

## Zoonotic Disease Report May 31<sup>st</sup> – June 6<sup>th</sup> (Week 22)

### EXECUTIVE SUMMARY:

- To date, 24 specimens have been submitted for rabies testing. Five samples (skunk) tested positive.
- Three bats and two raccoons were tested this week for rabies. All tested negative.
- One vole was tested for plague and tularemia, testing positive for tularemia.
- Countywide mosquito surveillance began this week.
- West Nile sentinel zone testing begins next week and will run through August.

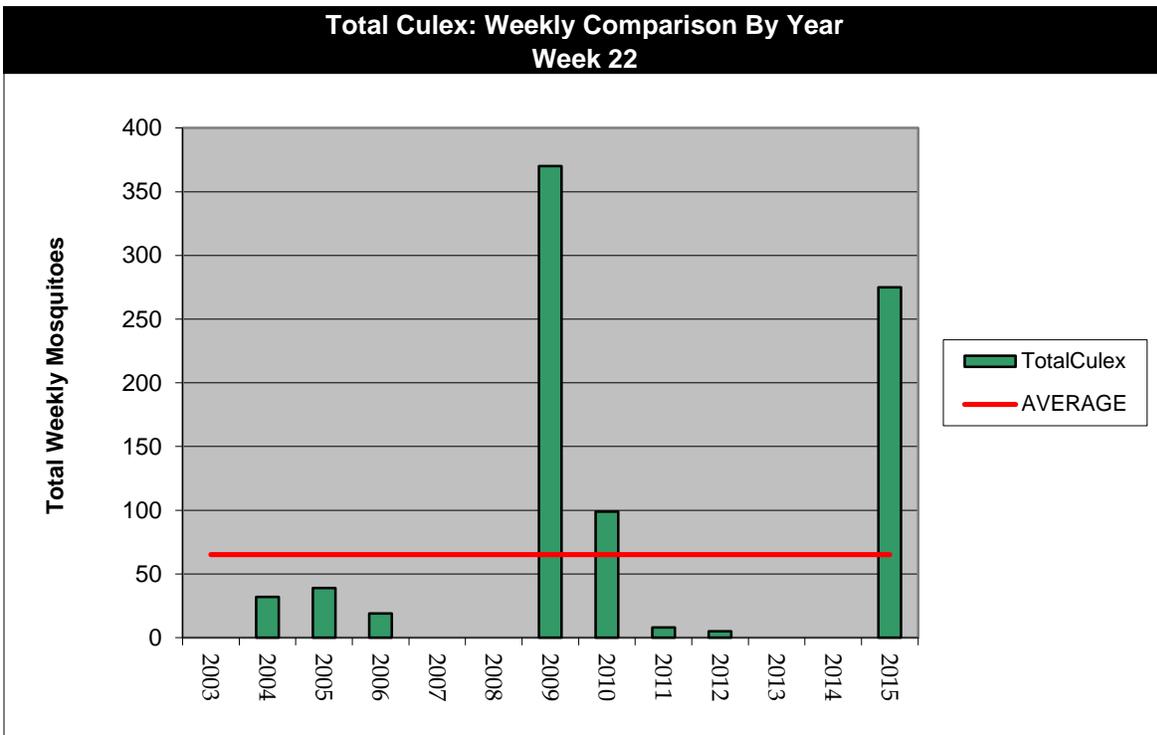
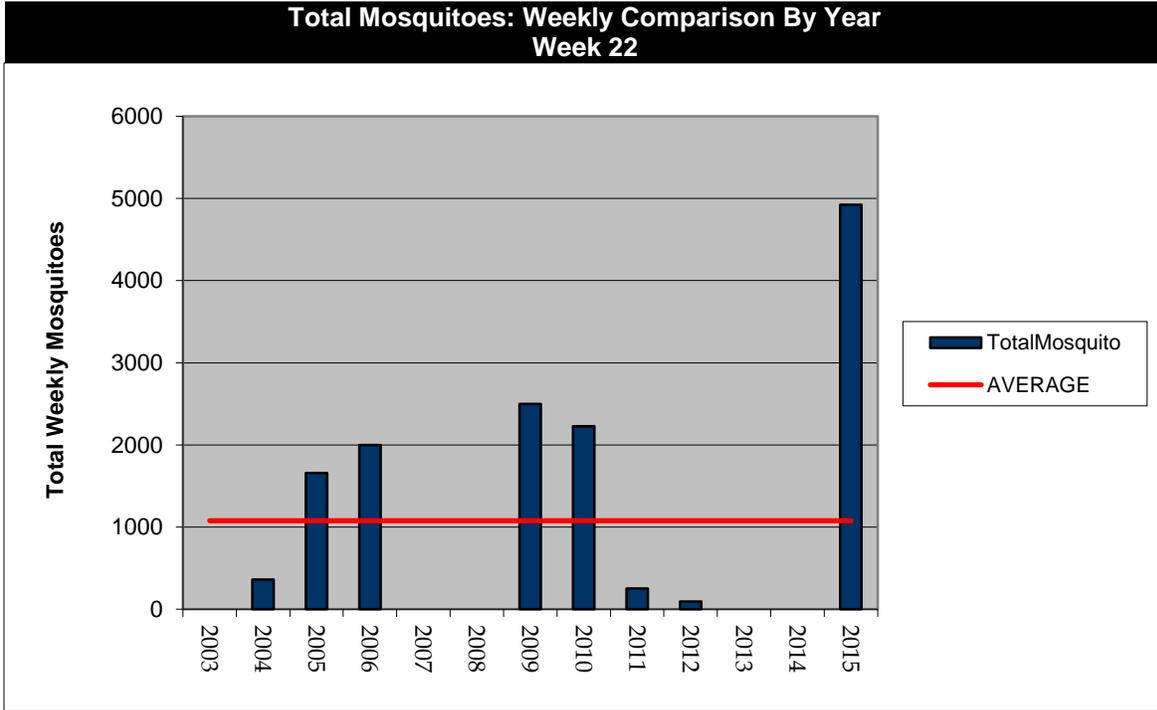
## PROFILE OF COMMON ZONOTIC DISEASES IN BOULDER COUNTY



Disease	Symptoms	Vector	Prevention
<b>WEST NILE VIRUS</b>	Fever, extreme fatigue, head and body aches, skin rashes. More severe symptoms can be meningitis, encephalitis, tremors, vision loss, and paralysis	Mosquitoes, primarily Culex tarsalis and Culex pipiens mosquitoes in Colorado	Dress in long clothes, drain standing water, use DEET, avoid outdoors during dusk/dawn
<b>HANTA VIRUS</b>	Fever, chills, headache, muscle pain in shoulders, lower back, and thighs, nausea, vomiting, diarrhea, dizziness	deer mouse, spread by inhalation of dried droppings	Prevent rodent infestation, avoid aerosoling rodent droppings when cleaning, moisten rodent droppings with water and bleach, ventilate cleaning area
<b>PLAGUE</b>	Fever, chills, headache, rapidly progressive weakness, painful swollen regional lymph nodes (buboes)	flea bites, usually roosting on infected animals	Avoid fleas and areas with wild rodents, do not touch sick or dead wild animals, prevent home rodent infestations, treat known rodent areas with flea powder, see healthcare provider if you show symptoms
<b>TULAREMIA</b>	abrupt onset of fever, chills, muscle aches, headache, painful lesion at infection site, swollen lymph nodes	wild mammals, primarily rabbits, muskrats	wear gloves when handling wild rabbit carcasses, cook game meat thoroughly
<b>RABIES</b>	Apprehension, headache, fever, anxiety, difficulty swallowing, seizures and possible paralysis	All mammals, Bats, raccoons, skunks, foxes, and coyotes most common	vaccinate pets, avoid wildlife, contact healthcare provider if bitten by an animal

For more information, visit our website at [www.bouldercountyvector.org](http://www.bouldercountyvector.org)

## Mosquito Season Monitoring



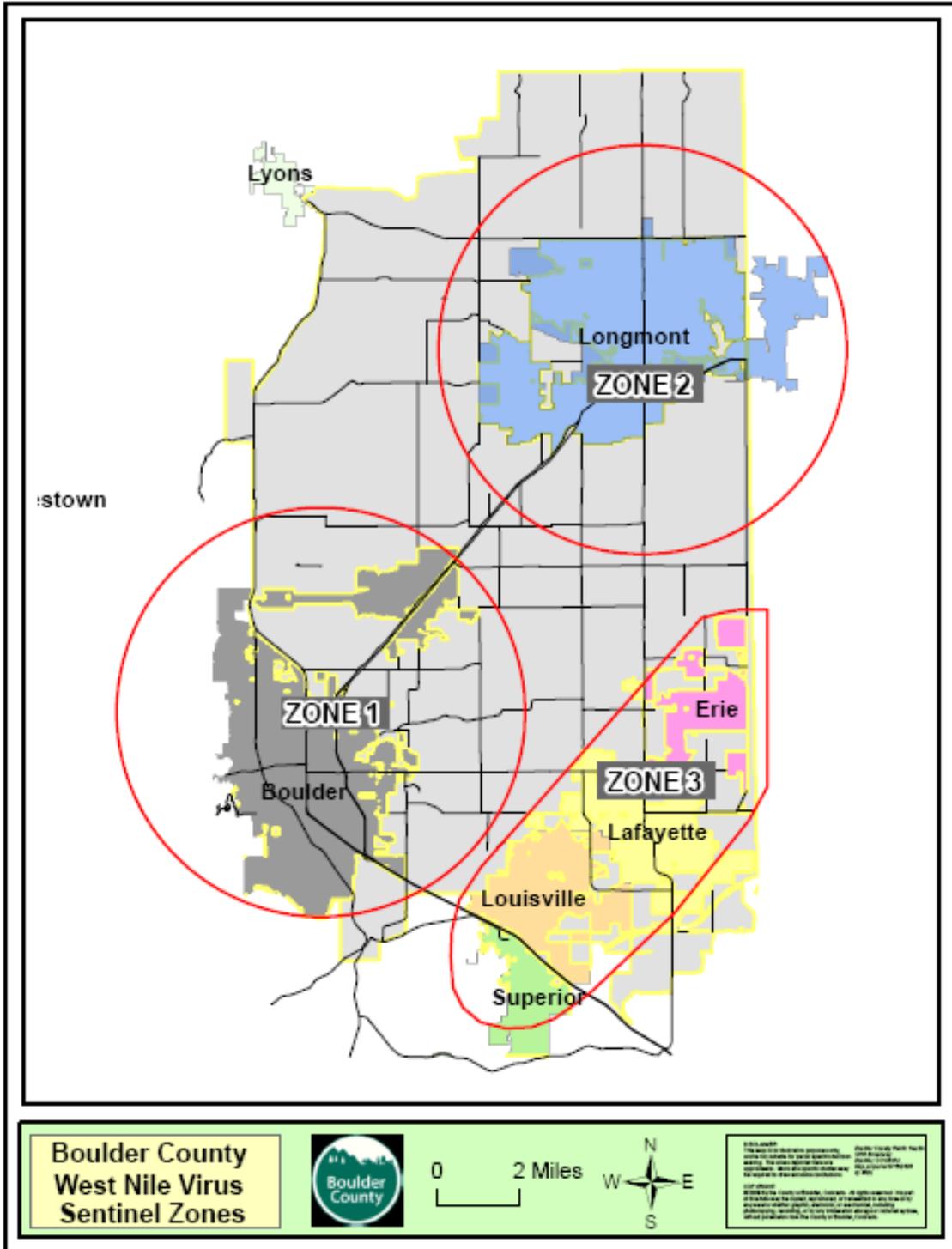


## WNV Vector Index

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 transmission risk. A vector index of 0.75 or above is an indicator of high risk for West Nile Virus transmission to humans in Boulder County, and influences the Mosquito Control District's adult mosquito emergency control measures. A vector index is calculated for three monitoring zones in Boulder County as indicated on the map on the following page.

**NOTE: (\*\*\*) indicates all the pools submitted for that zone tested positive, therefore we are unable to calculate an infection rate and vector index for that zone.**

VECTOR INDEX LOG			
	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 Zoonotic Disease Testing and Confirmations

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. Below is a summary of testing:

**NOTES:**

- ❖ Data are provided from the CDPHE Zoonotic Database and may not include samples submitted for testing prior to publishing of this report.
- ❖ Data reflect samples submitted by BCPH and may not include samples submitted by other agencies or private veterinary practices
- ❖ ‘Positive Vectors’ include only samples that have tested positive. Some submitted samples are deemed untestable.
- ❖ ‘Submitted Vectors’ denoted with (\*) indicate at least one sample was untestable. Untestable samples may be treated as positive for follow-up protocol.

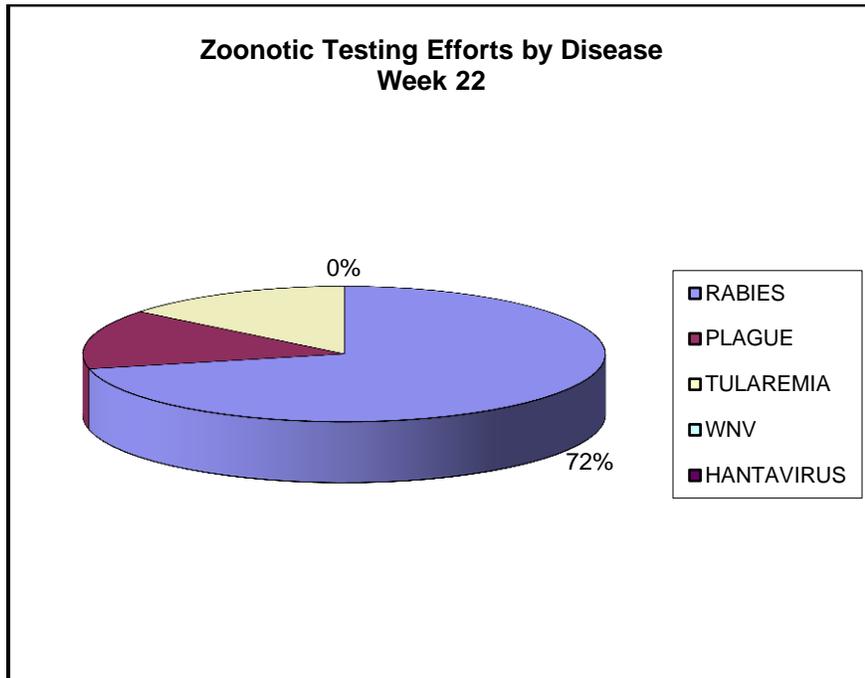
SUBMITTED VECTORS							POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23						0						0
Wk24						0						0
Wk25						0						0
Wk26						0						0
Wk27						0						0
Wk28						0						0
Wk29						0						0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	24	2	1	0	0	27	5	0	1	0	0	6



**BOULDER COUNTY PUBLIC HEALTH**  
**Environmental Health Division**  
 3450 Broadway  
 Boulder, CO 80304  
 303.441.1564  
[www.bouldercountyvector.org](http://www.bouldercountyvector.org)

<b>SEASON-TO-DATE DISEASE TESTING BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	9	0	0	0
Skunk	5	0	0	0
Raccoon	8	0	0	0
Squirrel	0	0	0	0
Cat	1	0	0	0
Flea	0	1	0	0
Dog	1	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	1	0
<b>TOTALS</b>	<b>24</b>	<b>2</b>	<b>1</b>	<b>0</b>

<b>SEASON-TO-DATE DISEASE POSITIVES BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	5	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
Other	0	0	1	0
<b>TOTALS</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>



## Zoonotic Disease Report June 7<sup>th</sup> – June 13<sup>th</sup> (Week 23)

### EXECUTIVE SUMMARY:

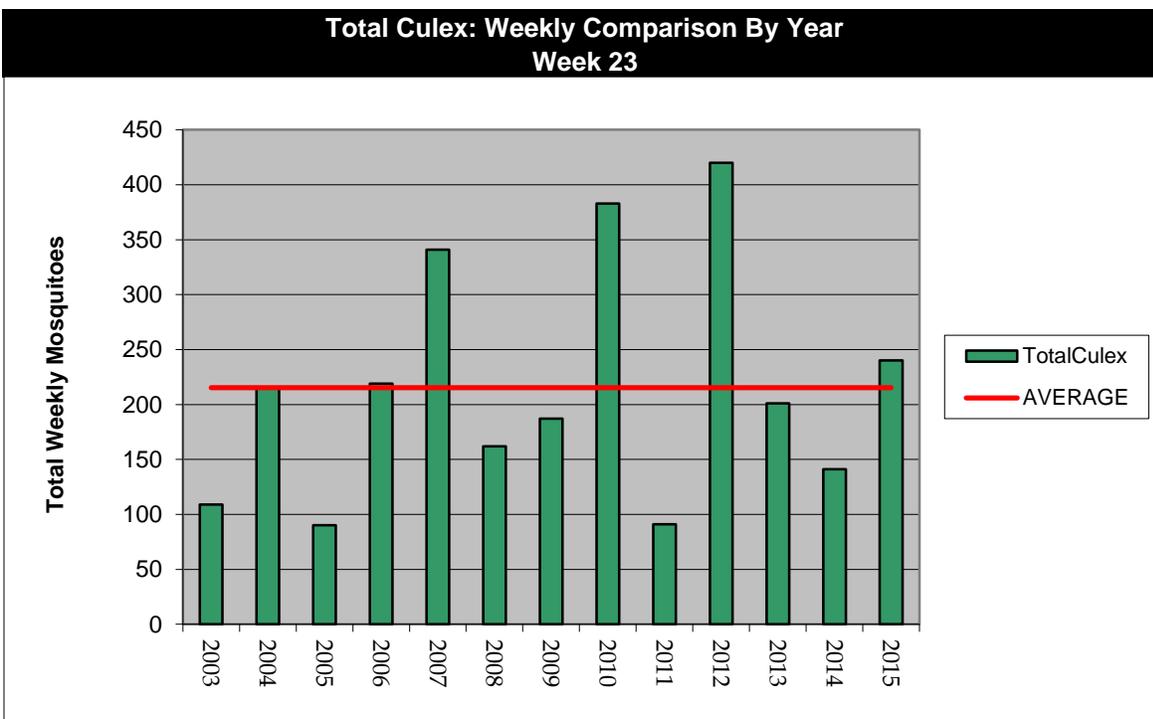
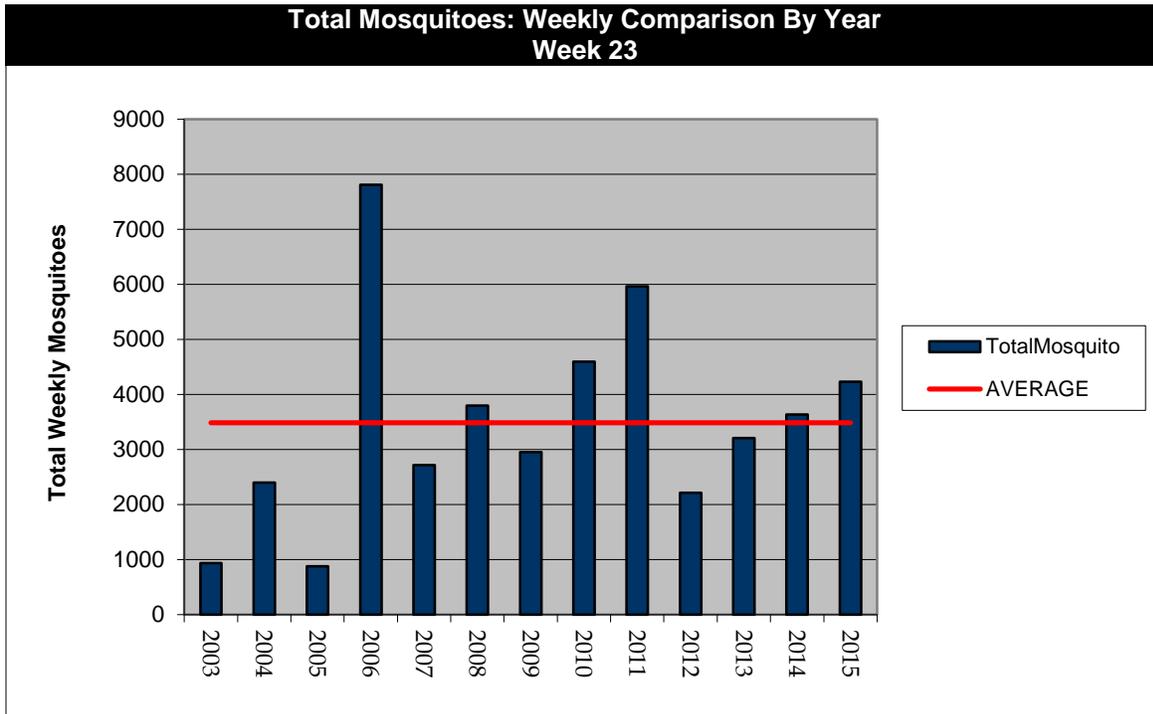
- A suspect tularemia case is being reported from a resident in Boulder. This is in addition to a Lafayette resident who tested positive in May. A total of five human tularemia cases were reported in Boulder County in 2014.
- Two bats and two raccoons were tested this week for rabies. All tested negative.
- Mosquito counts are slightly above average for this week.
- West Nile sentinel zone testing began this week. Five pools were submitted; results are pending.
- CDC reports three West Nile cases nationwide with no deaths: New Mexico (1), Oklahoma (1), and Texas (1).
- No specimens were submitted this week for plague, tularemia, or hantavirus.

