



TOWN OF BERTHOUD

AUGUST 2018 MONTHLY REPORT

Contact VDCI:

**Northern
Colorado
Operations
Manager**

Broox Boze, Ph.D.

**Phone
(970)962-2582**

**Fax
(970)962-2584**

**E-Mail:
bboze@ vdcI.net**

**Website:
www.vdci.net**

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

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

West Nile Virus Risk

As of September 4, 2018, a total of 45 states and the District of Columbia have reported West Nile virus infections in people, birds, or mosquitoes in 2018. Overall, 559 cases of West Nile virus disease in people have been reported to CDC. Of these, 312 (56%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 247 (44%) were classified as non-neuroinvasive disease.

West Nile Virus Activity by State – United States, 2018 (as of September 4, 2018)



*WNV human disease cases or presumptive viremic blood donors. Presumptive viremic blood donors have a positive screening test which has not necessarily been confirmed.

The Centers for Disease Control has reported 16 cases of human West Nile virus (WNV) infections from the state of Colorado. 8 of these cases were neuroinvasive including symptoms of meningitis or encephalitis (including meningoencephalitis), and 8 were non-neuroinvasive which includes cases where individuals are non-symptomatic or present with fever and other minor symptoms. To date, there have been no deaths associated with West Nile virus infections from Colorado in 2018.

West Nile Virus Disease Cases by State 2018



West Nile Virus Disease Cases* and Presumptive Viremic Blood Donors by State – United States, 2018 (as of September 4, 2018)

State	Neuroinvasive Disease Cases†	Non-neuroinvasive Disease Cases	Total cases	Deaths	Presumptive viremic blood donors‡
Colorado	8	8	16	0	1

(<https://www.cdc.gov/westnile/statsmaps/preliminarymapsdata2018/disease-cases-state.html>)

Wear Your Repellent!

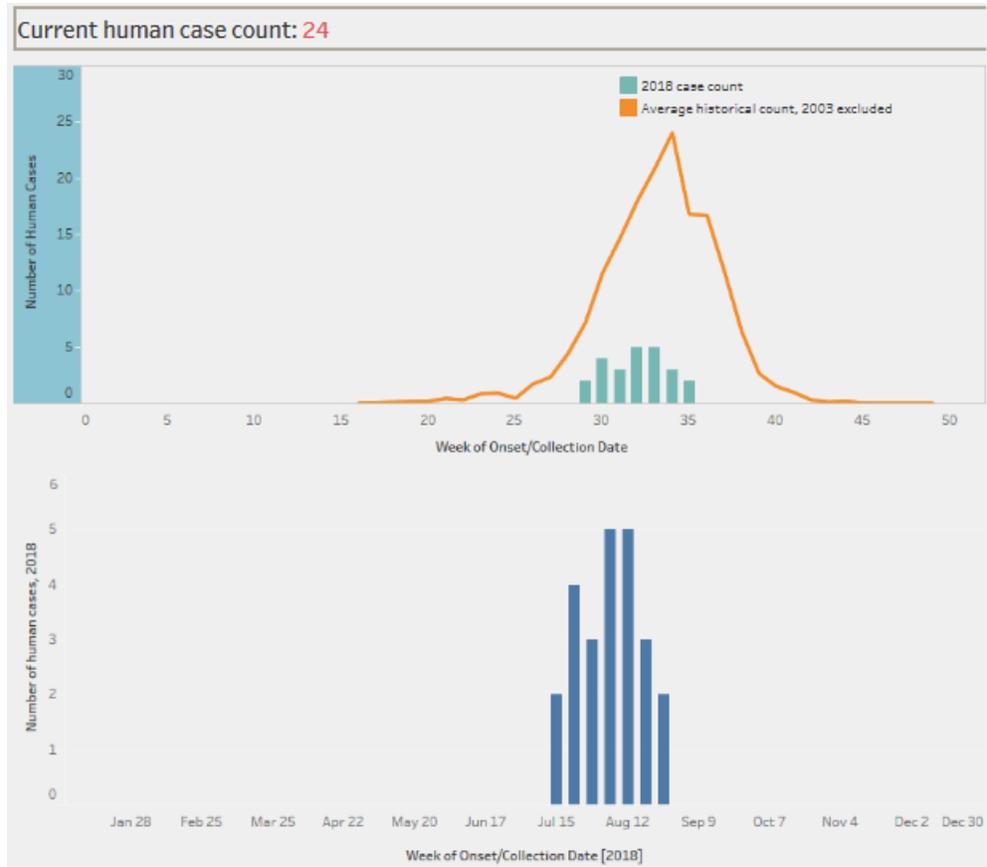
Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

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.

The Colorado Department of Health and Environment (CDPHE) reports a total of 24 human cases of West Nile virus infection from the state of Colorado. Many of these human cases are concentrated in Northern Colorado with 9 human cases reported from Larimer County, 4 from Weld County and 2 from Boulder County. While we have passed the historical peak of WNV risk these numbers are expected to rise as there is often a delay in onset of symptoms, diagnosis and reporting. Please note that the additional cases reported by CDPHE will also be reported to the Centers for Disease Control.

