



CITY OF FORT COLLINS AUGUST 2016 MONTHLY REPORT

MONTHLY REPORT: SEPTEMBER 6, 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@comosquitocontrol.com

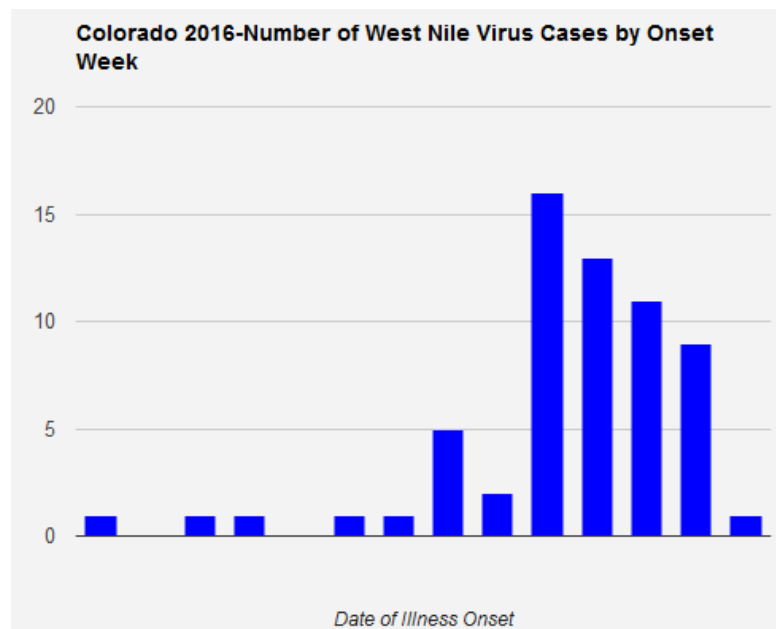
Website:
www.comosquitocontrol.com

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

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

West Nile Virus Risk

The number of confirmed cases of human West Nile virus infections in Colorado for the 2016 season is currently at 62 with 19 of those cases being reported from Larimer County. The annual case count is much higher than that of the 2015 season, during which time only 20 cases had been confirmed. It is expected that the number of human cases will continue to increase as season progresses. Also note that the vast majority of cases are identified in August and September. Therefore, continued use of personal protective measures against mosquitoes is recommended.

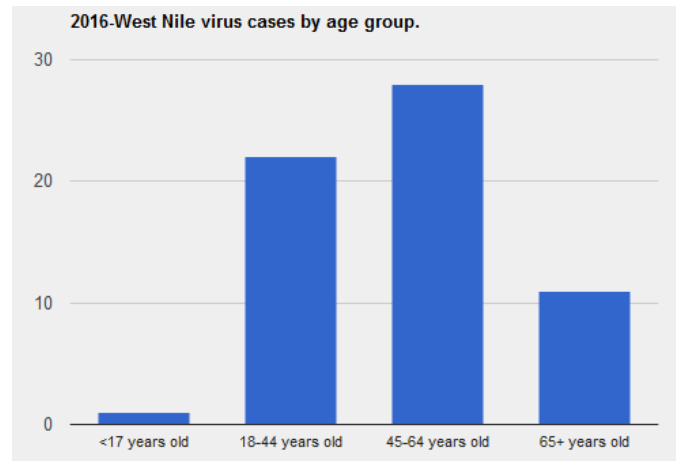


As of September 2nd, Colorado State University has tested 249 sample pools of *Cx. pipiens* mosquitoes and 174 sample pools of *Cx. tarsalis* mosquitoes collected from surveillance traps in the City of Fort Collins during August 2016. There were 54 WNV+ pools of *Cx. pipiens* and 31 WNV+ pools of *Cx. tarsalis* collected from Fort Collins during August.

Colorado State University tested 27 sample pools of *Cx. pipiens* mosquitoes and 44 sample pools of *Cx. tarsalis* mosquitoes collected from mosquito traps in the City of Loveland during August 2016. There was 4 WNV+ pools of *Cx. pipiens* and 6 WNV+ pools of *Cx. tarsalis* collected from the City of Loveland during August 2016.

The CDPHE has completed mosquito testing for the 2015 season. The City of Fort Collins in conjunction with CSU will continue mosquito testing through September 2nd, 2016.

