



CITY OF FORT COLLINS JULY 2023 MONTHLY REPORT

AUGUST 8TH, 2023

West Nile Virus Risk

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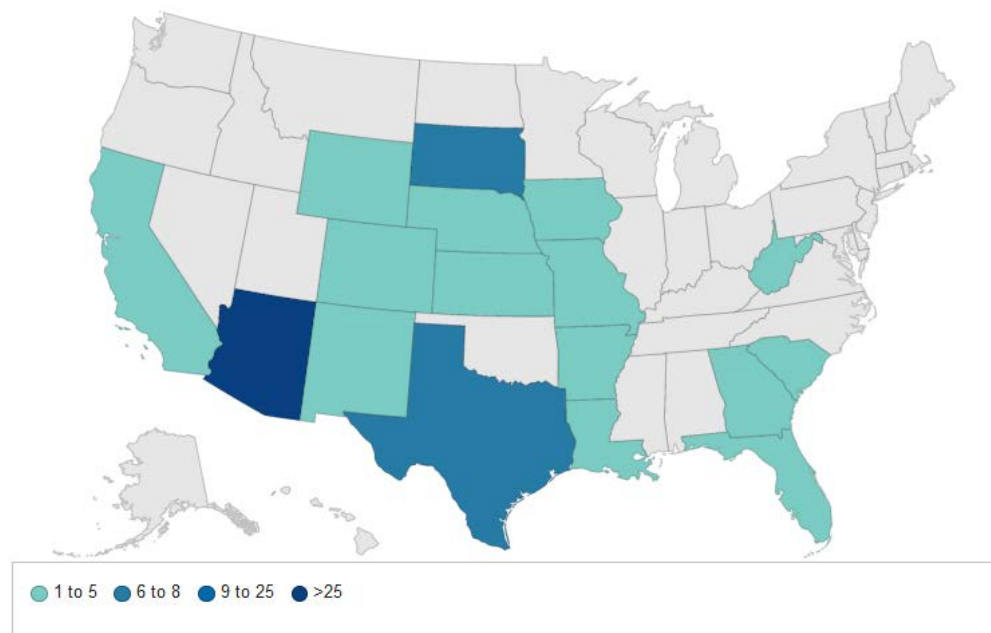
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Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 23 (June 4th). As of August 8th there have been reported positive West Nile virus mosquitoes and human cases in the state of Colorado, and in Larimer County.

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

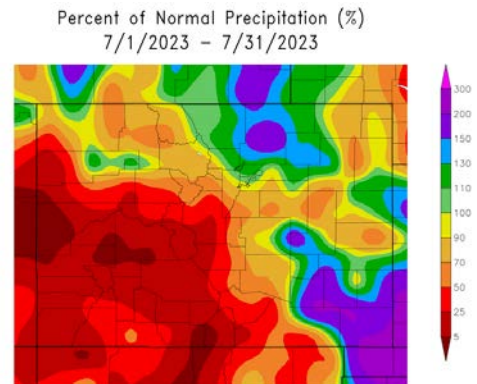
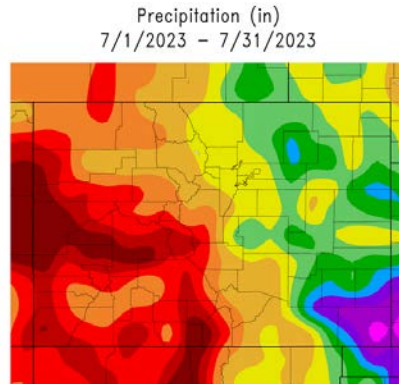


In July 2023 Colorado State University (CSU) tested a total of 1,357 mosquito samples containing 54,890 mosquitoes. These samples consisted of 50,451 *Cx. tarsalis* and 4,439 *Cx. Pipiens* collected from the Fort Collins, Loveland and Berthoud areas.

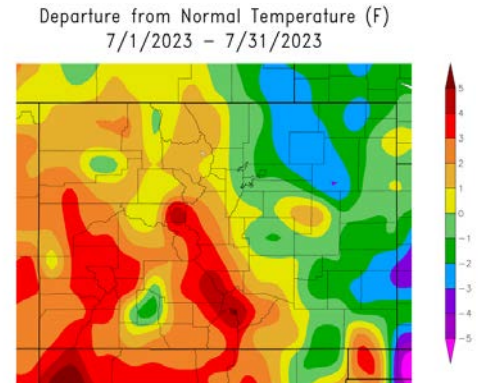
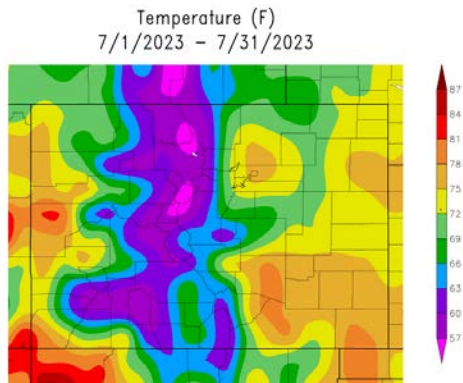
By comparison, In July 2022 Colorado State University (CSU) tested a total of 655 mosquito samples containing 18,707 mosquitoes. These samples consisted of 14,941 *Cx. tarsalis* and 3,766 *Cx. Pipiens* collected from the Fort Collins, Loveland and Berthoud areas.

