



Zoonotic Disease Report

Week 37: September 10 – September 16, 2023

Rabies

- One bat and one raccoon were submitted for testing. Both specimens tested negative.
- Boulder County has had five positive rabies specimens to date: Bat (4), Skunk (1).
- Statewide, 49 specimens have tested positive for rabies in 2023: Bat (41), Skunk (8).
- In 2022, 63 specimens tested positive statewide for rabies: Bat (43), Skunk (26).

Mosquitoes

- Mosquito pool testing and trapping have concluded for the season.
- Statewide, 213 positive mosquito pools have been recorded: Adams (2), Arapahoe (7), Boulder (45), Delta (3), Denver (5), Jefferson (1), La Plata (1), Larimer (132), Pueblo (2), Weld (15).
- Nuisance (non-vector) and Culex (vector) mosquito counts were historically high throughout the 2023 season. Peaking in week 29, with 100,000 total mosquitoes caught, 65% being Culex.
- Nationwide, 1,153 human cases of West Nile virus (WNV) have been reported. To date, 371 human cases have been reported in Colorado: Adams (29), Alamosa (2), Arapahoe (36), Archuleta (1), Boulder (17), Broomfield (3), Chaffee (4), Crowley (1), Custer (1), Delta (6), Denver (61), Douglas (13), El Paso (25), Elbert (1), Fremont (9), Huerfano (1), Jefferson (28), La Plata (7), Larimer (36), Lincoln (1), Logan (3), Mesa (8), Montezuma (5), Montrose (1), Morgan (8), Otero (2), Prowers (3), Pueblo (16), Saguache (1), Teller (3), Washington (2), Weld (37).