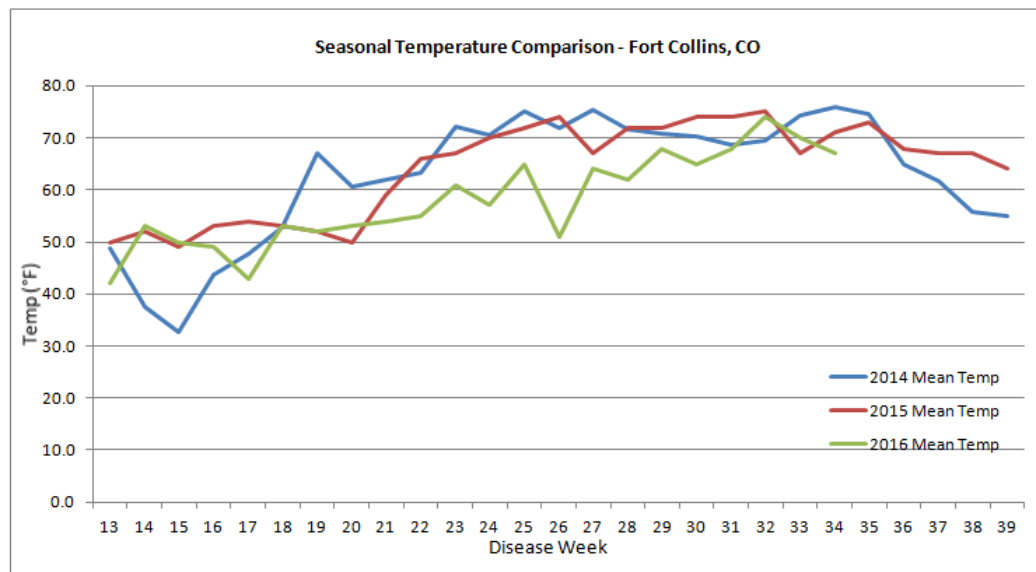
County	Human cases
Adams	4
Arapahoe	3
Bent	2
Boulder	8
Broomfield	3
Douglas	1
El Paso	1
Gunnison	1
Huerfano	1
Jefferson	1
Larimer	19
Logan	1
Otero	3
Rio Blanco	1
Sedgwick	1
Weld	12
Total	62



Weather

The summer months of 2015 and 2016 have been some of the hottest on record with a higher than average number of 90 degree days on record. Average temperature in the month of August 2016 was 69.75°F in Fort Collins and After two months of abnormally dry conditions, Fort Collins has entered into a moderate drought, according to the U.S. Drought Monitor. The total rainfall which occurred in Fort Collins the month of August 2016 was only 0.31 inches compared to 1.15 inches this time last year.

According to an article in the Coloradoan, Fort Collins has received about 1.3 inches of rain since June, compared to the average of 4.9 inches, according to National Weather Service data. The city is nearly 4.5 inches below normal precipitation for the season with 7.36 inches of precipitation.



Larval Control Operations

CMC field technicians performed 1,516 site inspections as part of the inspection and larviciding program in August 2016. Of the 1,516 inspections, 1,293 sites were wet (85.3%) and 743 sites were producing mosquito larvae (54.3% of the wet sites). Of the 264.6 acres treated in August 2016, 1,635.9 lbs. of VectoBac (*Bti*), 85.3 lbs of Vectolex (*Bsph*), 1.8 lbs. of Altosid (methoprene) and 6 gallons of BVA mineral oil were applied in August 2016.

CMC field technicians performed 1,318 site inspections as part of the inspection and larviciding program in August 2015. Of the 1,318 inspections, 1,163 sites were wet (88.2%) and 740 sites were producing mosquito larvae (63.5% of the wet sites). Of the 378.5 acres treated in August 2015, 1,833 lbs. of VectoBac (*Bti*), 0.1 lbs. of Altosid (methoprene) and 14.2 gallons of BVA mineral oil were applied in August 2015.

CMC's Urban Technician (backyard and storm drain) performed 139 site inspections as a part of the Fort Collins backyard program in August 2016. Of the 139 inspections, 95 sites (68.3%) were wet and 70 (31.6%) were producing or had the potential to produce mosquito larvae. Of the 4.1 acres treated 1.6 lbs. of Altosid (methoprene) and 15 lbs Vectobac (*Bti*) were applied.

Mosquito Population Surveillance

There were 215 light traps set in Fort Collins the month of August 2016. From the 215 light traps set; a total of 11, 136 mosquitoes were collected. There were 3,570 (32%) *Aedes spp.*, 116 (1%) *Culiseta spp.*, and 7,404 (66%) *Culex spp* mosquitoes collected. There was an average of 51 mosquitoes per trap night and 34 *Culex spp.* mosquitoes per trap night in Fort Collins during August 2016.

