



CITY OF FORT COLLINS JUNE 2024 MONTHLY REPORT

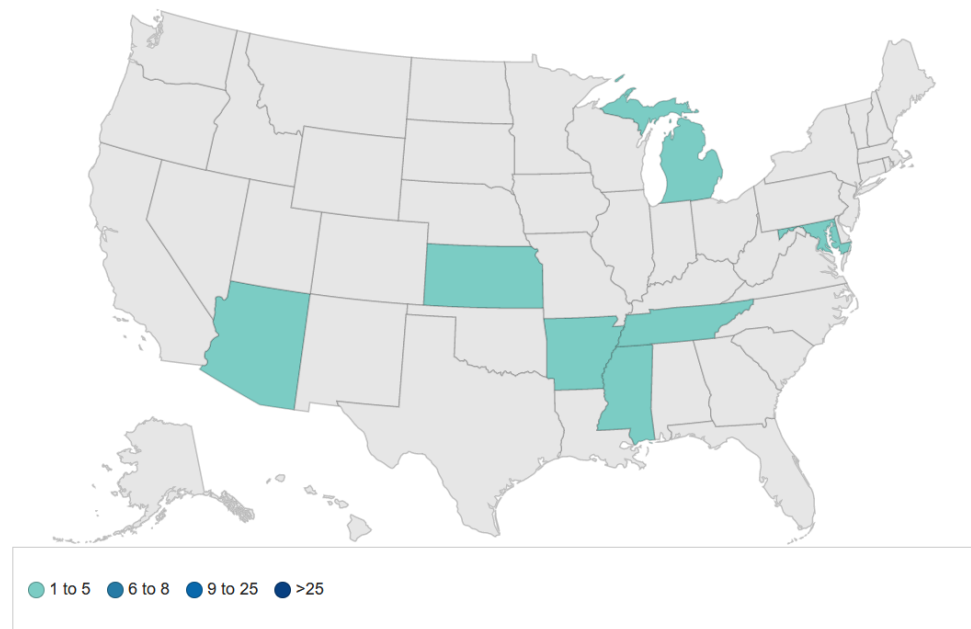
JULY 1ST, 2024

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 July 1st, there has been one reported positive West Nile virus human case in the state of Colorado. The case has been reported in Arapahoe County.

The Centers for Disease Control and Prevention currently reports human West Nile virus infections in seven states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in eighteen states. As of July 1st, West Nile virus activity has not been found in mosquito samples in Northern Colorado, however we are likely to see increased disease risk as the summer progresses and 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 June 2024 Colorado State University (CSU) tested a total of 265 mosquito samples containing 2,061 mosquitoes. These samples consisted of 1,491 *Cx. tarsalis* and 570 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

By comparison, in June 2023 Colorado State University (CSU) tested a total of 523 mosquito samples containing 12,224 mosquitoes. These samples consisted of 11,352 *Cx. tarsalis* and 872 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

Contact VDCI:

Northern Colorado

Operations Manager

Will Schlatmann

Phone

(970)278-9977

E-Mail:

wschlatmann@vdc.net

Website:

www.vdc.net

Main Office:

General E-Mail:
info@vdc.net

Toll Free:
(877) 276-4306

7230 W. 118th Pl., Unit C,
Broomfield, CO 80020
303-428-5908

Weather

Wear Your Repellent!

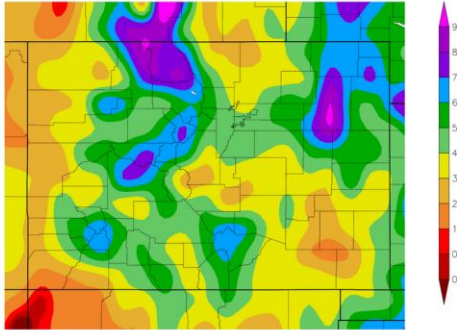
Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

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.

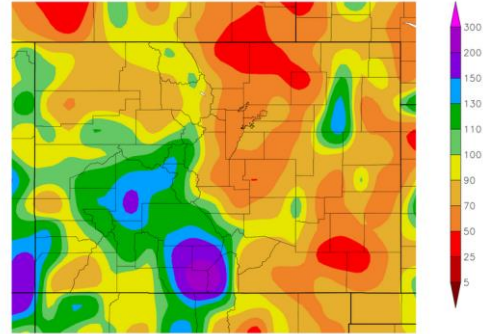
Spring 2024 in Northern Colorado has been a sharp contrast compared to last year. Spring 2024 in northern Colorado has been hot and dry. With the lack of precipitation and the excess heat to dry up standing water sources, recorded mosquito abundances were significantly lower from the last year. The total number of *Culex* caught and tested in Larimer County during June 2024 decreased 86.9% from the numbers caught and tested in June 2023. According to NOAA, accumulated precipitation in Fort Collins from April 1st to July 30th 2024 was 2.82 inches, with the normal being measured at 6.67 inches.