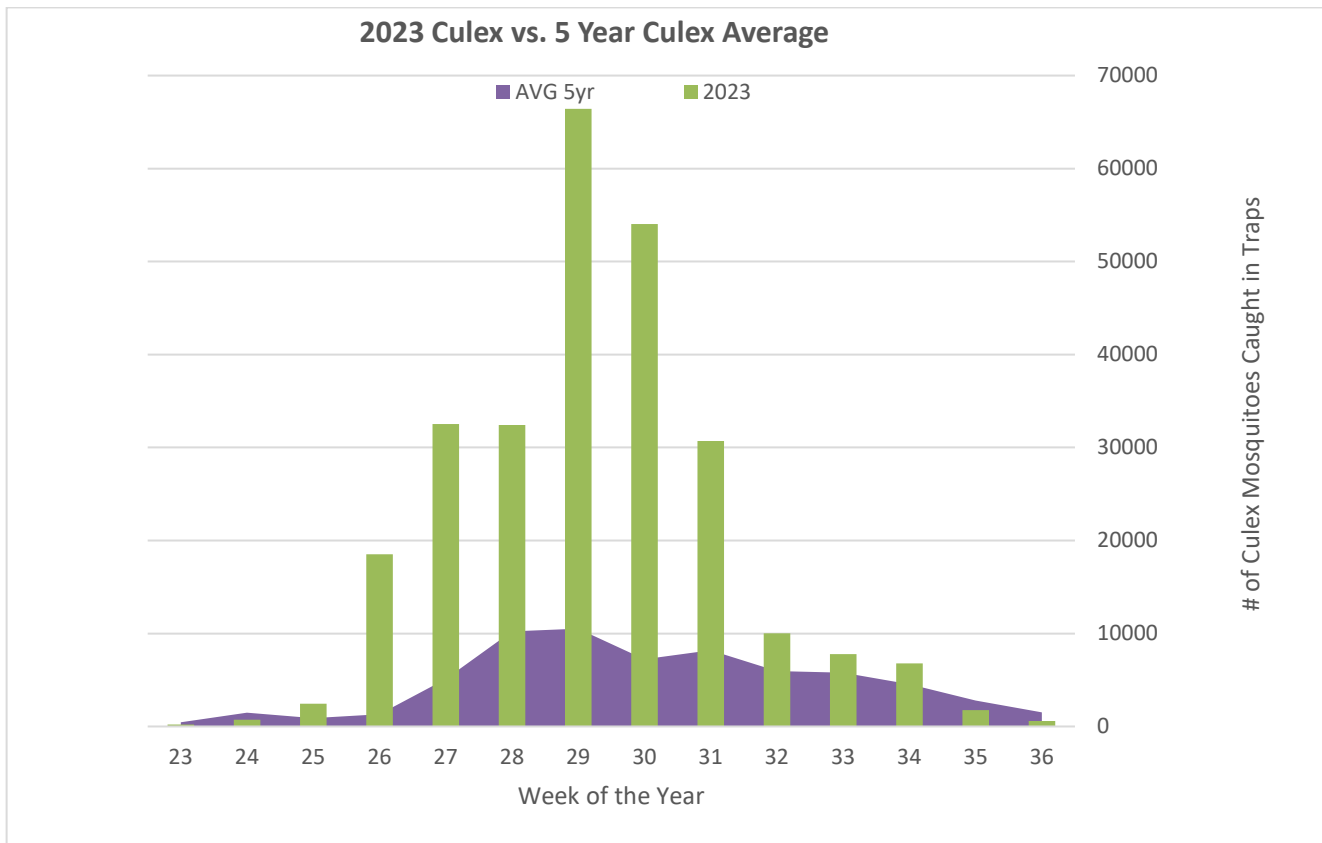
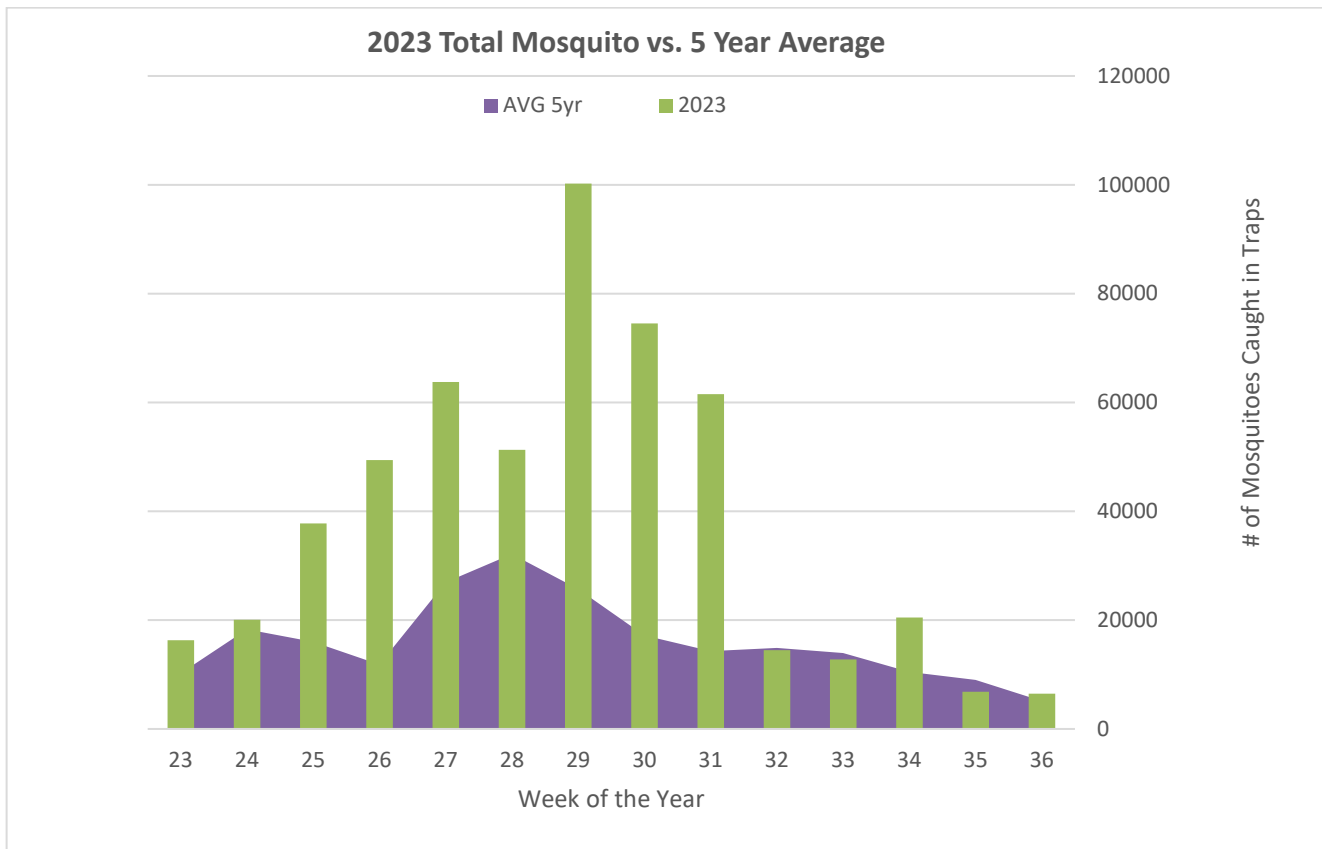
Plague/Tularemia/Hantavirus