There were 186 light traps set in Fort Collins the month of August 2015. From the 186 light traps set; a total of 14,196 mosquitoes were collected. There were 7,369 (52%) *Aedes spp.*, 201 (1%) *Culiseta spp.*, and 6,608 (57%) *Culex spp* mosquitoes collected. There was an average of 76 mosquitoes per trap night and 35 *Culex spp.* mosquitoes per trap night in Fort Collins during August 2015.

There were 50 gravid traps set in Fort Collins during the month of August 2016. Gravid traps set in the City of Fort Collins collected 2,523 total mosquitoes. There were 5 (<1.0%) *Aedes spp.*, 2 (<1.0%) *Culiseta inornata*, 2,516 (99%) *Culex spp.* mosquitoes collected.

There were 188 light traps set in the City of Loveland during August 2016. Mosquito surveillance traps set during August 2016 in Loveland collected a total of 8,525 mosquitoes. Of these there were 3,183 (37%) *Aedes spp.*, 103 (1%) *Culiseta inornata*, 5 (<1.0%) *Anopheles spp.*, 5,232 (61%) *Culex spp.* mosquitoes collected. There was an average of 45 mosquitoes collected per trap night and 27 *Culex spp.* mosquitoes per trap night during August 2016 in the City of Loveland.

There were 15 gravid traps set during the month of August 2016 in the City of Loveland. Gravid traps set in the City of Loveland collected 864 total mosquitoes. There were 1,035 (100%) *Culex spp.* mosquitoes collected from gravid traps in Loveland.

Adult Mosquito Control Operations

On August 28th and 31st the City of Fort Collins fogged a total of 141 miles of streets, alleyways and bike paths in North Fort Collins via Ultra Low Volume truck fogging units utilizing AquaKontrol3030 (Permethrin).

In addition, private adulticide applications were performed for Willow Springs and Greenstone HOA including a total of 14 miles of streets.



