



CITY OF FORT COLLINS JULY 2024 MONTHLY REPORT

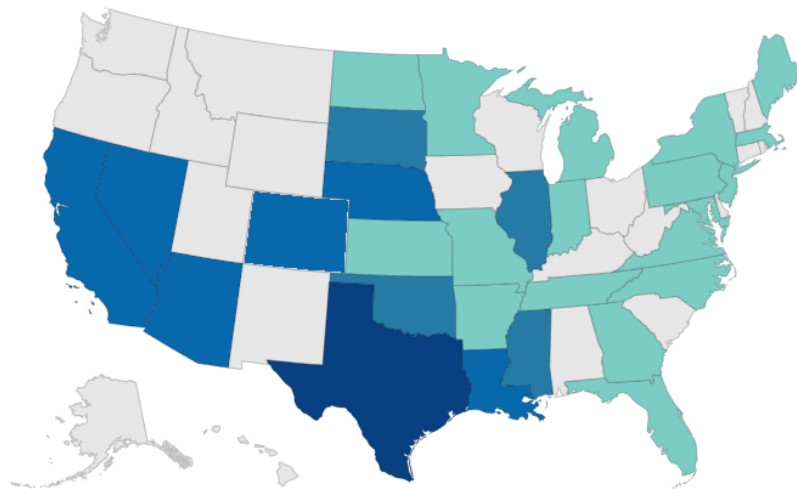
AUGUST 19TH, 2024

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 August 14th, there has been (13) reported positive West Nile virus human case in the state of Colorado. Cases in Colorado have been reported in the following counties: Arapahoe (3), Delta, (1), Jefferson (1), Kit Carson (1), La Plata (1), Larimer (2), Mesa (1), and Weld (3).

As of August 13th, the Centers for Disease Control and Prevention currently reports human West Nile virus infections in (30) 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 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



● 1 to 5 ● 6 to 8 ● 9 to 25 ● >25

In July 2024 Colorado State University (CSU) tested a total of 532 mosquito samples containing 8,536 mosquitoes. These samples consisted of 5,458 *Cx. tarsalis* and 3,078 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

By comparison, in July 2023 Colorado State University (CSU) tested a total of 1,357 mosquito samples containing 54,890 mosquitoes. These samples consisted of 50,451 *Cx. tarsalis* and 4,439 *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!

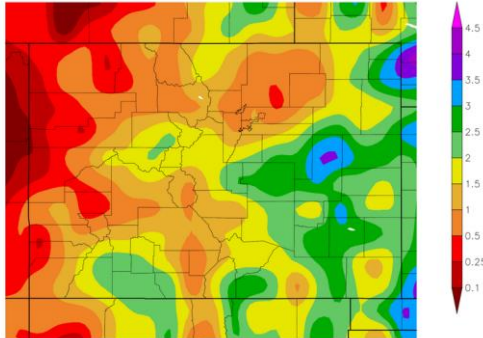
Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

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/Summer 2024 in Northern Colorado has been a sharp contrast compared to last year. The weather in Northern Colorado has been hot and dry so far in 2024. 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 July 2024 decreased 84.4% from the numbers caught and tested in July 2023. According to NOAA, accumulated precipitation in Fort Collins from April 1st to July 31st, 2024 was 3.59 inches, with the normal being measured at 8.22 inches.

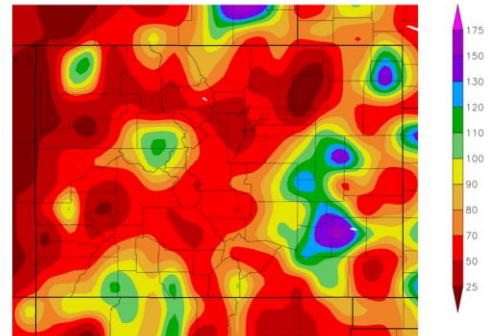
Precipitation (in)
7/1/2024 - 7/31/2024



Generated 8/10/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Percent of Normal Precipitation (%)
7/1/2024 - 7/31/2024

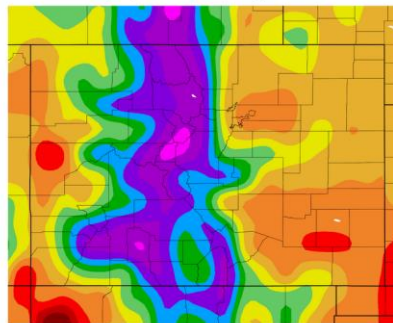


Generated 8/10/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

The temperature in July was above average in 2024, with temperatures reaching +1 to +2 degrees Fahrenheit above normal in much of Larimer County.

