



CITY OF FORT COLLINS

JULY 2016 MONTHLY REPORT

MONTHLY REPORT: AUGUST 1ST, 2016

COLORADO MOSQUITO CONTROL

Contact CMC:

**City of Fort
Collins
Mosquito
Control
Program
Broox Boze,
Operations
Manager**

**Phone
(970)962-2582**

**Fax
(970)962-2584**

**E-Mail:
bboze@
comosquito
control.com**

Website:
[www.comosquito
control.com](http://www.comosquitocontrol.com)

Main Office:
General E-Mail:
info@comosquito
control.com
Toll Free:
(877) 276-4306

7000 North
Broadway Suite
108 Denver, CO
80221
303-428-5908

West Nile Virus Risk

The number of cases of human West Nile Virus (WNV) infection in Colorado for the 2016 season is currently at four. Those cases were reported from Bent (1), Douglas (1), and Larimer (2). The human cases and positive mosquito pools indicate WNV is circulating and the risk to people is increasing. This number is guaranteed to increase according to the CDPHE, as the majority of cases are identified in August and September, during the season's peak. Therefore, use of personal protective measures against mosquitoes is recommended.

In 2015, a total of 101 cases of human West Nile Virus (WNV) infection were identified in Colorado from 25 different counties. The majority of cases were uncomplicated fever (44); 29 were meningitis, and 28 were encephalitis. Three deaths were reported during the 2015 season from Crowley (1), Denver (1) and Pueblo (1) counties.

To date, Colorado State University has tested 584 sample pools of mosquitoes collected from mosquito traps in the City of Fort Collins and Loveland. 593 of these samples were collected in Fort Collins and 91 were collected in Loveland. The Fort Collins samples consisted of 4258 *Cx. pipiens* and 6113 *Cx. tarsalis*. Loveland samples consisted of 71 *Cx. pipiens* and 2315 *Cx. tarsalis*.

In Larimer County a total of 21 samples have tested positive for WNV. The majority of the WNV+ pools have been from the Northeastern and Southeastern parts of Fort Collins with five positive pools in Loveland. There are no plans to test mosquito specimens collected from mosquito traps set in unincorporated Larimer County at this time, due to budget cutbacks at the state level.

Colorado Department of Health and Environment reports that as of July 22nd, 530 mosquito pools have been submitted for testing, along with 13 avian, and six equine. Of those specimens tested, there have been 17 mosquito pools found to be positive for

WNV from the counties of Arapahoe (1), Boulder (4), Larimer (4), Mesa (1) and Weld (7). Also one raptor collected in Weld County was found to be positive.

Weather

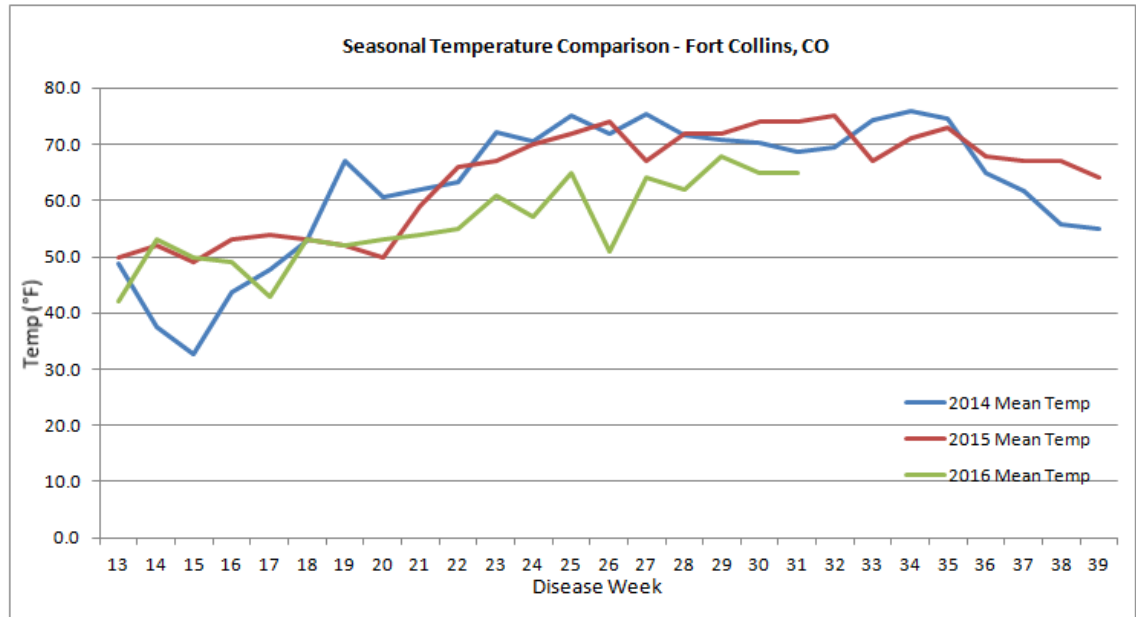
Northern Colorado experienced the third driest June in over a century and July was no different. Despite periodic thunderstorms in the evening we remain on the edge of a drought situation and saw only 0.15 inches of rain during the month of July this year. The average temperature in Fort Collins during the month of July 2016 was 64.8°F which is cooler than last year but 5.1°F above historical averages.

