



CITY OF FORT COLLINS JUNE 2020 MONTHLY REPORT

JULY 1ST, 2020

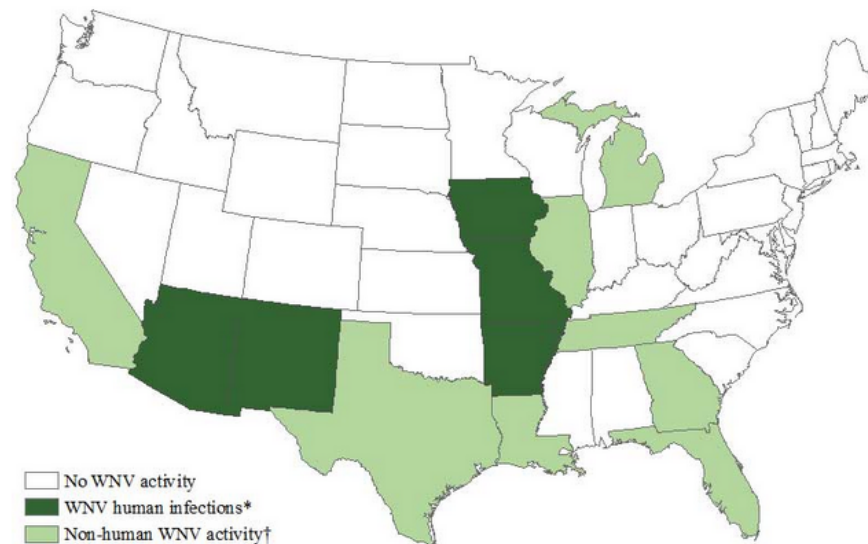
West Nile Virus Risk

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 24 (June 13th). As of July 1st there have been no reports of West Nile virus positive mosquitoes in the state of Colorado.

The Centers for Disease Control and Prevention most currently reports human West Nile virus infections in five states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in thirteen 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 2020

West Nile Virus Activity by State – United States, 2020 (as of June 30, 2020)



In June 2020 Colorado State University (CSU) tested a total of 253 mosquito samples containing 2,075 mosquitoes. These samples consisted of 1240 *Cx. tarsalis* and 835 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

By comparison, in June 2019 Colorado State University (CSU) tested a total of 62 mosquito samples containing 375 mosquitoes. These samples consisted of 328 *Cx. tarsalis* and 47 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

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Weather

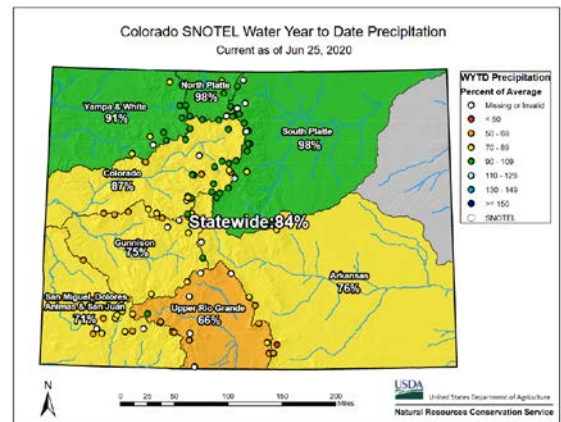
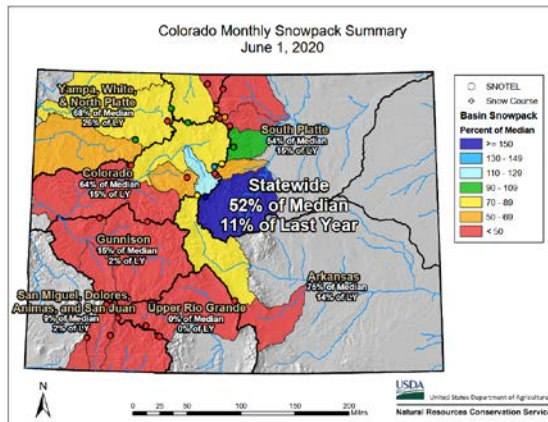
Wear Your Repellent!

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

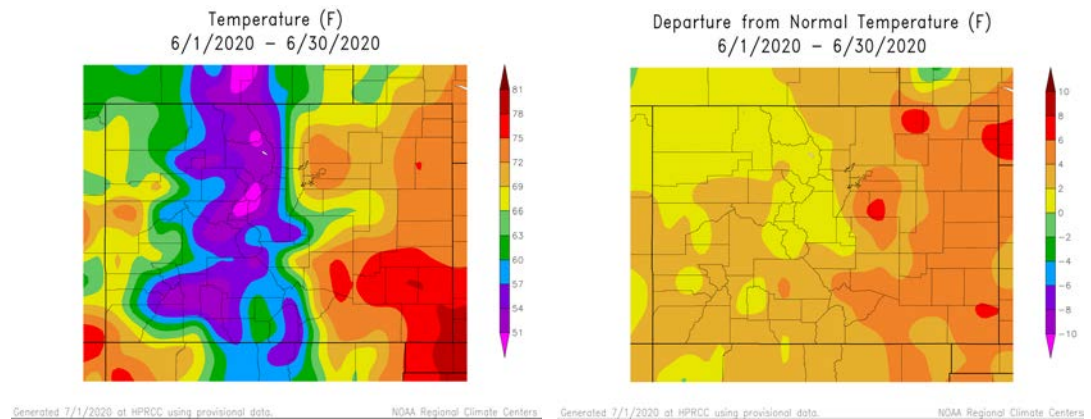
DEET products generally provide the longest protection. The other repellents work but must be applied more frequently.