### PROFILE OF COMMON ZOO NOTIC DISEASES IN BOULDER COUNTY

Disease	Symptoms	Vector	Prevention
 <b>WEST NILE VIRUS</b>	Fever, extreme fatigue, head and body aches, skin rashes. More severe symptoms can be meningitis, encephalitis, tremors, vision loss, and paralysis	Mosquitoes, primarily <i>Culex tarsalis</i> and <i>Culex pipiens</i> mosquitoes in Colorado	Dress in long clothes, drain standing water, use DEET, avoid outdoors during dusk/dawn
 <b>HANTA VIRUS</b>	Fever, chills, headache, muscle pain in shoulders, lower back, and thighs, nausea, vomiting, diarrhea, dizziness	deer mouse, spread by inhalation of dried droppings,	Prevent rodent infestation, avoid aerosoling rodent droppings when cleaning, moisten rodent droppings with water and bleach, ventilate cleaning area,
  <b>PLAGUE</b>	Fever, chills, headache, rapidly progressive weakness, painful swollen regional lymph nodes (buboes)	flea bites, usually roosting on infected animals	Avoid fleas and areas with wild rodents; do not touch sick or dead wild animals; prevent home rodent infestations; treat known rodent areas with flea powder; see healthcare provider if you show symptoms
 <b>TULAREMIA</b>	abrupt onset of fever, chills, muscle aches, headache, painful lesion at infection site, swollen lymph nodes	wild mammals, primarily rabbits, muskrats,	wear gloves when handling wild rabbit carcasses, cook game meat thoroughly
 <b>RABIES</b>	Apprehension, headache, fever, anxiety, difficulty swallowing, seizures and possible paralysis	All mammals, Bats, raccoons, skunks, foxes, and coyotes most common	vaccinate pets, avoid wildlife, contact healthcare provider if bitten by an animal

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## Mosquito Season Monitoring



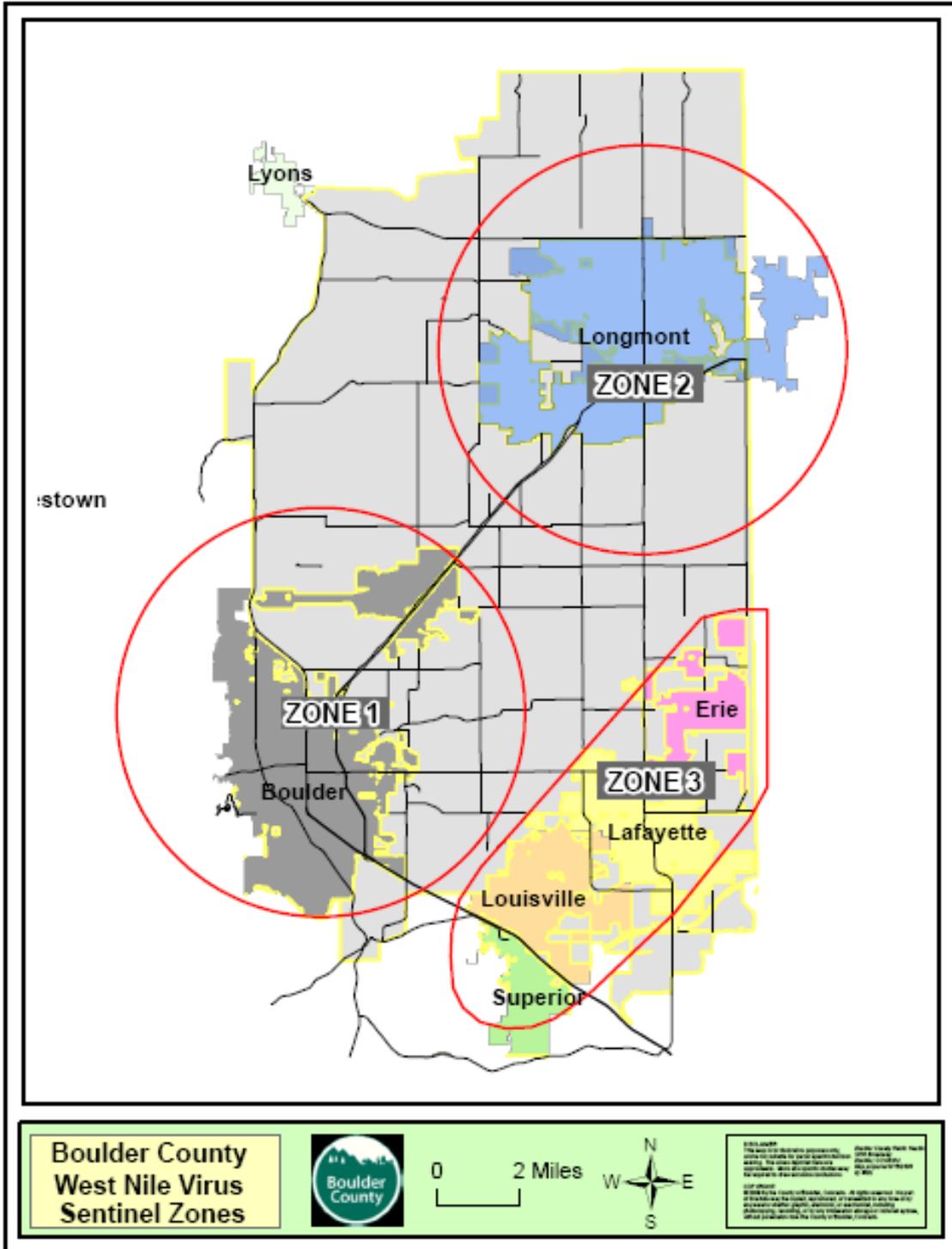


## WNV Vector Index

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 transmission risk. A vector index of 0.75 or above is an indicator of high risk for West Nile Virus transmission to humans in Boulder County, and influences the Mosquito Control District's adult mosquito emergency control measures. A vector index is calculated for three monitoring zones in Boulder County as indicated on the map on the following page.

**NOTE: (\*\*\*) indicates all the pools submitted for that zone tested positive, therefore we are unable to calculate an infection rate and vector index for that zone.**

VECTOR INDEX LOG			
	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	Pending	Pending	Pending
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 Zoonotic Disease Testing and Confirmations

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. Below is a summary of testing:

**NOTES:**

- ❖ Data are provided from the CDPHE Zoonotic Database and may not include samples submitted for testing prior to publishing of this report.
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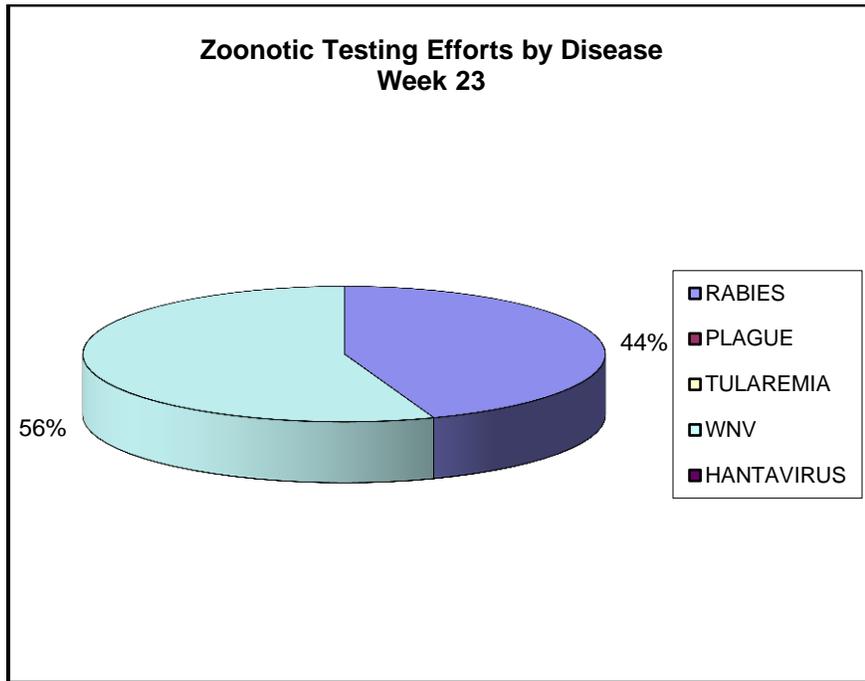
SUBMITTED VECTORS							POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24						0						0
Wk25						0						0
Wk26						0						0
Wk27						0						0
Wk28						0						0
Wk29						0						0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	28	2	1	5	0	36	5	0	1	0	0	6



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<b>SEASON-TO-DATE DISEASE TESTING BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	11	0	0	0
Skunk	5	0	0	0
Raccoon	10	0	0	0
Squirrel	0	0	0	0
Cat	1	0	0	0
Flea	0	1	0	0
Dog	1	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	1	0
<b>TOTALS</b>	<b>28</b>	<b>2</b>	<b>1</b>	<b>0</b>

<b>SEASON-TO-DATE DISEASE POSITIVES BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	5	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
Other	0	0	1	0
<b>TOTALS</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>





## Zoonotic Disease Report June 14 – June 20, 2015 (Week 24)

### Executive Summary

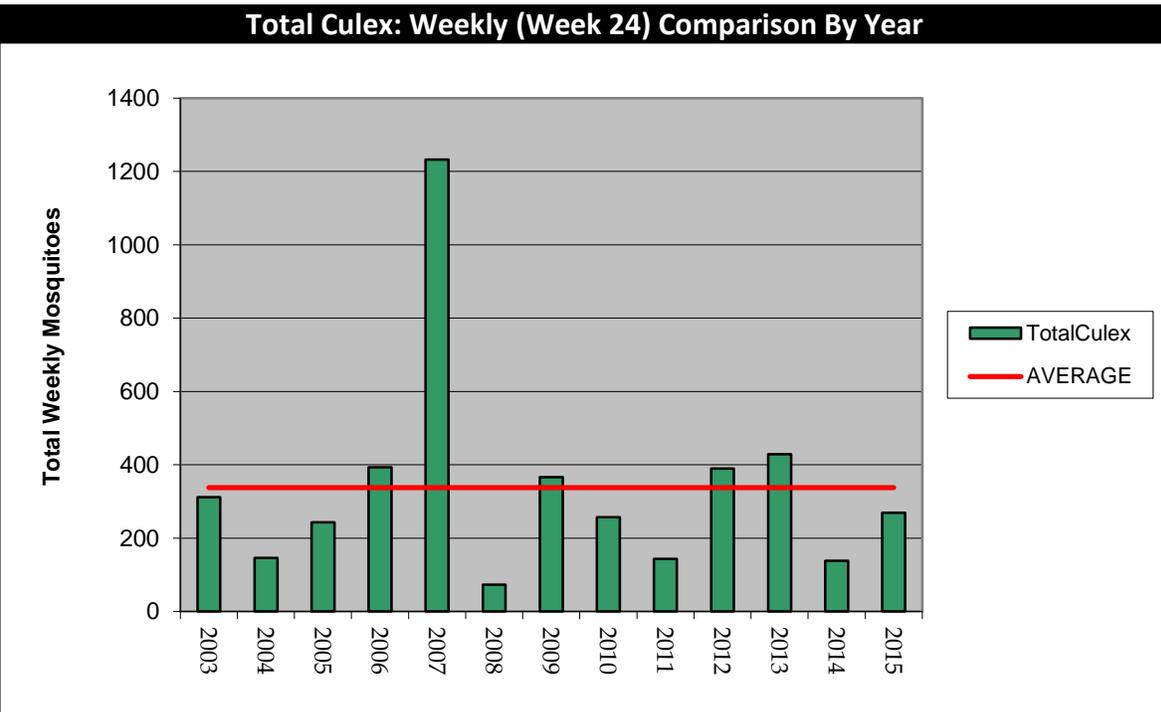
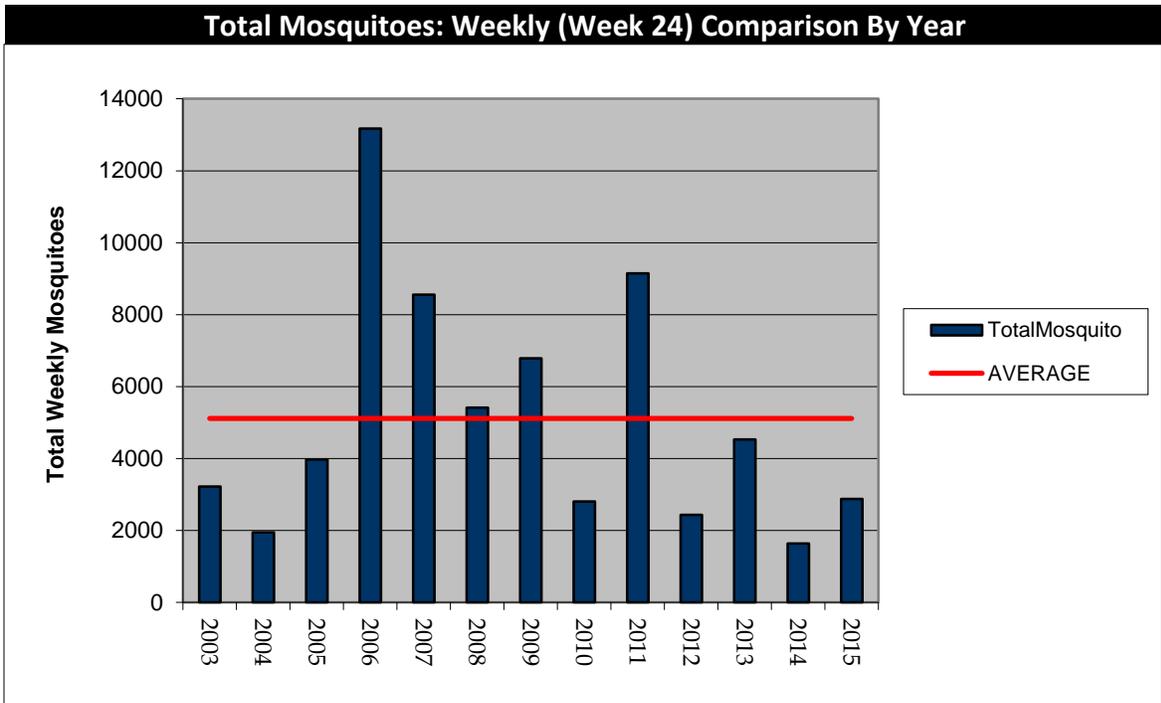
- A second person is being tested for tularemia for total of two suspect human tularemia cases this month.
- Five bats, three raccoons, and one dog were tested this week for rabies. All tested negative.
- One squirrel was tested for plague and tularemia; both tests were negative.
- One rabbit tested negative for tularemia.
- No specimens were submitted for hantavirus.
- Total mosquito counts are well below average for this week, with *Culex* totals slightly below average.
- All mosquito pools collected last week tested negative for West Nile virus.
- Five mosquito pools were submitted for West Nile virus testing this week; three were negative, two are pending.

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>	2	2	0

# 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	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 24	<b>pending</b>	<b>0.00</b>	<b>0.00</b>
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

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### Submissions and Results by Disease

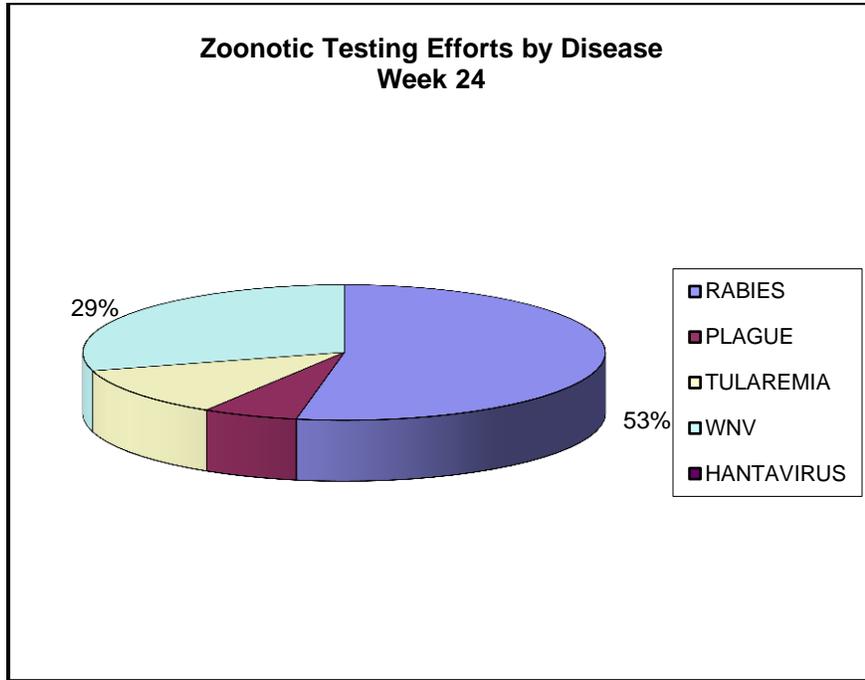
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9	1	2	5	0	17	0	0	0	0	0	0
Wk25						0						0
Wk26						0						0
Wk27						0						0
Wk28						0						0
Wk29						0						0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	37	3	3	10	0	53	5	0	1	0	0	6

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	16	0	0	0
Skunk	5	0	0	0
Raccoon	13	0	0	0
Squirrel	0	1	1	0
Cat	1	0	0	0
Flea	0	1	0	0
Dog	2	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	2	0
<b>TOTALS</b>	<b>37</b>	<b>3</b>	<b>3</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	5	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
Other	0	0	1	0
<b>TOTALS</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report June 21 – June 27, 2015 (Week 25)

### Executive Summary

- CDPHE reports 11 human cases of tularemia statewide so far this year. This compares with 16 cases for all of 2014 and a yearly average of less than four.
- Boulder County reports 4 tularemia cases: 2 confirmed, 2 suspect.
- One bat and one cat were tested for rabies, both testing negative. One bat was deemed untestable.
- Total mosquito counts rose this week, but still remain slightly below average for the week. *Culex* species, however, are above average for the week.
- No mosquito pools have tested positive for West Nile virus yet this season.
- No specimens were submitted for plague, tularemia or hantavirus.

