



## Zoonotic Disease Report August 21 – August 27, 2016 (Week 34)

### Executive Summary

- Two additional WNV cases are reported in Boulder County. These cases are still under investigation.
- CDPHE reports 34 WNV cases and one death statewide with 12 cases from Larimer County.
- *Culex* mosquito counts remain above the historical average for this week. West Nile transmission risk is still present throughout Boulder County.
- CDC reports 301 human cases nationwide from 31 states with seven deaths (AZ(2), CA, CO, KS, NV, WA).
- Boulder County's first case of tularemia was reported last week in a 65 year old male from Boulder. CDPHE reports four human cases statewide for the year.
- One bat was submitted for rabies testing, testing negative.
- No specimens were submitted for plague, tularemia or hantavirus.

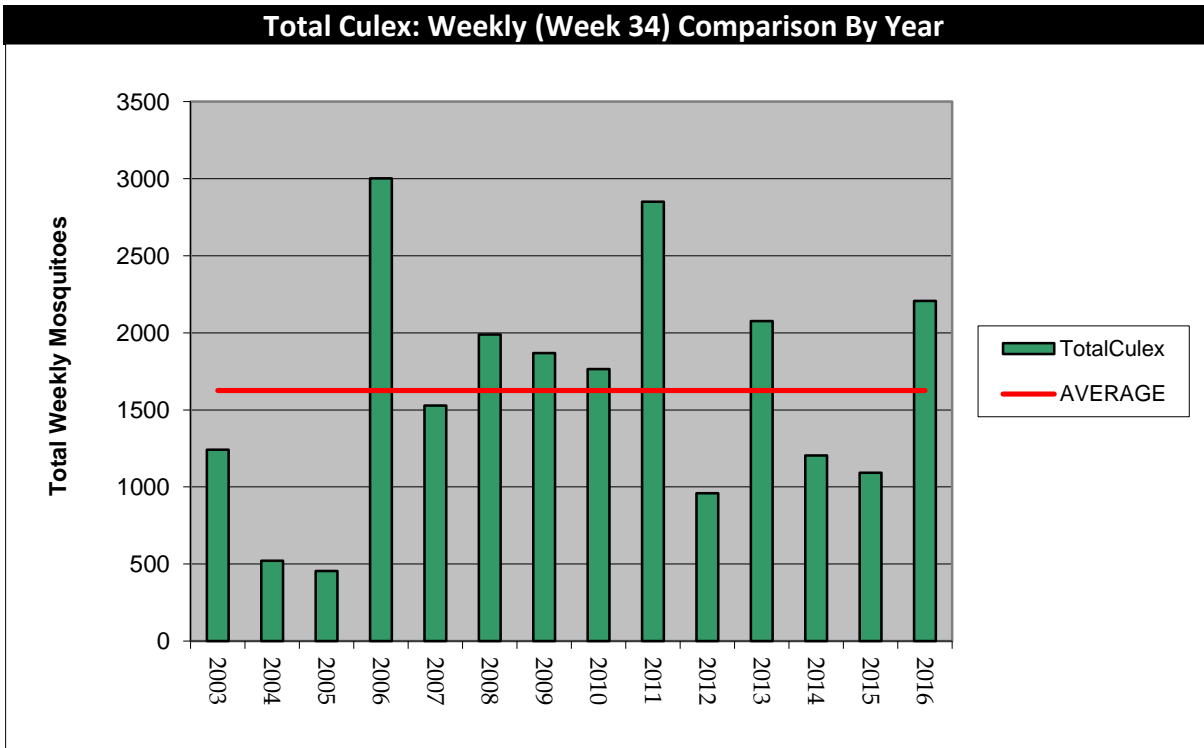
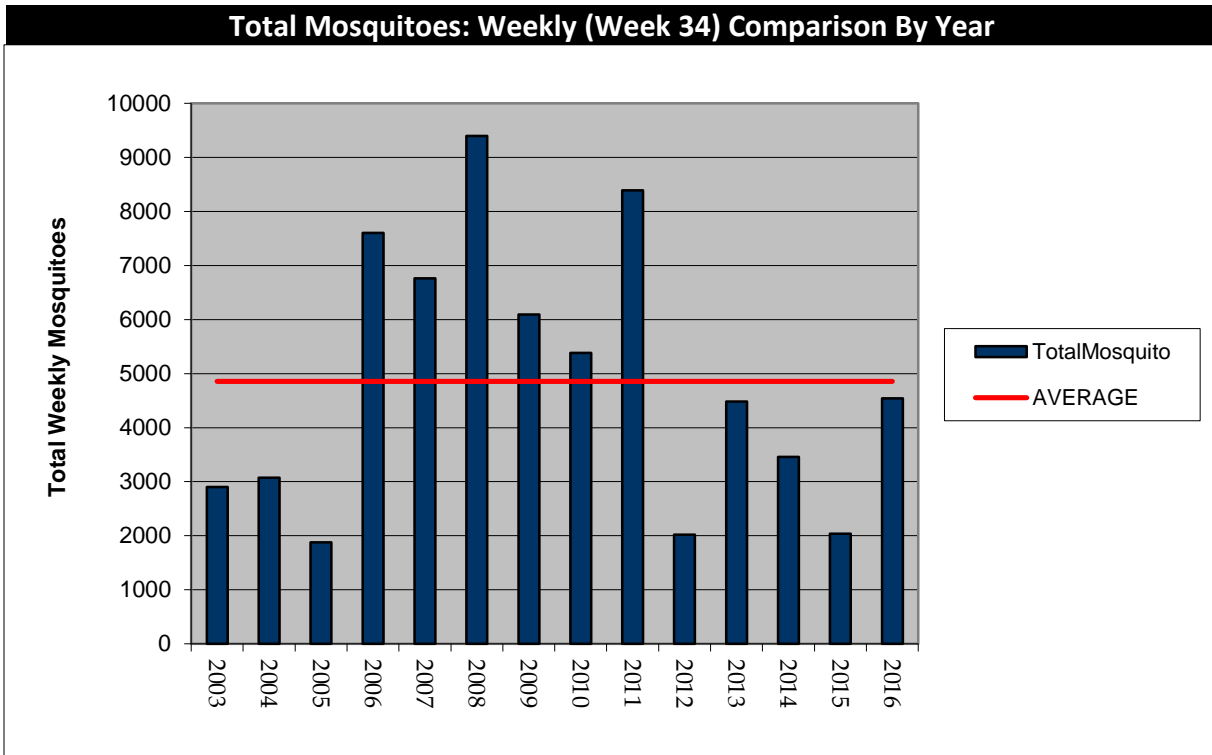
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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>	5	0	0
<b>Colorado</b>	22	10	1
<b>United States</b>	165	136	7

