sites were producing mosquito larvae. A total of 383.6 acres of land were treated with 993.7 lbs of Vectobac (bti) and 0.4 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During August 2024, VDCI technicians performed site inspections at 2 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 142 stormdrains as part of the City of Fort Collins Urban larviciding program to control larval mosquito populations in storm drains and catch basins. Drains that were wet or had the potential to hold water were treated with long term larvicide products including Altosid pellets, briquettes, and VectoLex WSP (Bsph).

Mosquito Population Surveillance

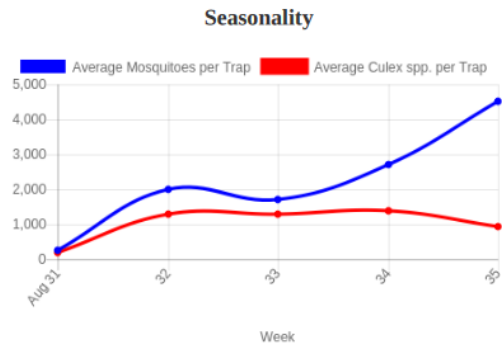
There were 220 traps set in Fort Collins during the month of August 2024. A total of 11,205 mosquitoes were collected. There were 5,909 (52.7%) *Aedes spp.*, 5,092 (45.4%) *Culex spp.* and 66 (0.6%) *Culiseta spp.* mosquitoes collected. On average there were 50.9 mosquitoes collected per night and 23.1 *Culex spp.* mosquitoes per trap night.

2024 Fort Collins Trap Composite Data

Total number of trap/nights set:	220
Total number of mosquitoes collected:	11,205.0
Average mosquitoes per trap/night:	50.9
Average Culex per trap/night:	23.1

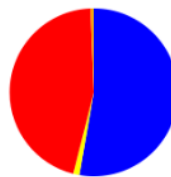
Species collected and abundance:

<i>Aedes dorsalis</i>	990.0	8.8%
<i>Aedes hendersoni</i>	12.0	0.1%
<i>Aedes increpitus</i>	30.0	0.3%
<i>Aedes melanimon</i>	86.0	0.8%
<i>Aedes nigromaculis</i>	8.0	0.1%
<i>Aedes trivittatus</i>	12.0	0.1%
<i>Aedes vexans</i>	4,771.0	42.6%
<i>Anopheles freeborni</i>	135.0	1.2%
<i>Coquillettia perturbans</i>	3.0	0.0%
<i>Culex pipiens</i>	3,030.0	27.0%
<i>Culex tarsalis</i>	2,062.0	18.4%
<i>Culiseta inornata</i>	66.0	0.6%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	5,909	52.7%
<i>Anopheles</i>	135	1.2%
<i>Culex</i>	5,092	45.4%
<i>Culiseta</i>	66	0.6%
Other	3	0.0%



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

Adult Mosquito Control Operations

There have been no adult mosquito control operations performed by the City of Fort Collins to date.

VDCI has been privately contracted to perform adult mosquito control for Countryside HOA, Greenstone HOA, Willow Springs HOA, and Lindenwood HOA during the 2024 season. A total of 8.63 road miles within these neighborhoods were sprayed via ground-based vehicles with Ultra Low Volume (ULV) AquaPerm-X mosquito adulticides to reduce adult mosquito populations on the dates listed below.

Date	Zone	Spray Miles	Ounces Sprayed
8/7/2024	LHOA - Willow Springs Spray Zone	3.79	135.93
8/7/2024	LHOA - Countryside Spray Zone	1.49	52.53
8/28/2024	LHOA - Willow Springs Spray Zone	3.35	127.41
Totals		8.63	315.87

Public Relations

VDCI received 2 phone calls from City of Fort Collins residents in August 2024. VDCI received 2 calls from residents reporting larval mosquito sites in their area. VDCI inspected all the reported sites and added new sites if found producing mosquito larvae and were not already part of our regular inspection program.