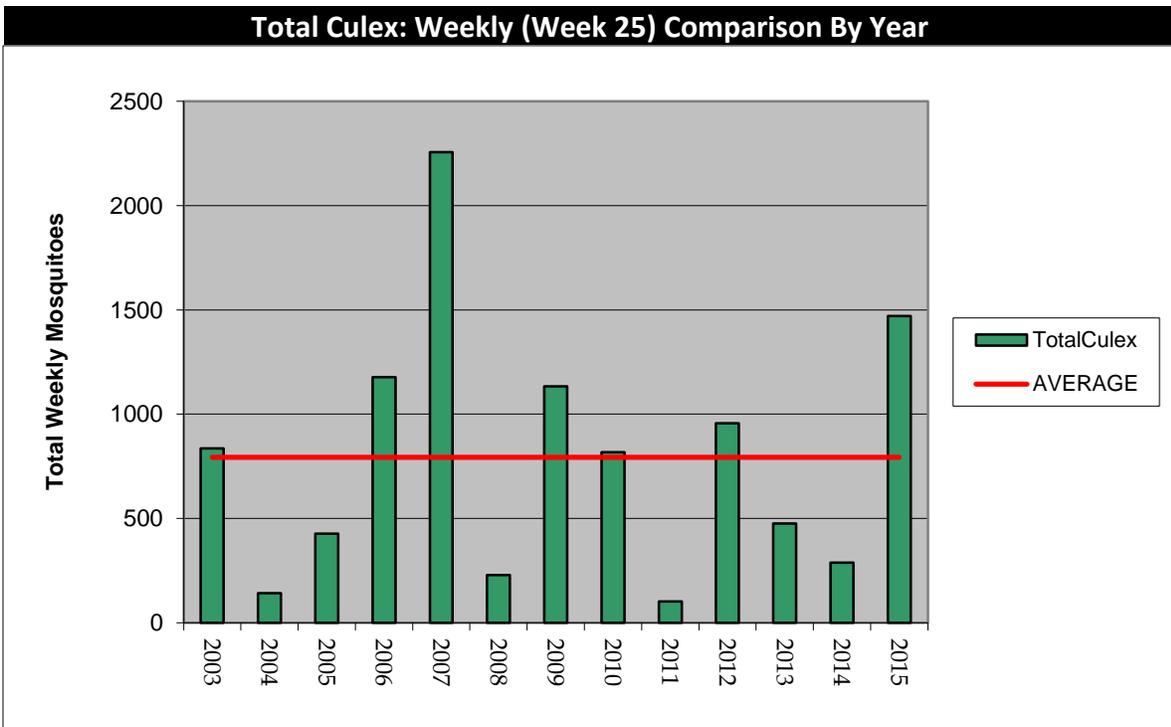
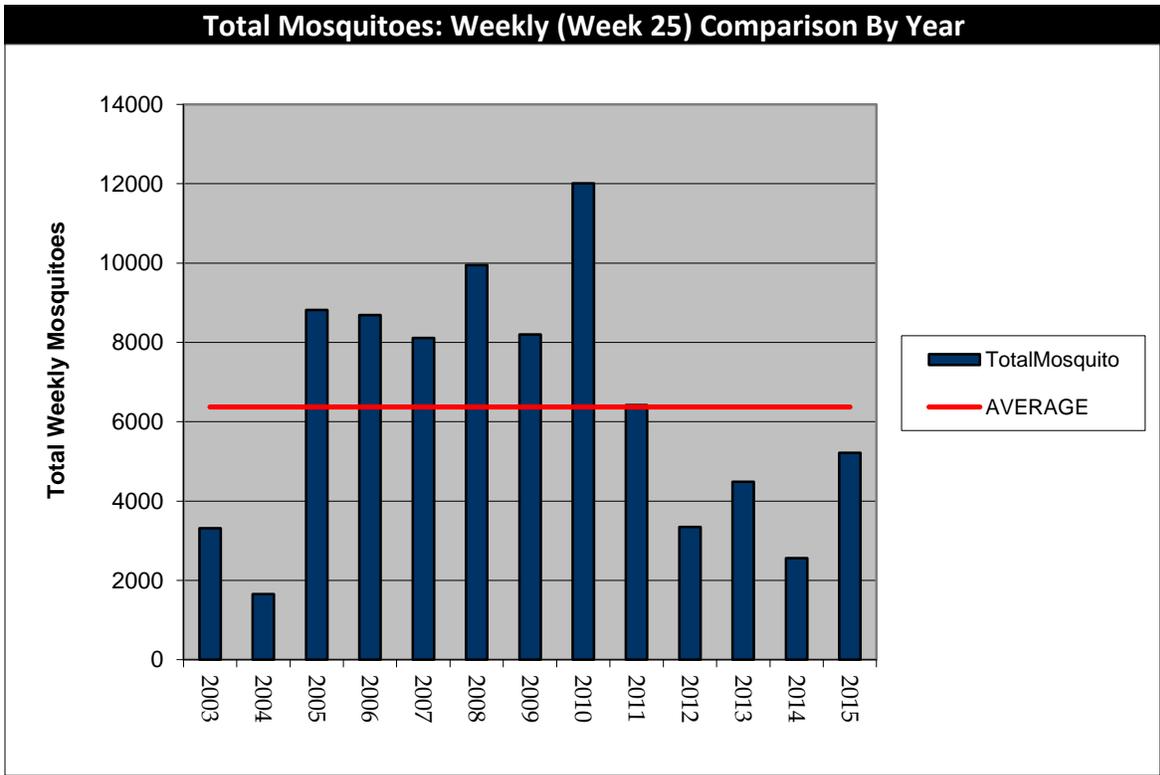
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### West Nile Virus (WNV) Activity

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>	3	2	0

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

# 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	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 24	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Week 25	<b>Pending</b>	<b>0.00</b>	<b>0.00</b>
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.

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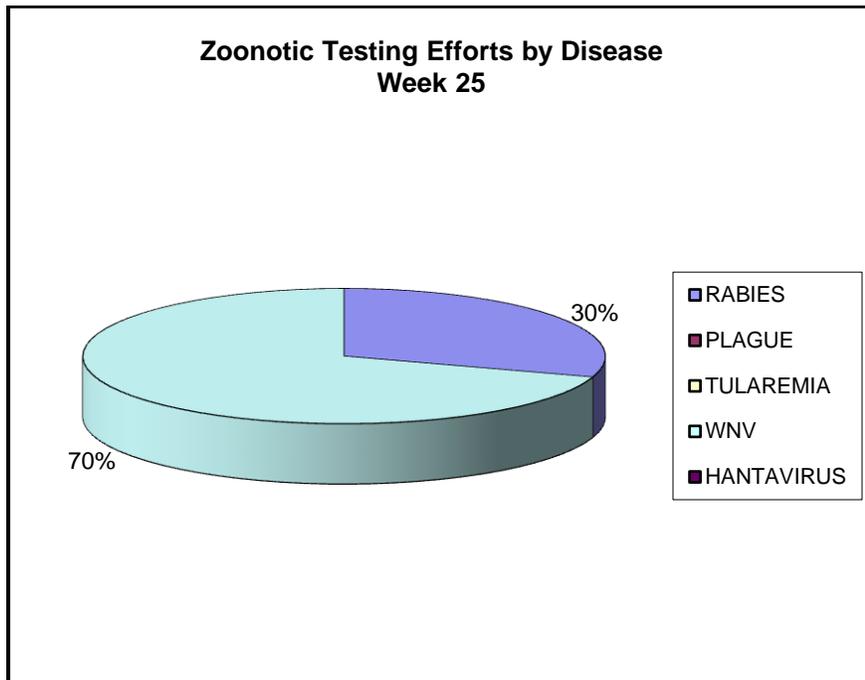
SUBMITTED VECTORS							POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	8	0	0	0	0	0	0
Wk25	3*	0	0	7	0	9						0
Wk26						0						0
Wk27						0						0
Wk28						0						0
Wk29						0						0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	40	3	3	17	0	53	5	0	1	0	0	6

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	18	0	0	0
Skunk	5	0	0	0
Raccoon	13	0	0	0
Squirrel	0	1	1	0
Cat	2	0	0	0
Flea	0	1	0	0
Dog	2	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	2	0
<b>TOTALS</b>	<b>40</b>	<b>3</b>	<b>3</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	5	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
Other	0	0	1	0
<b>TOTALS</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report June 28 – July 4, 2015 (Week 26)

### Executive Summary

- CDPHE reports 12 human cases of tularemia statewide so far this year. This compares with 16 cases for all of 2014 and a yearly average of less than four.
- Boulder County reports 5 tularemia cases: 2 confirmed, 2 suspect, and 1 probable.
- Two bats were submitted for rabies testing. One specimen tested negative, results are pending on the other.
- Total mosquito counts rose this week, but remain average for the week. *Culex* species, however, are above average for the week.
- No mosquito pools have tested positive for West Nile virus yet this season.
- No specimens were submitted for plague, tularemia or hantavirus.

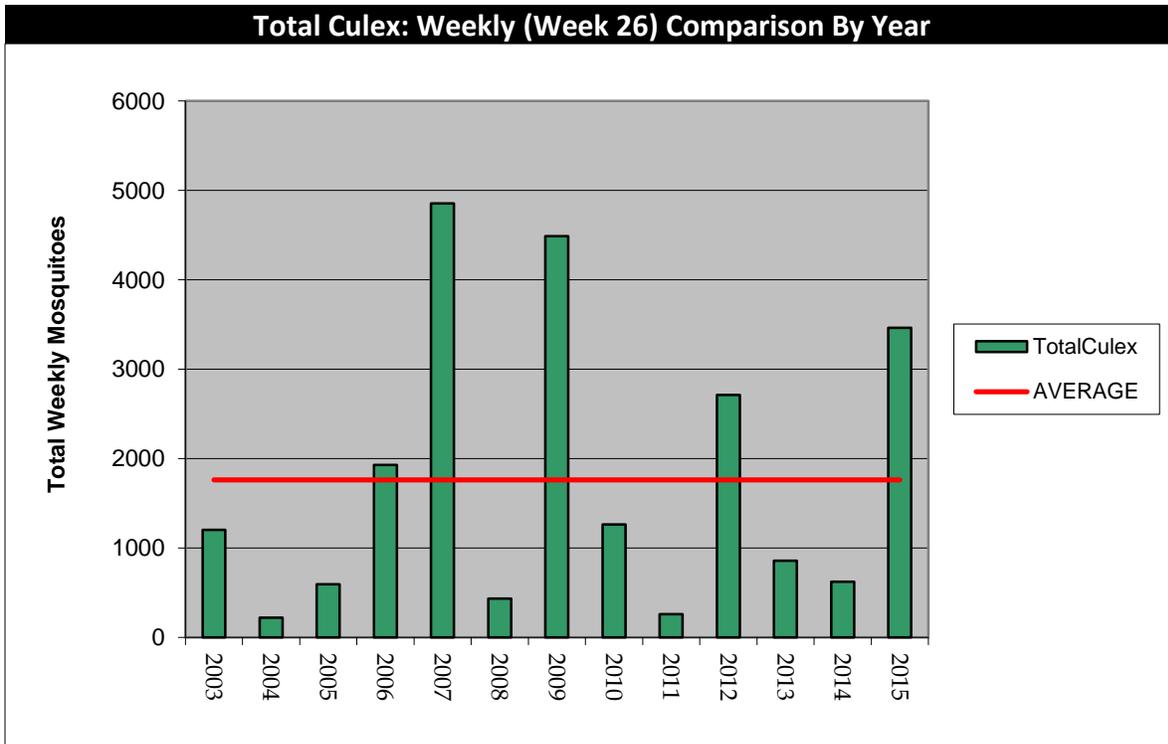
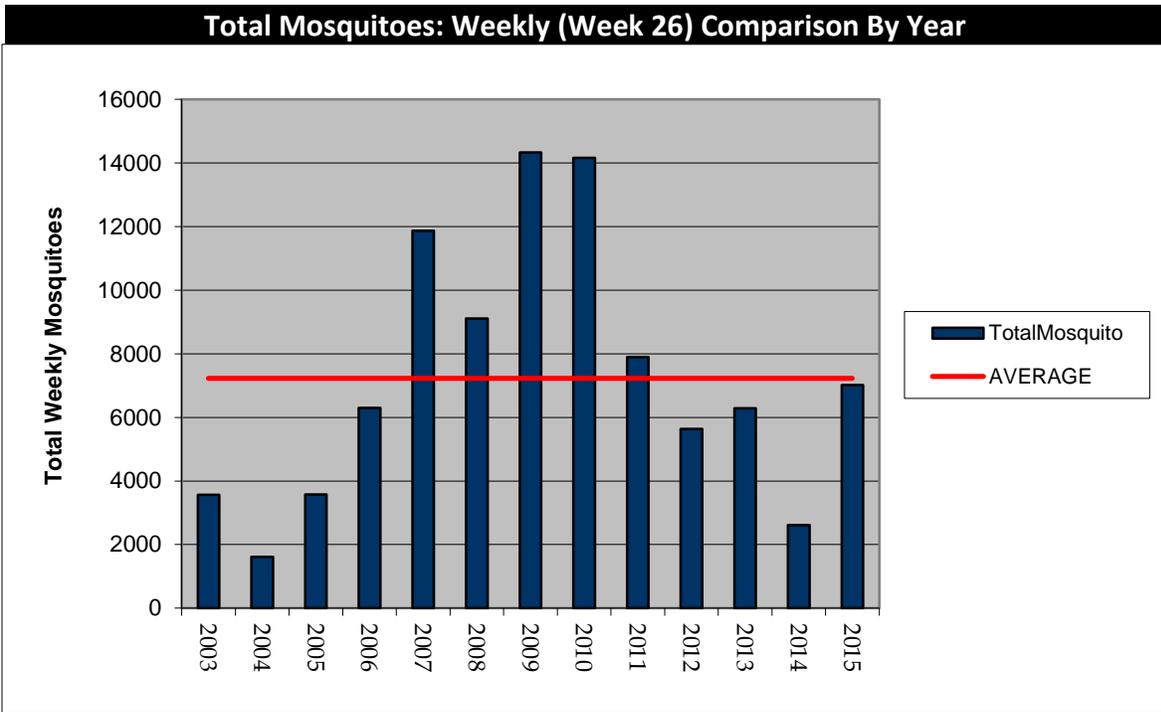
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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>	5	2	0

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
Week 24	0.00	0.00	0.00
Week 25	0.00	0.00	0.00
Week 26	Pending	0.00	0.00
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 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

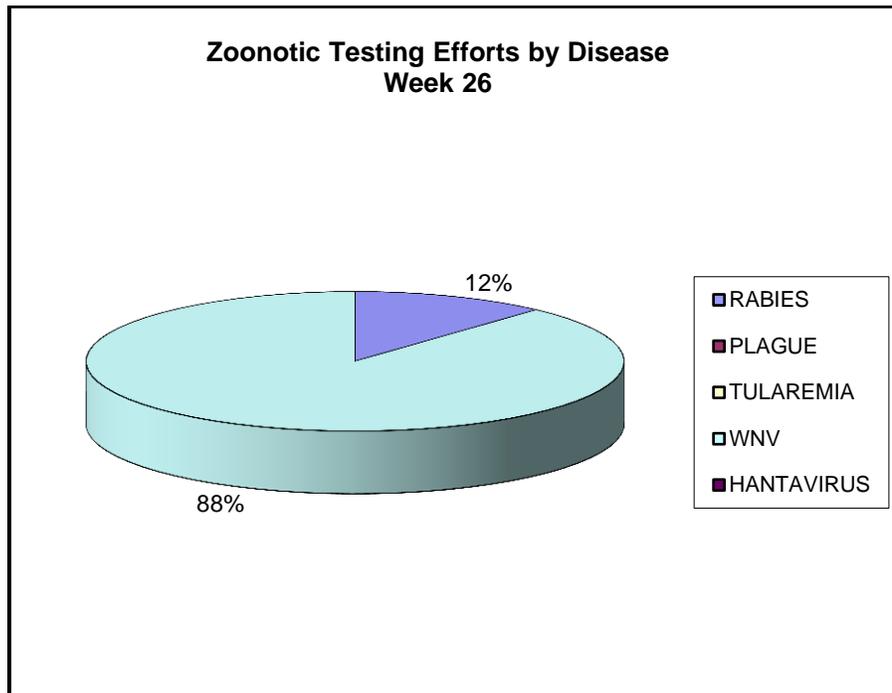
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	14	0	0	0	0	0	0
Wk27						0						0
Wk28						0						0
Wk29						0						0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	45	3	3	32	0	80	5	0	1	0	0	6

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	21	0	0	0
Skunk	5	0	0	0
Raccoon	14	0	0	0
Squirrel	0	1	1	0
Cat	2	0	0	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	2	0
<b>TOTALS</b>	<b>45</b>	<b>3</b>	<b>3</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	5	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
Other	0	0	1	0
<b>TOTALS</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report July 5 – July 11, 2015 (Week 27)

### Executive Summary

- CDPHE reported the first human case of West Nile Virus this week in a resident from Mesa County.
- CDPHE also reports the first positive WNV mosquito pools: Denver (1) and Larimer (2).
- Boulder County has not identified any WNV activity so far this year.
- Total mosquito and *Culex* counts are near average for this week.
- CDPHE reports 16 human cases of tularemia statewide so far this year. This compares with 16 cases for all of 2014 and a yearly average of less than four.
- Boulder County reports 5 tularemia cases: 2 confirmed, 2 suspect, and 1 probable.
- Two bats, one skunk, and one raccoon were submitted for rabies testing, all testing negative.
- No specimens were submitted for plague, tularemia or hantavirus.

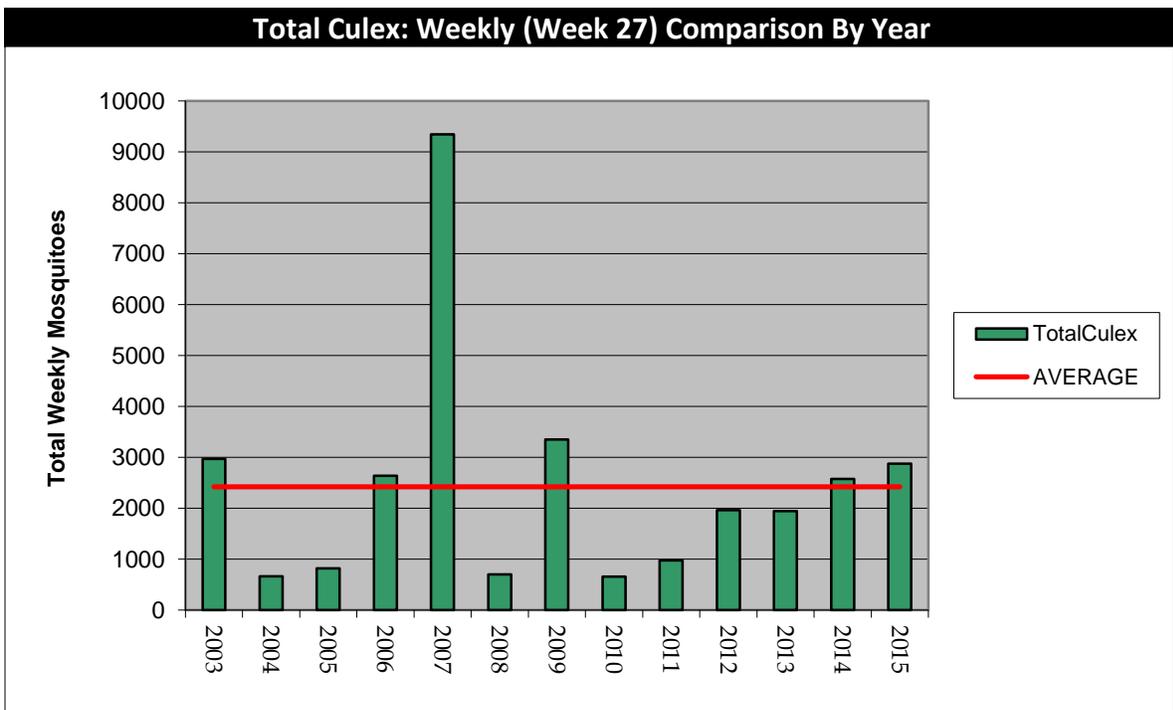
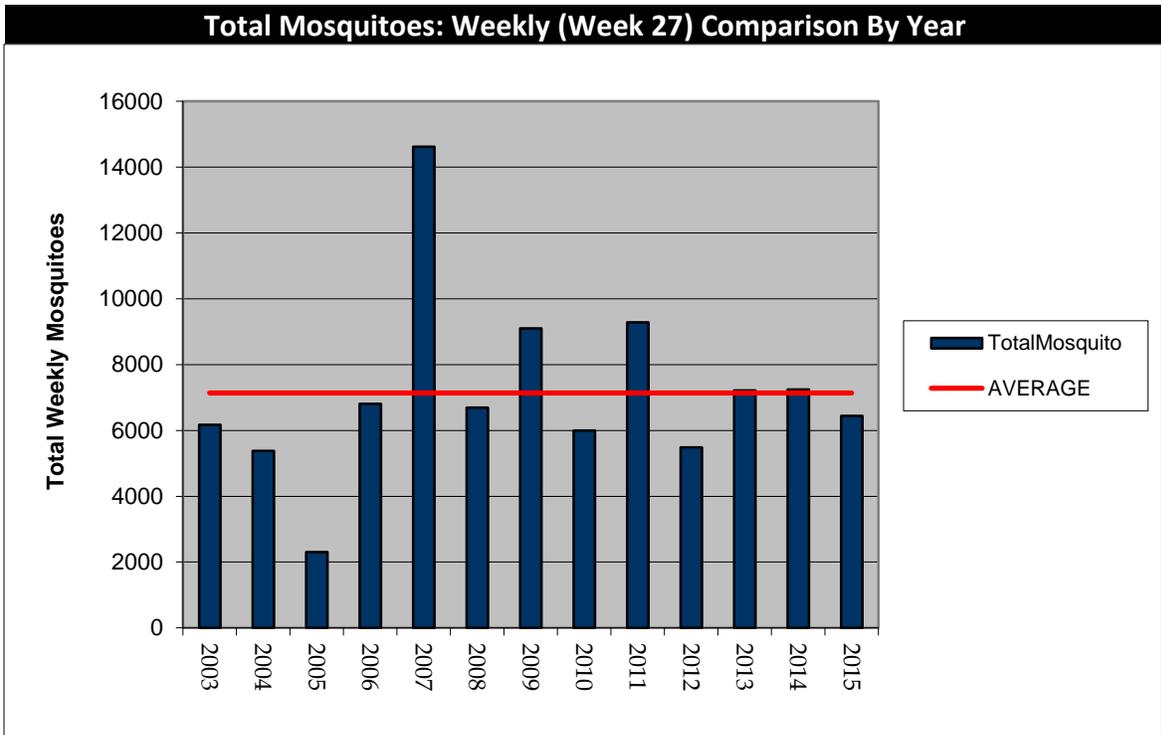
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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	1	0
<b>United States</b>	8	2	0