Nine Counties across the state of Colorado have reported human West Nile virus infection. These include Larimer, Boulder, Weld, Clear Creek, Delta, Logan, Mesa, Montrose and Washington.



Weather

The Larimer/Weld County area experienced near normal temperatures and significantly less precipitation, when compared to the historical averages, during August 2018. Variable weather conditions, such as precipitation and temperature, can cause significant changes in larval mosquito habitats and overall population dynamics. As such, sites will continue to be inspected at their routine frequency until the end of the mosquito season. If mosquito larvae or pupae are found during a site inspection, appropriate control measures will be taken.

Larval Control Operations

VDCI field technicians performed 102 site inspections in the month of August 2018 as part of the Town of Berthoud's inspection and larviciding program. Of those 102 site inspections, 93 sites (91.2%) were wet and 50 sites were producing mosquito larvae (53.8% of the wet sites). A total of 42.7 acres were treated with 184.2 lbs. of Vectobac (*Bti*) and 2.5 gallons of BVA Mineral Oil to prevent mosquito larvae from emerging as adults.

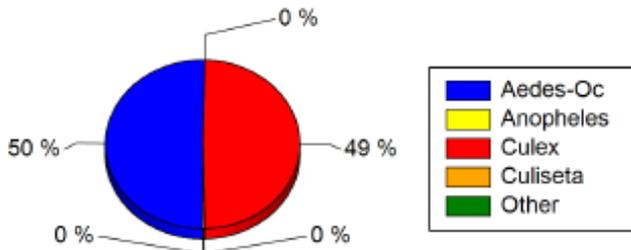
Mosquito Population Surveillance

In August of 2018, VDCI set four traps weekly within the Town of Berthoud to monitor mosquito abundance. There were a total of 20 traps set, which collected a total of 1,342 mosquitoes. The species composition of mosquito collected included 676 (50.4%) *Aedes* spp., 5 (<1%) *Culiseta* spp., 661 (49.3%) *Culex* spp. There was an average of 67 mosquitoes per trap night and 33 *Culex* mosquitoes per trap night in August 2018 for the Town of Berthoud.

Vector Disease Control International

Trap Data - Genus Summary

Trap #	Type	County	Date		AefOc	An	Cx	Cs	
LC-001	LIGHT	Larimer	08/01/2018	Berthoud	70	0	121	0	0
LC-001	LIGHT	Larimer	08/08/2018	Berthoud	60	0	43	0	0
LC-001	LIGHT	Larimer	08/15/2018	Berthoud	14	0	52	0	0
LC-001	LIGHT	Larimer	08/22/2018	Berthoud	10	0	10	0	0
LC-001	LIGHT	Larimer	08/28/2018	Berthoud	28	0	4	1	0
LC-049	LIGHT	Larimer	08/01/2018	Berthoud North of Bunyan	53	0	0	0	0
LC-049	LIGHT	Larimer	08/08/2018	Berthoud North of Bunyan	14	0	14	0	0
LC-049	LIGHT	Larimer	08/15/2018	Berthoud North of Bunyan	6	0	5	0	0
LC-049	LIGHT	Larimer	08/22/2018	Berthoud North of Bunyan	3	0	1	1	0
LC-049	LIGHT	Larimer	08/28/2018	Berthoud North of Bunyan	30	0	5	0	0
LC-053	LIGHT	Larimer	08/01/2018	Berthoud West	29	0	94	0	0
LC-053	LIGHT	Larimer	08/08/2018	Berthoud West	15	0	5	0	0
LC-053	LIGHT	Larimer	08/15/2018	Berthoud West	19	0	27	0	0
LC-053	LIGHT	Larimer	08/22/2018	Berthoud West	20	0	9	0	0
LC-053	LIGHT	Larimer	08/28/2018	Berthoud West	5	0	0	0	0
LC-054	LIGHT	Larimer	08/01/2018	Berthoud Point	62	0	120	0	0
LC-054	LIGHT	Larimer	08/08/2018	Berthoud Point	198	0	96	3	0
LC-054	LIGHT	Larimer	08/15/2018	Berthoud Point	10	0	9	0	0
LC-054	LIGHT	Larimer	08/22/2018	Berthoud Point	19	0	21	0	0
LC-054	LIGHT	Larimer	08/28/2018	Berthoud Point	11	0	25	0	0
					676	0	661	5	0



Adult Mosquito Control Operations

The Town of Berthoud has not, and does not, have any plans for adult mosquito control operations in 2018.

Public Relations

VDCI received two information requests from residents of Berthoud in August of 2018.

Residents were directed to both the Town of Berthoud website in addition to VDCI's website (www.vdci.net/colorado) where weekly surveillance data is maintained and available at all times.

