



TOWN OF WINDSOR AUGUST 2016 MONTHLY REPORT

MONTHLY REPORT: SEPTEMBER 1, 2016

COLORADO MOSQUITO CONTROL

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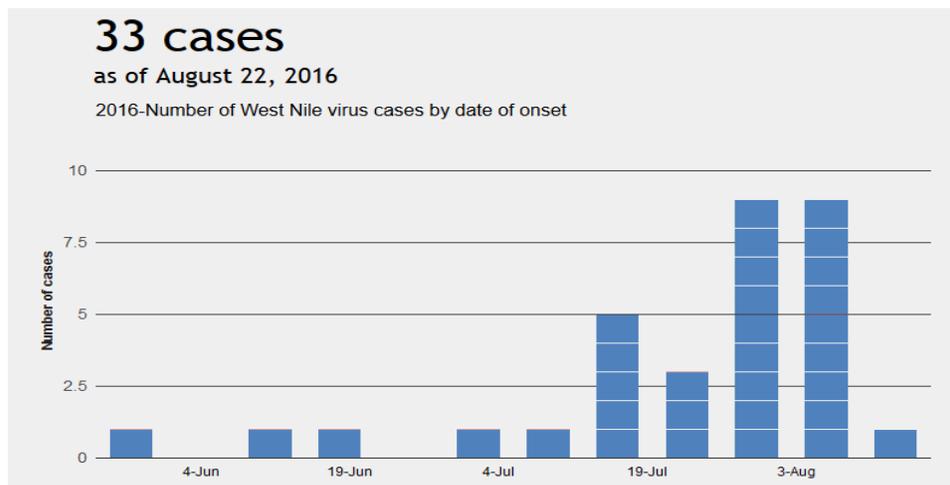
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West Nile Virus Risk

The number of confirmed cases of human West Nile virus infections in Colorado for the 2016 season is currently at 33 with 11 of those cases being reported from Larimer County and 5 from Weld County. This 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.