Colorado Mosquito Control

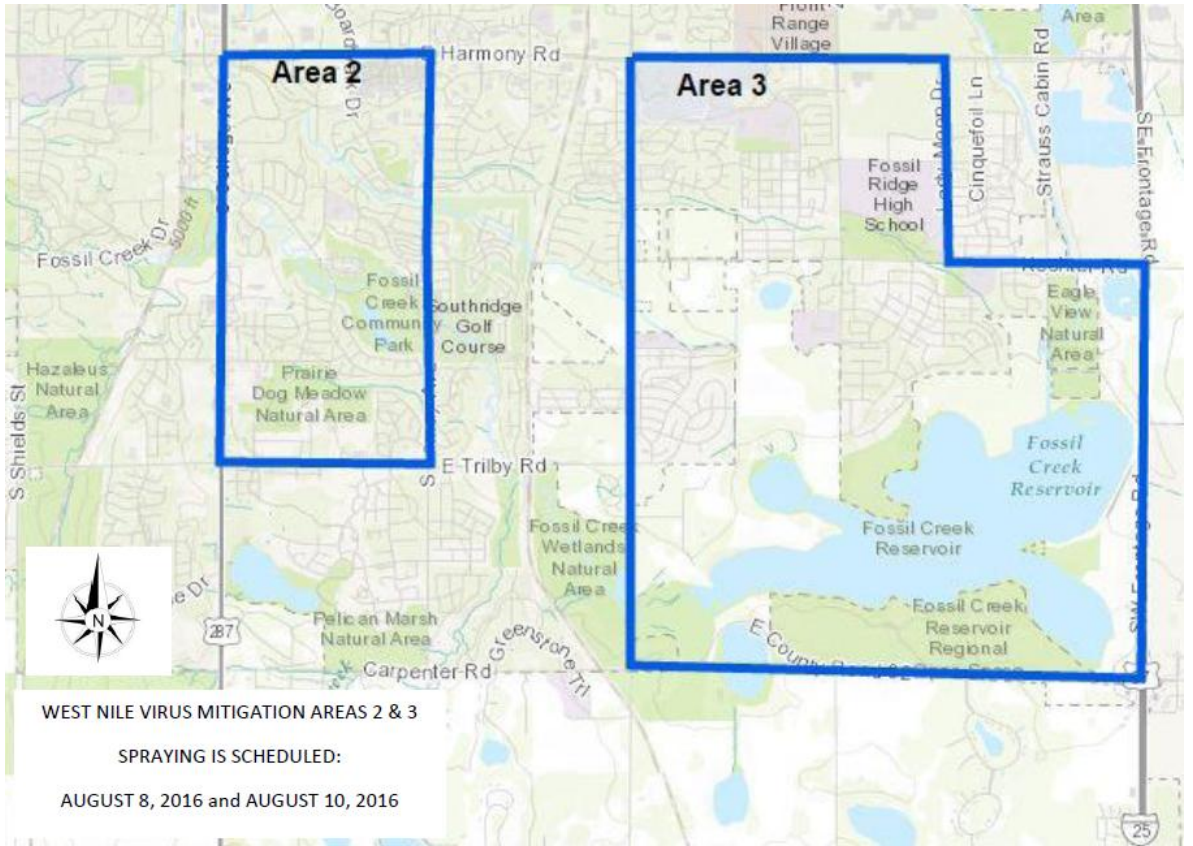
Adulticide Data

Customer	Subdiv/Area	Material	Start Time	End Time	Miles	
Greenstone HOA						
Truck						
08/02/2016	Greenstone	Aqua Kontrol 30 30	22:16:00	22:35:00	4.0	
				Truck	Sum	4.0
					Avg	4.0
					Min	4.0
					Max	4.0
Willow Springs HOA						
Truck						
08/03/2016	Willow Springs	Aqua Kontrol 30 30	20:30:00	21:04:00	5.0	
08/17/2016	Willow Springs	Aqua Kontrol 30 30	23:12:00	23:36:00	5.0	
				Truck	Sum	10.0
					Avg	5.0
					Min	5.0
					Max	5.0
Grand Total					14.0	

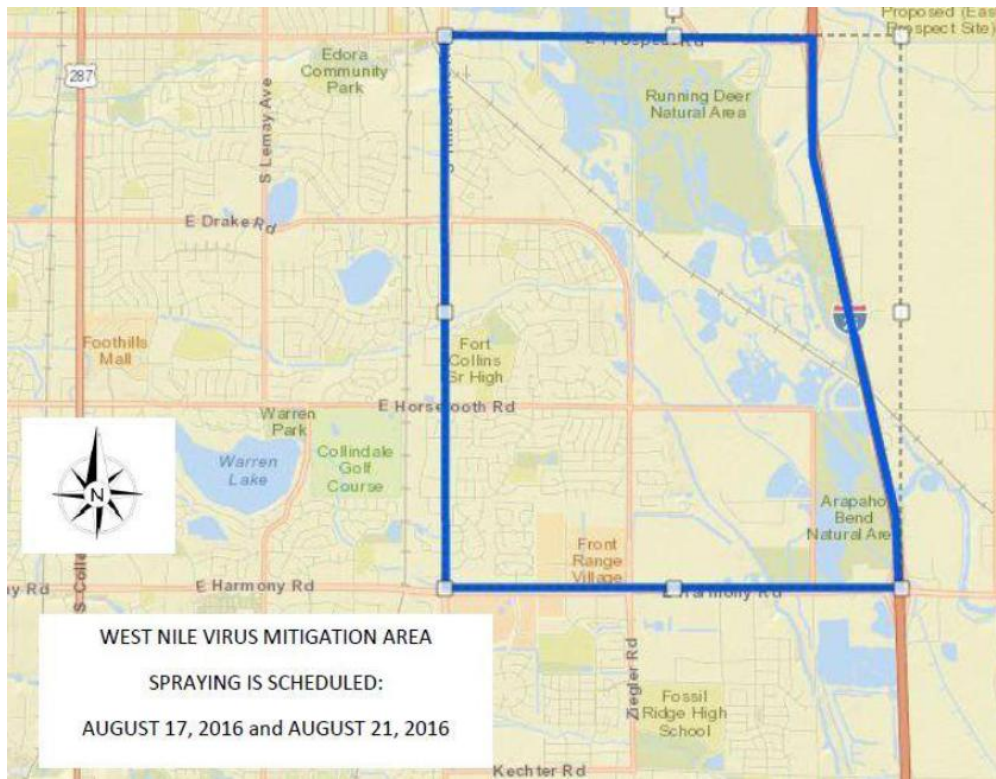
The Larimer County Department of Health and Environment fogged 522 miles of streets and alleyways within Fort Collins and Unincorporated Larimer County on August 8th, 10th, 17th, 21st, 28th and 31st.



WEST NILE VIRUS MITIGATION AREA 1
 SPRAYING IS SCHEDULED:
 AUGUST 8, 2016 and AUGUST 10, 2016



WEST NILE VIRUS MITIGATION AREAS 2 & 3
 SPRAYING IS SCHEDULED:
 AUGUST 8, 2016 and AUGUST 10, 2016



Public Relations

We received seventeen requests for information regarding aduicide operations.

Twelve calls from residents requesting shutoffs and/or notification during aduicide operations. Individuals were referred to the City of Fort Collins website.

Two calls from businesses requesting shutoffs during aduicide applications.

Four calls from residents reporting standing water and requesting larval site inspections. These sites were inspected and treated as necessary.