



TOWN OF WINDSOR

JUNE 2016 MONTHLY REPORT

MONTHLY REPORT: JULY 6, 2016

COLORADO MOSQUITO CONTROL

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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 on June 17th, 2016. We have had only one confirmed mosquito pool infected with West Nile virus in Colorado as of July 5th, 2016. Last year this time we did not detect any positive WNV activity. In 2014 we had seen 10 confirmed mosquito pools infected with West Nile virus with 2 WN+ pools from Adams Co., 2 from Boulder Co., 1 from Mesa Co., 1 from Delta Co., and 4 WN+ pools from Weld County. At present Colorado reports a single human West Nile virus positive individual presenting with West Nile fever

Colorado State University has tested a total of 217 sample pools of mosquitoes containing 1,605 *Cx. tarsalis* mosquitoes, 681 *Cx. pipiens* mosquitoes, 4 *Cx. spp* mosquitoes collected in both the Loveland and Fort Collins area as of June 30th, 2016. All mosquitoes which were collected from traps set in Fort Collins have been negative for WNV, to date. Larimer county reports one positive mosquito pool collected from trap LV-120 in Loveland, Colorado on June 29th.

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.

Weather

Higher than average snowpack (210%) led to increased flooding along river corridors throughout northern Colorado during the first part of June. Receding floodwaters have kept larval production at a fast pace during the second half of the month but cooler than average temperatures have kept overall trap counts below historical averages. We saw an expected spike in *Cx. tarsalis* larvae occurring in the 2nd and 3rd weeks of June. The species composition of *Cx. tarsalis* mosquito larvae increased largely as a result of warm temperatures and stagnant pools of water left behind after flooding. Subsequent increases in adult *Cx. tarsalis* abundance data were observed from mosquito trapping at the end of June.

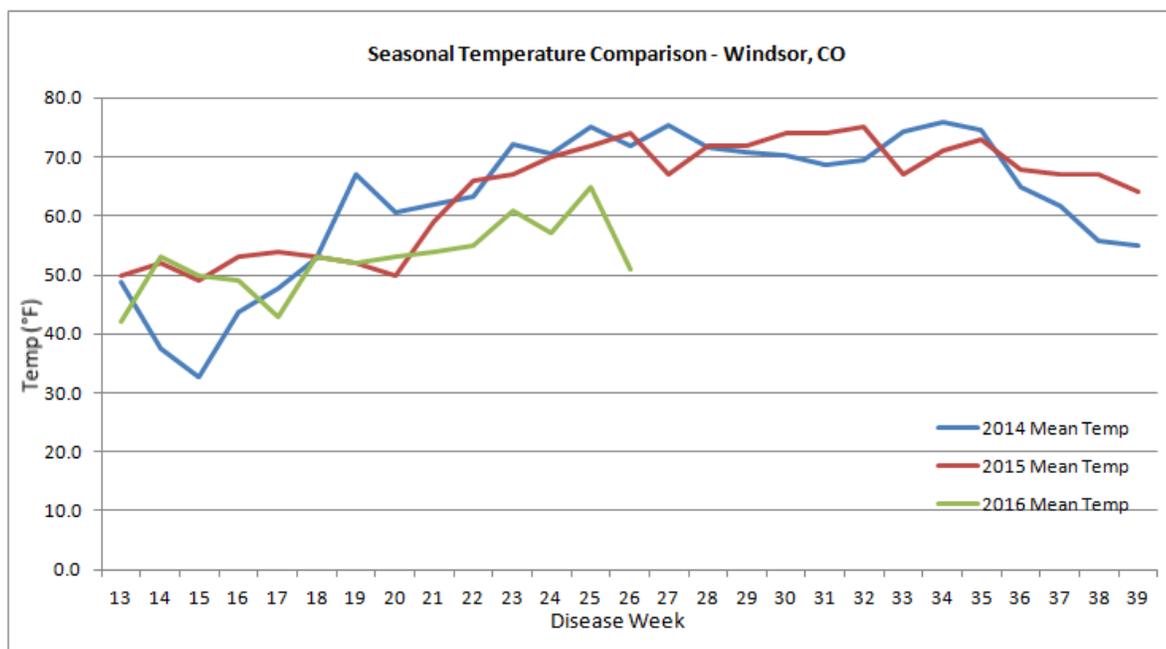
The average temperature in the month of June 2016 was 57.8 °F which is cooler than average. Total rainfall in the month of June 2016 was .17 inches. Again, much lower than the 2.36" we saw fall in June of 2015.

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 596 site inspections in the month of June 2016 as part of the inspection and larviciding program for the Town of Windsor. Of the 596 inspections, 535 sites were wet (89.9%) and 225 were producing larvae (42.1%). Of the 235.7 acres treated in June of 2016 1,259 lbs of Vectobac (Bti) and 12.1 gallons of BVA mineral oil were applied.