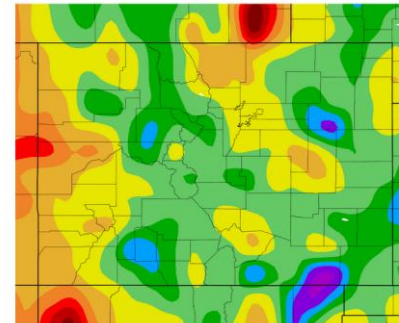
Temperature (F)
7/1/2024 - 7/31/2024



Generated 8/10/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)
7/1/2024 - 7/31/2024



Generated 8/10/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Larval Control Operations

In July of 2024, VDCI field technicians performed 2,257 site inspections as part of the inspection and larviciding program for Fort Collins. Of those 2,257 site inspections, 1,587 (70.3%) of those were wet and 840 (52.9%) wet sites were producing mosquito larvae. A total of 952.2 acres of land were treated with 2,596.8 lbs of Vectobac (bti) and 3.1 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During July 2024, VDCI technicians performed site inspections at 6 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 450 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

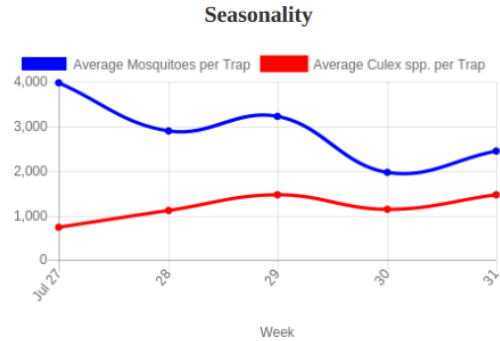
There were 251 traps set in Fort Collins during the month of July 2024. A total of 14,520 mosquitoes were collected. There were 7,590 (52.3%) *Aedes spp.*, 5,920 (40.8%) *Culex spp.* and 212 (1.5%) *Culiseta spp.* mosquitoes collected. On average there were 57.8 mosquitoes collected per night and 23.6 *Culex spp.* mosquitoes per trap night.

2024 Fort Collins Trap Composite Data

Total number of trap/nights set:	251
Total number of mosquitoes collected:	14,520.0
Average mosquitoes per trap/night:	57.8
Average Culex per trap/night:	23.6

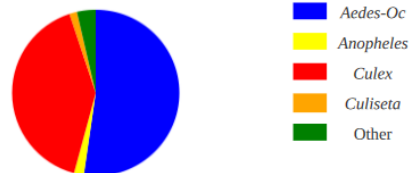
Species collected and abundance:

<i>Aedes cinereus</i>	27.0	0.2%
<i>Aedes dorsalis</i>	413.0	2.8%
<i>Aedes hendersoni</i>	4.0	0.0%
<i>Aedes idahoensis</i>	1.0	0.0%
<i>Aedes increpitus</i>	1,936.0	13.3%
<i>Aedes melanimon</i>	560.0	3.9%
<i>Aedes trivittatus</i>	3.0	0.0%
<i>Aedes vexans</i>	4,646.0	32.0%
<i>Anopheles freeborni</i>	276.0	1.9%
<i>Coquillettidia perturbans</i>	522.0	3.6%
<i>Culex pipiens</i>	2,930.0	20.2%
<i>Culex tarsalis</i>	2,990.0	20.6%
<i>Culiseta inornata</i>	212.0	1.5%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	7,590	52.3%
<i>Anopheles</i>	276	1.9%
<i>Culex</i>	5,920	40.8%
<i>Culiseta</i>	212	1.5%
Other	522	3.6%



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 11.12 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
7/10/2024	LHOA - Countryside Spray Zone	1.66	62.36
7/17/2024	LHOA - Willow Springs Spray Zone	3.74	132.19
7/3/2024	LHOA - Lindenwood HOA Spray Zone	3.54	126.58
7/10/2024	LHOA - Lindenwood HOA Spray Zone	2.18	77.44
Totals		11.12	398.57

Public Relations

VDCI received 3 phone calls from City of Fort Collins residents in July 2024. VDCI received 1 call 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. VDCI received 1 mosquito annoyance call from residents of the City of Fort Collins, who were requesting information on how the decisions on adulticiding are made. VDCI provided the relevant information and directed them to our website for further information about the products used. VDCI received 1 phone call from residents regarding upcoming adult mosquito control applications. All relevant questions were answered, and the residents were guide to www.fcgov.com/westnile for further information.