



## Zoonotic Disease Report August 26 – August 31, 2018 (Week 35)

### Executive Summary

- Sixteen human West Nile virus cases are reported in Colorado: Larimer (7), Weld (4), Clear Creek (1), Delta (1), Mesa (1), Montrose (1), Washington (1).
- Nine mosquito pools were submitted for WNV testing, one testing positive. Testing for next week will be evaluated for continuation based on mosquito counts and test results.
- Statewide 101 mosquito pools, 24 raptors, and one horse have tested positive for WNV with the majority originating from Larimer and Weld counties.
- Mosquito counts are above average for the week.
- [2018 Colorado rabies positive specimens](#): Skunk (205), Bat (66), Raccoon (3), Cat (6), Dog (2), Alpaca (1).
- Boulder County reports four rabies positive specimens for the year: Bat (3), Skunk (1).
- No specimens were submitted for rabies, plague, tularemia, or hantavirus testing.

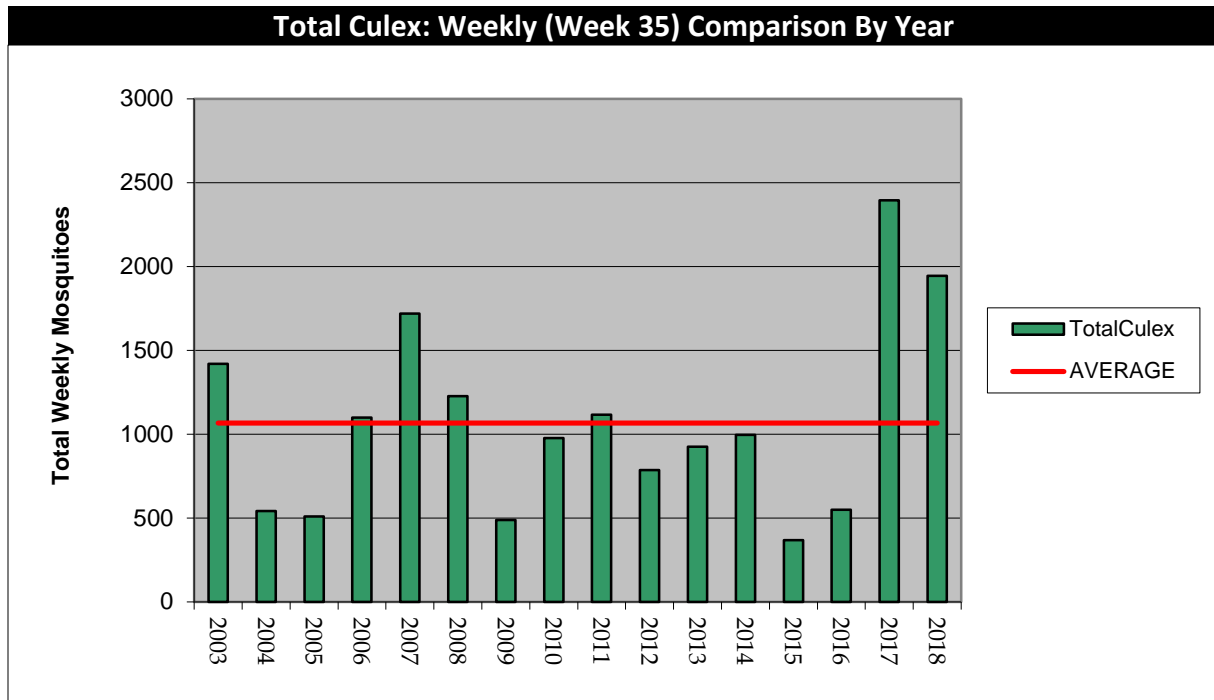
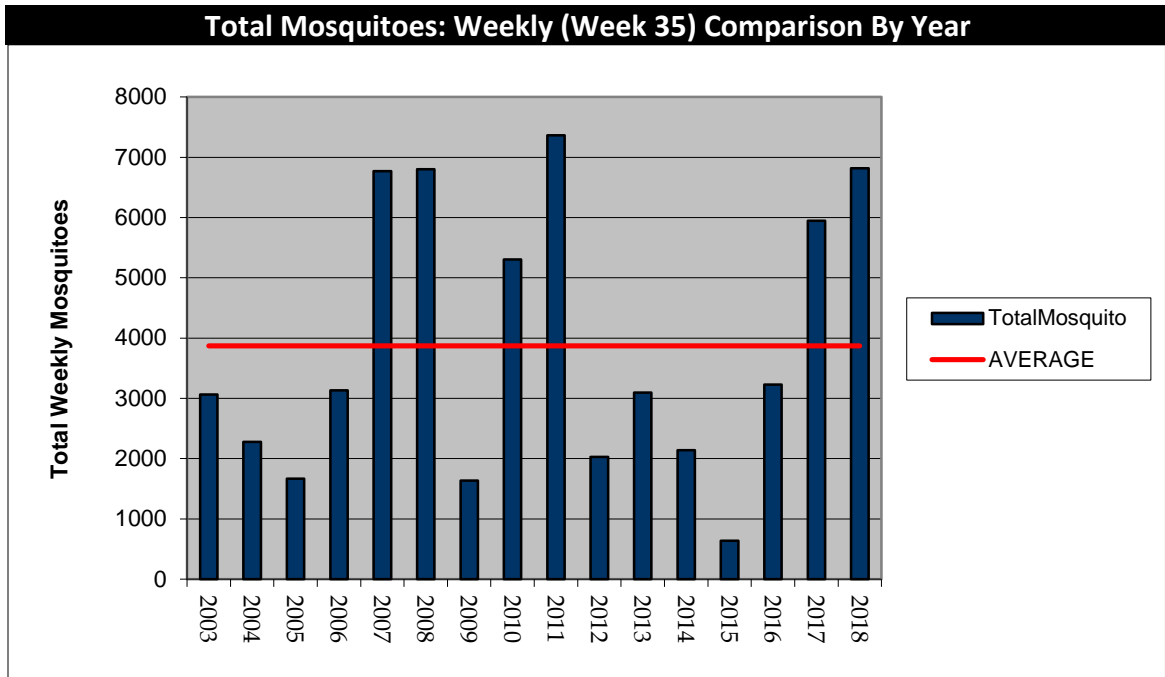
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### West Nile virus (WNV) Activity

SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY			
Location	Non-Neuroinvasive Disease Cases	Neuroinvasive Disease Cases	Deaths
<b>Boulder County</b>	0	0	0
<b>Colorado</b>	7	9	0
<b>United States</b>	98	133	8

NOTE: Numbers in red signify an increase from the previous week.

# Mosquito Activity



## West Nile virus (WNV) Vector Index

The vector index is a function of calculated infection rate, adjusted for *Culex* mosquito population size, within a given area. It is used to estimate human West Nile virus (WNV) transmission risk. A vector index of **0.75** or above in Boulder County is an indicator of high risk for WNV transmission to humans, and influences the Mosquito Control District's adult mosquito emergency control measures. A vector index is calculated for [three monitoring zones in Boulder County](#).

VECTOR INDEX			
	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	----	----	----
Week 24	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 25	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 26	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 27	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 28	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 29	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 30	<b>0.00</b>	<b>0.11</b>	<b>0.13</b>
Week 31	<b>0.00</b>	<b>0.00</b>	<b>0.48</b>
Week 32	<b>0.00</b>	<b>0.38</b>	<b>0.44</b>
Week 33	<b>0.00</b>	<b>0.20</b>	<b>0.19</b>
Week 34	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 35	<b>0.19</b>	<b>0.00</b>	<b>0.00</b>
Week 36			
Week 37			
Week 38			
Week 39			
Week 40			

## Animal Disease Activity

Each week, Boulder County and municipal Animal Control Units responds to animal complaints throughout the county. When deemed necessary, these specimens are sent to state laboratories for zoonotic disease testing.

### Caveats

- Data are provided from the Colorado Department of Public Health and Environment (CDPHE) Zoonotic database and may not include samples submitted for testing prior to publishing of this report.
- Data reflect all samples submitted by Boulder County Public Health, other agencies or private veterinary practices.
- ‘Positive Vectors’ include only samples that have tested positive. Some samples submitted may be deemed untestable.
- ‘Submitted Vectors’ denoted with (\*) indicate that at least one sample was untestable. Untestable samples may be treated as positive for follow-up protocol.

## Submissions and Results by Disease

	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	20	1	0	0	0	21	1	0	0	0	0	1
Wk21	4	1	1	0	0	6	0	0	0	0	0	0
Wk22	2	0	0	0	0	2	0	0	0	0	0	0
Wk23	3	0	0	0	0	3	0	0	0	0	0	0
Wk24	7	0	0	6	0	13	0	0	0	0	0	0
Wk25	5	1	1	6	0	13	1	0	0	0	0	1
Wk26	9	0	0	11	0	20	0	0	0	0	0	0
Wk27	2	0	0	28	0	30	0	0	0	0	0	0
Wk28	6	0	0	26	0	32	0	0	0	0	0	0
Wk29	4	0	0	17	0	21	0	0	0	0	0	0
Wk30	6	0	0	22	0	28	1	0	0	2	0	3
Wk31	8*	0	0	18	0	26	0	0	0	2	0	2
Wk32	6	0	0	17	0	23	0	0	0	4	0	4
Wk33	8*	0	0	20	0	28	0	0	0	2	0	2
Wk34	0	0	0	9	0	9	0	0	0	0	0	0
Wk35	3	0	0	9	0	12	1	0	0	1	0	2
Wk36												
Wk37												
Wk38												
Wk39												
Wk40												
<b>TOTAL TO DATE</b>	<b>93</b>	<b>3</b>	<b>2</b>	<b>189</b>	<b>0</b>	<b>287</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>15</b>

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	45	0	0	0
Skunk	5	0	0	0
Raccoon	27	0	0	0
Squirrel	0	1	0	0
Cat	10	1	1	0
Flea	0	0	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Rabbit	0	1	1	0
Other	2	0	0	0
<b>TOTALS</b>	<b>93</b>	<b>3</b>	<b>2</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	3	0	0	0
Skunk	1	0	0	0
Raccoon	0	0	0	0
Squirrel	0	0	0	0
Cat	0	0	0	0
Flea	0	0	0	0
Dog	0	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Rabbit	0	0	0	0
Other	0	0	0	0
<b>TOTALS</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Testing by Disease