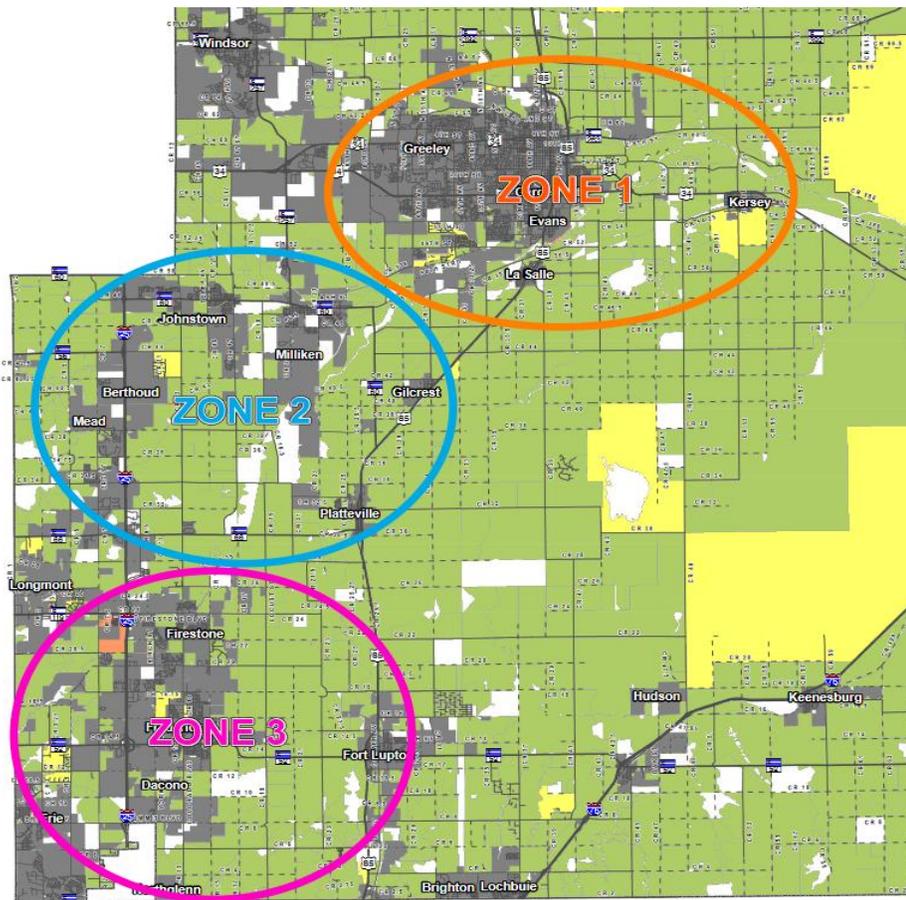


Cases by county of residence

County	Human cases
Adams	1
Bent	2
Boulder	5
Broomfield	1
Douglas	1
El Paso	1
Gunnison	1
Larimer	11
Morgan	0
Otero	3
Rio Blanco	1
Sedgwick	1
Weld	5
Total	33

WELD COUNTY VECTOR INDEX ACTIVITY - 2016

Vector Index Log				
Season Week	Zone1	Zone2	Zone3	% mosquitoes that may transmit WNV
June 12-18, 2016	0.00	0.00	0.00	3%
June 19-25, 2016	0.00	0.00	0.00	16%
June 26- July 2, 2016	0.00	0.00	0.00	16%
July 3- July 9, 2016	-	-	-	13%
July 10- July 16, 2016	1.16	0.00	0.25	38%
July 17- July 23, 2016	0.40	0.22	0.00	37%
July 24- July 30, 2016	0.20	0.99	0.28	64%
July 31- August 6, 2016	2.75	2.38	1.67	57%
August 7-13, 2016	2.71	1.18	0.45	55%
August 14-20, 2016	1.66	0.64	0.19	39%



As of August 28th, Colorado State University has tested 212 sample pools of *Cx. pipiens* mosquitoes and 213 sample pools of *Cx. tarsalis* mosquitoes collected from surveillance traps in the City of Fort Collins during August 2016. There were 48 WNV+ pools of *Cx. pipiens* and 29 WNV+ pools of *Cx. tarsalis* collected from Fort Collins during August.

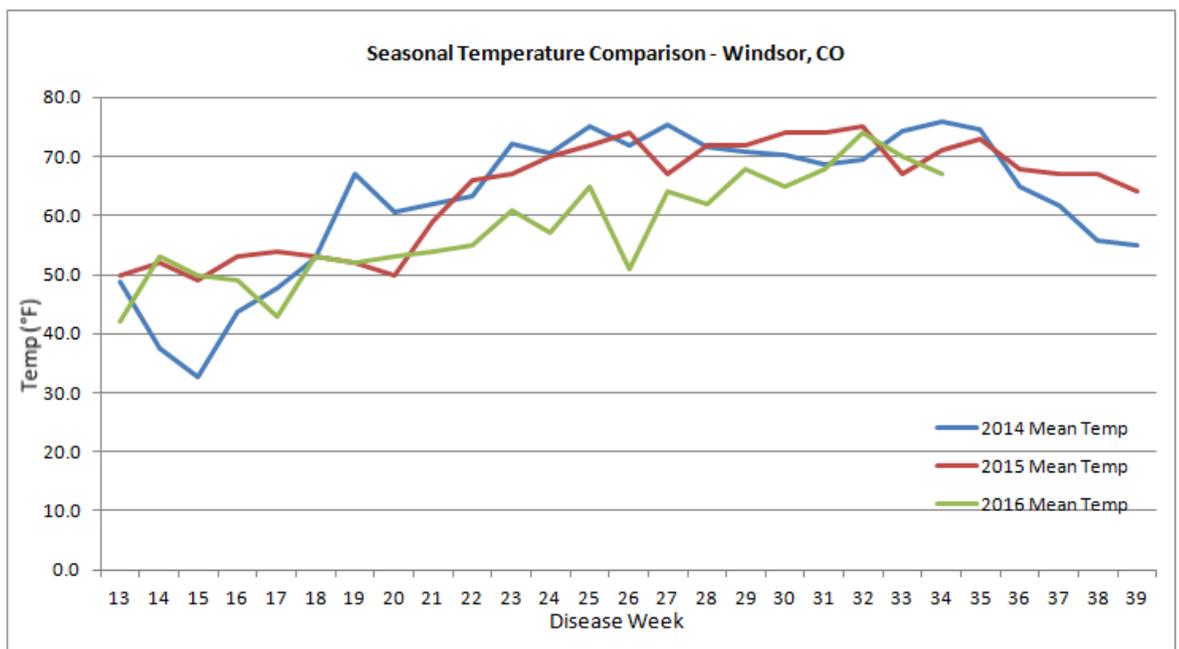
Colorado State University tested 25 sample pools of *Cx. pipiens* mosquitoes and 38 sample pools of *Cx. tarsalis* mosquitoes collected from mosquito traps in the City of Loveland during August 2016. There was 4 WNV+ pools of *Cx. pipiens* and 6 WNV+ pools of *Cx. tarsalis* collected from the City of 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.

