



Zoonotic Disease Report July 14 – July 20, 2019 (Week 29)

Executive Summary

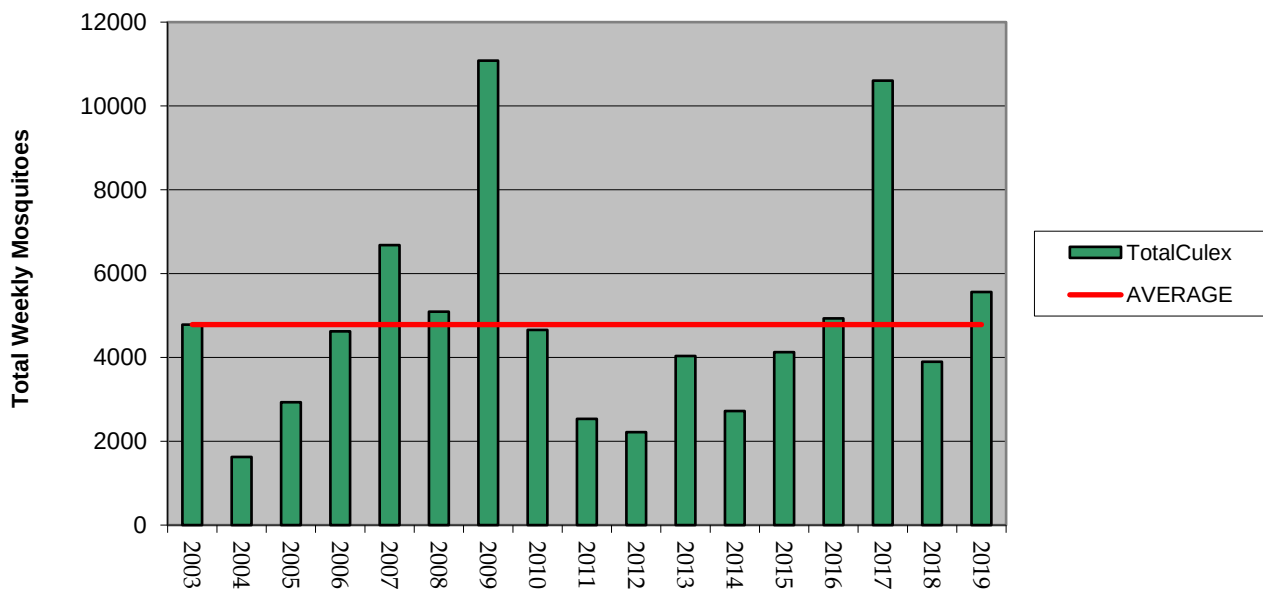
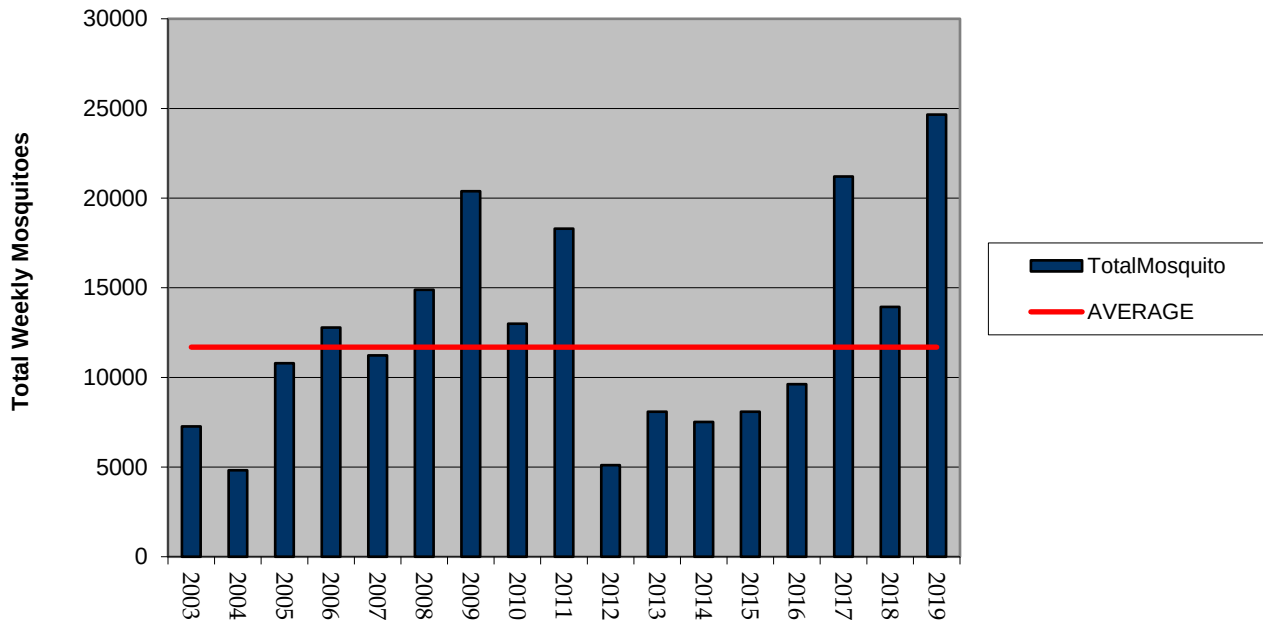
- Statewide, 103 specimens have tested positive for rabies in 2019.
- 2019 Colorado rabies positive specimens: Skunk(80) Bat(18) Raccoon(2) Fox(1) Bovine(1) Dog(1)
- Boulder County has three positive rabies specimens to date, all are bats.
- Six bats were submitted for rabies testing in Boulder County this week; five tested negative, and one tested positive.
- Twenty-seven mosquito pools were tested for WNV; all tested negative.
- Mosquito traps this week were higher than average with nuisance and vector species; of the 24,656 recorded mosquitoes, 23% were *Culex*.
- CDC reports a human WNV case in Boulder County. The case is a resident of Boulder County, but the investigation concluded that the exposure occurred in a different state. Currently there are no other recorded WNV positives in Colorado.