Weather

Northern Colorado has seen historic amounts of precipitation this spring and summer. With the significant increase in rain, we've seen a significant increase in mosquitoes. The total number of *Culex* caught and tested in Larimer County during July 2023 increased 193% from the numbers caught and tested in July 2022.



The temperature in July was slightly cooler than normal in 2023. Temperatures for much of metro Larimer County were about -1F less than average.



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.

Larval Control Operations

In July of 2023, VDCI field technicians performed 2,232 site inspections as part of the inspection and larviciding program for Fort Collins. Of those 2,232 site inspections, 1,789 (80.2%) of those were wet and 1,112 (62.2%) wet sites were producing mosquito larvae. A total of 1,286.3 acres of land were treated with 4,575.6 lbs of Vectobac (bti) and 6.9 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During July 2023, VDCI technicians performed site inspections at 12 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 250 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

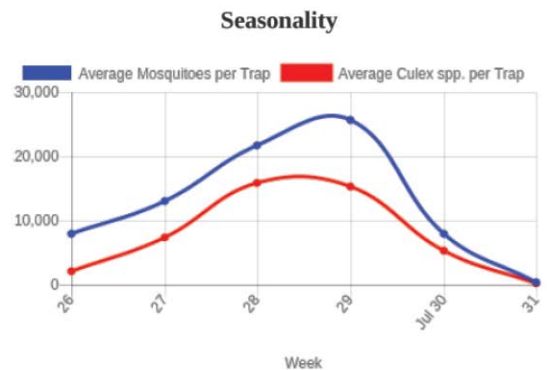
There were 239 traps set in Fort Collins during the month of July 2023. A total of 76,972 mosquitoes were collected. There were 29,207 (37.9%) *Aedes spp.*, 46,411 (60.3%) *Culex spp.* and 927 (1.2%) *Culiseta spp.* mosquitoes collected. On average there were 322.1 mosquitoes collected per night and 194.2 *Culex spp.* mosquitoes per trap night.

2023 Fort Collins Trap Composite Data

Total number of trap/nights set:	239
Total number of mosquitoes collected:	76,972.0
Average mosquitoes per trap/night:	322.1
Average Culex per trap/night:	194.2

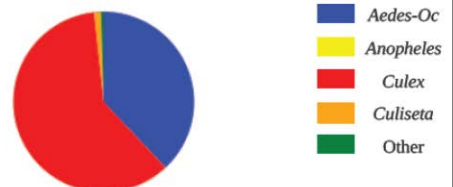
Species collected and abundance:

<i>Aedes cinereus</i>	60.0	0.1%
<i>Aedes dorsalis</i>	3,197.0	4.2%
<i>Aedes hendersoni</i>	6.0	0.0%
<i>Aedes increpitus</i>	2,907.0	3.8%
<i>Aedes melanimon</i>	1,674.0	2.2%
<i>Aedes nigromaculis</i>	3.0	0.0%
<i>Aedes trivittatus</i>	51.0	0.1%
<i>Aedes vexans</i>	21,309.0	27.7%
<i>Anopheles freeborni</i>	45.0	0.1%
<i>Coquillettidia perturbans</i>	382.0	0.5%
<i>Culex pipiens</i>	4,304.0	5.6%
<i>Culex tarsalis</i>	42,107.0	54.7%
<i>Culiseta inornata</i>	927.0	1.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	29,207	37.9%
<i>Anopheles</i>	45	0.1%
<i>Culex</i>	46,411	60.3%
<i>Culiseta</i>	927	1.2%
Other	382	0.5%



Adult Mosquito Control Operations

During the month of July 2023, 358.2 miles of roads within the City of Fort Collins, and 49.09 miles of roads within Larimer County were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaPerm-X mosquito adulticides to reduce adult mosquito populations. Truck based ULV applications were performed to suppress mosquito abundance detected in surveillance traps which surpassed the disease threshold of a VI over 0.75.