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	Pending	0.00	0.00
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 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

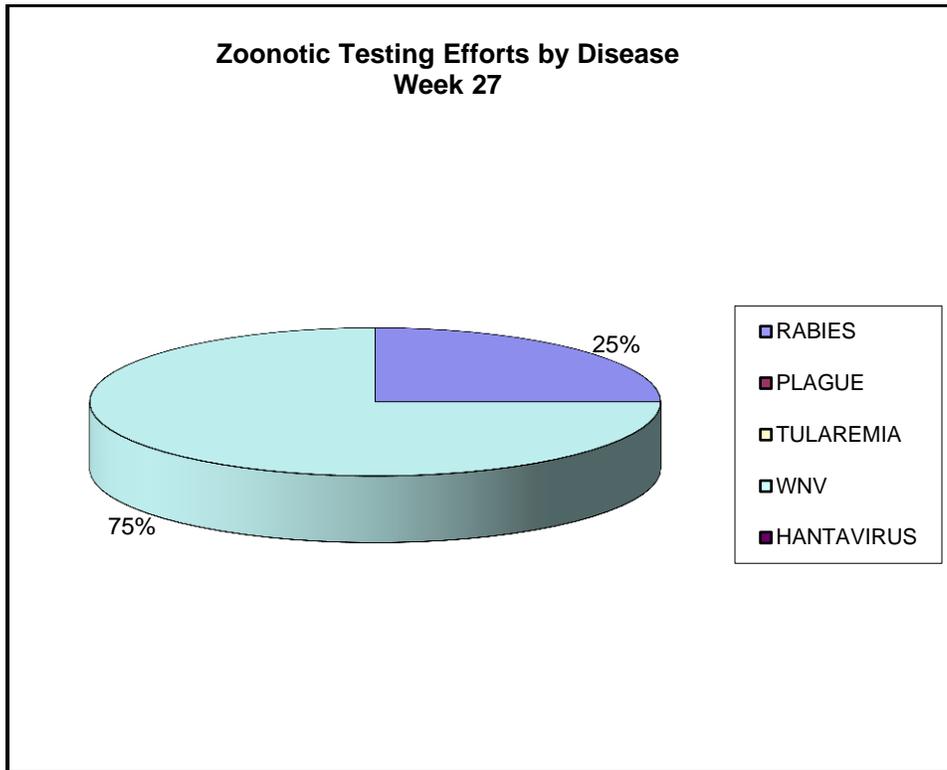
SUBMITTED VECTORS							POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	4	0	0	12	0	16	0	0	0	0	0	0
Wk28						0						0
Wk29						0						0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	49	3	3	44	0	99	5	0	1	0	0	6

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	23	0	0	0
Skunk	6	0	0	0
Raccoon	15	0	0	0
Squirrel	0	1	1	0
Cat	2	0	0	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	0	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	2	0
<b>TOTALS</b>	<b>49</b>	<b>3</b>	<b>3</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	5	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
Other	0	0	1	0
<b>TOTALS</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report July 12 – July 18, 2015 (Week 28)

### Executive Summary

- CDPHE reports no new West Nile Virus human infections this week.
- Mosquito pools have tested positive in Denver, Larimer, Pueblo and Weld counties.
- Boulder County has not identified any WNV activity so far this year. Total mosquito and *Culex* counts, however, are above average for this week.
- CDPHE reports 16 human cases of tularemia statewide so far this year. This compares with 16 cases for all of 2014 and a yearly average of less than four.
- Boulder County reports 6 tularemia cases.
- Three bats, one fox, and one raccoon were submitted for rabies testing, all testing negative.
- No specimens were submitted for plague, tularemia or hantavirus.

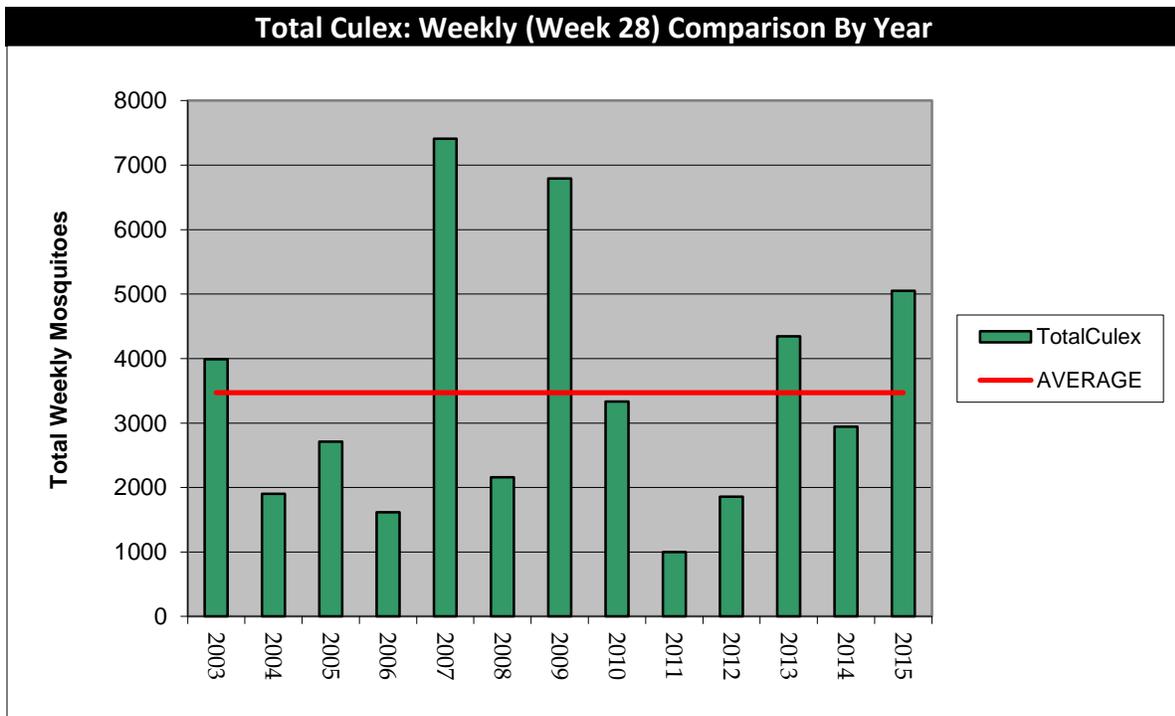
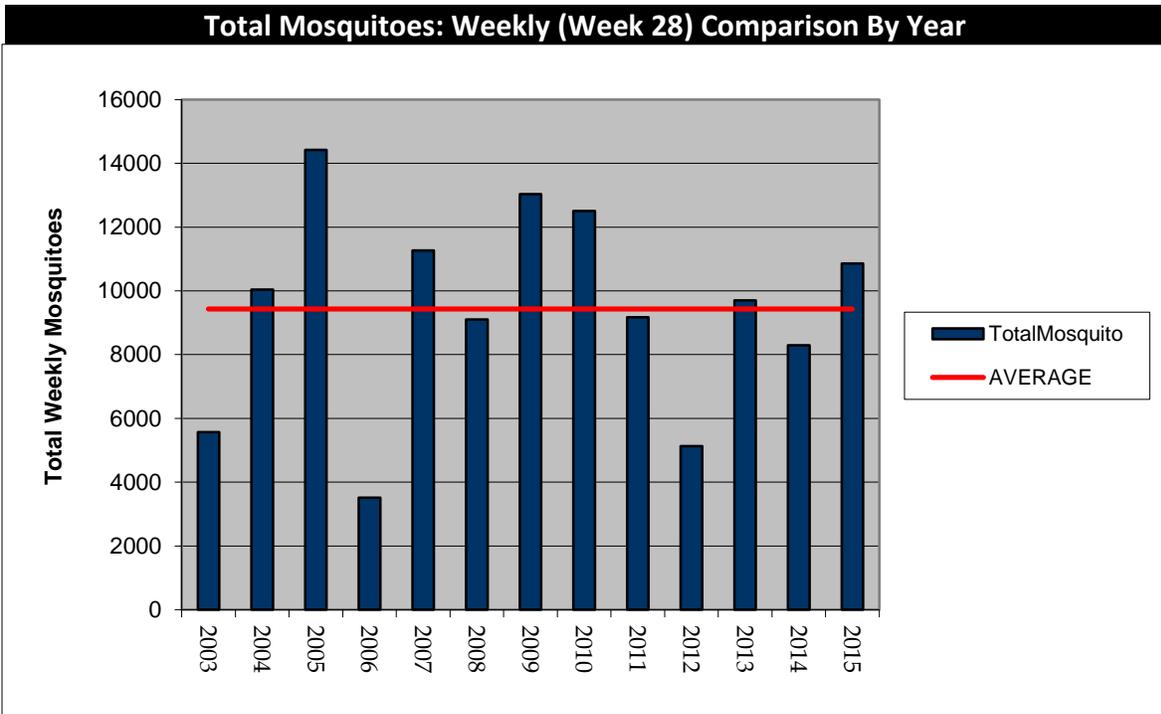
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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	1	0
<b>United States</b>	11	6	0

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	Pending	0.00	0.00
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 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

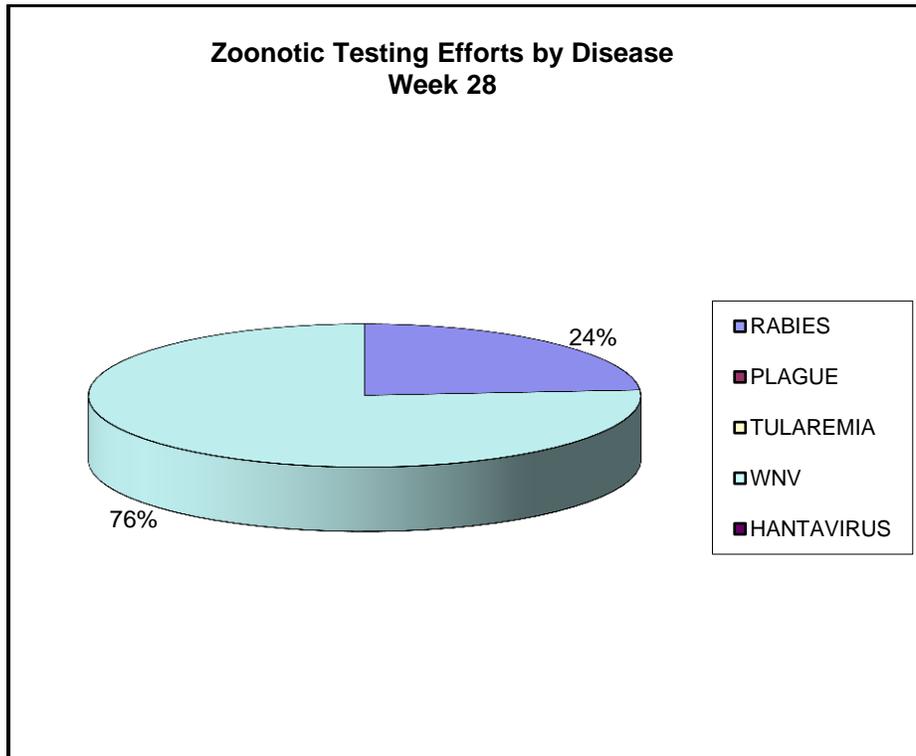
SUBMITTED VECTORS							POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	0	0	0
Wk29						0						0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	55	3	3	60	0	121	5	0	1	0	0	6

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	27	0	0	0
Skunk	6	0	0	0
Raccoon	16	0	0	0
Squirrel	0	1	1	0
Cat	2	0	0	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	2	0
<b>TOTALS</b>	<b>55</b>	<b>3</b>	<b>3</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	5	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
Other	0	0	1	0
<b>TOTALS</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report July 19 – July 25, 2015 (Week 29)

### Executive Summary

- CDPHE reports no new West Nile Virus human infections this week.
- Mosquito pools have tested positive in Denver, Larimer, Pueblo, Weld, Jefferson, Mesa and Boulder counties.
- Boulder County had its first WNV positive mosquito pool for the year last week with a vector index of .14.
- Total mosquito and *Culex* counts are slightly below average for this week.
- Four bats, two skunks, and one raccoon were submitted for rabies testing, one skunk tested positive, all others tested negative.
- No specimens were submitted for plague, tularemia or hantavirus.

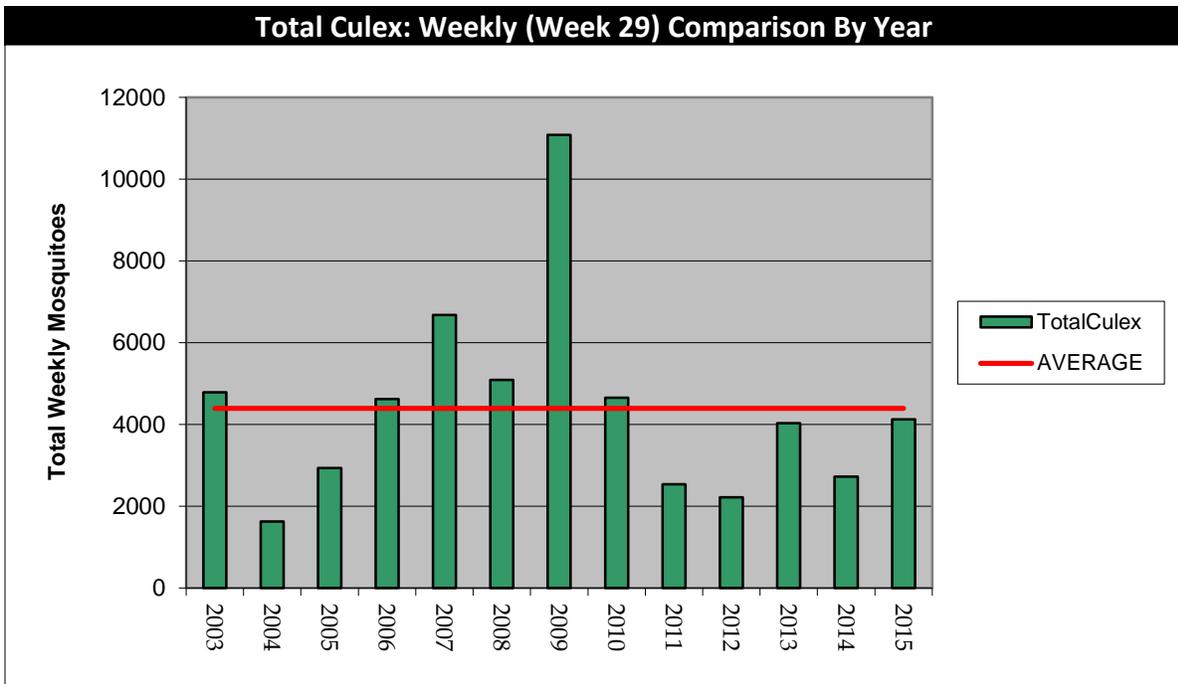
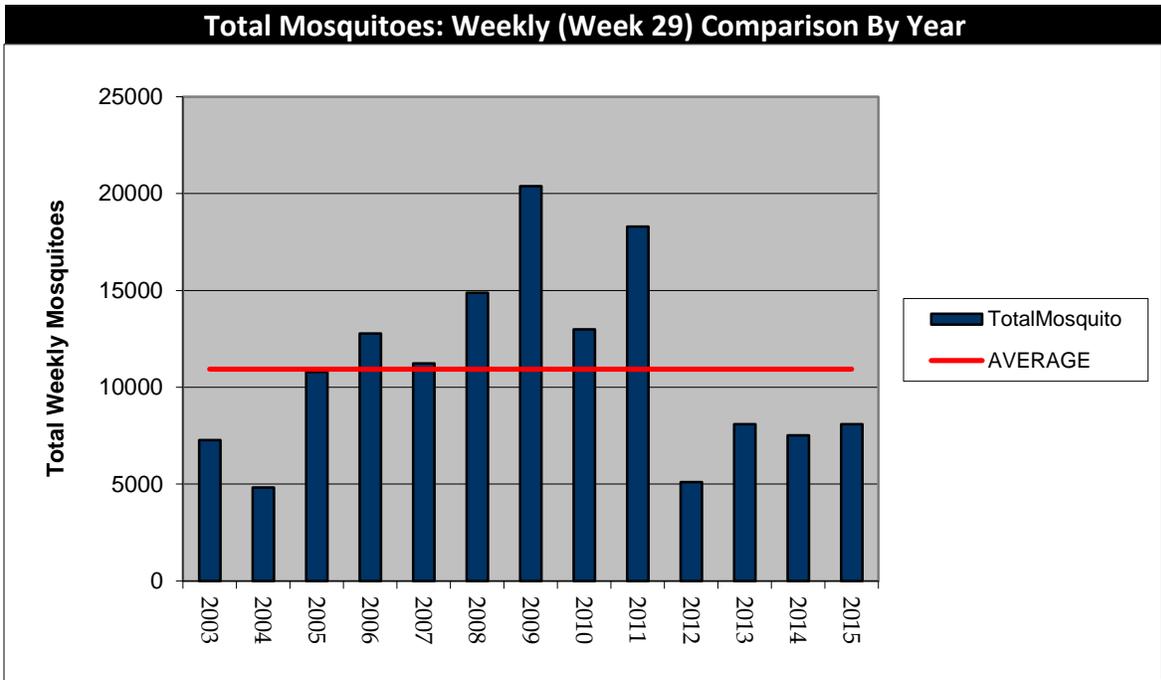
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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	1	0
<b>United States</b>	14	9	0

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	Pending	0.00	0.00
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 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

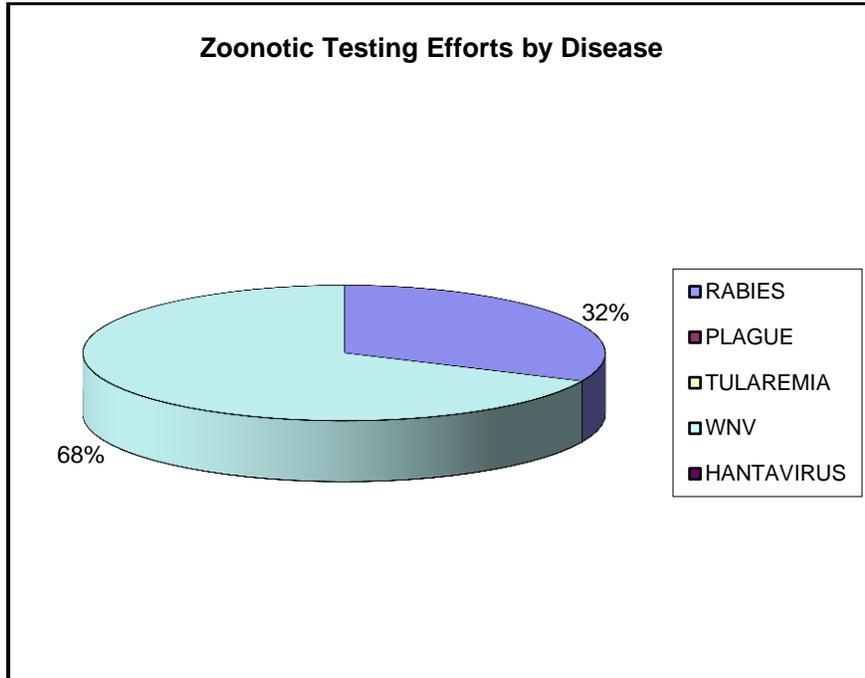
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	0
Wk29	7	0	0	15	0	0	1	0	0	0	0	0
Wk30						0						0
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	62	3	3	75	0	143	6	0	1	1	0	8

## Submissions and Results by Species

<b>SEASON-TO-DATE DISEASE TESTING BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	31	0	0	0
Skunk	8	0	0	0
Raccoon	17	0	0	0
Squirrel	0	1	1	0
Cat	2	0	0	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	1	2	0
<b>TOTALS</b>	<b>62</b>	<b>3</b>	<b>3</b>	<b>0</b>

<b>SEASON-TO-DATE DISEASE POSITIVES BY SPECIES</b>				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	0	0	0	0
Skunk	6	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
Other	0	0	1	0
<b>TOTALS</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report July 26 – August 1, 2015 (Week 30)

### Executive Summary

- CDPHE reports no new West Nile Virus (WNV) human infections this week.
- The first WNV death for 2015 was reported in California.
- Boulder County reports 1 new tularemia case this week for a total of 7 confirmed cases so far this year.
- Mosquitoes have tested positive for WNV in Alamosa County.
- Boulder County tested positive for WNV in Sentinel Zones 2 & 3 this week with vector indexes of 0.20 & 0.18 respectively. Zone 1 is pending.
- Total mosquito and *Culex* counts are below average for the week.
- Seven bats, one skunk, and one raccoon were submitted for rabies testing, one bat tested positive, all others tested negative.
- A chipmunk was submitted for plague and tularemia, testing positive for plague.
- One domestic cat was tested for tularemia and tested negative.
- No specimens were submitted for hantavirus.

