



CITY OF FORT COLLINS AUGUST 2019 MONTHLY REPORT

SEPTEMBER 23RD, 2019

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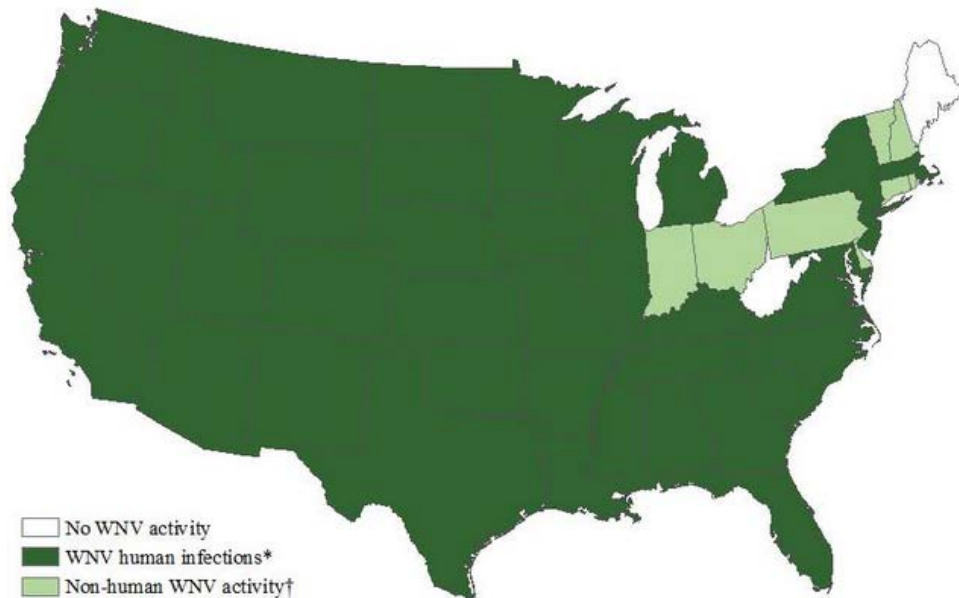
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West Nile Virus Risk

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 24 (June 14th). As of September 18th there have been West Nile virus human cases in the Colorado counties of Adams, Boulder, Broomfield, Delta, La Plata, Larimer, Mesa, Pueblo, Teller, and Weld. To date, there have been no deaths associated with West Nile virus infection in Colorado in 2019.

The Centers for Disease Control and Prevention currently reports human West Nile virus infections in thirty-nine states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in forty-six states. Serious cases of West Nile Virus, including those with neuroinvasive incidence have been reported in 34 states.

West Nile Virus Activity by State – United States, 2019 (as of September 17, 2019)



In August 2019 Colorado State University (CSU) tested a total of 486 mosquito samples containing 12,878 mosquitoes. These samples consisted of 9,644 *Cx. tarsalis* and 3,234 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas. A total of 34 samples tested positive for West Nile Virus, with 30 samples from Fort Collins and 4 from Loveland

Wear Your Repellent!

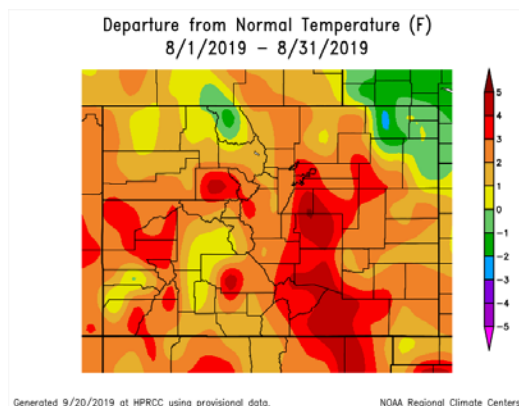
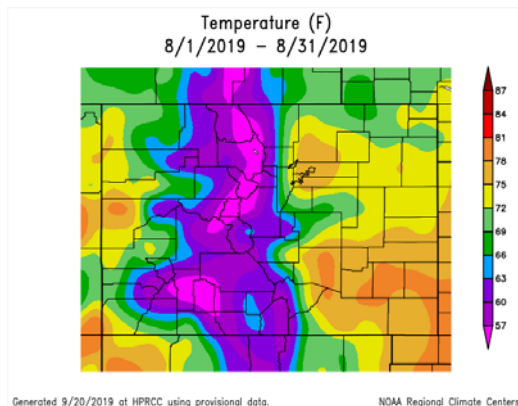
Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

