



Zoonotic Disease Report September 2 – September 8, 2018 (Week 36)

Executive Summary

- Three human West Nile virus cases have been confirmed in Boulder County. No new cases have been identified since last week.
- Nineteen human West Nile virus cases are reported in Colorado: Larimer (7), Weld (4), Boulder (3), Clear Creek (1), Delta (1), Mesa (1), Montrose (1), Washington (1).
- West Nile Virus testing has concluded for the season.
- Statewide 102 mosquito pools, 24 raptors, and one horse have tested positive for WNV with the majority originating from Larimer and Weld counties.
- Mosquito counts are below average for the week.
- [2018 Colorado rabies positive specimens](#): Skunk (205), Bat (66), Raccoon (3), Cat (6), Dog (2), Alpaca (1).
- Two bats and one raccoon were tested for rabies this week, one bat tested positive while the other bat and raccoon tested negative.
- Boulder County reports five rabies positive specimens for the year: Bat (4), Skunk (1).
- No specimens were submitted for plague, tularemia, or hantavirus testing.

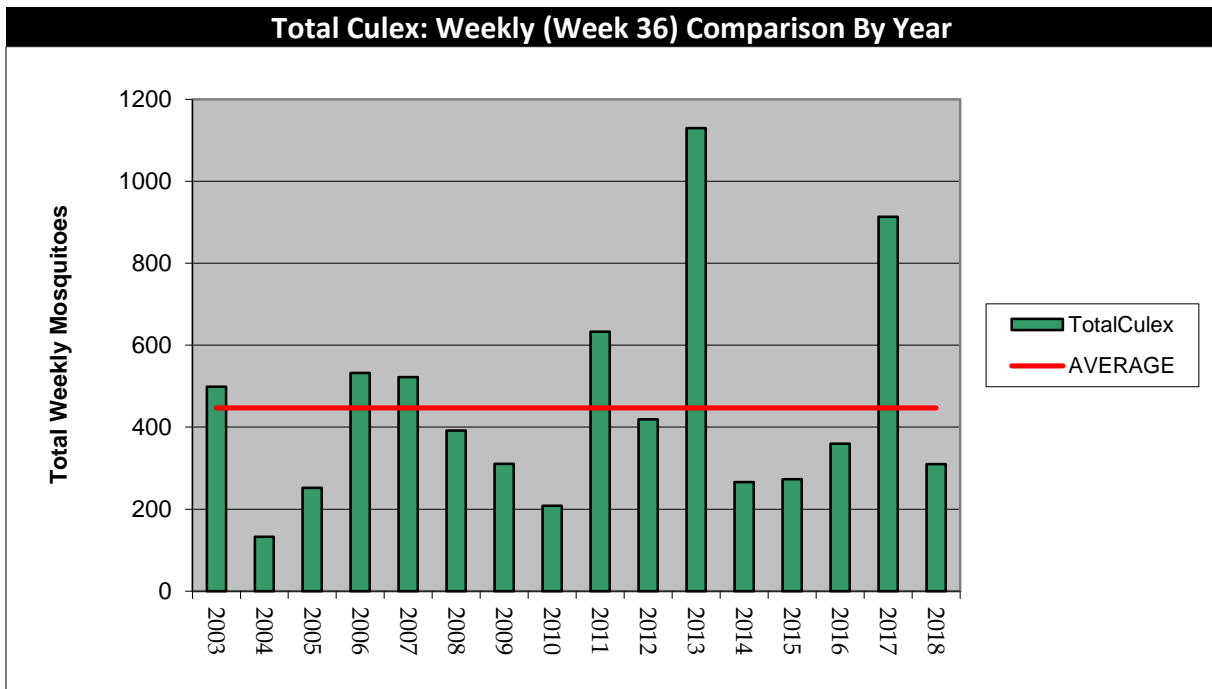
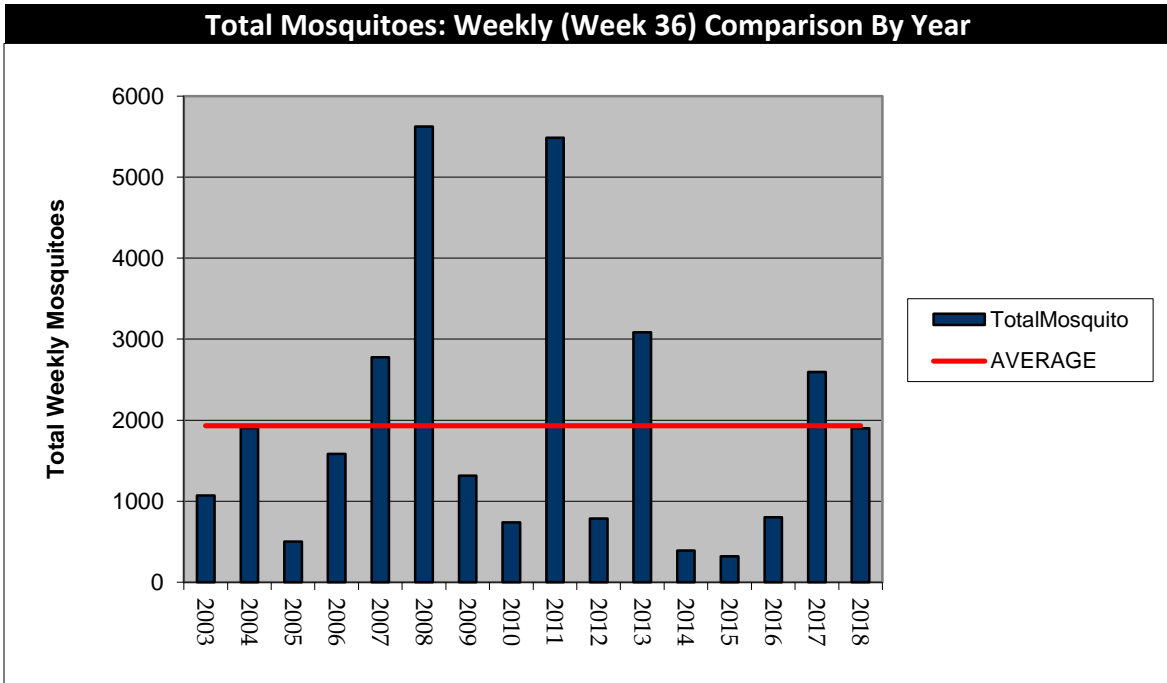
Information about symptoms, transmission, and prevention is always available at BoulderCountyVector.org

West Nile virus (WNV) Activity

SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY			
Location	Non-Neuroinvasive Disease Cases	Neuroinvasive Disease Cases	Deaths
Boulder County	0	0	0
Colorado	8	8	0
United States	247	312	18

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	0.00	0.00	0.00
Week 25	0.00	0.00	0.00
Week 26	0.00	0.00	0.00
Week 27	0.00	0.00	0.00
Week 28	0.00	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.00	0.11	0.13
Week 31	0.00	0.00	0.48
Week 32	0.00	0.38	0.44
Week 33	0.00	0.20	0.19
Week 34	0.00	0.00	0.00
Week 35	0.19	0.00	0.00
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	3	0	0	0	0	3	1	0	0	0	0	1
Wk37												
Wk38												
Wk39												
Wk40												
TOTAL TO DATE	97	3	2	189	0	291	5	0	0	11	0	16

Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	47	0	0	0
Skunk	5	0	0	0
Raccoon	29	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
TOTALS	97	3	2	0

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	4	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
TOTALS	4	0	0	0

Testing by Disease