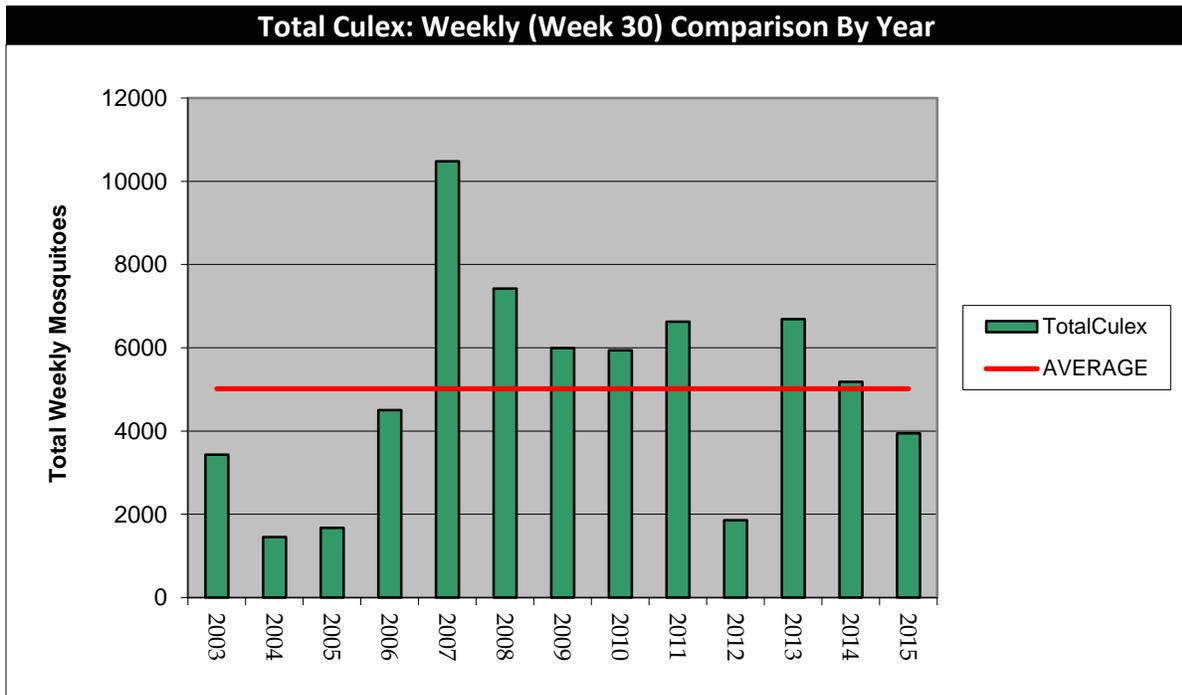
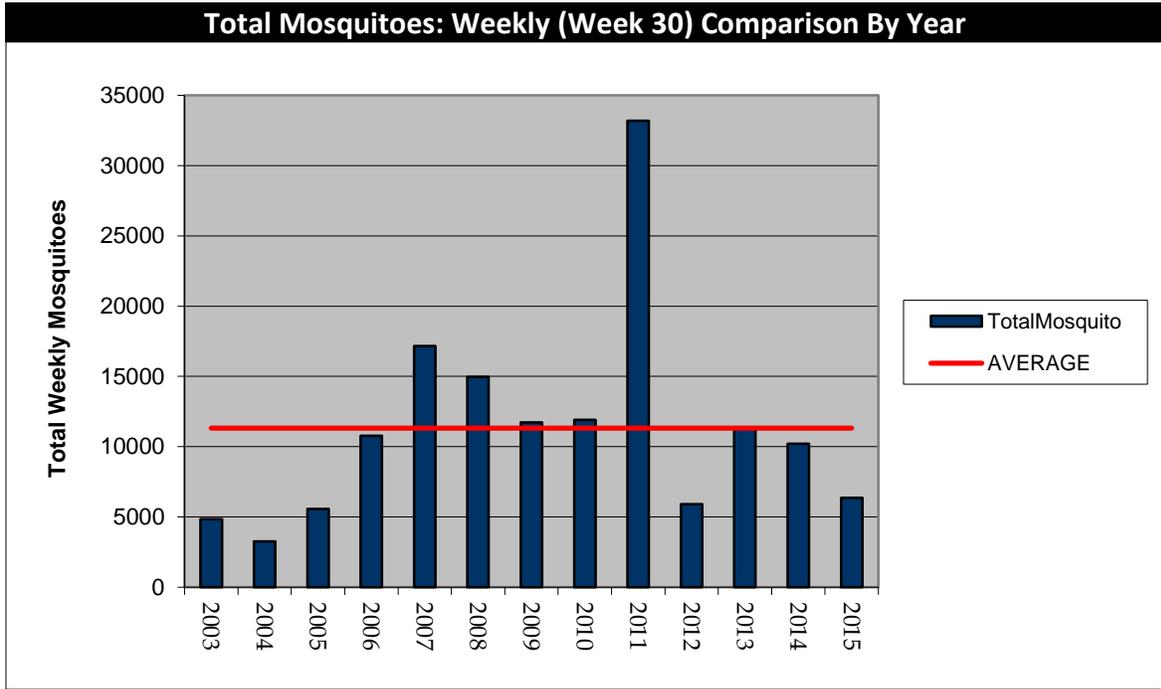
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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	1	0
<b>United States</b>	23	15	1

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

## 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			
Season Week	ZONE 1 Vector Index	ZONE 2 Vector Index	ZONE 3 Vector Index
Week 21	-----	-----	-----
Week 22	-----	-----	-----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	Pending	0.20	0.18
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 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

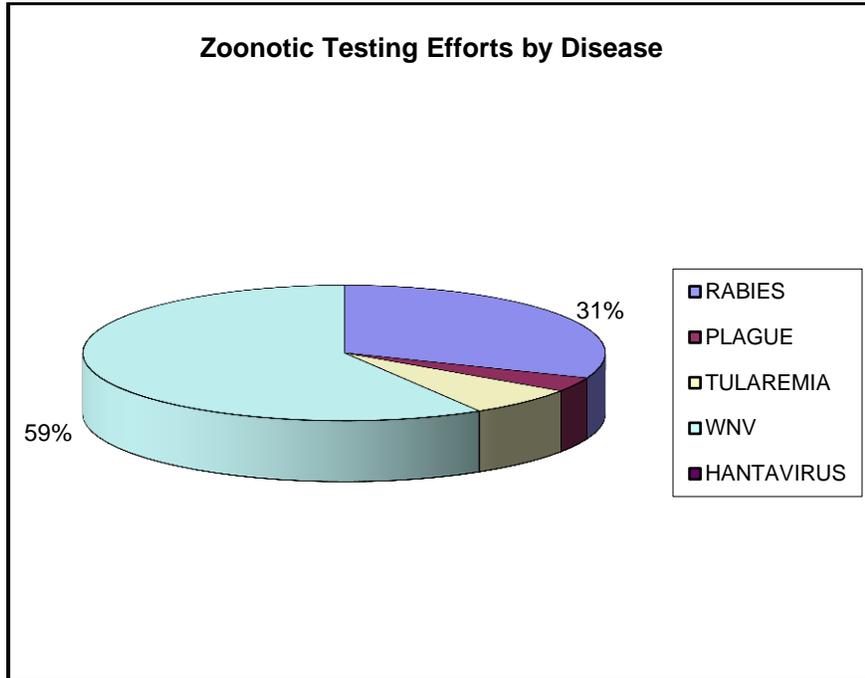
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	9	1	2	17	0	29	1	1	0	2	0	4
Wk31						0						0
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	<b>71</b>	<b>4</b>	<b>5</b>	<b>92</b>	<b>0</b>	<b>172</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>12</b>

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	38	0	0	0
Skunk	9	0	0	0
Raccoon	18	0	0	0
Squirrel	0	1	1	0
Cat	2	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>71</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	1	0	0	0
Skunk	6	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
Other	0	1	1	0
<b>TOTALS</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report August 2 - August 8, 2015 (Week 31)

### Executive Summary

- CDPHE reports a total of three WNV human infection cases: Larimer (1), Pueblo (1), and Mesa County (1). This case count is less than that of the 2014 season, during which time 7 cases had been confirmed.
- Two additional human WNV deaths were reported in Texas and Arizona.
- Boulder County reported 1 human plague case this week. A total of 4 confirmed cases have been reported in Colorado.
- Boulder County reports 8 tularemia cases.
- WNV Sentinel Zones 1 and 3 tested positive with vector indices of 0.20 & 0.18 respectively.
- Total mosquito counts are below average and *Culex* counts are about average for the week.
- 2 bats were submitted for rabies testing and both tested negative.
- No specimens were submitted for tularemia, plague and hantavirus.

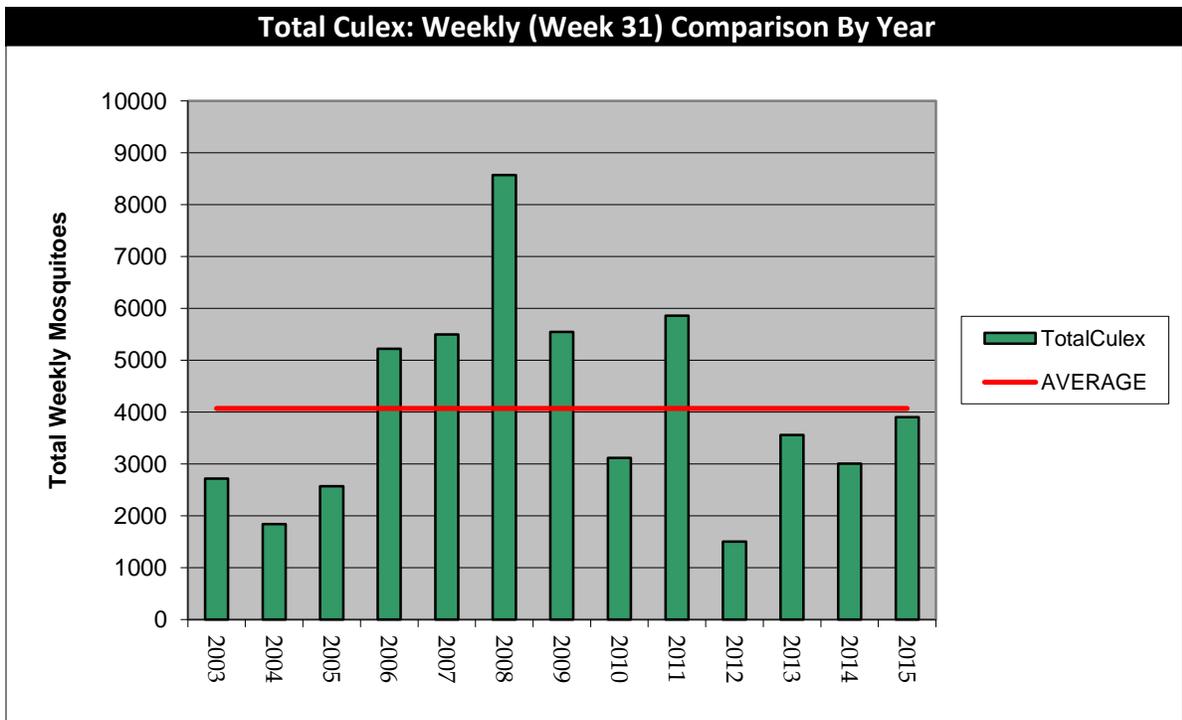
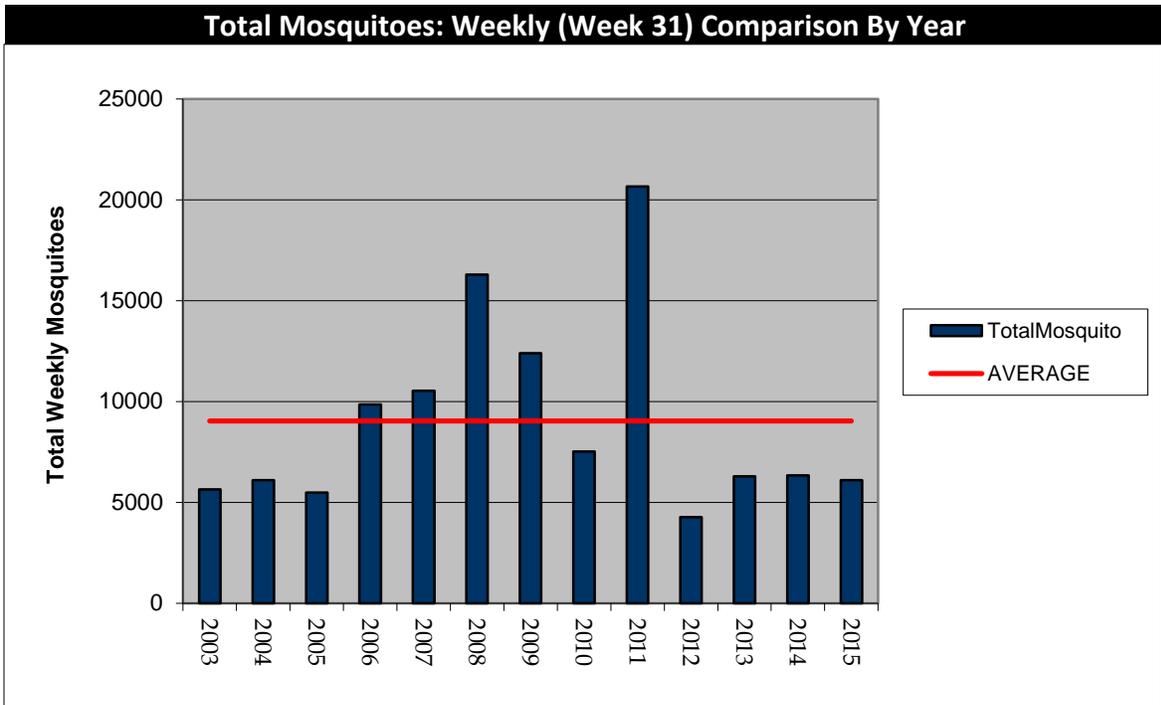
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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	3	0
<b>United States</b>	30	50	3

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	Pending	0.00	0.18
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 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

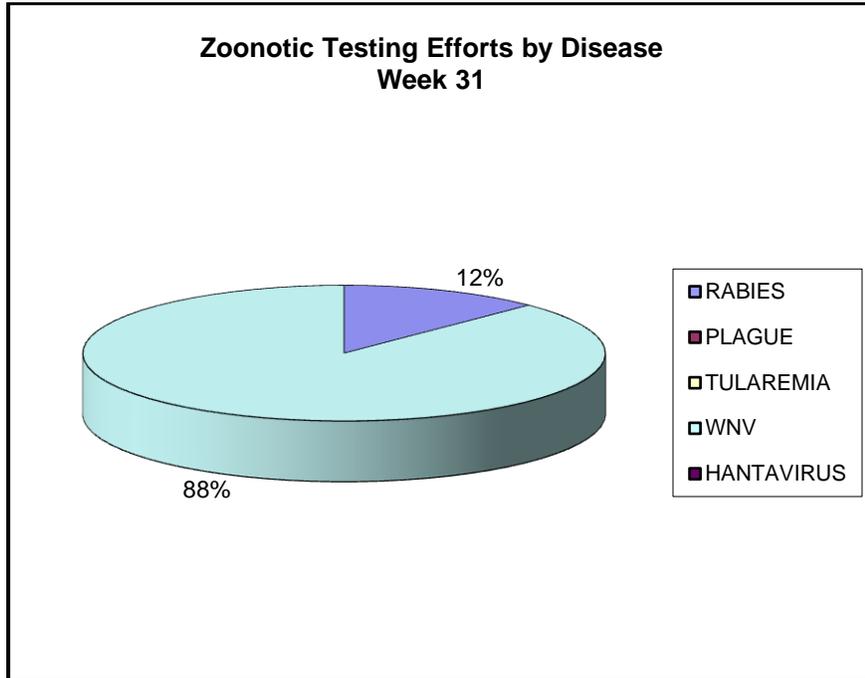
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32						0						0
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	74	4	5	106	0	189	7	1	1	5	0	14

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	41	0	0	0
Skunk	9	0	0	0
Raccoon	18	0	0	0
Squirrel	0	1	1	0
Cat	2	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>74</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	1	0	0	0
Skunk	6	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
Other	0	1	1	0
<b>TOTALS</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report August 9 - August 15, 2015 (Week 32)

### Executive Summary

- CDPHE reports no new WNV human infection cases.
- Boulder County reports 3 new tularemia cases; 11 total to date.
- WNV Sentinel Zones 1 ,2 & 3 test results are pending for this week.
- Total mosquito counts and *Culex* counts are below average for the week.
- 5 bats and 1 skunk were submitted for rabies. One bat tested positive, the skunk negative.
- No specimens were submitted for tularemia, plague and hantavirus.