- No specimens were submitted for plague, tularemia or hantavirus.

Lab-confirmed, rabies positive animals by county, Colorado, Jan. 1 - Sept. 20, 2023

County	Bat	Skunk	Other Wildlife	Domestic	Total
Adams	1				1
Arapahoe	1				1
Boulder	4	1			5
Chaffee	1				1
Delta	2				2
Douglas	2				2
Eagle	1				1
El Paso	1				1
Garfield	1				1
Jefferson	2	5			7
La Plata	4				4
Larimer	13				13
Mesa	1				1
Montezuma	1				1
Pitkin	2				2
Pueblo	2				2
Summit	1				1
Weld	1	2			3
Total	41	8	0	0	49

Mosquito Activity – 2023



Vector Index

The vector index (VI) is a calculation used to monitor relative risk of WNV transmission week to week. The VI is a function of both the infection rate (number of mosquitoes positive/1000) and abundance of vector species mosquitoes. A VI of 0.75 is considered elevated risk of transmission and additional control options beyond routine operations should be discussed. Negative test results do not mean positive mosquitoes are not present in any given area.

VECTOR INDEX LOG				
	ZONE 1	ZONE 2	ZONE 3	COB
Season Week	Vector Index	Vector Index	Vector Index	Vector Index
Week 23	0.00	0.00	0.00	0.00
Week 24	----	-----	-----	0.00
Week 25	0.00	0.00	0.00	0.00
Week 26	0.00	0.00	0.61	0.00
Week 27	0.00	4.35	0.00	0.00
Week 28	0.00	0.00	1.53	0.00
Week 29	3.31	16.08	5.44	0.64
Week 30	14.10	13.82	10.74	0.17
Week 31	5.95	14.12	1.72	0.00
Week 32	0.00	0.00	0.00	0.20
Week 33	0.97	3.20	0.81	0.19
Week 34	1.33	3.87	1.86	0.20
Week 35	0.19	0.50	0.40	0.00
Week 36	0.20	0.00	0.20	0.00
Week 37				
Week 38				
Week 39				
Week 40				

Animal Disease Activity

Each week, Boulder County and municipal Animal Control Units respond to animal complaints throughout the county. When deemed necessary, these specimens are sent to state laboratories for zoonotic disease testing.

- ‘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 Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	73	0	0	0
Skunk	2	0	0	0
Raccoon	15	0	0	0
Coyote	0	0	0	0
Fox	2	0	0	0
Cat	3	0	0	0
Dog	0	0	0	0
Squirrel	0	0	0	0
Prairie Dog	0	0	0	0
Rabbit	0	0	0	0
Flea	0	0	0	0
Other	0	0	0	0
TOTALS	95	0	0	0

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
Coyote	0	0	0	0
Fox	0	0	0	0
Cat	0	0	0	0
Dog	0	0	0	0
Squirrel	0	0	0	0
Prairie Dog	0	0	0	0
Rabbit	0	0	0	0
Flea	0	0	0	0
Other	0	0	0	0
TOTALS	5	0	0	0