



CITY OF FORT COLLINS JUNE 2022 MONTHLY REPORT

JULY 5TH, 2022

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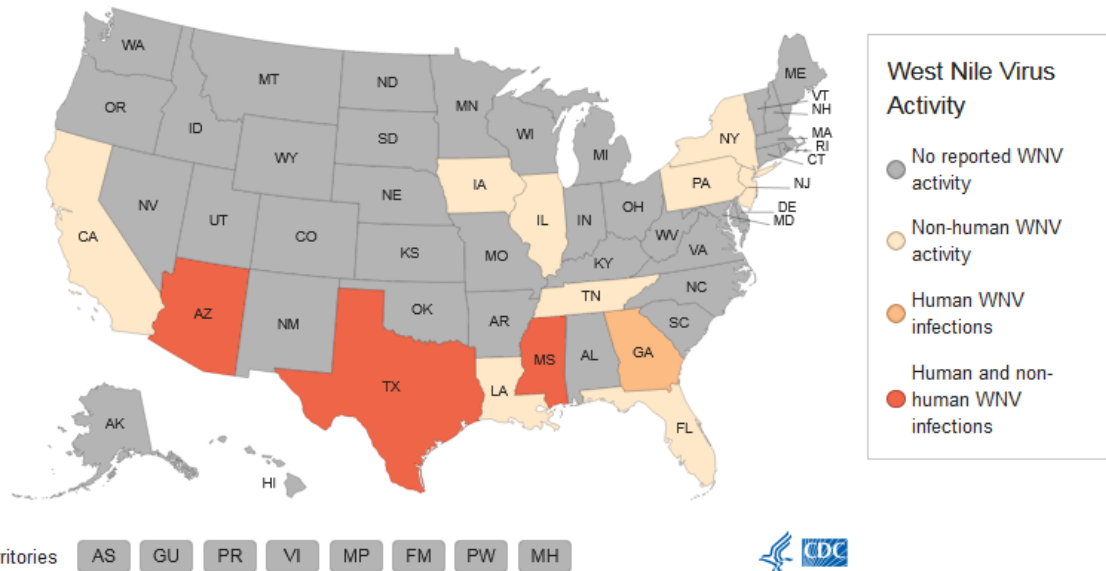
West Nile Virus Risk

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 23 (June 6th). As of July 5th 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 four states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in five states. While West Nile virus activity remains relatively low, and we have not documented viral activity in Northern Colorado, 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 Activity by State 2022

United States (as of June 28, 2022)



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.

By comparison, in June 2021 Colorado State University (CSU) tested a total of 248 mosquito samples containing 5,092 mosquitoes. These samples consisted of 4,375 *Cx. tarsalis* and 717 *Cx. Pipiens* collected from the Fort Collins, Loveland and Berthoud areas.

Weather

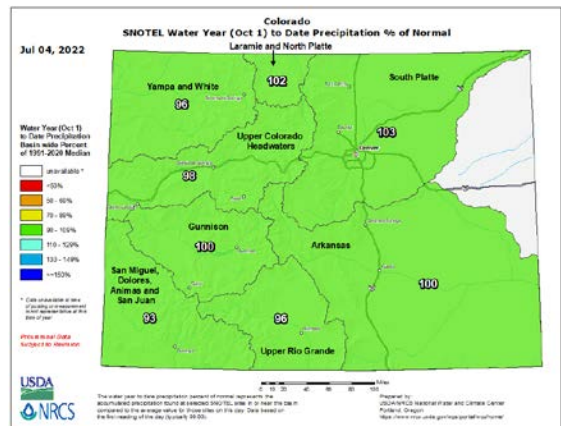
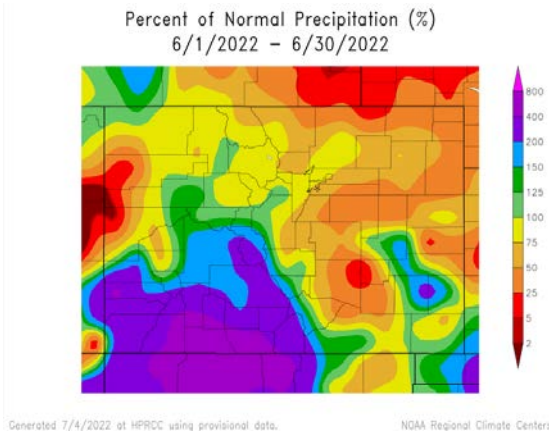
Wear Your Repellent!

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

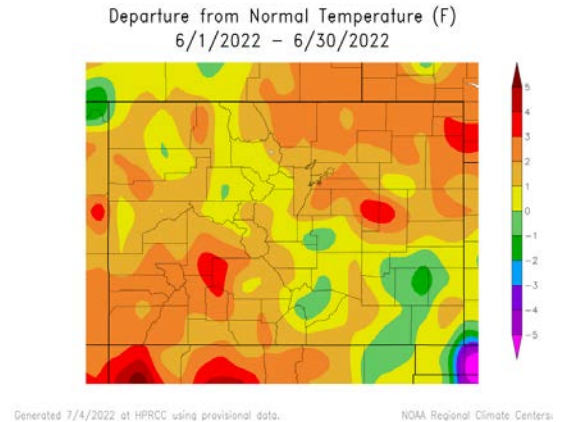
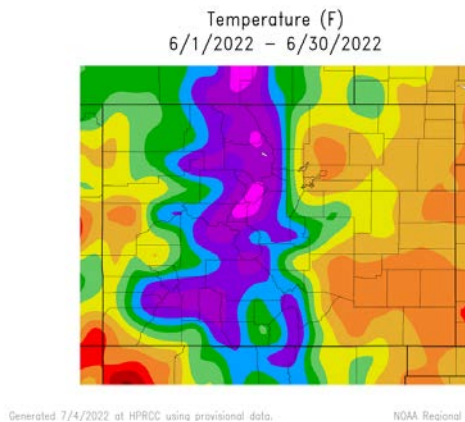
DEET products generally provide the longest protection. The other repellents work but must be applied more frequently.