Lab-confirmed, rabies positive animals by county, Colorado, Jan. 1 - July 15, 2019

*red denotes an increase since the previous week

County	Bat	Skunk	Other wildlife	Domestic	Total
Adams		1			1
Arapahoe		1			1
Boulder	3				2
Denver	2	1	1 (raccoon)		4
Douglas		3			3
El Paso	1	7	1 (fox)	1 (dog)	10
Jefferson	2	4			6
Kit Carson		1			1
Larimer	5	36		1 (bovine)	42
Las Animas		2			2
Lincoln		1			1
Logan		1			1
Morgan		1			1
Otero		1			1
Pueblo		15			15
Weld	5	4	1 (raccoon)		10
Yuma		1			1
Total	18	80	3	2	103

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	0.00

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 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

TESTED VECTORS							POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	18	2	2	0	0	22	1	0	0	0	0	1
Wk21	1	0	0	0	0	1	0	0	0	0	0	0
Wk22	2	0	0	0	0	2	1	0	0	0	0	1
Wk23	5	0	0	0	0	5	0	0	0	0	0	0
Wk24	4	0	0	3	0	7	0	0	0	0	0	0
Wk25	4	0	0	3	0	7	0	0	0	0	0	0
Wk26	3	0	0	3	0	6	0	0	0	0	0	0
Wk27	4	0	0	5	0	9	0	0	0	0	0	0
Wk28	9	0	0	19	0	28	0	0	0	0	0	0
Wk29	6	0	0	27	0	33	1	0	0	0	0	1
Wk30												
Wk31												
Wk32												
Wk33												
Wk34												
Wk35												
Wk36												
Wk37												
Wk38												
Wk39												
Wk40												
TOTAL TO DATE	56	2	2	60	0	120	3	0	0	0	0	3

Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	37	0	0	0
Skunk	2	0	0	0
Raccoon	6	0	0	0
Squirrel	0	0	0	0
Cat	4	1	1	0
Flea	0	0	0	0
Dog	5	1	1	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Rabbit	0	0	0	0
Other	2	0	0	0
TOTALS	56	2	2	0

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	3	0	0	0
Skunk	0	0	0	0
Raccoon	0	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
Rabbit	0	0	0	0
Other	0	0	0	0
TOTALS	3	0	0	0

Testing by Disease