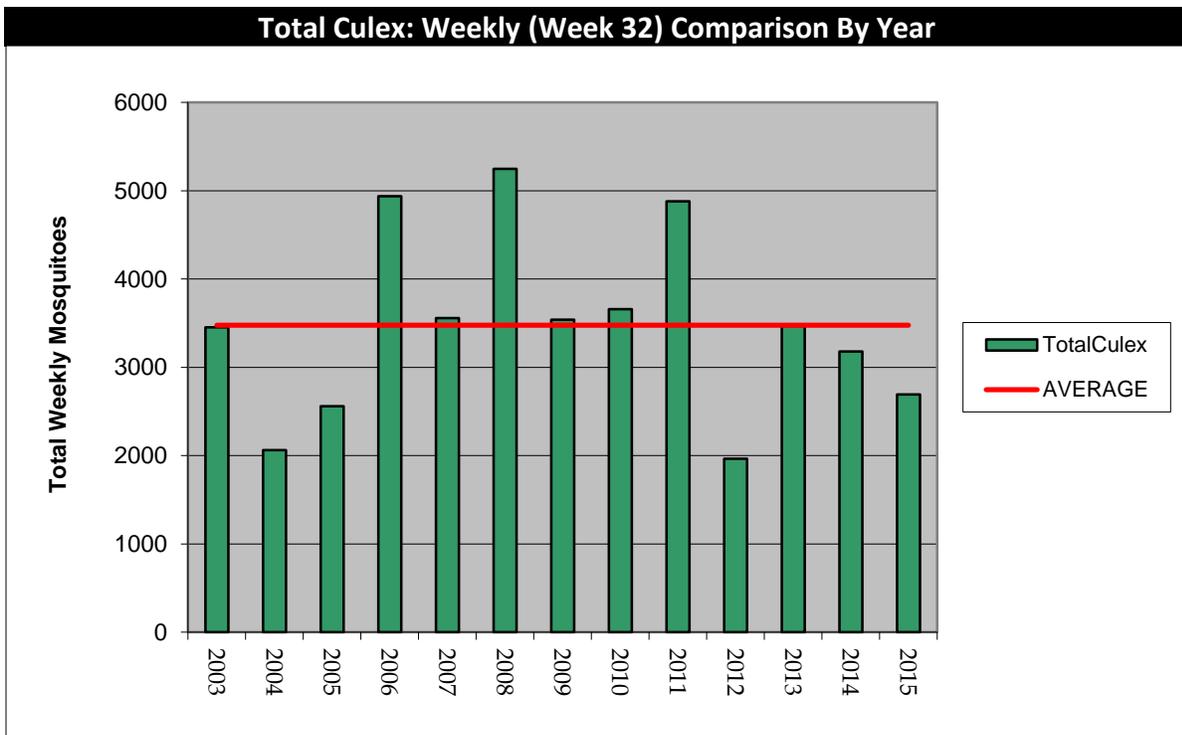
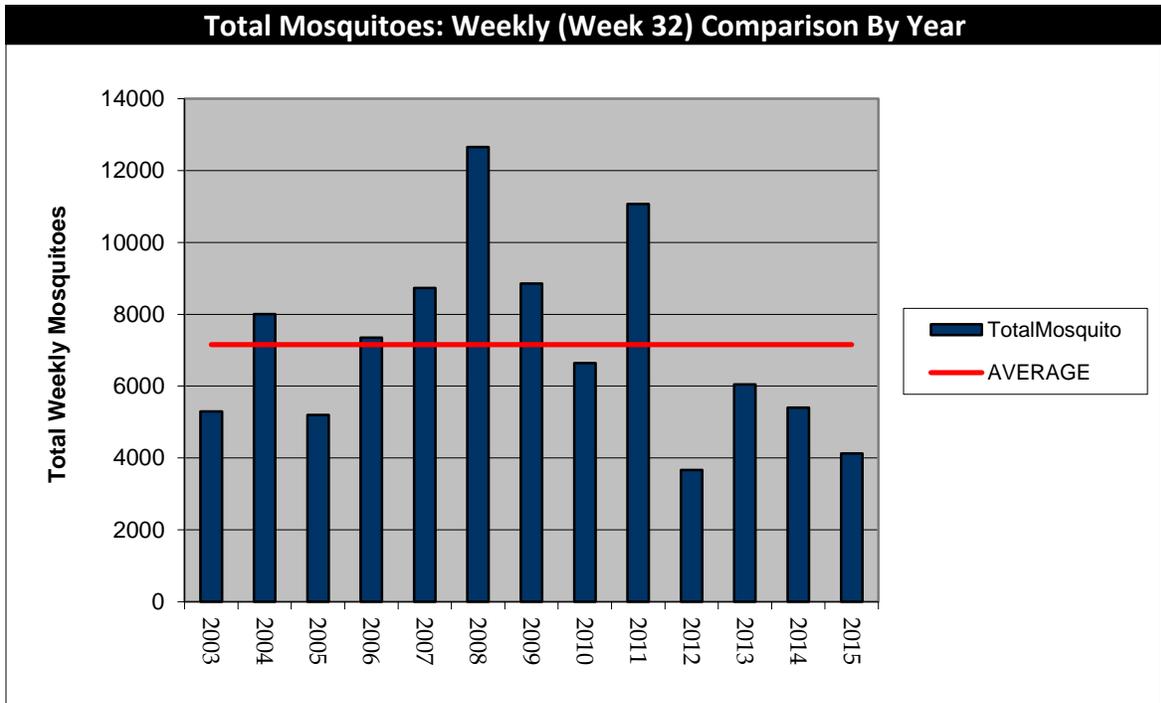
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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>	2	3	0
<b>United States</b>	59	82	3

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	-----	-----	-----
Week 22	-----	-----	-----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	Pending	Pending	Pending
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 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

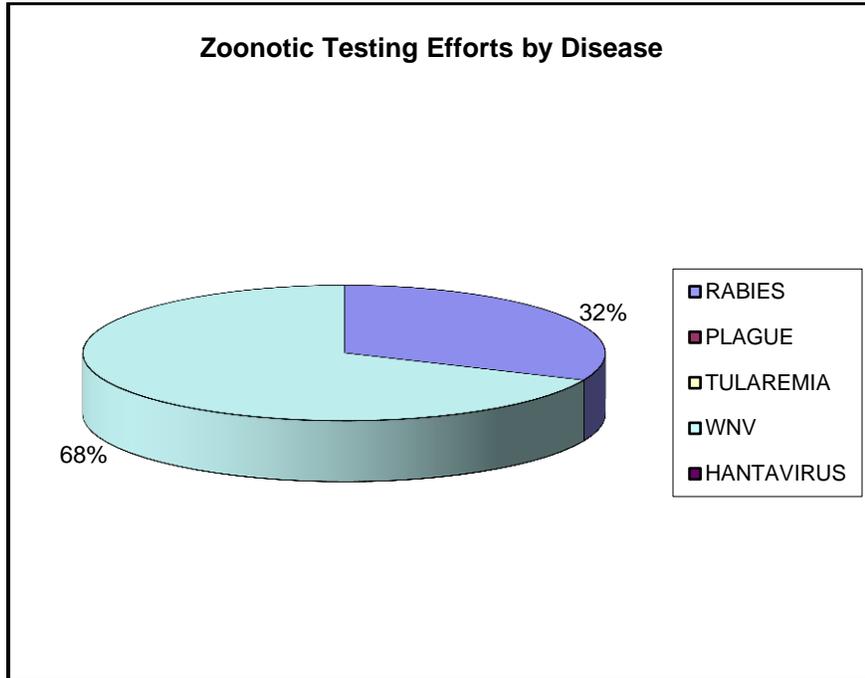
SUBMITTED VECTORS							POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	0	0	1
Wk33						0						0
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	80	4	5	119	0	208	8	1	1	5	0	15

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	46	0	0	0
Skunk	10	0	0	0
Raccoon	18	0	0	0
Squirrel	0	1	1	0
Cat	2	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>80</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	2	0	0	0
Skunk	6	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
Other	0	1	1	0
<b>TOTALS</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report August 16 - August 22, 2015 (Week 33)

### Executive Summary

- CDPHE reports three new WNV human infection cases.
- Boulder County reports one new tularemia case; 12 total to date.
- WNV Sentinel Zone 2 tested positive last week and this week. Zone 1 is pending.
- Total mosquito counts and *Culex* counts are below average for the week.
- Three bats were submitted for rabies all testing negative.
- No specimens were submitted for tularemia, plague and hantavirus.

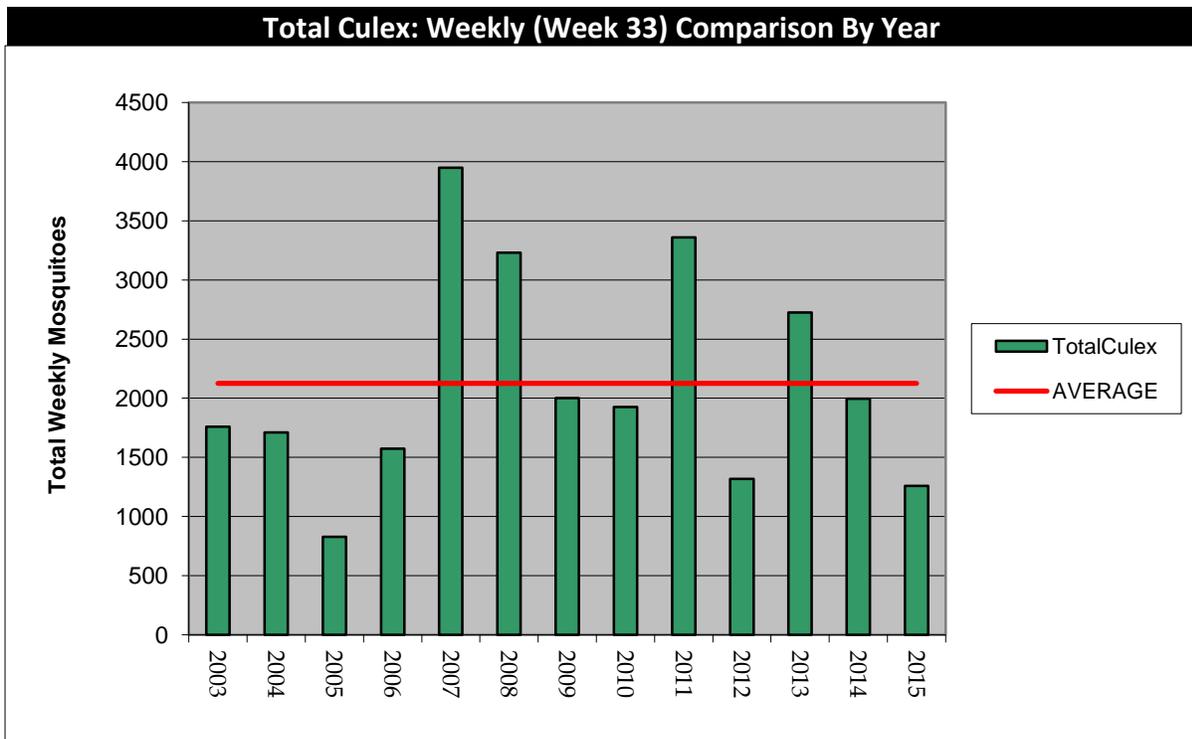
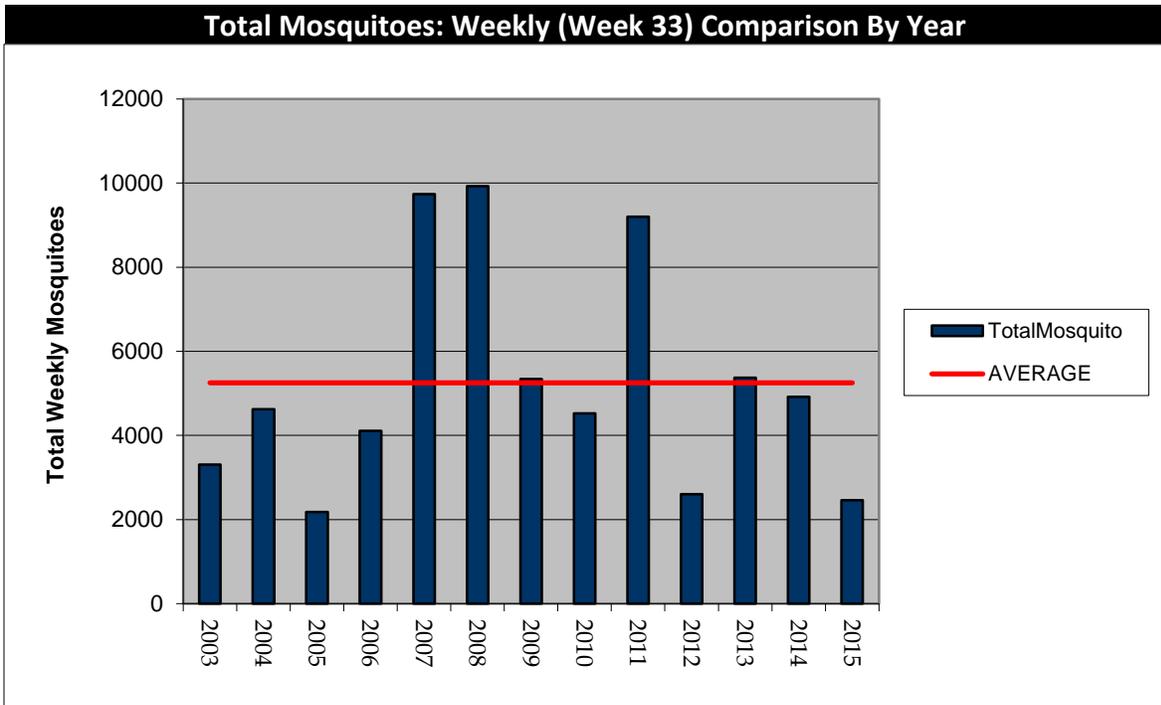
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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>	3	5	0
<b>United States</b>	84	126	4

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

# 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			
Season Week	ZONE 1 Vector Index	ZONE 2 Vector Index	ZONE 3 Vector Index
Week 21	-----	-----	-----
Week 22	-----	-----	-----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	0.00	0.72	0.00
Week 33	Pending	0.20	0.00
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 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

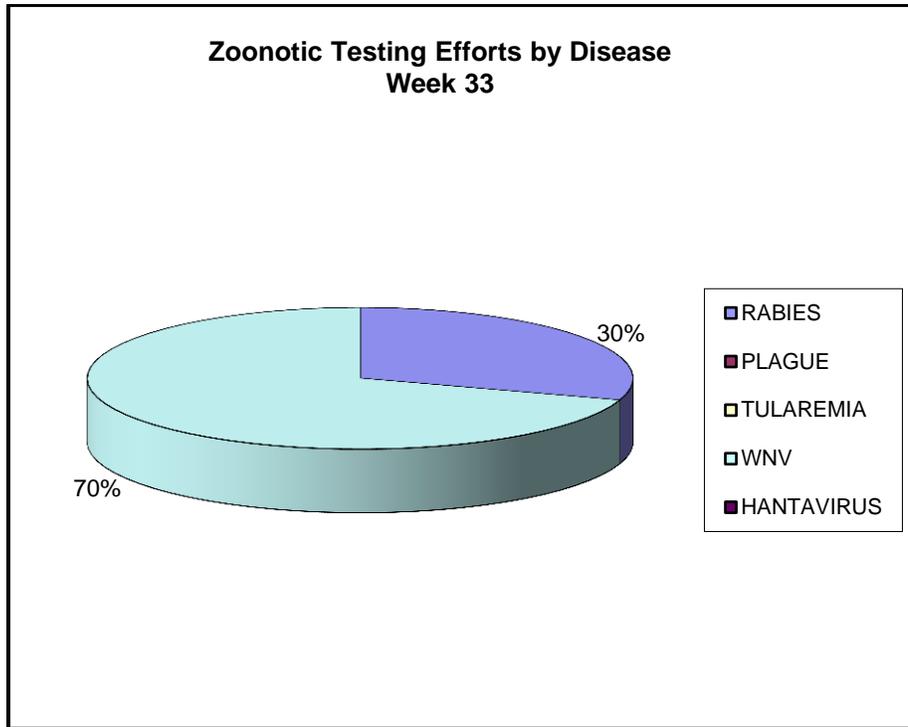
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	3	0	4
Wk33	3	0	0	7	0	10	0	0	0	1	0	1
Wk34						0						0
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	83	4	5	126	0	218	8	1	1	9	0	19

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	49	0	0	0
Skunk	10	0	0	0
Raccoon	18	0	0	0
Squirrel	0	1	1	0
Cat	2	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>83</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	2	0	0	0
Skunk	6	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
Other	0	1	1	0
<b>TOTALS</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report August 23 - August 29, 2015 (Week 34)

### Executive Summary

- CDPHE reports nine additional WNV human infections; 17 total to date.
- Boulder County reports the first 3 WNV human infections, one each in Superior, Longmont and the Gunbarrel area. An additional case undergoing testing.
- No new tularemia cases.
- WNV Sentinel Zone 2 tested positive this week. Zone 1 is pending.
- Total mosquito counts and *Culex* counts are below average for the week.
- Three bats were submitted for rabies all testing negative. One pending bat from last week tested positive.
- No specimens were submitted for tularemia, plague and hantavirus.

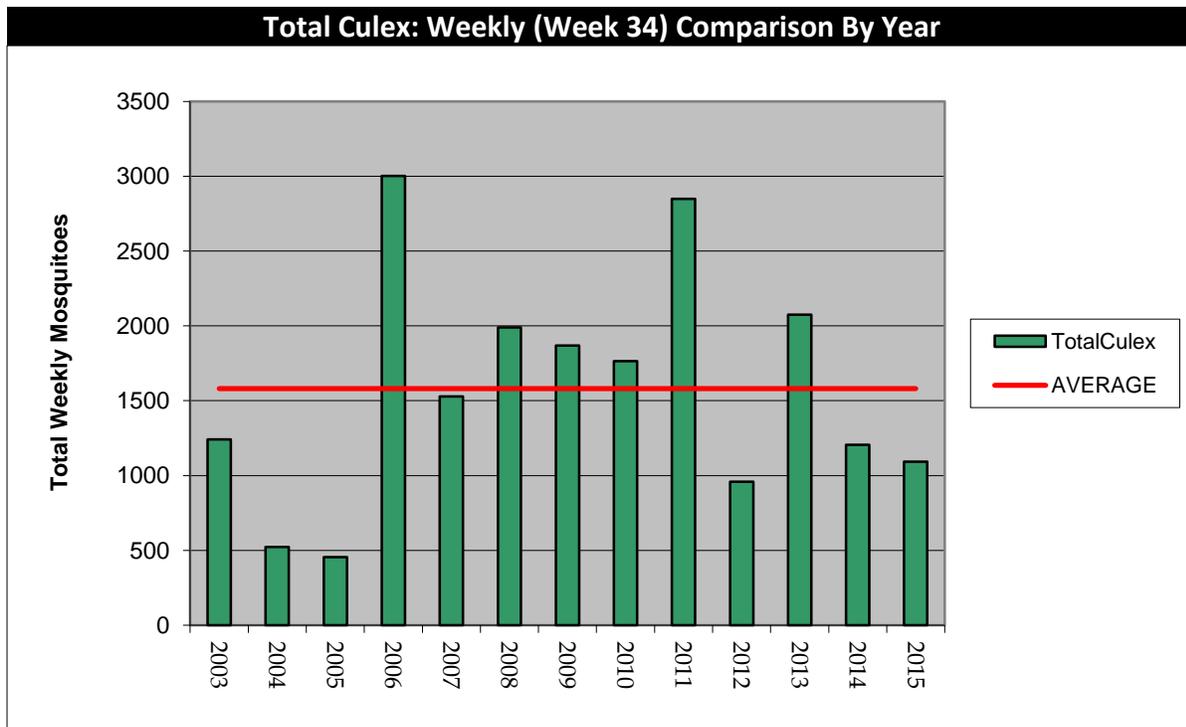
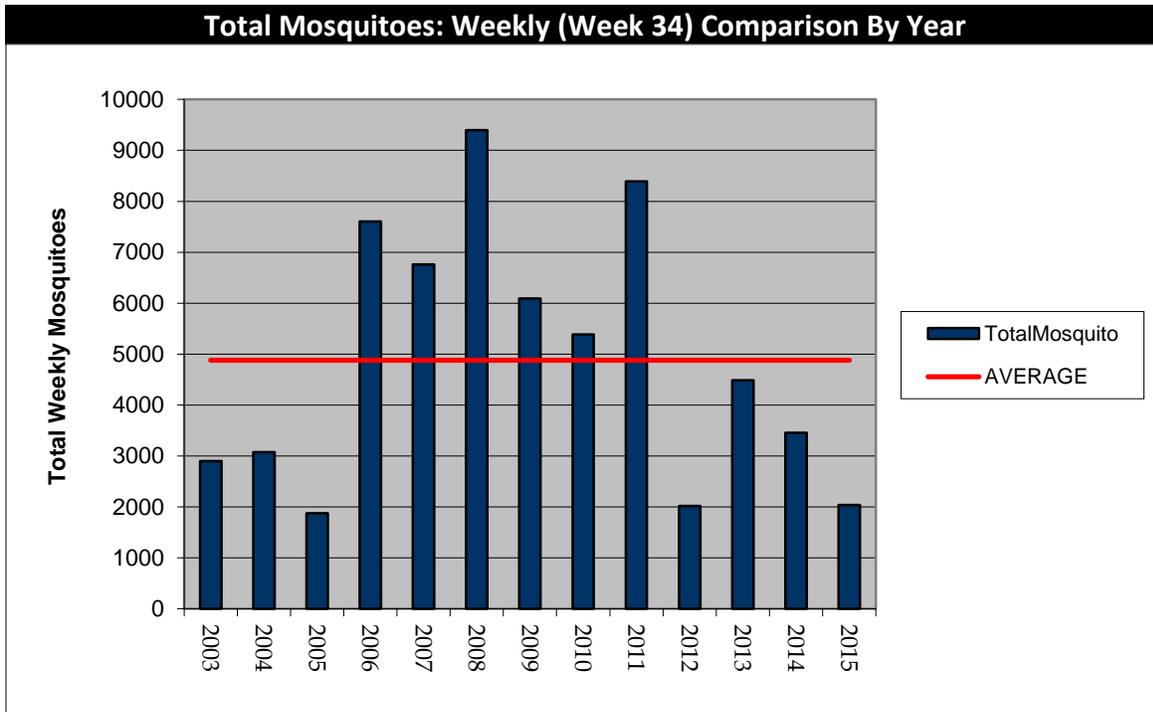
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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>	3	0	0
<b>Colorado</b>	10	7	0
<b>United States</b>	130	173	7