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

Spring 2022 in Northern Colorado, was marked by a dry and hot climate. April was recorded as the driest month on record for the Denver metro area. In May VDCI began field inspections throughout Northern Colorado in May as temperatures rose above average quickly beginning in June. Although precipitation was at all-time lows, snowpack levels were around average for spring 2022. Given the lack of precipitation, some areas in Colorado experienced a much lower number of mosquitoes than in June 2021 where Northern Colorado had a very wet spring. The total number of Culex caught and tested in Larimer County during June 2022 decreased 48.4% from the number caught and tested in June 2021.



June was a hotter than average month in 2022. With temperatures higher on average throughout Northern Colorado. During the month of June, Northern Colorado seen a departure from normal temperatures of a positive 2-3 degrees Fahrenheit.



Larval Control Operations

In June of 2022, VDCI field technicians performed 2,518 site inspections as part of the inspection and larviciding program for Fort Collins. Of those 2,518 site inspections, 1,738 (69.0%) of those were wet and 686 (39.5%) wet sites were producing mosquito larvae. A total of 347.3 acres of land were treated with 1,826.6 lbs of Vectobac (bti) and 2.3 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During June 2022, VDCI technicians performed site inspections at 40 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 505 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

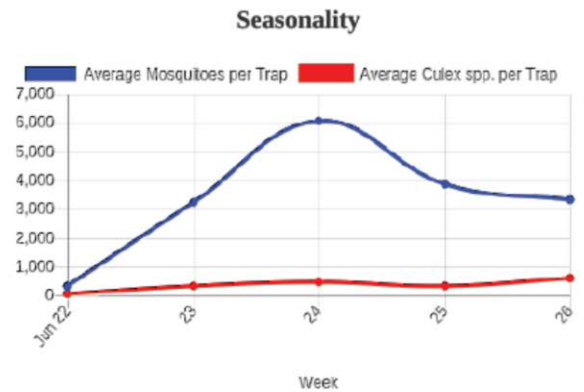
There were 224 traps set in Fort Collins during the month of June 2022. A total of 16,848 mosquitoes were collected. There were 14,788 (87.8%) *Aedes spp.*, 1,833 (10.9%) *Culex spp.* and 48 (0.3%) *Culiseta spp.* mosquitoes collected. On average there were 75.2 mosquitoes collected per night and 8.2 *Culex spp.* mosquitoes per trap night.

2022 Fort Collins Trap Composite Data

Total number of trap/nights set:	224
Total number of mosquitoes collected:	16,848.0
Average mosquitoes per trap/night:	75.2
Average Culex per trap/night:	8.2

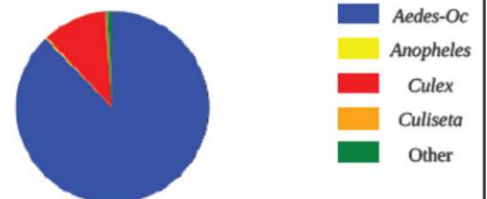
Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.0%
<i>Aedes dorsalis</i>	1,132.0	6.7%
<i>Aedes increpitus</i>	3,698.0	21.9%
<i>Aedes melanimon</i>	446.0	2.6%
<i>Aedes trivittatus</i>	2.0	0.0%
<i>Aedes vexans</i>	9,509.0	56.4%
<i>Anopheles freeborni</i>	48.0	0.3%
<i>Coquillettidia perturbans</i>	131.0	0.8%
<i>Culex pipiens</i>	459.0	2.7%
<i>Culex tarsalis</i>	1,374.0	8.2%
<i>Culiseta inornata</i>	48.0	0.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	14,788	87.8%
<i>Anopheles</i>	48	0.3%
<i>Culex</i>	1,833	10.9%
<i>Culiseta</i>	48	0.3%
Other	131	0.8%



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 Greenstone HOA, Willow Springs HOA, Ridgewood Hills HOA, and Lindenwood HOA during the 2022 season. A total of 19.77 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
6/8/2022	LHOA - Greenstone HOA Spray Zone	2.76	97.62
6/22/2022	LHOA - Ridgewood Hills Spray Zone	6.88	244.93
6/23/2022	LHOA - Willow Springs Spray Zone	3.08	115.58
6/15/2022	LHOA - Lindenwood HOA Spray Zone	2.33	85.41
6/22/2022	LHOA - Lindenwood HOA Spray Zone	2.34	83.28
6/29/2022	LHOA - Lindenwood HOA Spray Zone	2.38	87.53
Totals		19.77	714.35

Public Relations

VDCI received 5 phone calls from City of Fort Collins residents in June 2022. VDCI received 2 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.