



Zoonotic Disease Report August 14 – August 20, 2016 (Week 33)

Executive Summary

- Two additional WNV positive cases have been identified in Boulder County - a 39-year-old Longmont woman, a 31-year-old Lafayette man. Both cases were uncomplicated fever.
- CDPHE reports 17 WNV cases and one death statewide. This does not include the newly reported Boulder County cases.
- Both total mosquito and *Culex* mosquito counts are above average for this time of year. *Culex* mosquitoes are nearly twice as high as historical average for this week. West Nile transmission risk is still present throughout Boulder County.
- CDC reports 213 human cases nationwide from 27 states with five deaths (AZ, CA, CO, KS, NV).
- Two bats were submitted for rabies testing with one testing positive and one deemed inappropriate for testing.
- No specimens were submitted for plague, tularemia or hantavirus.

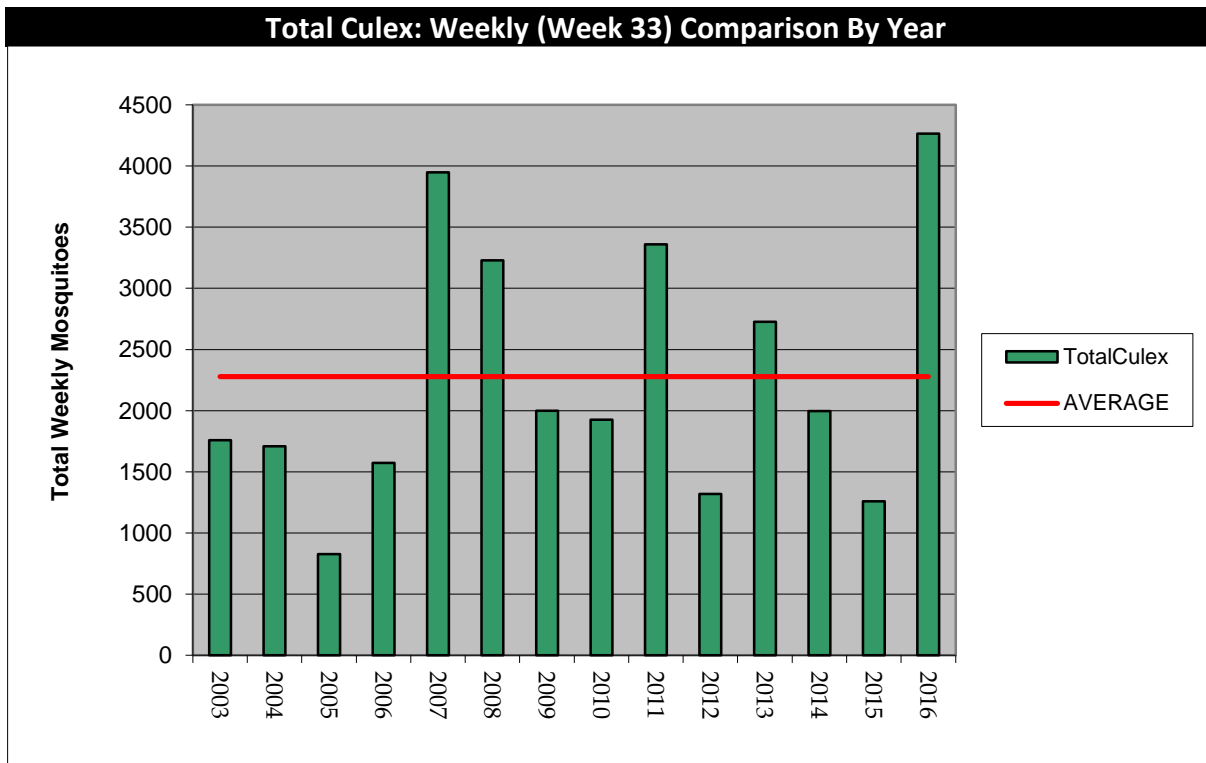
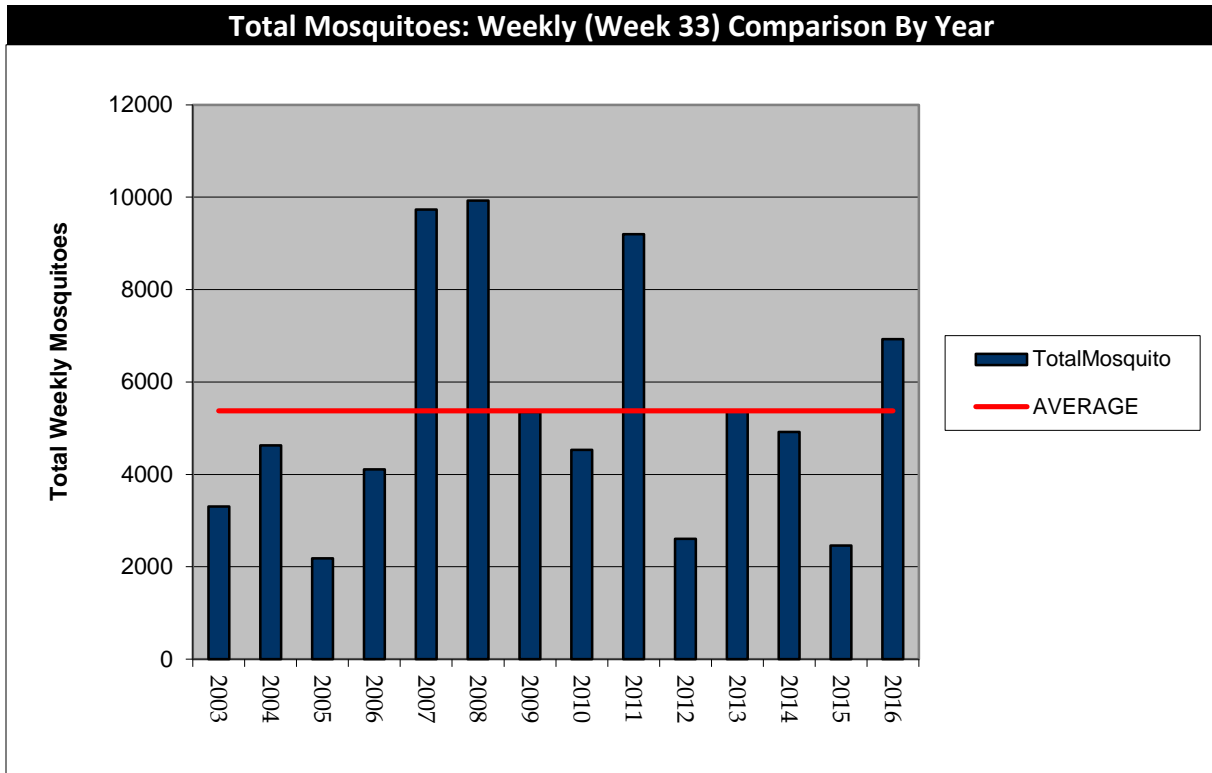
Information about symptoms, transmission, and prevention is always available at BoulderCountyVector.org

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	5	0	0
Colorado	9	8	1
United States	112	101	5

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](#).

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			
	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	1.01	0.00
Week 33	Pending	Pending	Pending
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 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	2*	0	0	16	0	18	1	0	0	0	0	1
Wk34												
Wk35												
Wk36												
Wk37												
Wk38												
Wk39												
Wk40												
TOTAL TO DATE	90	0	1	135	0	226	9	0	0	13	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	2	0	0	0
Raccoon	24	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
TOTALS	90	0	1	0

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<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
TOTALS	9	0	0	0

Testing by Disease