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 Windsor and after two months of abnormally dry conditions, we have entered into a moderate drought, according to the U.S. Drought Monitor. The total rainfall which occurred in Windsor 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 486 site inspections in the month of August 2016 as part of the inspection and larviciding program for the Town of Windsor. Of the 486 inspections, 362 sites were wet (74.5% of the total inspected sites) and 128 sites were producing larvae (35.4% of the wet sites). Of the 103.4 acres treated in August 2015, 534 lbs. of VectoBac (*Bti*) was applied.

CMC field technicians performed 313 site inspections in the month of August 2015 as part of the inspection and larviciding program for the Town of Windsor. Of the 313 inspections, 257 sites were wet (82.1% of the total inspected sites) and 195 sites were producing larvae (75.9% of the wet sites). Of the 180.1 acres treated in August 2015, 1207.9 lbs. of VectoBac (*Bti*) and 1.3 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 August 2016. Of the 40 light traps set, a total of 2,319 mosquitoes were collected. There were 1,051 (45.0%) *Aedes spp.*, 7 (<1.0%) *Culiseta inornata*, and 1,261 (43%) *Culex spp.* mosquitoes collected. There was an average of 57 mosquitoes per trap per night and 31 *Culex spp.* mosquitoes per trap per night collected in the Town of Windsor during August 2016.

There were 40 light traps set in the Town of Windsor during the month of August 2015. Of the 40 light traps set, a total of 2,842 mosquitoes were collected. There were 1,628 (57.0%) *Aedes spp.*, 1 (<1.0%) *Culiseta inornata*, 1,212 (43%) *Culex spp.* mosquitoes collected. There was an average of 71 mosquitoes per trap per night and 30 *Culex spp.* mosquitoes per trap per night collected in the Town of Windsor during August 2015.

Adult Mosquito Control Operations

Adult mosquito control operations were performed only once within the Town of Windsor on August 4th, 11th and 18th. These applications included 61 miles of streets and were done via Ultra Low Volume truck fogging units utilizing AquaKontrol3030 (Permethrin).



Colorado Mosquito Control

Adulticide Data

Customer	Subdiv/Area	Material	Start Time	End Time	Miles	
Windsor, Town of						
Truck						
	08/04/2016 River Ridge	Aqua Kontrol 30 30	12:15:00	12:32:00	3.0	
	08/04/2016 Lake Osterhout	Aqua Kontrol 30 30	23:13:00	12:09:00	13.0	
	08/04/2016 East of 7th	Aqua Kontrol 30 30	21:40:00	22:03:00	15.0	
	08/04/2016 West of 7th	Aqua Kontrol 30 30	20:34:00	21:39:00	11.0	
	08/11/2016 River West	Aqua Kontrol 30 30	20:37:00	21:00:00	4.0	
	08/11/2016 West of 7th	Aqua Kontrol 30 30	21:08:00	22:03:00	11.0	
	08/18/2016 River Ridge	Aqua Kontrol 30 30	21:30:00	21:50:00	4.0	
				Truck	Sum	61.0
					Avg	8.7
					Min	3.0
					Max	15.0
					Grand Total	61.0

Public Relations

CMC received 3 phone calls from residents of Windsor during August 2016. Two from residents in the Eastern part of town reporting mosquito annoyance. A floater trap was set and collected only 8 mosquitoes. The other call was a report of standing water and the location was inspected and added to our weekly inspection routine.