



Zoonotic Disease Report August 13 – August 19, 2017 (Week 33)

Executive Summary

- Boulder County reports one new human WNV case for a total of two.
- CDC reports 209 WNV cases and seven deaths nationally from 28 states.
- CDPHE reports three Colorado WNV cases from Boulder, Jefferson and Phillips counties which do not include Boulder County’s newly reported case.
- Nineteen mosquito pools were submitted this week with three testing positive bringing the total positive mosquito pools to 10.
- Three bats were tested for rabies this week, all testing negative.
- Statewide 109 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 (59), Bat (42), Dog (2), Fox (5), Coyote (1)
- No specimens were submitted for plague, tularemia, or hantavirus testing.

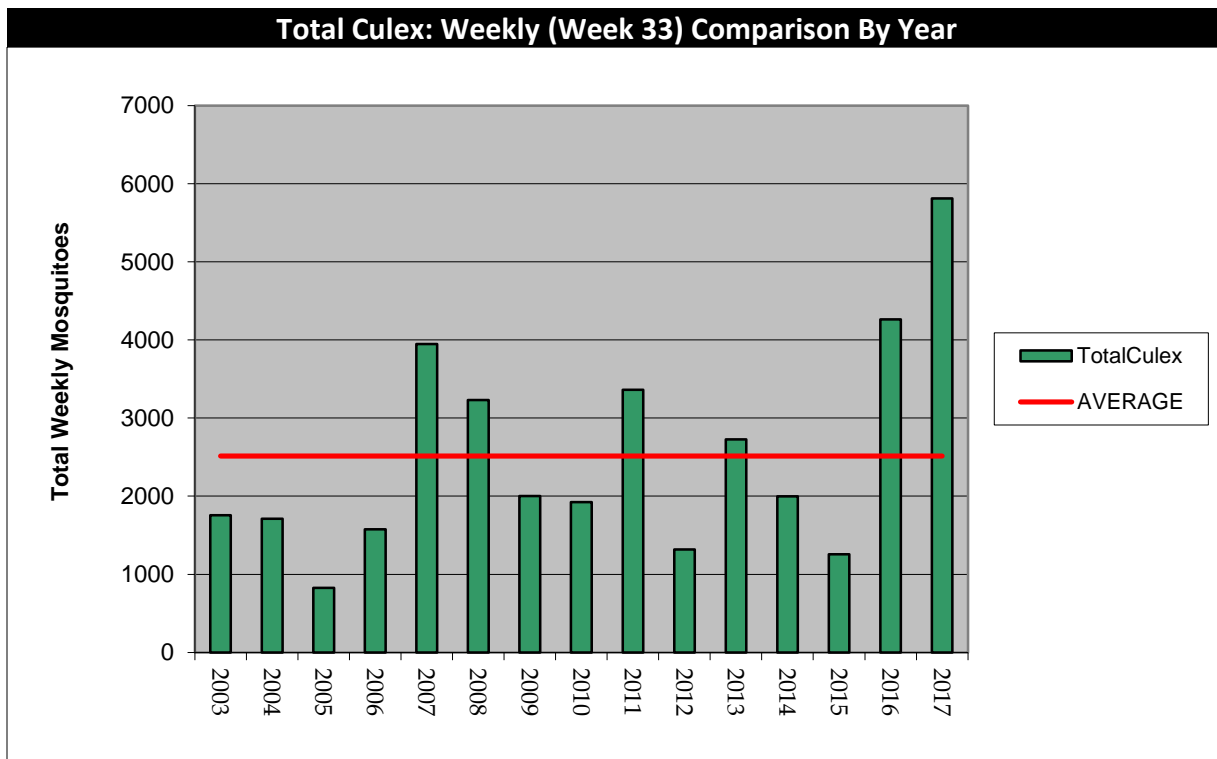
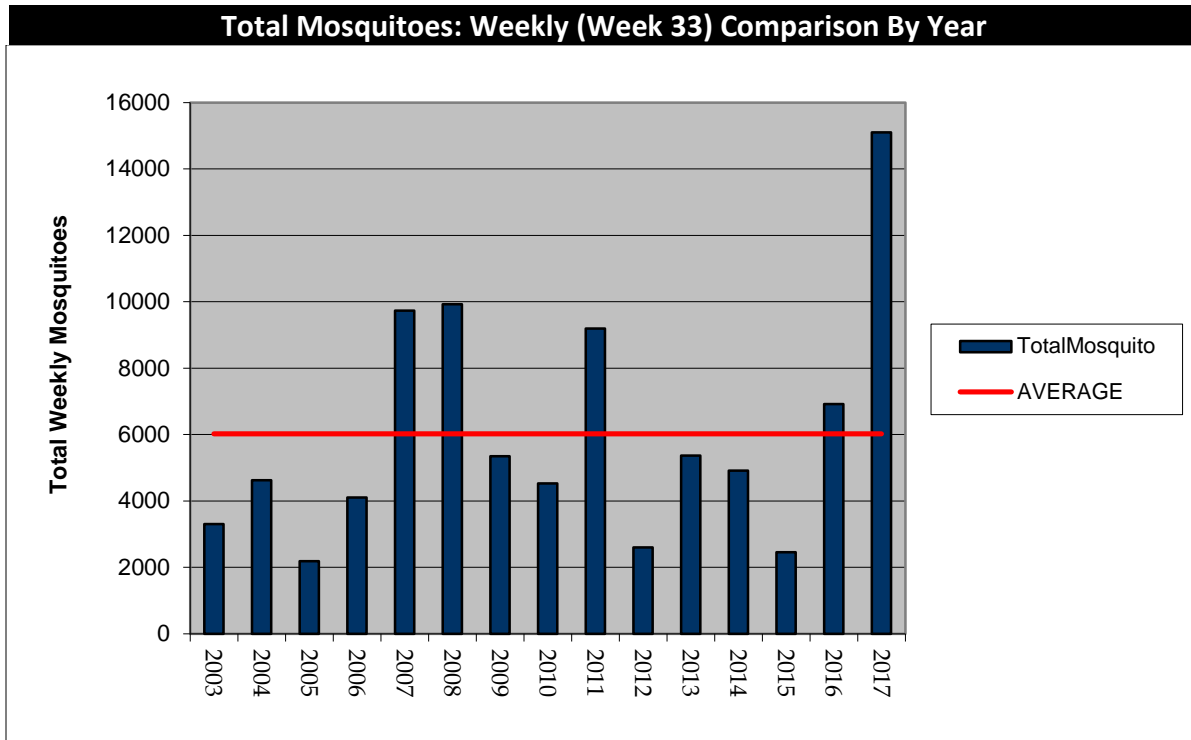
Information about symptoms, transmission, and prevention is always available at BoulderCountyVector.org

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	2	0
Colorado	1	3	0
United States	83	126	7

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			
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	*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												
Wk35												
Wk36												
Wk37												
Wk38												
Wk39												
Wk40												
TOTAL TO DATE	78	6	5	175	0	264	6	1	0	10	0	17

Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	45	0	0	0
Skunk	1	0	0	0
Raccoon	20	1	1	0
Squirrel	0	0	1	0
Cat	7	4	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	78	6	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

