



CITY OF FORT COLLINS JULY 2015 MONTHLY REPORT

MONTHLY REPORT: AUGUST 3RD, 2015

COLORADO MOSQUITO CONTROL

West Nile Virus Risk

The number of confirmed cases of human West Nile virus (WNV) infection in Colorado as of the week ending in August 1st is at four with those cases being reported from Mesa and Larimer counties. 2 of these cases exhibited meningitis like symptoms while the others were non-symptomatic and identified from blood donors earlier this month. This number is likely to increase according to the CDPHE, as the majority of cases are identified in August and September, during the season's peak. During this time last year, 12 cases of human West Nile Virus infection had been identified in Colorado from nine different counties. While overall numbers are currently low, the vast majority of cases are reported in August and September, so continued use of personal protective measures is recommended by the Colorado Department of Health and Environment, the CDC and Colorado Mosquito Control.

Colorado State University has tested 602 sample pools of mosquitoes (13,183 *Cx. tarsalis*, 26 *Cx. spp.* & 3,527 *Cx. pipiens*) collected from mosquito traps in the City of Fort Collins during July 2015. Sixteen samples (pools) were found to be WN+ from mosquitoes collected in Fort Collins during July. The majority of the WN+ pools have been from the southeastern/eastern side of Fort Collins. Colorado State University has tested 104 sample pools of mosquitoes (5081 *Cx. tarsalis*, 83 *Cx. pipiens* and 1 *Cx. spp.*) collected from mosquito traps in the City of Loveland during July. Five samples collected from Loveland were positive in July.