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	0.00	0.00	0.00
Week 22	0.00	0.00	0.00
Week 23	0.00	0.00	0.00
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	0.20	0.00
Week 29	0.00	0.36	0.34
Week 30	0.19	0.00	0.00
Week 31	0.00	0.53	0.20
Week 32	0.41	1.08	0.00
Week 33	0.00	0.71	0.18
Week 34	Pending	0.20	Pending
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 samples submitted by Boulder County Public Health and may not include samples submitted by 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	0	0	0	0	20	2	0	0	0	0	2
Wk21	3	0	0	0	0	3	2	0	0	0	0	2
Wk22	1	0	0	0	0	1	0	0	0	0	0	0
Wk23	10	0	1	0	0	11	1	0	0	0	0	1
Wk24	3	0	0	7	0	10	0	0	0	0	0	0
Wk25	4	0	0	7	0	11	1	0	0	0	0	1
Wk26	12	0	0	12	0	24	1	0	0	0	0	1
Wk27	5	0	0	9	0	14	0	0	0	0	0	0
Wk28	8*	0	0	18	0	26	0	0	0	1	0	1
Wk29	5	0	0	17	0	22	1	0	0	3	0	4
Wk30	4	0	0	14	0	18	0	0	0	1	0	1
Wk31	5	0	0	19	0	24	0	0	0	3	0	3
Wk32	8	0	0	16	0	24	0	0	0	5	0	5
Wk33	3*	0	0	16	0	19	1	0	0	4	0	1
Wk34	1	0	0	10	0	11	0	0	0	1	0	1
Wk35												
Wk36												
Wk37												
Wk38												
Wk39												
Wk40												
<b>TOTAL TO DATE</b>	92	0	1	145	0	238	9	0	0	18	0	23

## Submissions and Results by Species

<b>SEASON-TO-DATE DISEASE TESTING BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	58*	0	0	0
Skunk	2	0	0	0
Raccoon	25	0	0	0
Squirrel	0	0	0	0
Cat	3	0	0	0
Flea	0	0	0	0
Dog	3	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Other	1	0	1	0
<b>TOTALS</b>	<b>92</b>	<b>0</b>	<b>1</b>	<b>0</b>

<b>SEASON-TO-DATE DISEASE POSITIVES BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	6	0	0	0
Skunk	2	0	0	0
Raccoon	1	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
Other	0	0	0	0
<b>TOTALS</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Testing by Disease