CMC field technicians performed 567 site inspections in the month of June 2015 as part of the inspection and larviciding program for the Town of Windsor. Of the 567 inspections, 524 sites were wet (92.4%) and 251 were producing larvae (46.9%). Of the 176.8 acres treated in June of 2016 1,355 lbs of Vectobac (Bti) and 5.7 gallons of BVA mineral oil were applied.

Mosquito Population Surveillance

There were 40 light traps set in the Town of Windsor during the month of June 2016. Of the 40 light traps set, a total of 11,527 mosquitoes were collected. There were 11,527 (96.3%) *Aedes spp.*, 5 (<1%) *Culesita spp.*, and 432 (3.6%) *Culex spp.* mosquitoes collected. There was an average of 299 mosquitoes per trap night and 11 *Culex spp.* mosquitoes per trap night collected in the Town of Windsor during 2016.

There were 40 light traps set in the Town of Windsor during the month of June 2015. Of the 40 light traps set, a total of 11,738 mosquitoes were collected. There were 10,156 (87%) *Aedes spp.*, 27 (<1%) *Culesita spp.*, and 1,555 (13%) *Culex spp.* mosquitoes collected. There was an average of 293 mosquitoes per trap night and 38 *Culex spp.* mosquitoes per trap night collected in the Town of Windsor during 2015.

Adult Mosquito Control Operations

During the month of June 2016, 150.5 miles of roads within city limits were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaLuer mosquito adulticides to reduce adult mosquito populations. Truck based ULV applications were performed at request of the city to suppress mosquito abundance detected in surveillance traps which surpassed the disease threshold of 100 mosquitoes in an individual trap night.

Backpack barrier applications were performed at Pelican Lakes Country Club and Eastman Parks on June 9th and 15th, 2016.



Colorado Mosquito Control

Adulticide Data

Customer	Subdiv/Area	Material	Start Time	End Time	Miles	
Windsor, Town of						
Backpack						
06/09/2016	Pelican Lakes	Talstar	08:00:00	10:00:00	1.0	
06/15/2016	Eastman Park	Talstar	13:55:00	14:55:00	1.5	
Backpack					Sum	2.5
					Avg	1.3
					Min	1.0
					Max	1.5
					Max	1.5
Truck						
06/09/2016	Water Valley South	Aqua Kontrol 30 30	22:52:00	23:17:00	5.0	
06/09/2016	Water Valley North	Aqua Kontrol 30 30	23:28:00	12:05:00	9.0	
06/09/2016	Steeplechase	Aqua Kontrol 30 30	21:20:00	22:15:00	11.0	
06/09/2016	River Ridge	Aqua Kontrol 30 30	12:15:00	12:45:00	7.0	
06/09/2016	Lake Osterhout	Aqua Kontrol 30 30	20:32:00	21:04:00	6.0	
06/09/2016	Hilltop Estates	Aqua Kontrol 30 30	22:28:00	22:45:00	4.0	
06/09/2016	Eastman Park	Aqua Kontrol 30 30	21:14:00	21:17:00	0.0	
06/09/2016	East of 7th	Aqua Kontrol 30 30	22:26:00	23:24:00	13.0	
06/09/2016	West of 7th	Aqua Kontrol 30 30	21:27:00	22:21:00	10.0	
06/16/2016	River Ridge	Aqua Kontrol 30 30	23:22:00	23:53:00	7.0	
06/16/2016	East of 7th	Aqua Kontrol 30 30	20:40:00	21:51:00	14.0	
06/16/2016	West of 7th	Aqua Kontrol 30 30	22:11:00	23:10:00	12.0	
06/23/2016	West of 7th	Aqua Kontrol 30 30	20:52:00	21:44:00	12.0	
06/23/2016	Eastman Park	Aqua Kontrol 30 30	22:24:00	22:26:00	1.0	
06/30/2016	RIVER RIDGE	Aqua Kontrol 30 30	22:09:00	22:17:00	7.0	
06/30/2016	LAKE OSTERHOUT	Aqua Kontrol 30 30	23:36:00	12:06:00	6.0	
06/30/2016	EASTMAN PARK	Aqua Kontrol 30 30	22:21:00	22:23:00	0.0	
06/30/2016	EASTMAN PARK	Aqua Kontrol 30 30	22:21:00	22:23:00	0.0	
06/30/2016	EAST OR 7TH	Aqua Kontrol 30 30	21:07:00	22:11:00	12.0	
06/30/2016	WEST OF 7TH	Aqua Kontrol 30 30	22:33:00	11:29:00	12.0	
Truck					Sum	148.0
					Avg	7.4
					Min	0.0
					Max	14.0
Grand Total					150.5	

Public Relations

CMC received 23 phone calls from the residents of Windsor during the month of June 2016. There were 2 new larval mosquito sites reported. Both of these reports were inspected and treated due to larval production or potential larval production. CMC received 17 mosquito annoyance calls and requests for information from the Eastman Park and Downtown areas. CMC received 4 requests for barrier applications at private residents which were performed at the property owner's request.