



CITY OF FORT COLLINS JUNE 2023 MONTHLY REPORT

JULY 14TH, 2023

West Nile Virus Risk

Contact VDCI:

Northern
Colorado

Operations
Manager

Will Schlatmann

Phone

(970)278-9977

E-Mail:

wschlatmann@
vdcI.net

Website:

www.vdcI.net

Main Office:

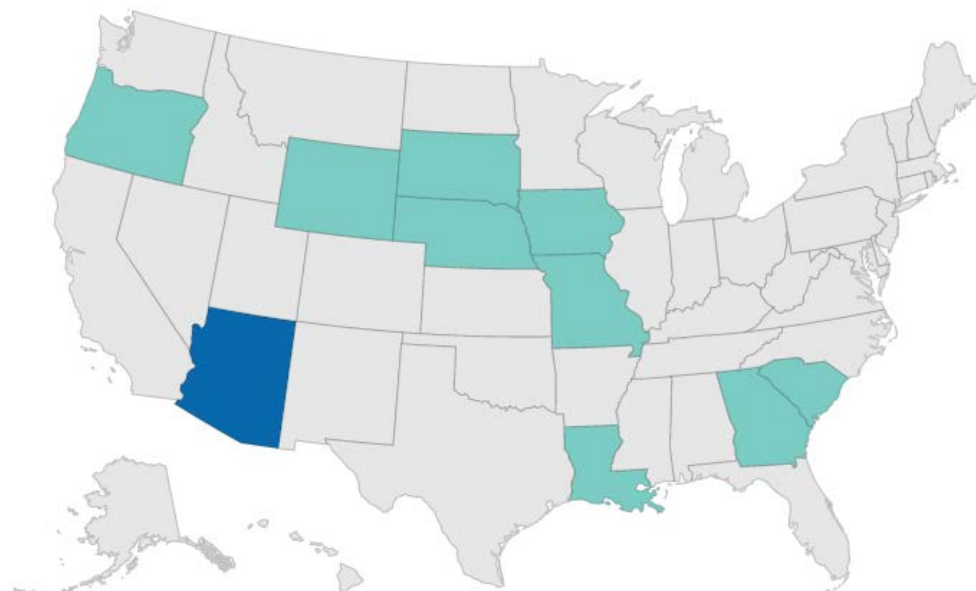
General E-Mail:
info@vdcI.net
Toll Free:
(877) 276-4306

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

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 23 (June 4th). As of July 14th there have been no reported positive West Nile virus mosquitoes or human cases in the state of Colorado.

The Centers for Disease Control and Prevention most currently reports human West Nile virus infections in ten states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in fourteen states. West Nile virus activity has been found in mosquito samples 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, 2023



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. Pipiens* collected from the Fort Collins, Loveland and Berthoud areas.

By comparison, in June 2022 Colorado State University (CSU) tested a total of 285 mosquito samples containing 2,805 mosquitoes. These samples consisted of 2,258 *Cx. tarsalis* and 547 *Cx. Pipiens* collected from the Fort Collins, Loveland and Berthoud areas.

Weather

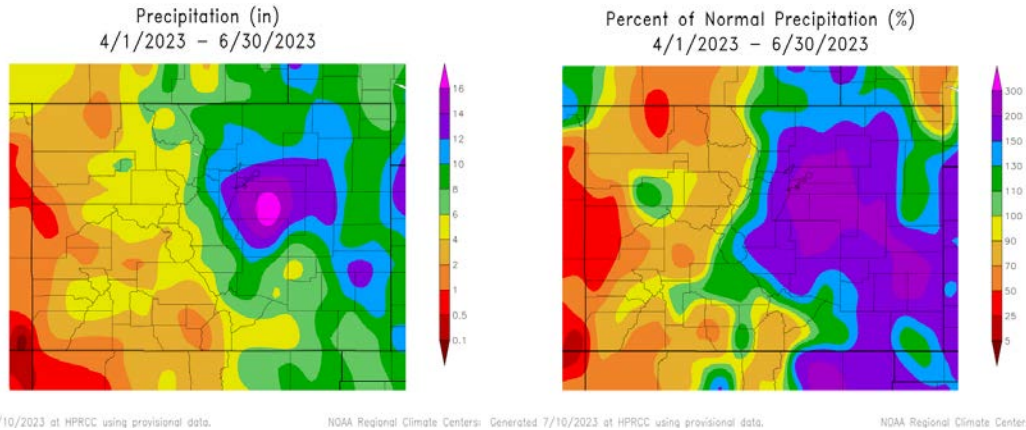
Wear Your Repellent!

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

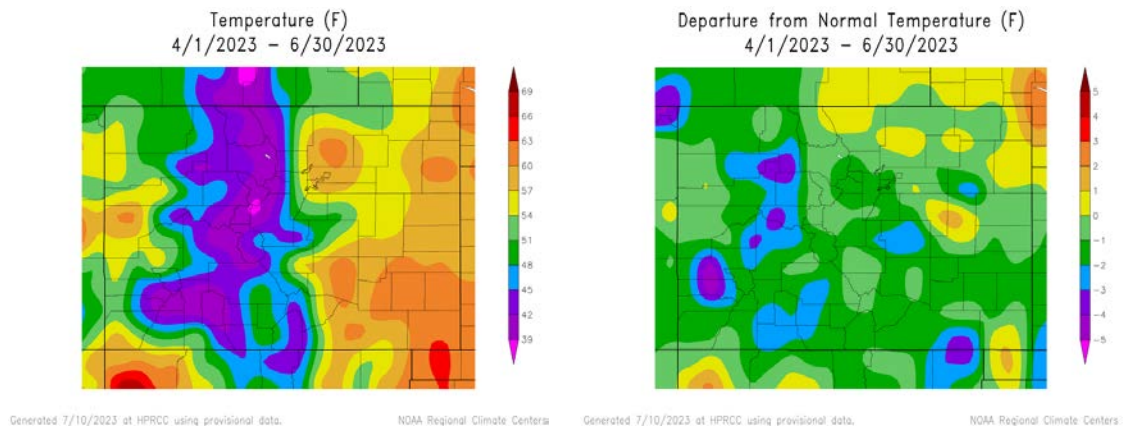
DEET products generally provide the longest protection. The other repellents work but must be applied more frequently.