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

VDCI began field inspections throughout Northern Colorado in May as temperatures rose above average quickly in 2020. Snowpack levels were below the median across most of the state and as of June 1st. Colorado was 52% of the median for normal snowpack, and only 11% of last year. As of June 1st Statewide precipitation was at around 84%, with the South Platte River reaching 98% of its year to date average. *Culex* obtained from larval sites has remained below 20% total abundance as a percentage of all mosquitoes collected. In the early season months VDCI field technicians have focused larval site inspections on flooded areas and mandatory sites known to produce larvae early season.



According to the High Plains Regional Climate Center the average temperature in Fort Collins/Loveland was 70.8°F during the month of June. With temperatures higher on average throughout the entire county.



Larval Control Operations

In June of 2020, VDCI field technicians performed 2,588 site inspections as part of the inspection and larviciding program for the City of Fort Collins. Of those 2,588 site inspections, 1,962 (75.8%) of those were wet and 755 (38.5%) wet sites were producing mosquito larvae. A total of 506.2 acres of land were treated with 3,041.52 lbs of vectobac (bti) and 7.35 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During June 2020, VDCI technicians performed site inspections at approximately 990 storm drains 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

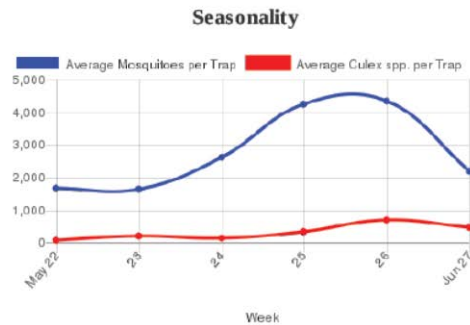
There were 272 traps set in the City of Fort Collins during June 2020. A total of 16,725 mosquitoes were collected. There were 14,106 (84.3%) *Aedes spp.*, 1,911 (11.4%) *Culex spp.* and 225 (1.3%) *Culiseta spp.* mosquitoes collected. On average there were 61.5 mosquitoes collected per night and 7 *Culex spp.* mosquitoes per trap night.

2020 Fort Collins Trap Composite Data

Total number of trap/nights set:	272
Total number of mosquitoes collected:	16,725.0
Average mosquitoes per trap/night:	61.5
Average Culex per trap/night:	7.0

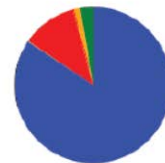
Species collected and abundance:

<i>Aedes cinereus</i>	44.0	0.3%
<i>Aedes dorsalis</i>	669.0	4.0%
<i>Aedes fitchii</i>	1.0	0.0%
<i>Aedes increpitus</i>	3,332.0	19.9%
<i>Aedes melanimon</i>	264.0	1.6%
<i>Aedes spp.</i>	120.0	0.7%
<i>Aedes trivittatus</i>	22.0	0.1%
<i>Aedes vexans</i>	9,654.0	57.7%
<i>Anopheles freeborni</i>	20.0	0.1%
<i>Coquilletidia perturbans</i>	463.0	2.8%
<i>Culex pipiens</i>	946.0	5.7%
<i>Culex tarsalis</i>	965.0	5.8%
<i>Culiseta inornata</i>	225.0	1.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	14,106	84.3%
<i>Anopheles</i>	20	0.1%
<i>Culex</i>	1,911	11.4%
<i>Culiseta</i>	225	1.3%
Other	463	2.8%



Blue	<i>Aedes-Oc</i>
Yellow	<i>Anopheles</i>
Red	<i>Culex</i>
Orange	<i>Culiseta</i>
Green	Other

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 2020 season. A total of 14.15 road miles within these neighborhoods were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaKontrol mosquito adulticides to reduce adult mosquito populations on the dates listed below.

Date	Zone	Spray Miles	Spray Acres	Ounces Sprayed
6/2/2020	LHOA - Greenstone HOA Spray Zone	2.92	106.17	104.54
6/16/2020	LHOA - Greenstone HOA Spray Zone	2.99	108.72	106.3
6/23/2020	LHOA - Greenstone HOA Spray Zone	2.67	97.08	99.24
6/25/2020	LHOA - Willow Springs Spray Zone	2.9	105.44	103.86
6/30/2020	LHOA - Greenstone HOA Spray Zone	2.67	97.08	99.26
Totals		14.15	514.49	513.2

Public Relations

VDCI received 10 phone calls from City of Fort Collins residents in June 2020. VDCI received 3 calls from residents reporting new larval mosquito sites in their area. VDCI inspected all of the reported sites and added new areas if found producing mosquito larvae. VDCI received 5 mosquito annoyance calls from residents of the City of Fort Collins. VDCI received 2 calls from residents requesting information about the City of Fort Collins mosquito control program and how decisions are made about adulticiding. VDCI provided the relevant information and directed them to our website for further information about the products used.