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

# 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			
Season Week	ZONE 1 Vector Index	ZONE 2 Vector Index	ZONE 3 Vector Index
Week 21	-----	-----	-----
Week 22	-----	-----	-----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	0.00	0.72	0.00
Week 33	0.00	0.20	0.00
Week 34	Pending	0.18	0.00
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

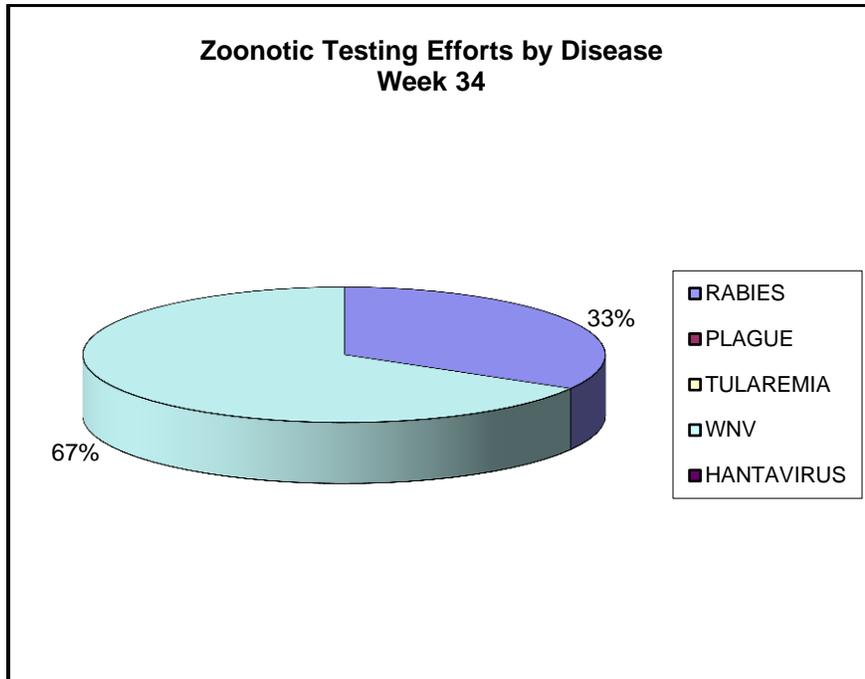
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	3	0	4
Wk33	5	0	0	7	0	12	1	0	0	1	0	2
Wk34	3	0	0	6	0	9	0	0	0	1	0	1
Wk35						0						0
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	88	4	5	132	0	229	9	1	1	10	0	21

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	54	0	0	0
Skunk	10	0	0	0
Raccoon	18	0	0	0
Squirrel	0	1	1	0
Cat	2	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>88</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	3	0	0	0
Skunk	6	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
Other	0	1	1	0
<b>TOTALS</b>	<b>9</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report August 30 – September 5, 2015 (Week 35)

### Executive Summary

- CDC reports WNV human infections for Colorado at 29 and no deaths.
- Boulder County reports one new WNV human infection for a total of four to date.
- Boulder County reports one new probable tularemia case.
- WNV Mosquito Sentinel Zone trapping and testing has concluded for the season.
- Mosquito larval surveillance and treatment is ongoing.
- Three bats, one skunk and one raccoon were submitted for rabies. The skunk and one bat tested positive. One bat was untestable, all others negative.
- No specimens were submitted for tularemia, plague and hantavirus.

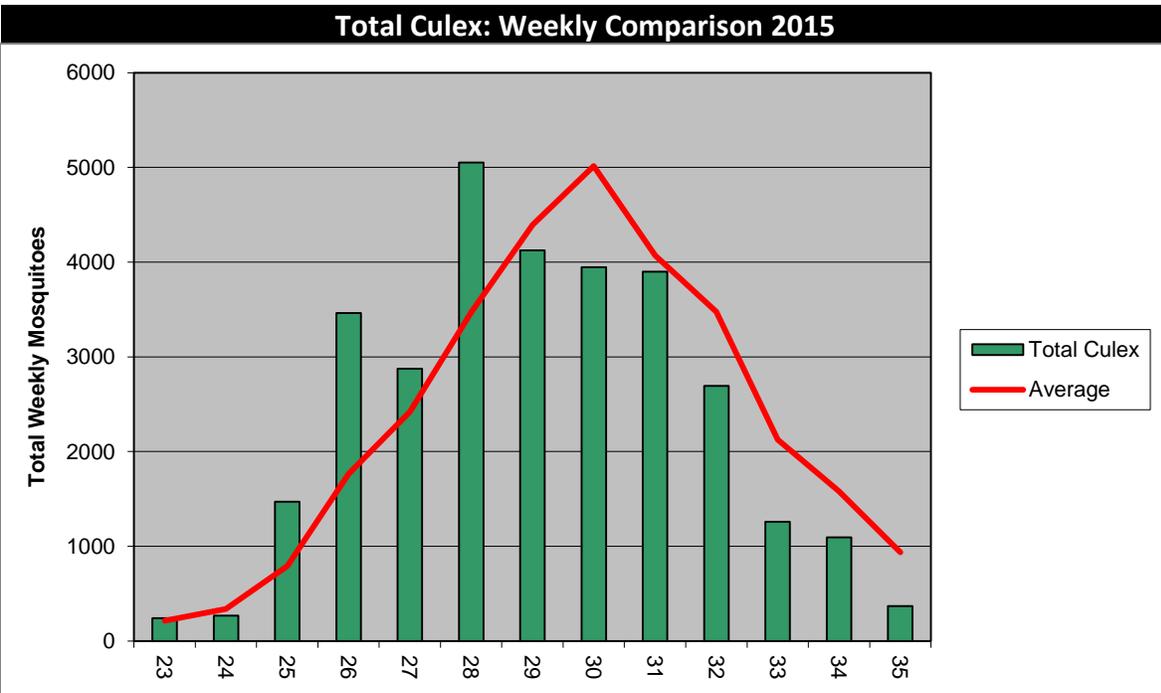
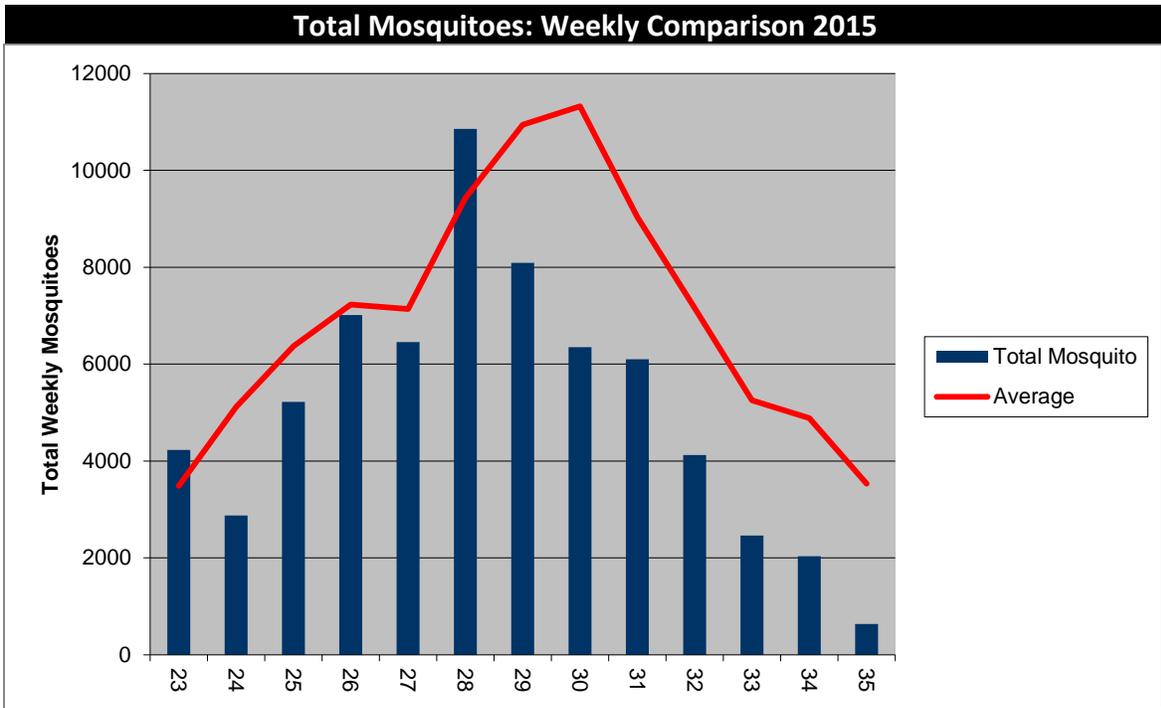
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### West Nile Virus (WNV) Activity

SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY			
Location	Non-Neuroinvasive Disease Cases	Neuroinvasive Disease Cases	Deaths
Boulder County	4	0	0
Colorado	16	13	0
United States	189	226	10

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	-----	-----	-----
Week 22	-----	-----	-----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	0.00	0.72	0.00
Week 33	0.00	0.20	0.00
Week 34	0.00	0.18	0.00
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

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- ‘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

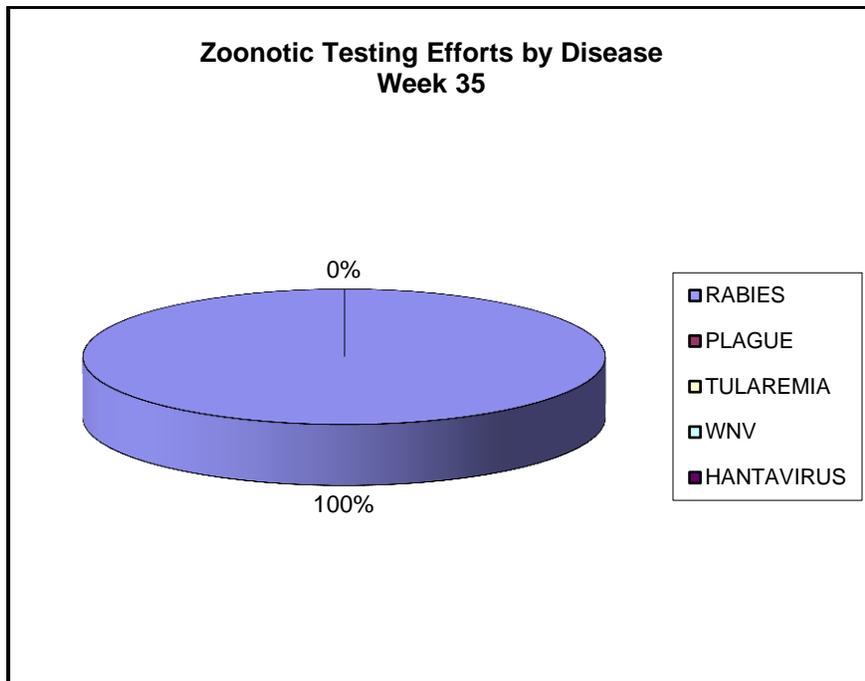
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	3	0	4
Wk33	5	0	0	7	0	12	1	0	0	1	0	2
Wk34	4	0	0	6	0	10	1	0	0	1	0	2
Wk35	5*	0	0	0	0	5	2	0	0	0	0	2
Wk36						0						0
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	94	4	5	132	0	235	12	1	1	10	0	24

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	58	0	0	0
Skunk	11	0	0	0
Raccoon	19	0	0	0
Squirrel	0	1	1	0
Cat	2	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>94</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	5	0	0	0
Skunk	7	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
Other	0	1	1	0
<b>TOTALS</b>	<b>12</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report September 6 – September 12, 2015 (Week 36)

### Executive Summary

- Boulder County reports two new WNV human infections for a total of six to date.
- CDC reports 29 total WNV human cases and no deaths for Colorado.
- Boulder County reports no new tularemia cases.
- WNV Mosquito Sentinel Zone trapping and testing has concluded for the season.
- Mosquito larval surveillance and treatment is ongoing.
- Two bats were submitted for rabies testing with one testing positive. Results are pending for the other.
- No specimens were submitted for tularemia, plague and hantavirus.

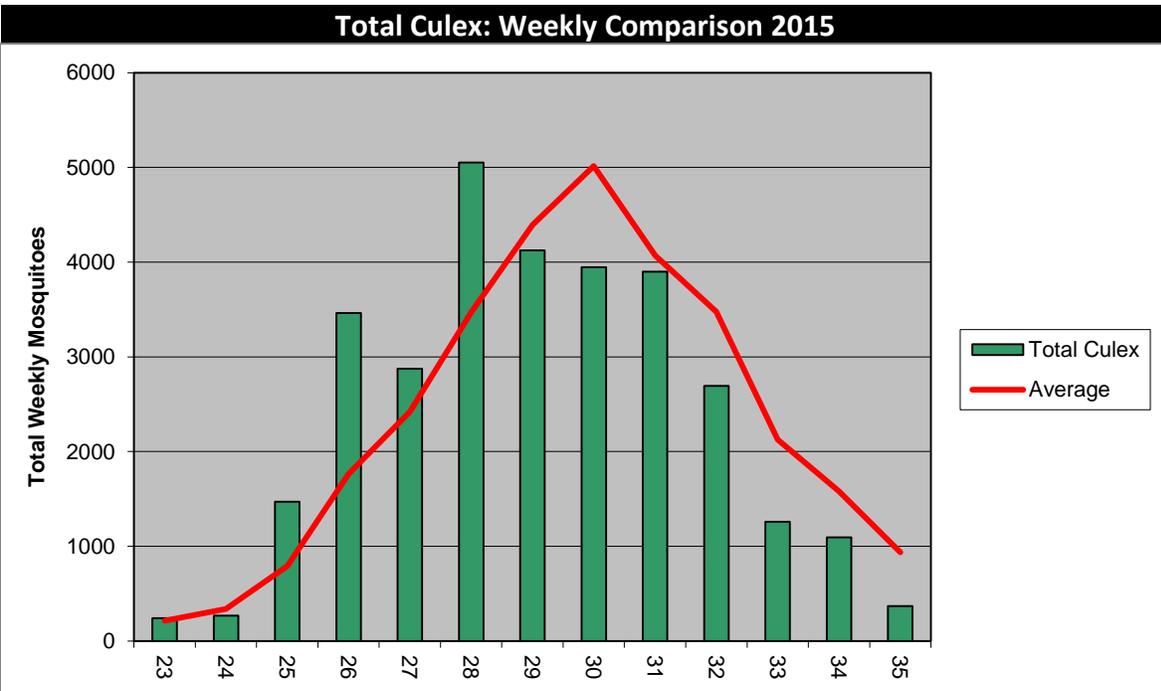
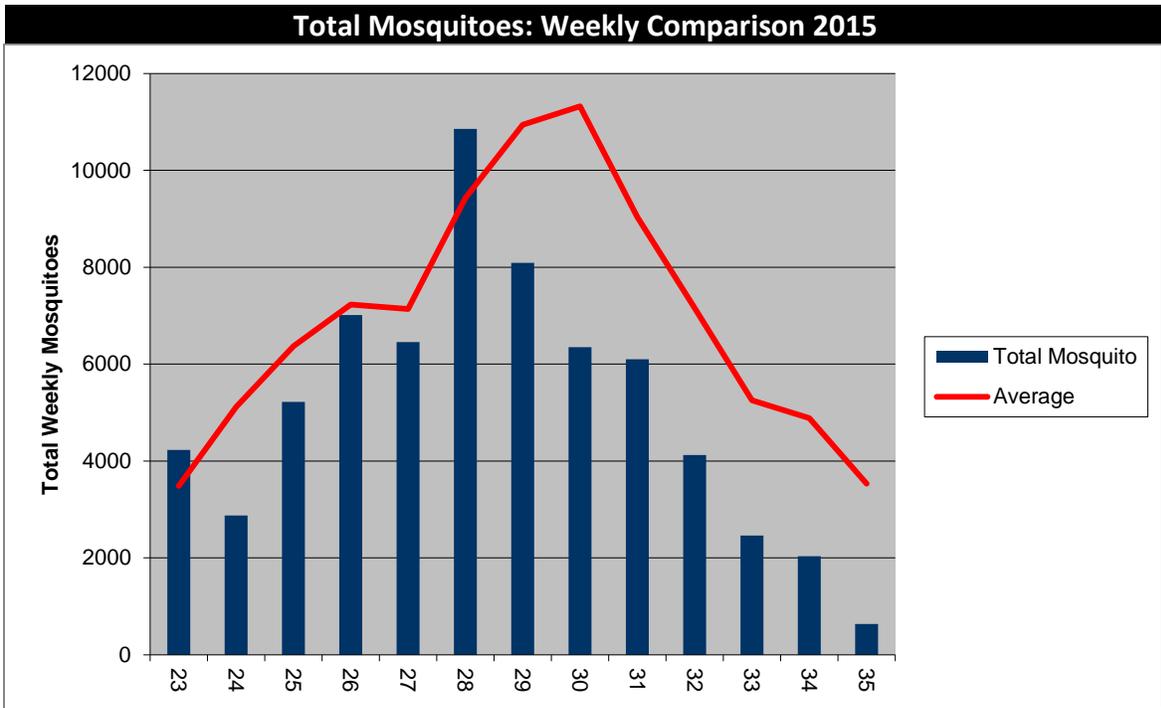
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### West Nile Virus (WNV) Activity

SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY			
Location	Non-Neuroinvasive Disease Cases	Neuroinvasive Disease Cases	Deaths
<b>Boulder County</b>	5	1	0
<b>Colorado</b>	16	13	0
<b>United States</b>	221	272	15

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	0.00	0.72	0.00
Week 33	0.00	0.20	0.00
Week 34	0.00	0.18	0.00
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

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- ‘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

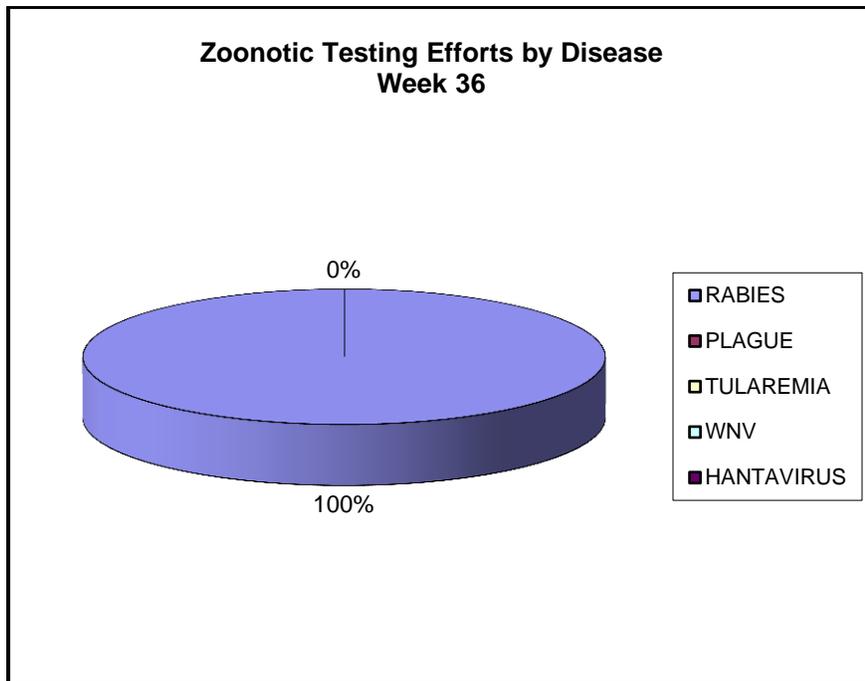
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	3	0	4
Wk33	5	0	0	7	0	12	1	0	0	1	0	2
Wk34	4	0	0	6	0	10	1	0	0	1	0	2
Wk35	5*	0	0	0	0	5	2	0	0	0	0	2
Wk36	2	0	0	0	0	2	1	0	0	0	0	1
Wk37						0						0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	96	4	5	132	0	237	13	1	1	10	0	25

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	60	0	0	0
Skunk	11	0	0	0
Raccoon	19	0	0	0
Squirrel	0	1	1	0
Cat	2	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>96</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	6	0	0	0
Skunk	7	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
Other	0	1	1	0
<b>TOTALS</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report September 13 – September 19, 2015 (Week 37)

### Executive Summary

- Boulder County reports one new WNV human infections for a total of seven to date.
- CDPHE reports 57 total WNV cases. The first death has been reported from Pueblo County.
- Boulder County reports no new tularemia cases.
- WNV Mosquito Sentinel Zone trapping and testing has concluded for the season.
- Mosquito larval surveillance and treatment is ongoing.
- One cat was submitted for rabies testing negative.
- No specimens were submitted for tularemia, plague and hantavirus.

