



Zoonotic Disease Report September 11 – September 17, 2016 (Week 37)

Executive Summary

- Mosquito surveillance had ended for the season.
- As of 9/9/2016 CDPHE reports 76 WNV cases.
- CDC reports 662 human cases nationwide from 39 states plus District of Columbia with 18 deaths (AZ (2), CA (2), CO (3), KS, MN, MS, MT, NM, SD, TN, TX(2), UT, WA).
- One bat was submitted for rabies testing, testing negative.
- To date, 100 specimens have been submitted for rabies testing with 10 testing positive: Bat(7), Skunk(2), Raccoon(1).
- No specimens were submitted for plague, tularemia or hantavirus.

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

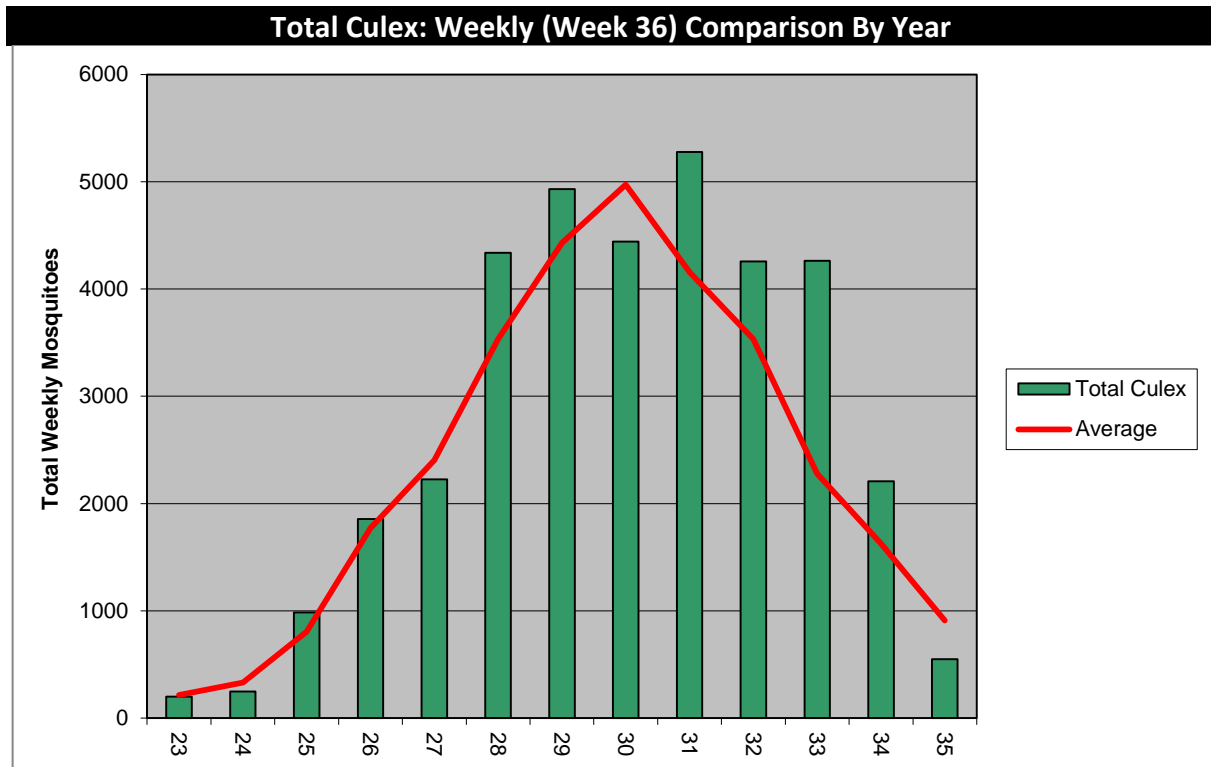
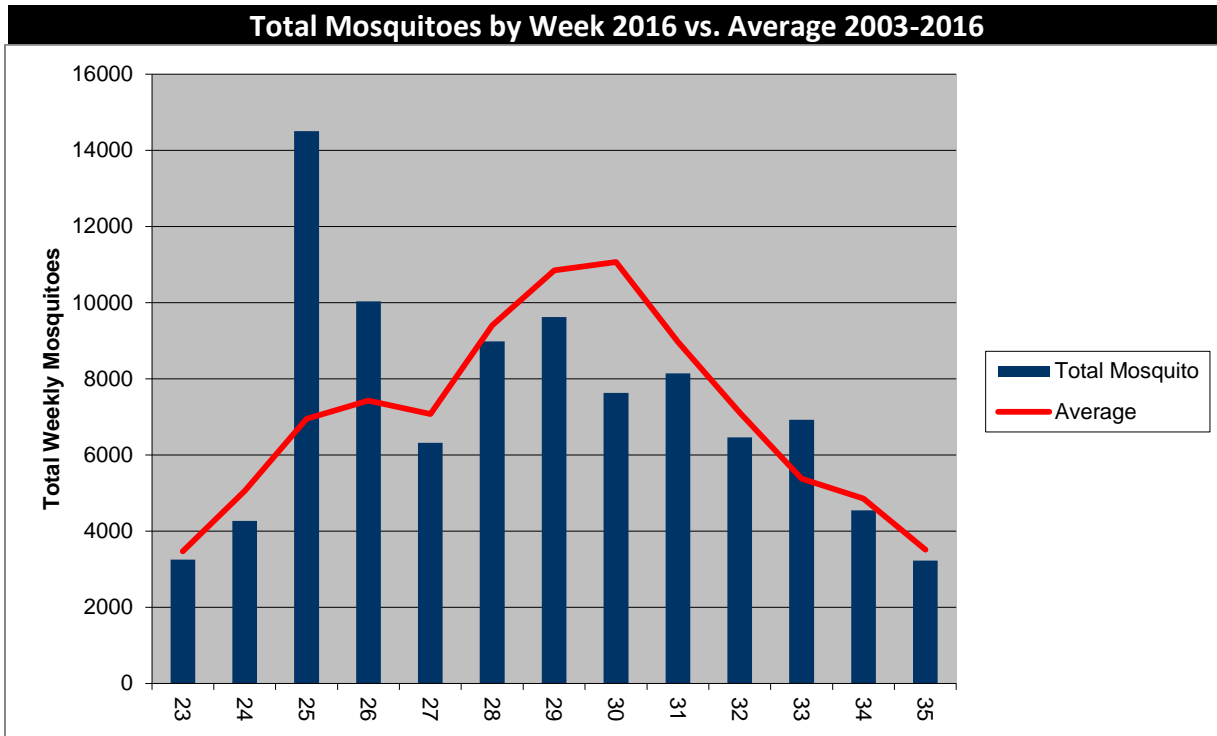
West Nile Virus (WNV) Activity

SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY			
Location	Non-Neuroinvasive Disease Cases	Neuroinvasive Disease Cases	Deaths
Boulder County	13	1	0
Colorado	49*	26*	3*
United States	339	323	18

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

* Colorado numbers reported by CDC and may not match CDPHE reporting.

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	0.20	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	0.20	0.20	0.17
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					
	RABIE S	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	7	0	0	0	0	7	1	0	0	0	0	1
Wk36	0	0	0	0	0	0	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	100	0	1	145	0	246	10	0	0	18	0	24

Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	63*	0	0	0
Skunk	2	0	0	0
Raccoon	26	0	0	0
Squirrel	0	0	0	0
Cat	4	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	2	0	1	0
TOTALS	100	0	1	0

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	7	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	10	0	0	0