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

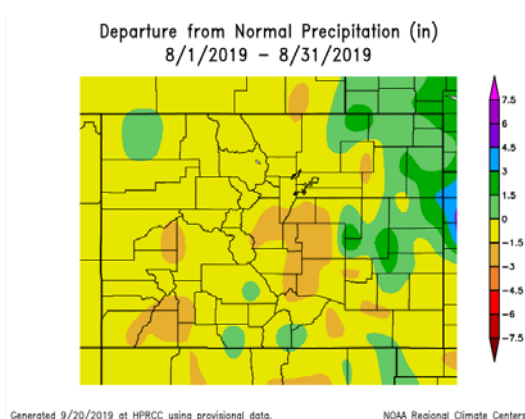
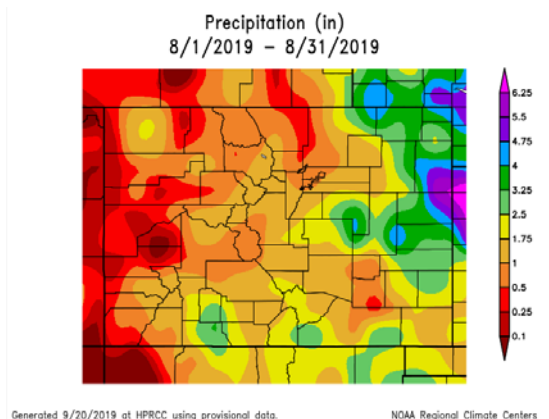
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

Weather

The average temperature in Larimer County was 72.58 °F, with the average minimum temperature at 65.35 °F and the average max temperature at 82.37 °F during the month of July. A monthly high of 99 °F was seen on August 20th. With temperatures above average, larval production kept at a fairly rapid pace during the month of August.



Precipitation in Larimer County during August 2019 was below average, however after the wet months of May and June, stagnant water and mosquito breeding habitats were still abundant in Northern Colorado.



Larval Control Operations

VDCI field technicians performed 1,169 site inspections in the month of August 2019 as part of the inspection and larviciding program for Fort Collins. Of the 1,169 inspections, 883 sites were wet (75.5% of the total inspected sites) and 521 sites were producing larvae (59.0% of the wet sites). Of the 348.1 acres treated 1,694 lbs. of VectoBac (*Bti*) and 7.57 gallons of BVA mineral oil were applied in August 2019.

By comparison, VDCI field technicians performed 1,280 site inspections as part of the inspection and larviciding program for Fort Collins in August 2018. Of the 1,280 inspections, 1,069 sites were wet (83.5%) and 746 sites were producing mosquito larvae (67.5% of the wet sites). Of the 311.7 acres treated 1,612.2 lbs. of VectoBac (*Bti*), and 15.9 gallons of BVA mineral oil were applied in August 2018.

During August 2019, VDCI technicians performed site inspections at approximately 448 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 213 light traps set in Fort Collins during August 2019. Mosquito surveillance traps set during August 2019 collected a total of 17,524 mosquitoes. Of these there were 6,158 (35.1%) *Aedes spp.*, 361 (2.1%) *Culiseta spp.*, and 10,948 (62.5%) *Culex spp.* mosquitoes collected. There was an average of 82.3 mosquitoes collected per trap night and 51.4 *Culex spp.* mosquitoes per trap night during August 2019 in Fort Collins.