**Please see appendix 1 for maps of spray areas

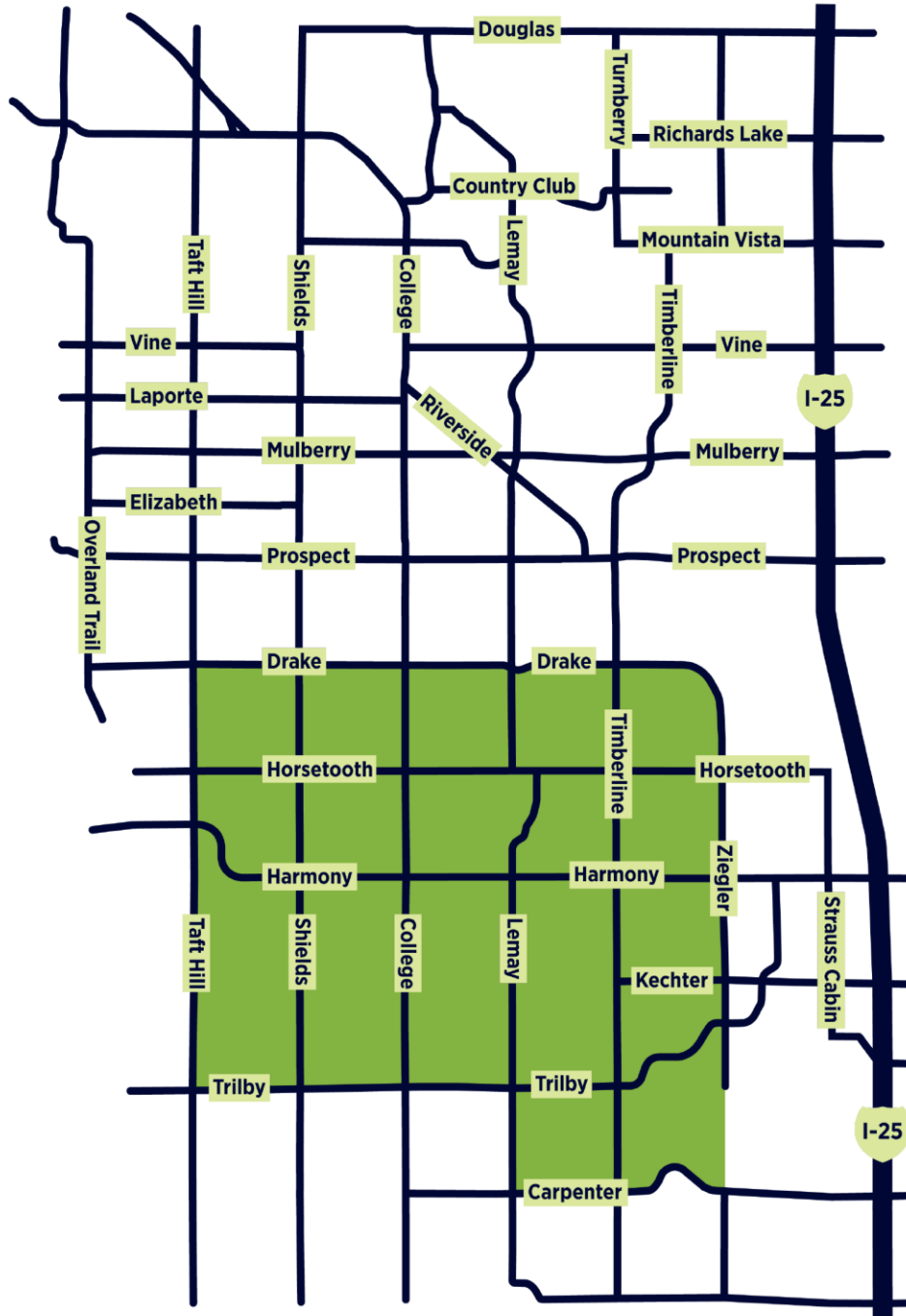
VDCI has been privately contracted to perform adult mosquito control for Countryside HOA, Greenstone HOA, Willow Springs HOA, and Lindenwood HOA during the 2023 season. A total of 16.01 road miles within these neighborhoods were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaPerm-X mosquito adulticides to reduce adult mosquito populations on the dates listed below.

Date	Zone	Spray Miles	Ounces Sprayed
7/7/2023	LHOA - Willow Springs Spray Zone	3.43	121.51
7/12/2023	LHOA - Greenstone HOA Spray Zone	2.73	97.62
7/19/2023	LHOA - Greenstone HOA Spray Zone	2.23	79.81
7/19/2023	LHOA - Greenstone HOA Spray Zone	2.53	89.33
7/20/2023	LHOA - Willow Springs Spray Zone	2.76	98.11
7/19/2023	LHOA - Lindenwood HOA Spray Zone	2.33	85.4
Totals		16.01	571.78

Public Relations

VDCI received 12 phone calls from City of Fort Collins residents in July 2023. VDCI received 5 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 3 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. VDCI received 4 phone calls 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.

Appendix 1: Adult Mosquito Control Operation Maps



MOSQUITO SPRAYING MAP



City of Fort Collins

Sunday, July 30, 2023

■ Sprayed Areas

