



## Zoonotic Disease Report July 09 – July 15, 2017 (Week 28)

### Executive Summary

- No additional positive human or mosquito WNV activity was reported this week.
- Statewide 3 mosquito pools have tested positive for WNV.
- Both nuisance and vector mosquito species counts are higher than average across the county for this week.
- Twenty-one mosquito pools were submitted for testing for WNV this week. Zones 2 and 3 tested negative, results are pending for zone 1.
- One cat and three bats were submitted for rabies, all testing negative.
- Statewide 87 specimens have tested positive for rabies in 2017 including two domestic dogs in Yuma and Weld Counties. This compares with 88 total positive specimens in 2016.
- Colorado rabies positive specimens 2017: Skunk (53), Bat (26), Dog (2), Fox (5), Coyote (1)
- One raccoon and one rabbit were submitted for plague and tularemia at the end of last week, both testing negative.
- No specimens have been submitted for hantavirus testing.

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

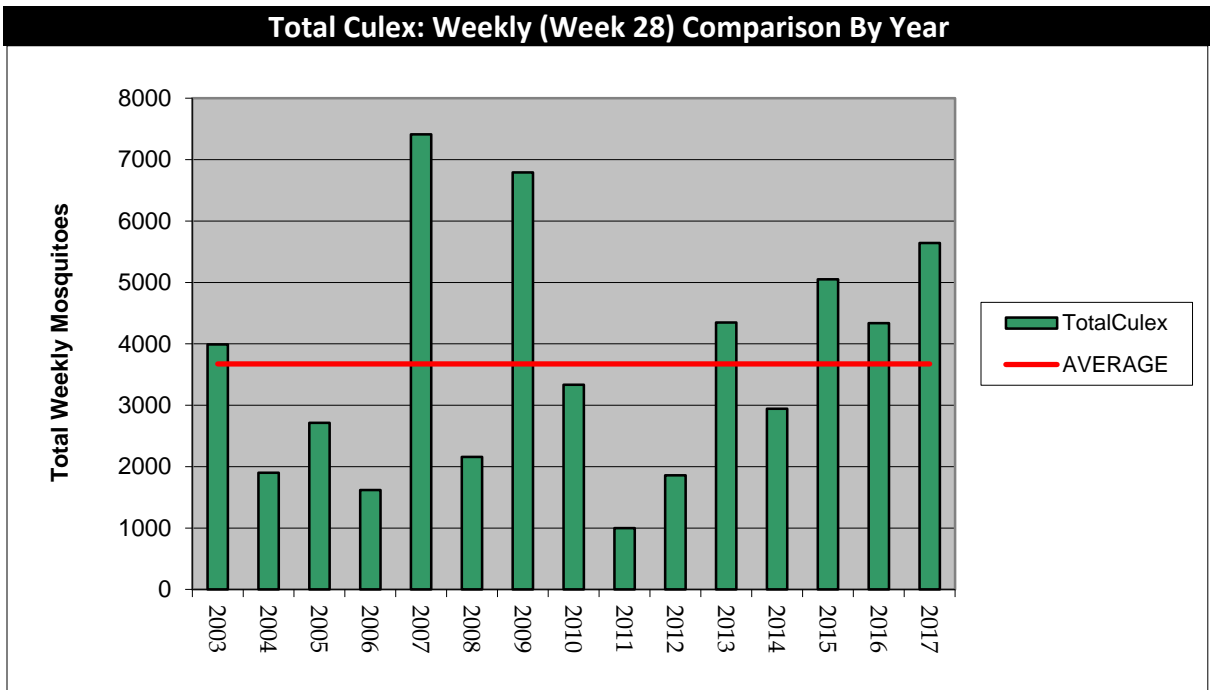
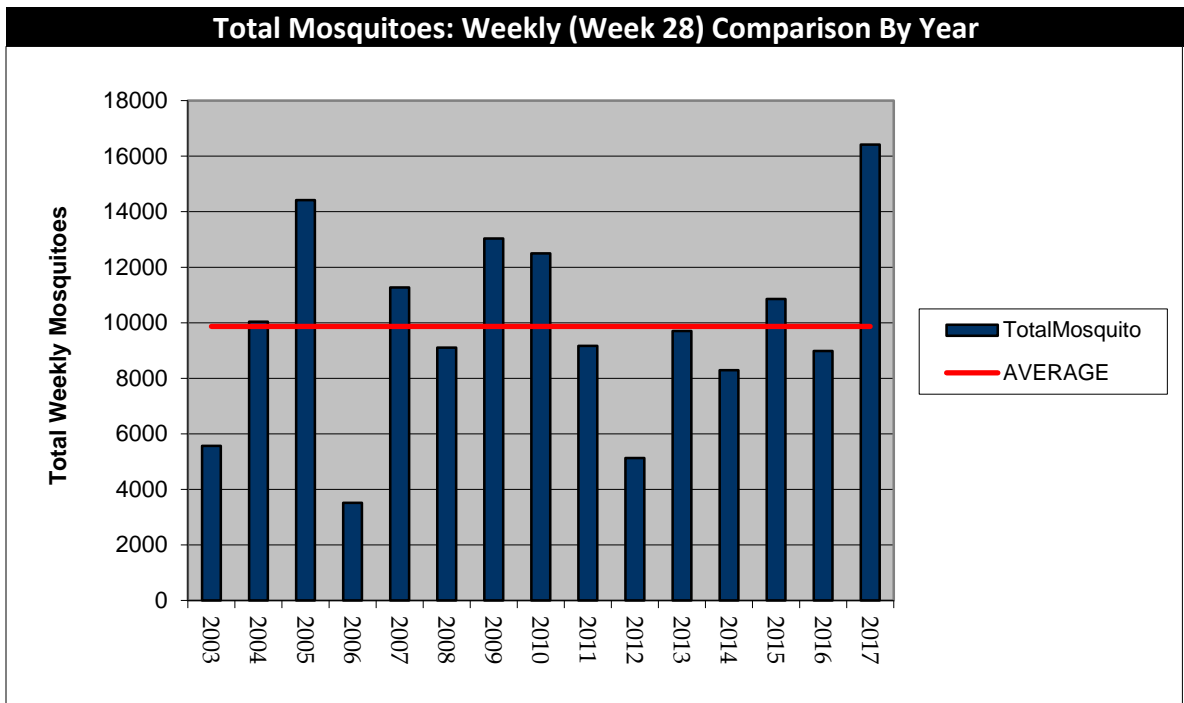
### West Nile Virus (WNV) Activity

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>	1	0	0
<b>United States</b>	***	***	***

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](#).

**NOTE: (\*\*\*) indicates that every pools submitted for that zone tested positive, therefore an infection rate and vector index for that zone cannot be calculated.**

VECTOR INDEX			
Season Week	ZONE 1	ZONE 2	ZONE 3
	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	Pending	0.00	0.00
Week 29			
Week 30			
Week 31			
Week 32			
Week 33			
Week 34			
Week 35			
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	24	2	2	0	0	28	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	15	2	0	0	0	0	2
Wk28	4	0	0	21	0	25	0	0	0	0	0	0
Wk29												
Wk30												
Wk31												
Wk32												
Wk33												
Wk34												
Wk35												
Wk36												
Wk37												
Wk38												
Wk39												
Wk40												
<b>TOTAL TO DATE</b>	50	5	4	52	0	111	5	1	0	0	0	6

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	23	0	0	0
Skunk	1	0	0	0
Raccoon	16	1	1	0
Squirrel	0	0	1	0
Cat	5	3	1	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
<b>TOTALS</b>	<b>50</b>	<b>5</b>	<b>4</b>	<b>0</b>

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	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
<b>TOTALS</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>

## Testing by Disease