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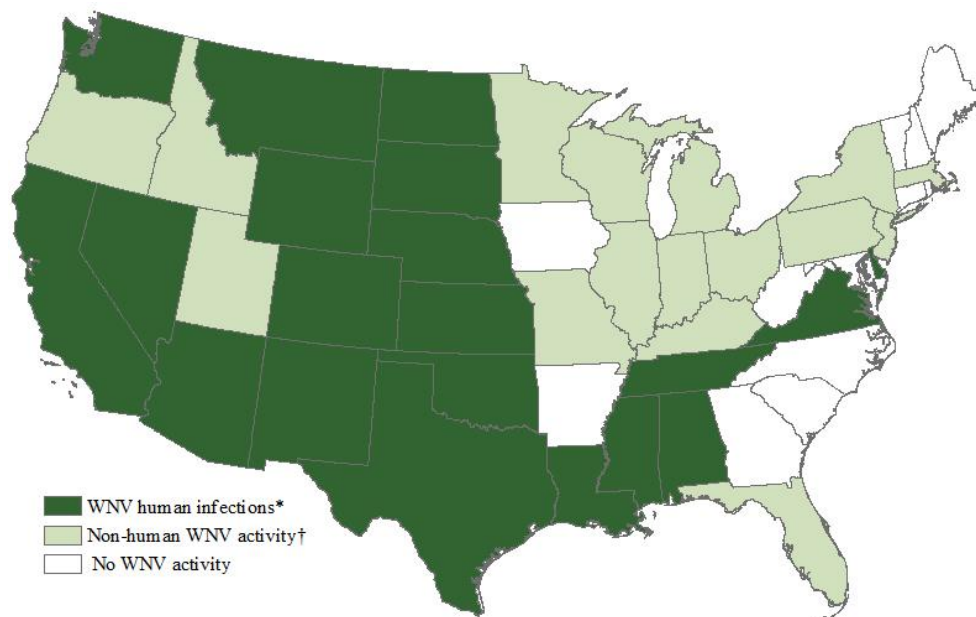
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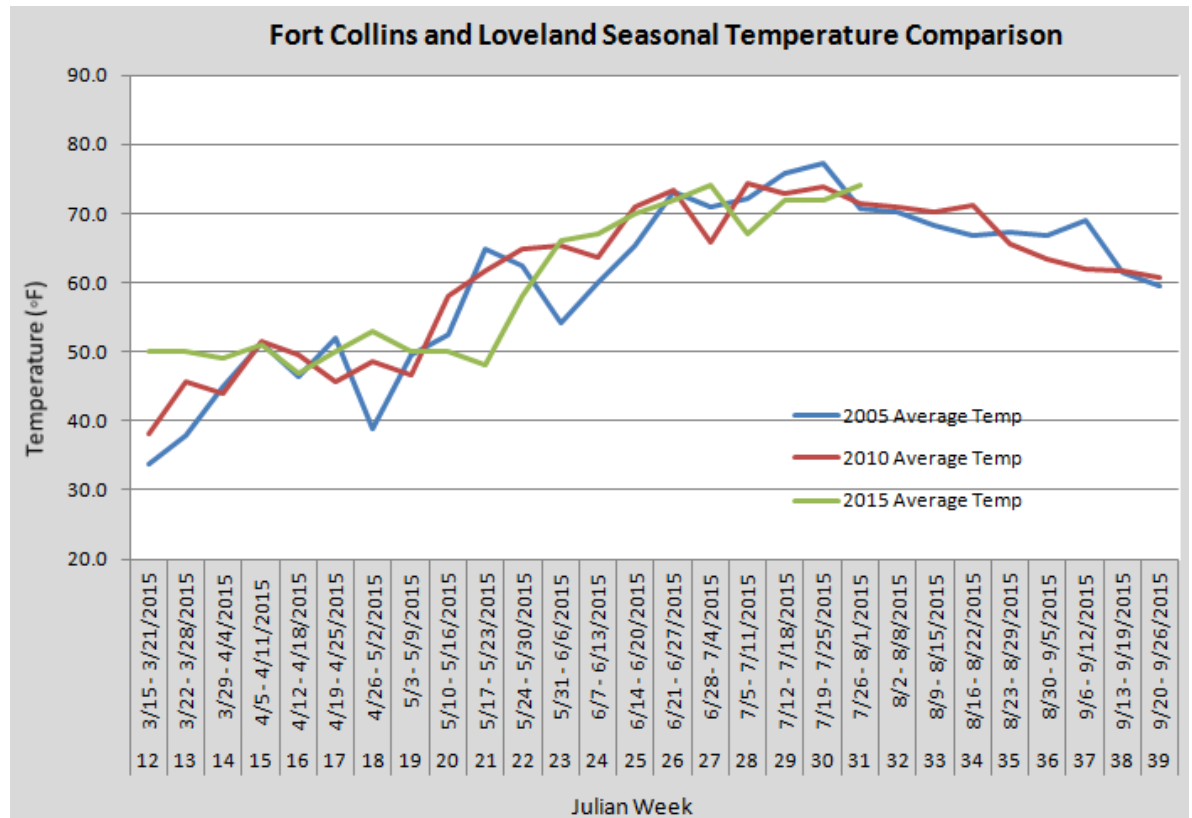
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West Nile Virus Activity by State - as of July 28, 2015



Weather

The average temperature in the month of July 2015 was 72°F in Loveland/Fort Collins, 72°F in Windsor, and 74°F in the City of Longmont. The total rainfall in the month of July 2014 was 0.92 inches in Loveland/Fort Collins, 0.92 inches in Windsor and 0.0 inches in the City of Longmont.



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 2,106 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). An estimated 2.1 billion larvae were killed before emerging in July 2015. 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 field technicians performed 2,183 site inspections as part of the inspection and larviciding program for the City of Fort Collins in July 2014. Of the 2,183 inspections, 1,950 sites were wet (89.3%) and 1,326 sites were producing mosquito larvae (67.6% of the wet sites). An estimated 3.9 billion larvae were killed before emerging in July 2014. Of the 1,148.7 acres treated in July 2014, 12,262.0 lbs. of VectoBac (*Bti*), 120.3 lbs. of VectoLex (*Bsph*), and 73.2 gallons of BVA mosquito larviciding oil were applied.