There were 237 light traps set in Fort Collins the month of August 2018. From the 237 light traps set; a total of 16,979 mosquitoes were collected. There were 6,755 (39.8%) *Aedes spp.*, 77 (<1%) *Culiseta spp.*, and 10,079 (59.4%) *Culex spp.* mosquitoes collected. There was an average of 72 mosquitoes per trap night and 43 *Culex spp.* mosquitoes per trap night in Fort Collins during August 2018.

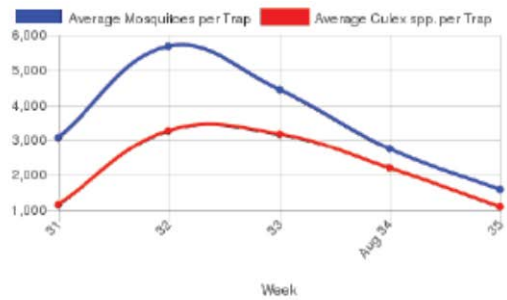
2019 Fort Collins Trap Composite Data

Total number of trap/nights set: 213
 Total number of mosquitoes collected: 17,524.0
 Average mosquitoes per trap/night: 82.3
 Average Culex per trap/night: 51.4

Species collected and abundance:

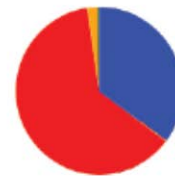
<i>Aedes dorsalis</i>	100.0	0.6%
<i>Aedes inaeptus</i>	348.0	2.0%
<i>Aedes melanimon</i>	31.0	0.2%
<i>Aedes spp.</i>	20.0	0.1%
<i>Aedes trivittatus</i>	8.0	0.0%
<i>Aedes vexans</i>	5,651.0	32.2%
<i>Anopheles freeborni</i>	22.0	0.1%
<i>Anopheles spp.</i>	2.0	0.0%
<i>Coquillettia perturbans</i>	33.0	0.2%
<i>Culex pipiens</i>	3,080.0	17.6%
<i>Culex tarsalis</i>	7,868.0	44.9%
<i>Culiseta inornata</i>	361.0	2.1%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	6,158	35.1%
<i>Anopheles</i>	24	0.1%
<i>Culex</i>	10,948	62.5%
<i>Culiseta</i>	361	2.1%
Other	33	0.2%



■ *Aedes-Oc*
 ■ *Anopheles*
 ■ *Culex*
 ■ *Culiseta*
 ■ Other

Adult Mosquito Control Operations

There were no adult mosquito control operations performed by the City of Fort Collins during August 2019. VDCI has been privately contracted to perform adult mosquito control for Greenstone HOA, Lindenwood HOA, Ridgewood Hills HOA, and Willow Springs HOA, during the 2019 season. A total of 19.14 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	Oz Sprayed
8/6/2019	LHOA - Greenstone HOA Spray Zone	2.69	97.81	96.5
8/13/2019	LHOA - Greenstone HOA Spray Zone	2.75	99.99	97.71
8/14/2019	LHOA - Lindenwood HOA Spray Zone	2.31	83.99	82.05
8/21/2019	LHOA - Lindenwood HOA Spray Zone	2.33	84.72	85.41
8/28/2019	LHOA - Lindenwood HOA Spray Zone	2.32	84.36	82.07
8/28/2019	LHOA - Ridgewood Hills Spray Zone	6.74	245.07	241.38
Totals		19.14	695.94	685.12

Public Relations

VDCI received 11 phone calls from the residents of Fort Collins during the month of August 2019. There were 2 new larval mosquito production sites reported. The sites were inspected and treated due to larval production or potential larval production. VDCI received 5 calls from residents reporting mosquito annoyance problems, technicians were dispatched to check out the complaint areas. There were 4 residents requesting to be added to the call notification program and they were directed to the City of Fort Collins websites (www.fcgov.com/westnile).