



## Zoonotic Disease Report June 03 – June 09, 2018 (Week 23)

### Executive Summary

- Statewide 180 specimens have tested positive for rabies in 2018. This surpasses total positive specimens for all of 2017.
- 2018 Colorado rabies positive specimens: Skunk (167), Bat (10), Raccoon (1), Dog (1), Alpaca (1)
- Mosquito traps counts are well above historical averages for this week consisting of large numbers of floodwater nuisance mosquitoes.
- Testing of mosquitoes for WNV will begin next week.
- Two cats and one skunk were submitted for rabies, all testing negative.
- No specimens have been submitted for plague, tularemia, or hantavirus testing.

Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

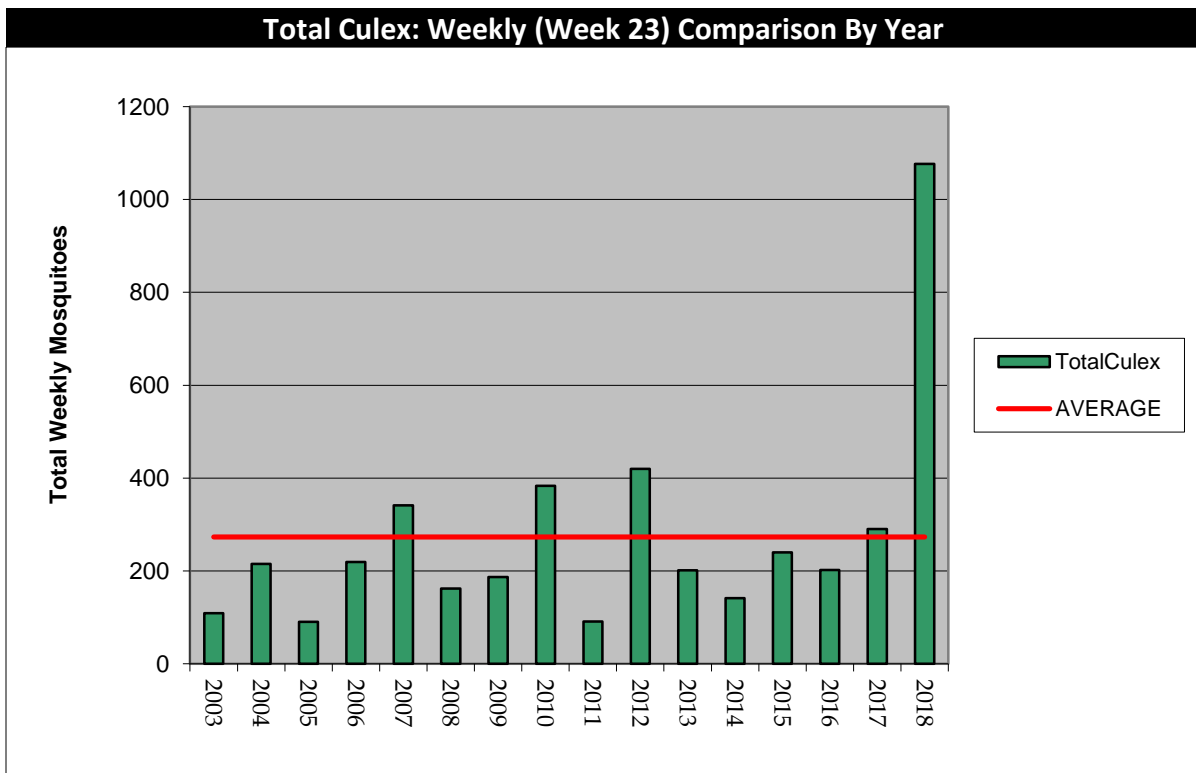
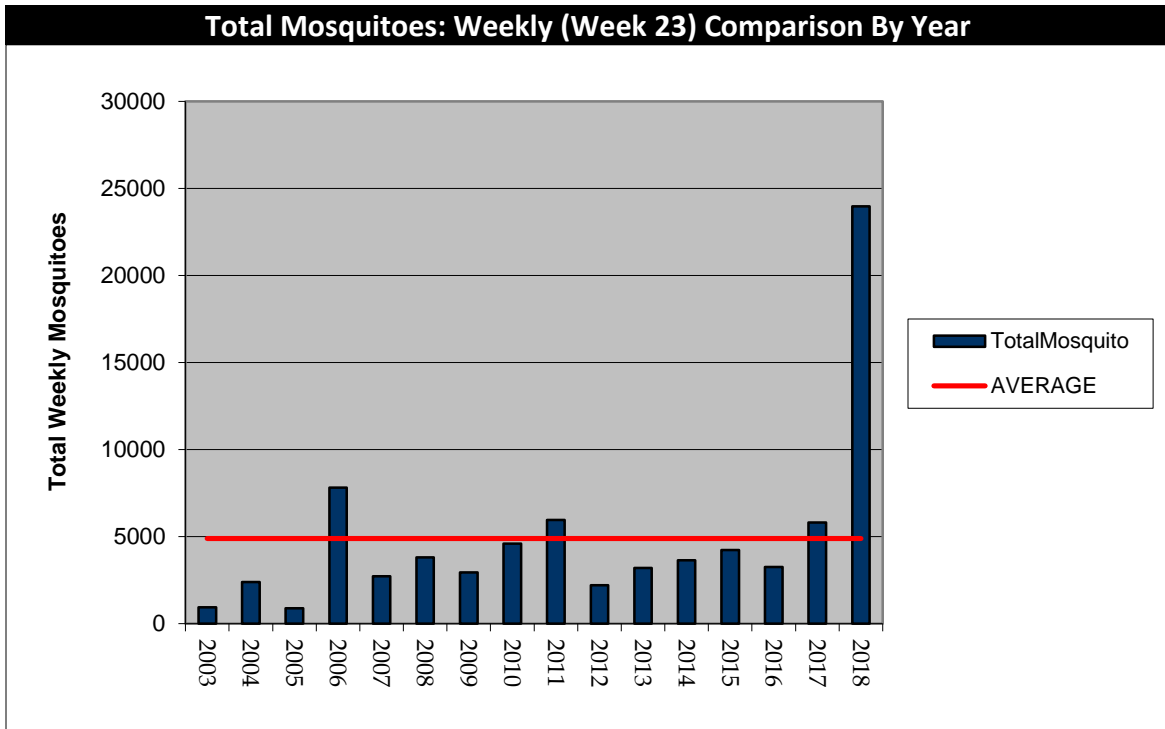
### West Nile Virus (WNV) Activity

| SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY |                                 |                             |        |
|---|---------------------------------|-----------------------------|--------|
| Location  | Non-Neuroinvasive Disease Cases | Neuroinvasive Disease Cases | Deaths |
| <b>Boulder County</b>                               | 0                               | 0                           | 0      |
| <b>Colorado</b>                                     | 0                               | 0                           | 0      |
| <b>United States</b>                                | ***                             | ***                         | ***    |

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](#).

**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      | -----        | -----        | -----        |
| Week 22      | -----        | -----        | -----        |
| Week 23      | -----        | -----        | -----        |
| Week 24      |              |              |              |
| Week 25      |              |              |              |
| Week 26      |              |              |              |
| Week 27      |              |              |              |
| Week 28      |              |              |              |
| Week 29      |              |              |              |
| Week 30      |              |              |              |
| Week 31      |              |              |              |
| Week 32      |              |              |              |
| Week 33      |              |              |              |
| 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<br>POOLS | HANTA<br>VIRUS | TOTAL | RABIES+          | PLAGUE+ | TULAREMIA+ | WNV<br>POOLS+ | HANTA<br>VIRUS+ | TOTAL |
| Wk 1-20             | 20     | 1      | 0         | 0            | 0              | 21    | 1                | 0       | 0          | 0             | 0               | 1     |
| Wk21                | 4      | 0      | 1         | 0            | 0              | 5     | 0                | 0       | 0          | 0             | 0               | 0     |
| Wk22                | 1      | 0      | 0         | 0            | 0              | 1     | 0                | 0       | 0          | 0             | 0               | 0     |
| Wk23                | 3      | 0      | 0         | 0            | 0              | 3     | 0                | 0       | 0          | 0             | 0               | 0     |
| Wk24                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk25                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk26                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk27                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk28                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk29                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk30                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk31                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk32                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk33                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk34                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk35                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk36                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk37                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk38                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk39                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| Wk40                |        |        |           |              |                |       |                  |         |            |               |                 |       |
| TOTAL<br>TO<br>DATE | 28     | 1      | 1         | 0            | 0              | 30    | 1                | 0       | 0          | 0             | 0               | 1     |

## Submissions and Results by Species

| SEASON-TO-DATE DISEASE TESTING BY SPECIES |           |          |           |          |
|---|-----------|----------|-----------|----------|
| <i>Species</i>                            | Rabies    | Plague   | Tularemia | Hanta    |
| Bat                                       | 6         | 0        | 0         | 0        |
| Skunk                                     | 2         | 0        | 0         | 0        |
| Raccoon                                   | 9         | 0        | 0         | 0        |
| Squirrel                                  | 0         | 1        | 0         | 0        |
| Cat                                       | 6         | 0        | 0         | 0        |
| Flea                                      | 0         | 0        | 0         | 0        |
| Dog                                       | 3         | 0        | 0         | 0        |
| Fox                                       | 1         | 0        | 0         | 0        |
| Prairie Dog                               | 0         | 0        | 0         | 0        |
| Rabbit                                    | 0         | 0        | 1         | 0        |
| Other                                     | 1         | 0        | 0         | 0        |
| <b>TOTALS</b>                             | <b>28</b> | <b>1</b> | <b>1</b>  | <b>0</b> |

| SEASON-TO-DATE DISEASE POSITIVES BY SPECIES |          |          |           |          |
|---|----------|----------|-----------|----------|
| <i>Species</i>                              | Rabies   | Plague   | Tularemia | Hanta    |
| Bat   | 0        | 0        | 0         | 0        |
| Skunk                                       | 1        | 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        |
| <b>TOTALS</b>                               | <b>1</b> | <b>0</b> | <b>0</b>  | <b>0</b> |

## Testing by Disease