CMC's backyard technician performed 55 site inspections as a part of the Fort Collins backyard program in July 2015. Of the 55 inspections, 40 sites (90.7%) were wet and 32 (32.7%) were producing or had the potential to produce mosquito larvae. CMC's storm drain technician performed 51 storm inspections as a part of the Fort Collins storm drain program in July 2015. Of the 51 inspections, 24 sites (47.1%) were wet and 19 (12.5%) were producing mosquito larvae or had the potential to produce larvae.

Mosquito Population Surveillance

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 185 light traps set in Fort Collins the month of July 2014. Of the 185 light traps set; a total of 38,150 mosquitoes were collected. There were 20,094 (52.7%) *Aedes spp.*, 735 (1.9%) *Culiseta spp.*, 16,160 (42.4%) *Culex tarsalis*, 939 (2.5%) *Culex pipiens*, 155 (<1%) *Culex spp.*, 14 (<1%) *Anopheles earlei*, and 53 (<1.0%) *Coquillettidia perturbans* mosquitoes collected. There was an average of 206 mosquitoes collected per trap night and 93 *Culex spp.* mosquitoes per trap night during July 2014 in the City of Fort Collins.

There were 45 gravid traps set in Fort Collins during the month of July 2015. Gravid traps set in the City of Fort Collins collected 2,409 total mosquitoes. There were 21 (<1.0%) *Aedes spp.*, 31 (<1.0%) *Culiseta inornata*, and 2,356 (98%) *Culex spp.* Mosquitoes collected.

There were 169 light traps set in the City of Loveland during July 2015. Mosquito surveillance traps set during July 2015 in Loveland collected a total of 20,753 mosquitoes. Of these there were 7,426 (36%) *Aedes spp.*, 639 (3%) *Culiseta inornata*, 1 (<1.0%) *Anopheles spp.*, 12,683 (61%) *Culex spp.* mosquitoes collected. There was an average of 122 mosquitoes collected per trap night and 75 *Culex spp.* mosquitoes per trap night during July 2015 in the City of Loveland.

There were 13 gravid traps set during the month of July 2015 in the City of Loveland. Gravid traps set in the City of Loveland collected 1089 total mosquitoes. There were 5 (<1.0%) *Culiseta spp.* and 1084 *Culex spp.* mosquitoes collected from gravid traps.

Adult Mosquito Control Operations

CMC is contracted to perform mosquito adulticiding in Green Stone HOA, Willow Springs HOA and Lindenwood HOA during 2015, when mosquito counts surpass 100 mosquitoes in a single trapping night. The City of Fort Collins has not budgeted money for adulticiding for 2015.

CMC performed 2 truck ULV applications using AquaLuer 20-20 in Lindenwood HOA due to mosquito traps that contained more than 100 mosquitoes. A total of 5 miles of road were driven in these applications. CMC performed 2 truck ULV applications in Willow Springs HOA, totaling 5.3 miles of roads.

Customer	Subdiv/Area	Material	Start Time	End Time	Miles
Lindenwood HOA					
Truck					
07/15/2015	LINDENWOOD	Aqualuer	20:25:00	20:43:00	3.0
07/29/2015		Aqualuer	20:33:00	20:49:00	2.0
Truck				Sum	5.0
				Avg	2.5
				Min	2.0
				Max	3.0
Willow Springs HOA					
Truck					
07/01/2015	WILLOW SPRINGS	Aqualuer	23:13:00	23:36:00	5.0
07/01/2015	WILLOW SPRINGS	Aqualuer	23:46:00	23:52:00	0.3
Truck				Sum	5.3
				Avg	2.7
				Min	0.3
				Max	5.0
Grand Total					10.3
CMMS - Comprehensive Mosquito Management System			©2014 Colorado Mosquito Control		
Monday, August 03, 2015		ADULT-002			1

Public Relations

CMC received 5 phone calls from the residents of Fort Collins during the month of July 2014. 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 one call from a resident requesting to be added to the Call Notification and Shutoff List. He was also advised to access the Fort Collins West Nile website as well. CMC added their information to the list. CMC received 2 call requesting information about private sprayings. CMC gave information about the costs of private sprayings.