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

CMC field technicians performed 2,120 site inspections as part of the inspection and larviciding program for the City of Fort Collins in July 2016. Of the 2,120 inspections, 1,762 sites were wet (83.1%) and 910 sites were producing mosquito larvae (50.8% of the wet sites). Of the 339 acres treated in July 2016, 2,054 lbs. of VectoBac (*Bti*), 98.5 lbs. of VectoLex (*Bsph*), and 28.5 gallons of BVA mosquito larviciding oil were applied.

CMC field technicians performed 2,106 site inspections as part of the inspection and larviciding program in July 2015. Of the 2,106 inspections, 1,809 sites were wet (85.9%) and 1,031 sites were producing mosquito larvae (55.1% of the wet sites). Of the 636.4 acres treated in July 2015, 4288 lbs. of VectoBac (*Bti*), 502 lbs. of VectoLex (*Bsph*), .5 lbs. of Altosid (methoprene) and 51 gallons of BVA mosquito larviciding oil were applied.

CMC's backyard and storm drain technician performed 56 site inspections as a part of the Fort Collins backyard program in July 2016. Of the 56 inspections, 35 sites (62.8%) were wet and 32 (57.1%) were producing or had the potential to produce mosquito larvae.

Mosquito Population Surveillance

There were 201 light traps set in Fort Collins the month of July 2016. From the 201 light traps set; a total of 18,319 mosquitoes were collected. There were 8,033 (44%) *Aedes spp.*, 3 (<1%) *Anopheles spp.*, 8,928 (49%) *Culex spp.* and 1,120 other mosquitoes collected. There was an average of 91 mosquitoes per trap night and 44 *Culex spp.* mosquitoes per trap night collected in Fort Collins during July 2016.

There were 202 light traps set in Fort Collins the month of July 2015. From the 202 light traps set; a total of 38,388 mosquitoes were collected. There were 22,621 (59%) *Aedes spp.*, 8 (<1%) *Anopheles spp.*, 627 (2%) *Culiseta spp.*, 14,380 (37%) *Culex spp.* and 752 other mosquitoes collected. There was an average of 190 mosquitoes per trap night and 71 *Culex spp.* mosquitoes per trap night collected in Fort Collins during July 2015.

There were 37 gravid traps set in Fort Collins during the month of July 2016. Gravid traps set in the City of Fort Collins collected 2,323 total mosquitoes. There were 13 (1.0%) *Aedes spp.*, 1 (<1.0%) *Culiseta inornata*, and 2,309 (99%) *Culex spp.* mosquitoes collected.

There were 136 light traps set in the City of Loveland during July 2016. Mosquito surveillance traps set during July 2016 in Loveland collected a total of 8,141 mosquitoes. Of these there were 3,779 (46.4%) *Aedes spp.*, 113 (1.4%) *Culiseta inornata*, 2 (<1.0%) *Anopheles spp.*, 4,247 (61%) *Culex spp.* mosquitoes collected. There was an average of 60 mosquitoes collected per trap night and 31 *Culex spp.* mosquitoes per trap night during July 2016 in the City of Loveland.

There were 9 gravid traps set during the month of July 2015 in the City of Loveland. Gravid traps set in the City of Loveland collected 359 total mosquitoes. There were 1 (<1.0%) *Aedes spp.* and 358 *Culex spp.* mosquitoes collected from gravid traps.

Adult Mosquito Control Operations

CMC is contracted to perform ULV Truck fogging for adult mosquitoes in Green Stone HOA, Willow Springs HOA and Lindenwood HOA during 2016, when mosquito counts surpass 100 mosquitoes in a single trapping night. The City of Fort Collins has not budgeted money for adult mosquito control operations for 2016.

CMC performed 2 truck ULV applications using AquaKontrol30-30 in Lindenwood HOA due to mosquito traps that contained more than 100 mosquitoes. A total of 8 miles of road were driven in these applications. CMC performed 2 truck ULV applications in Greenstone HOA, totaling 7 miles of roads.



Colorado Mosquito Control

Adulticide Data

Customer	Subdiv/Area	Material	Start Time	End Time	Miles
Greenstone HOA					
Truck					
07/12/2016	Greenstone	Aqua Kontrol 30 30	22:17:00	22:36:00	4.0
07/26/2016	Greenstone HOA	Aqua Kontrol 30 30	20:45:00	21:02:00	3.0
Truck				Sum	7.0
				Avg	3.5
				Min	3.0
				Max	4.0
Lindenwood HOA					
Truck					
07/13/2016	Lindenwood	Aqua Kontrol 30 30	21:37:00	21:58:00	4.0
07/20/2016	Lindenwood	Aqua Kontrol 30 30	21:19:00	21:39:00	4.0
Truck				Sum	8.0
				Avg	4.0
				Min	4.0
				Max	4.0
Grand Total					15.0

Public Relations

CMC received 4 phone calls from the residents of Fort Collins during the month of July 2016. CMC received 2 new larval site reports. Both of the sites reported sites were new locations and inspected for the presence of larval mosquitoes and were treated for the potential to produce mosquito larvae or were producing mosquito larvae. CMC received 2 call requesting information about private barrier sprayings. CMC gave information about the costs of private sprayings.