



Zoonotic Disease Report September 10 – September 16, 2017 (Week 37)

Executive Summary

- Boulder County reports one new human WNV case bringing the total to four cases this season.
- CDPHE reports 25 WNV cases and one death from 12 counties.
- CDC reports 740 WNV cases and 34 deaths nationally from 38 states.
- National, state, and local cases will increase as cases are identified through the fall.
- Both total mosquito and *Culex* species counts were above average for this season although fewer pools tested positive for WNV than in 2016.
- One bat was submitted for rabies testing this week, results are pending.
- Ninety two specimens have been submitted for rabies testing with six testing positive: Bat (5), Skunk (1). Multiple specimens were deemed untestable.
- Statewide 124 specimens have tested positive for rabies in 2017 including two domestic dogs. This compares with 88 total positive specimens in 2016.
- Colorado rabies positive specimens 2017: Skunk (64), Bat (52), Dog (2), Fox (5), Coyote (1).
- No specimens were submitted for plague, tularemia, or hantavirus testing this week.
- Seven specimens have been submitted for plague with one cat testing positive this year.
- Five specimens have been submitted for tularemia with none testing positive.
- No specimens have been submitted for hantavirus testing.
- Additional specimens may be submitted for testing through the remainder of the year.

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

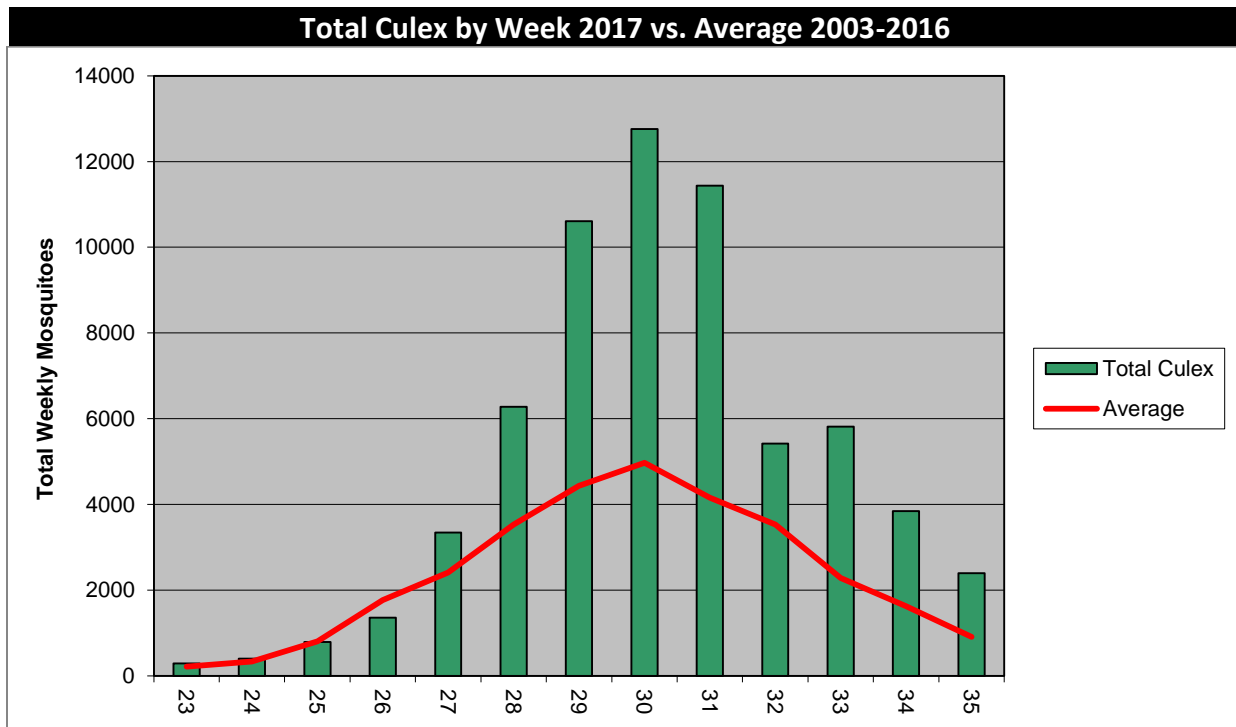
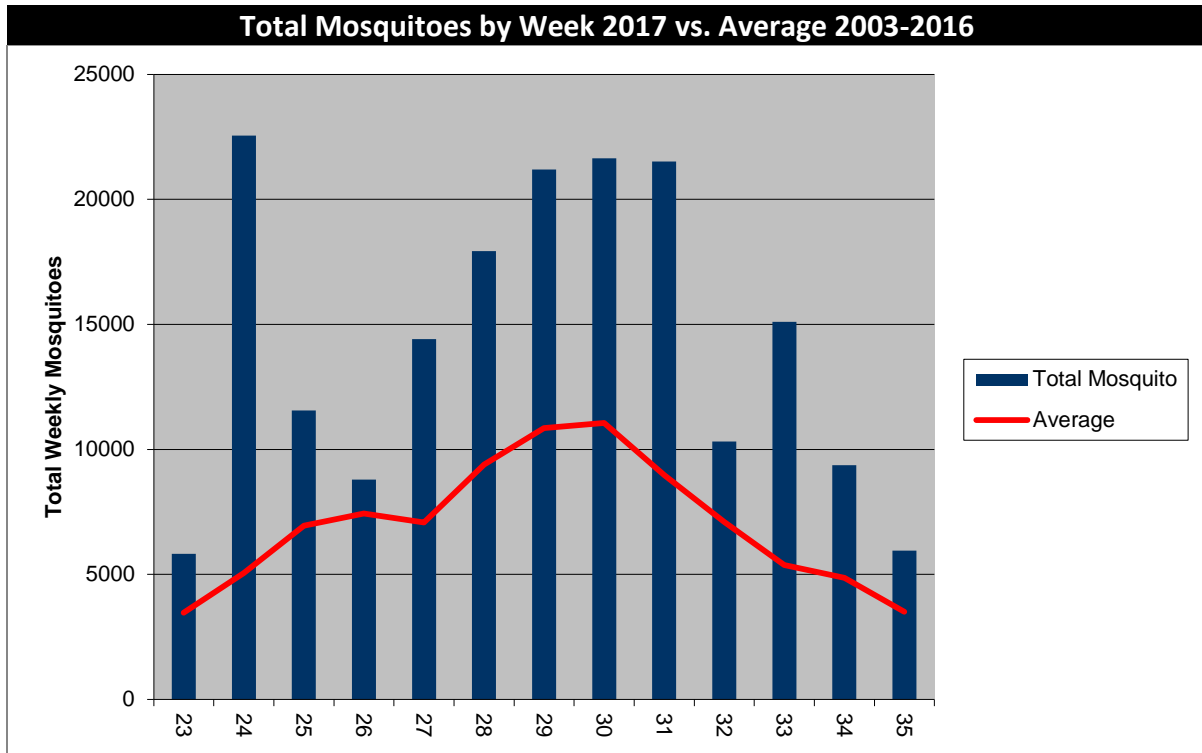
West Nile Virus (WNV) Activity

SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY			
Location	Non-Neuroinvasive Disease Cases	Neuroinvasive Disease Cases	Deaths
Boulder County	1	3	0
Colorado	15	10	1
United States	296	444	34

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

*** Indicates incomplete data

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	0.20
Week 30	0.00	0.36	0.38
Week 31	0.80	0.00	0.55
Week 32	0.00	0.00	0.00
Week 33	0.40	0.00	0.20
Week 34	0.20	0.64	0.19
Week 35	----	----	----
Week 36	----	----	----

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	*26	2	2	0	0	30	2	1	0	0	0	3
Wk21	2	0	0	0	0	2	0	0	0	0	0	0
Wk22	1	0	0	0	0	1	0	0	0	0	0	0
Wk23	5	0	0	0	0	5	0	0	0	0	0	0
Wk24	4	0	0	5	0	9	0	0	0	0	0	0
Wk25	5	1	0	6	0	12	1	0	0	0	0	1
Wk26	2	0	0	7	0	9	0	0	0	0	0	0
Wk27	3	2	2	13	0	20	2	0	0	0	0	2
Wk28	*6	0	0	21	0	27	0	0	0	0	0	0
Wk29	*10	0	0	25	0	35	1	0	0	1	0	2
Wk30	5	0	1	31	0	37	0	0	0	2	0	2
Wk31	*2	1	0	29	0	32	0	0	0	4	0	4
Wk32	4	0	0	19	0	23	0	0	0	0	0	0
Wk33	3	0	0	19	0	22	0	0	0	3	0	3
Wk34	6	1	0	13	0	20	0	0	0	5	0	5
Wk35	*4	0	0	0	0	4	0	0	0	0	0	0
Wk36	*3	0	0	0	0	3	0	0	0	0	0	0
Wk37	1	0	0	0	0	1	0	0	0	0	0	0
Wk38												
Wk39												
Wk40												
TOTAL TO DATE	92	7	5	188	0	291	6	1	0	15	0	22

Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	57	0	0	0
Skunk	1	0	0	0
Raccoon	22	1	1	0
Squirrel	0	0	1	0
Cat	7	5	2	0
Flea	0	0	0	0
Dog	5	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Rabbit	0	1	1	0
Other	0	0	0	0
TOTALS	92	7	5	0

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	5	0	0	0
Skunk	1	0	0	0
Raccoon	0	0	0	0
Squirrel	0	0	0	0
Cat	0	1	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	6	1	0	0

Testing by Disease