Precipitation (in)
4/2/2024 - 6/30/2024



Generated 7/1/2024 at HPRCC using provisional data.

Percent of Normal Precipitation (%)
4/2/2024 - 6/30/2024

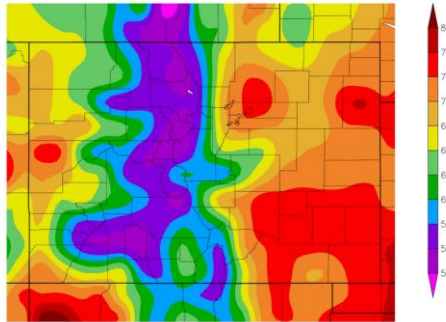


NOAA Regional Climate Centers Generated 7/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

The temperature in June was above average in 2024, with temperatures reaching +4 to 6 degrees Fahrenheit above normal in much of Larimer County.

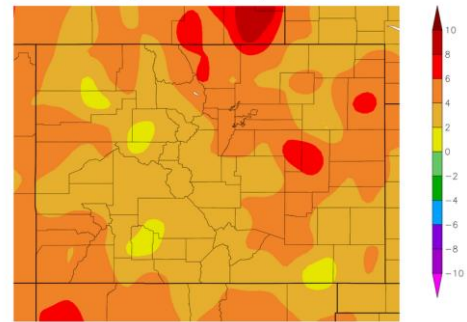
Temperature (F)
6/1/2024 - 6/30/2024



Generated 7/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)
6/1/2024 - 6/30/2024



Generated 7/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Larval Control Operations

In June of 2024, VDCI field technicians performed 2,047 site inspections as part of the inspection and larviciding program for Fort Collins. Of those 2,047 site inspections, 1,463 (71.5%) of those were wet and 641 (43.8%) wet sites were producing mosquito larvae. A total of 843.6 acres of land were treated with 2,358.0 lbs of Vectobac (bti) and 4.9 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During June 2024, VDCI technicians performed site inspections at 4 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 49 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

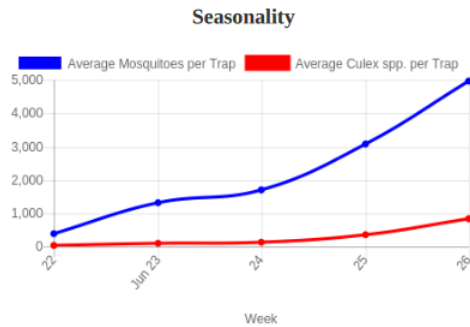
There were 208 traps set in Fort Collins during the month of June 2024. A total of 11,486 mosquitoes were collected. There were 9,217 (80.2%) *Aedes spp.*, 1,498 (13.0%) *Culex spp.* and 130 (1.1%) *Culiseta spp.* mosquitoes collected. On average there were 55.2 mosquitoes collected per night and 7.2 *Culex spp.* mosquitoes per trap night.

2024 Fort Collins Trap Composite Data

Total number of trap/nights set:	208
Total number of mosquitoes collected:	11,486.0
Average mosquitoes per trap/night:	55.2
Average Culex per trap/night:	7.2

Species collected and abundance:

<i>Aedes cinereus</i>	85.0	0.7%
<i>Aedes dorsalis</i>	751.0	6.5%
<i>Aedes hendersoni</i>	8.0	0.1%
<i>Aedes increpitus</i>	3,015.0	26.2%
<i>Aedes melanimon</i>	371.0	3.2%
<i>Aedes trivittatus</i>	3.0	0.0%
<i>Aedes vexans</i>	4,984.0	43.4%
<i>Anopheles freeborni</i>	106.0	0.9%
<i>Coquillettidia perturbans</i>	535.0	4.7%
<i>Culex pipiens</i>	549.0	4.8%
<i>Culex tarsalis</i>	949.0	8.3%
<i>Culiseta incidens</i>	4.0	0.0%
<i>Culiseta inornata</i>	126.0	1.1%
Trap Stolen	0.0	0.0%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	9,217	80.2%
<i>Anopheles</i>	106	0.9%
<i>Culex</i>	1,498	13.0%
<i>Culiseta</i>	130	1.1%
Other	535	4.7%



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 14.38 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
6/5/2024	LHOA - Countryside Spray Zone	1.47	57.07
6/5/2024	LHOA - Willow Springs Spray Zone	3.05	109.11
6/5/2024	LHOA - Greenstone HOA Spray Zone	2.63	92.54
6/19/2024	LHOA - Lindenwood HOA Spray Zone	2.21	79.85
6/26/2024	LHOA - Willow Springs Spray Zone	2.76	98.73
6/26/2024	LHOA - Lindenwood HOA Spray Zone	2.26	80.73
Totals		14.38	518.03

Public Relations

VDCI received 2 phone calls from City of Fort Collins residents in June 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.