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

Spring 2023 in Northern Colorado, was marked by excessive precipitation. The rain in May and June was historic in Colorado, with some areas breaking records set in the late 1800s and others seeing a 300% increase of the average precipitation. Colorado snowpack levels for the past winter were 140% of average by early April, and The South Platte Basin was at 107%. With all the excess precipitation, recorded mosquito abundances were markedly increased from the average year. The total number of Culex caught and tested in Larimer County during June 2023 increased 300.47% from the numbers caught and tested in June 2022.



The temperature in June was generally around average in 2023. Temperature varied from -1 to +1 degree Fahrenheit in both Larimer and Weld counties.



Larval Control Operations

In June of 2023, VDCI field technicians performed 2,147 site inspections as part of the inspection and larviciding program for Fort Collins. Of those 2,147 site inspections, 1,792 (83.5%) of those were wet and 879 (49.1%) wet sites were producing mosquito larvae. A total of 801.6 acres of land were treated with 3,255.9 lbs of Vectobac (bti) and 10.4 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During June 2023, VDCI technicians performed site inspections at 10 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 220 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

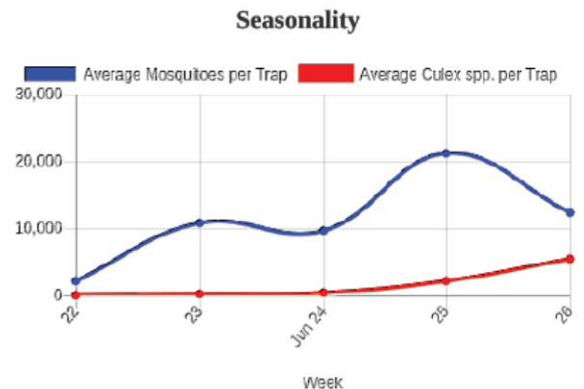
There were 212 traps set in Fort Collins during the month of June 2023. A total of 56,235 mosquitoes were collected. There were 47,441 (84.4%) *Aedes spp.*, 8,290 (14.7%) *Culex spp.* and 340 (0.6%) *Culiseta spp.* mosquitoes collected. On average there were 265.3 mosquitoes collected per night and 39.1 *Culex spp.* mosquitoes per trap night.

2023 Fort Collins Trap Composite Data

Total number of trap/nights set:	212
Total number of mosquitoes collected:	56,235.0
Average mosquitoes per trap/night:	265.3
Average Culex per trap/night:	39.1

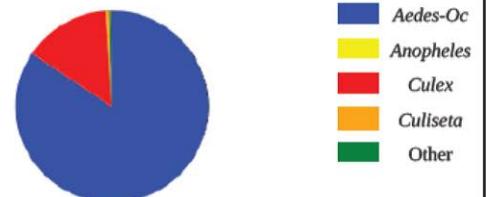
Species collected and abundance:

<i>Aedes cinereus</i>	123.0	0.2%
<i>Aedes dorsalis</i>	3,423.0	6.1%
<i>Aedes increpitus</i>	10,725.0	19.1%
<i>Aedes melanimon</i>	2,709.0	4.8%
<i>Aedes nigromaculis</i>	3.0	0.0%
<i>Aedes trivittatus</i>	21.0	0.0%
<i>Aedes vexans</i>	30,437.0	54.1%
<i>Anopheles freeborni</i>	10.0	0.0%
<i>Coquillettidia perturbans</i>	154.0	0.3%
<i>Culex pipiens</i>	813.0	1.4%
<i>Culex tarsalis</i>	7,477.0	13.3%
<i>Culiseta inornata</i>	340.0	0.6%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	47,441	84.4%
<i>Anopheles</i>	10	0.0%
<i>Culex</i>	8,290	14.7%
<i>Culiseta</i>	340	0.6%
Other	154	0.3%



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 2023 season. A total of 19.14 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
6/14/2023	LHOA - Greenstone HOA Spray Zone	1.47	52.81
6/15/2023	LHOA - Countryside HOA Spray Zone	1.8	64.26
6/21/2023	LHOA - Greenstone HOA Spray Zone	2.9	101.19
6/22/2023	LHOA - Willow Springs Spray Zone	3.64	128.86
6/28/2023	LHOA - Greenstone HOA Spray Zone	2.59	92.97
6/7/2023	LHOA - Lindenwood HOA Spray Zone	2.3	81.95
6/14/2023	LHOA - Lindenwood HOA Spray Zone	2.23	79.66
6/28/2023	LHOA - Lindenwood HOA Spray Zone	2.21	79

Totals	19.14	680.7
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Public Relations

VDCI received 7 phone calls from City of Fort Collins residents in June 2023. VDCI received 3 calls from residents reporting larval mosquito sites in their area. VDCI inspected all of the reported sites and added new sites if found producing mosquito larvae and were not already part of our regular inspection program. VDCI received 4 mosquito annoyance calls 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.