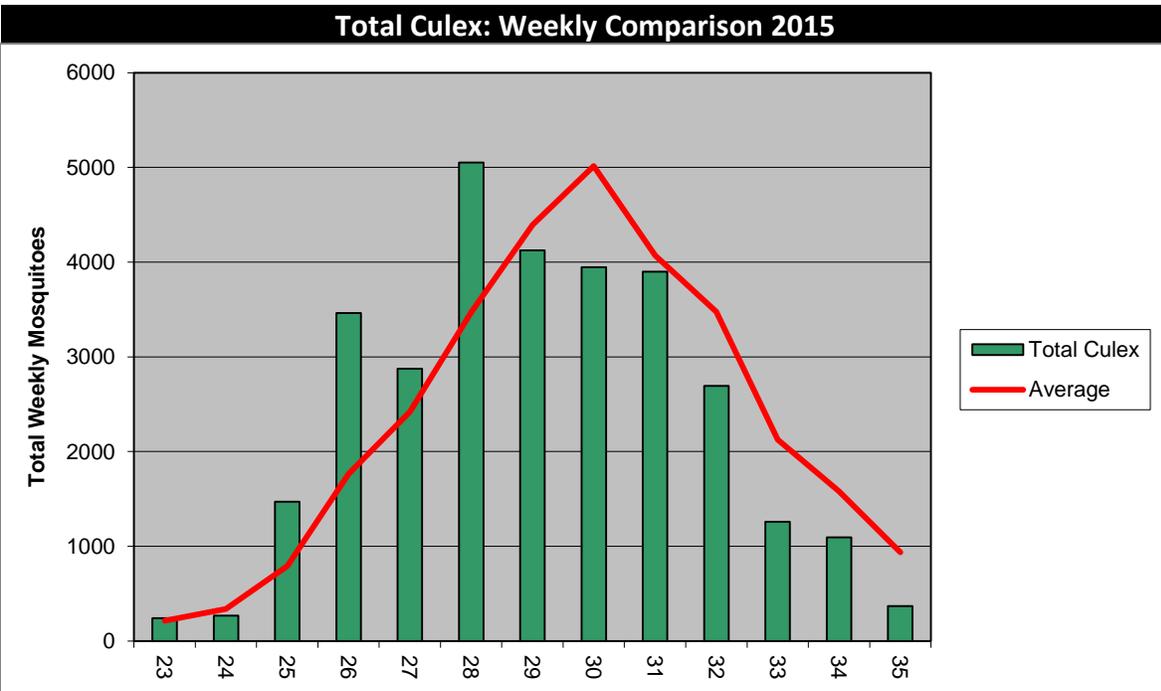
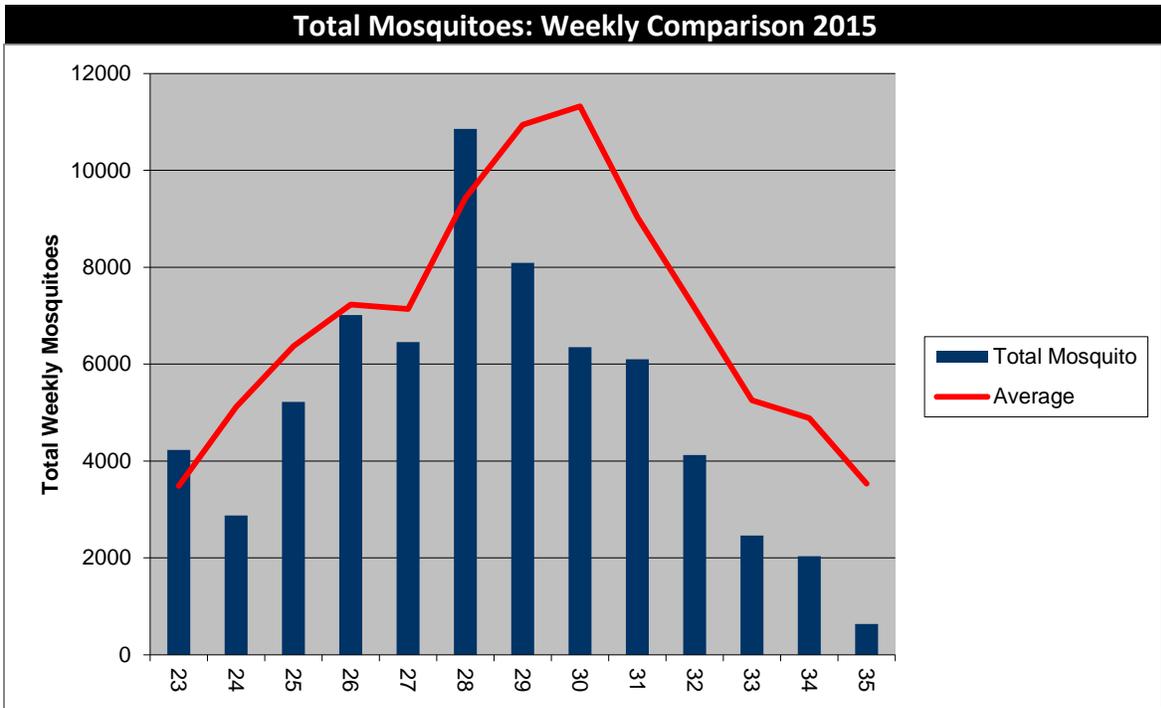
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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>	5	2	0
<b>Colorado</b>	25	32	1
<b>United States</b>	286	422	29

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	0.00	0.72	0.00
Week 33	0.00	0.20	0.00
Week 34	0.00	0.18	0.00
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

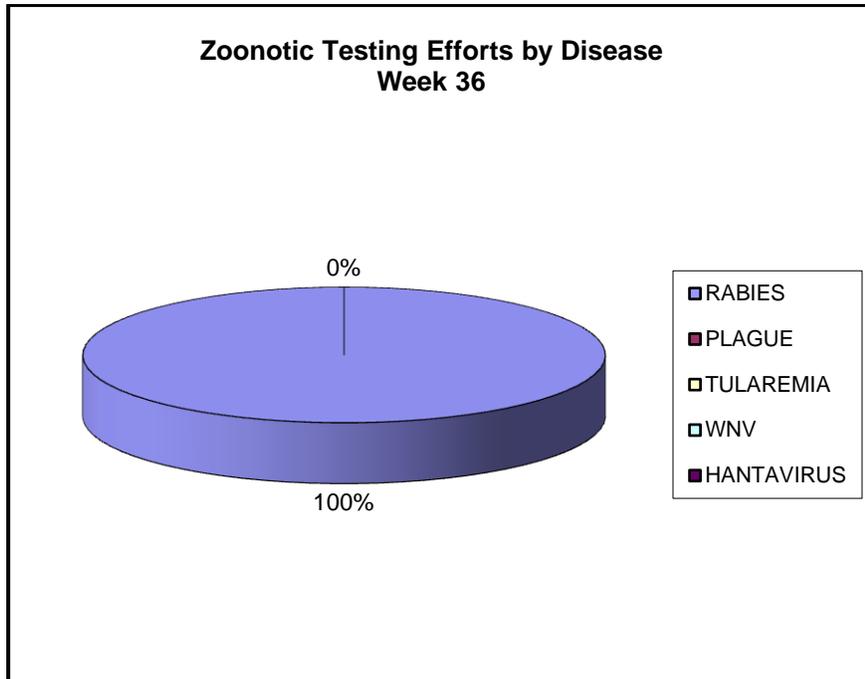
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	3	0	4
Wk33	5	0	0	7	0	12	1	0	0	1	0	2
Wk34	4	0	0	6	0	10	1	0	0	1	0	2
Wk35	5*	0	0	0	0	5	2	0	0	0	0	2
Wk36	2	0	0	0	0	2	1	0	0	0	0	1
Wk37	1	0	0	0	0	1	0	0	0	0	0	0
Wk38						0						0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	97	4	5	132	0	237	13	1	1	10	0	25

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	60	0	0	0
Skunk	11	0	0	0
Raccoon	19	0	0	0
Squirrel	0	1	1	0
Cat	3	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	3	0
<b>TOTALS</b>	<b>97</b>	<b>4</b>	<b>5</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	6	0	0	0
Skunk	7	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
Other	0	1	1	0
<b>TOTALS</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report September 20 – September 26, 2015 (Week 38)

### Executive Summary

- Boulder County reports three new WNV human infections for a total of 10 to date.
- CDPHE reports 61 total WNV cases. A second death has been reported from Crowley County.
- Boulder County reports no new tularemia cases.
- WNV Mosquito Sentinel Zone trapping and testing has concluded for the season.
- Mosquito larval surveillance and treatment is ongoing.
- One bat and one raccoon were submitted for rabies, both testing negative.
- One rabbit was submitted last week for tularemia testing negative.
- No specimens were submitted for tularemia, plague and hantavirus this week.

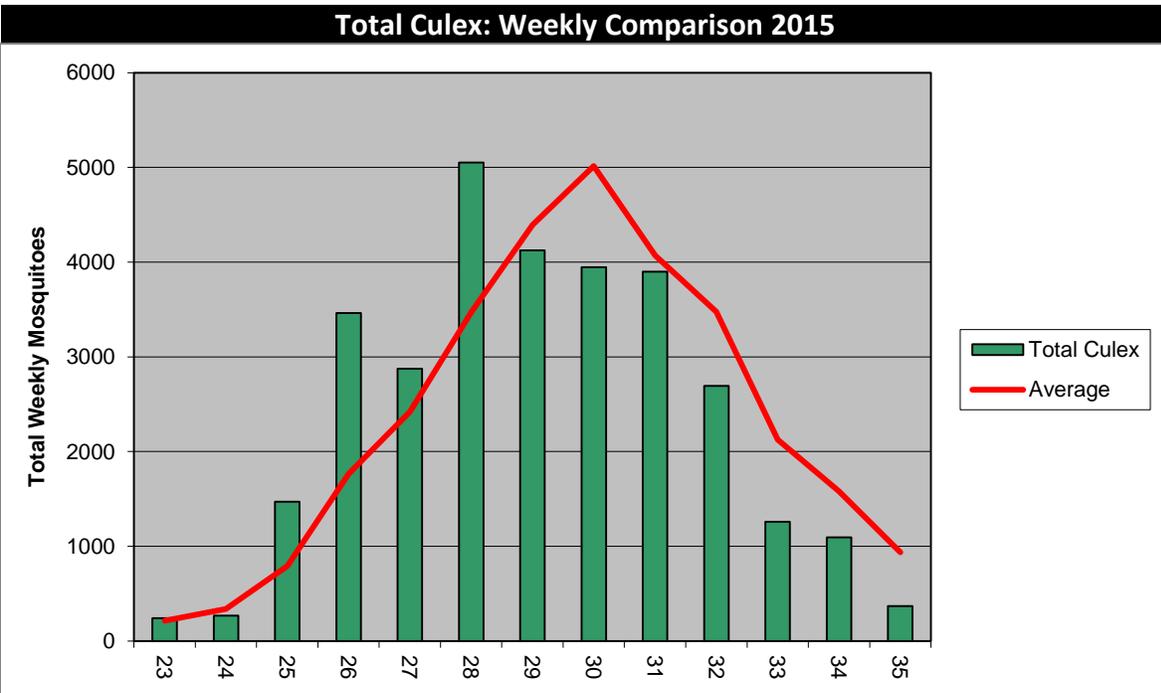
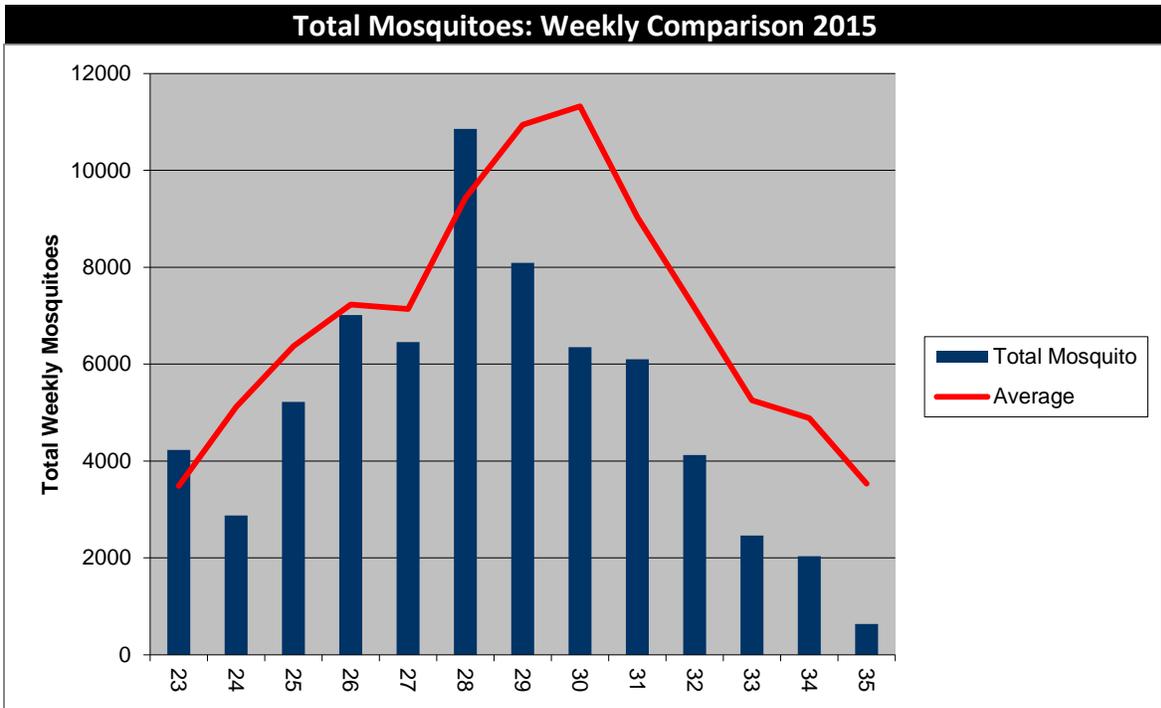
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### West Nile Virus (WNV) Activity

SEASON-TO-DATE HUMAN WEST NILE VIRUS (WNV) ACTIVITY			
Location	Non-Neuroinvasive Disease Cases	Neuroinvasive Disease Cases	Deaths
Boulder County	7	3	0
Colorado	30	40	2
United States	339	538	43

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	0.00	0.72	0.00
Week 33	0.00	0.20	0.00
Week 34	0.00	0.18	0.00
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

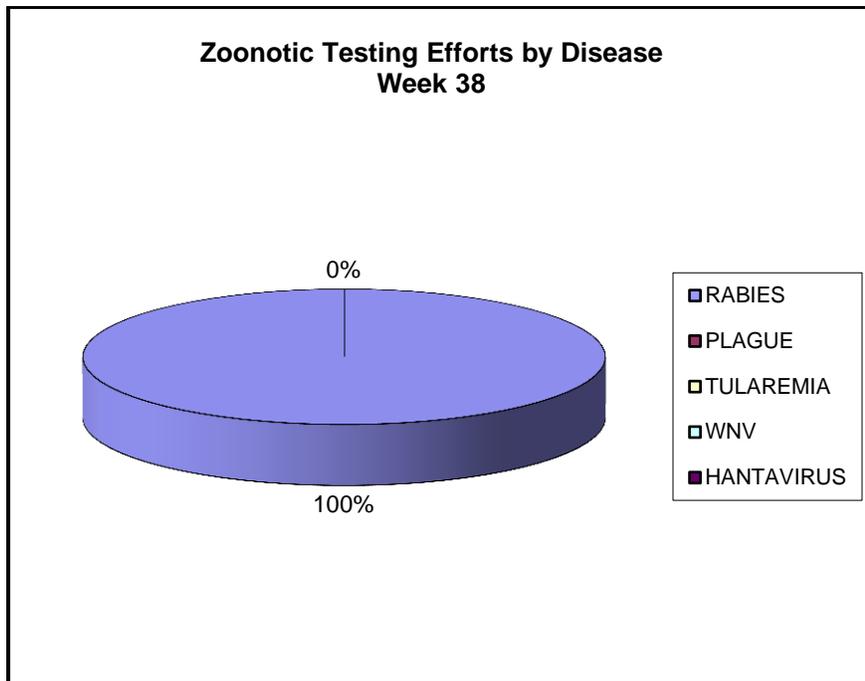
	SUBMITTED VECTORS						POSITIVE VECTORS					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	3	0	4
Wk33	5	0	0	7	0	12	1	0	0	1	0	2
Wk34	4	0	0	6	0	10	1	0	0	1	0	2
Wk35	5*	0	0	0	0	5	2	0	0	0	0	2
Wk36	2	0	0	0	0	2	1	0	0	0	0	1
Wk37	3	0	1	0	0	4	0	0	0	0	0	0
Wk38	2	0	0	0	0	2	0	0	0	0	0	0
Wk39						0						0
Wk40						0						0
<b>TOTAL TO DATE</b>	101	4	6	132	0	243	13	1	1	10	0	25

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	62	0	0	0
Skunk	11	0	0	0
Raccoon	21	0	0	0
Squirrel	0	1	1	0
Cat	3	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	4	0
<b>TOTALS</b>	<b>101</b>	<b>4</b>	<b>6</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	6	0	0	0
Skunk	7	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
Other	0	1	1	0
<b>TOTALS</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease





## Zoonotic Disease Report September 27 – October 3, 2015 (Week 39)

### Executive Summary

- Boulder County reports one new WNV human infection for a total of 11 to date with the most recent onset date of illness on August 31<sup>st</sup>.
- CDPHE reports 70 total WNV cases with two deaths from Pueblo and Crowley County.
- Colorado currently ranks third nationally in WNV cases following California (201 cases, 9 deaths) and Texas (150 cases, 7 deaths).
- All mosquito control activities have concluded for the season.
- Boulder County reports no new human tularemia cases with 13 total reported cases this season. CDPHE reports a total of 40 cases statewide doubling the previous record of 20 in 1982.
- Two bats and one raccoon were submitted for rabies, all testing negative.
- No specimens were submitted for tularemia, plague and hantavirus this week.

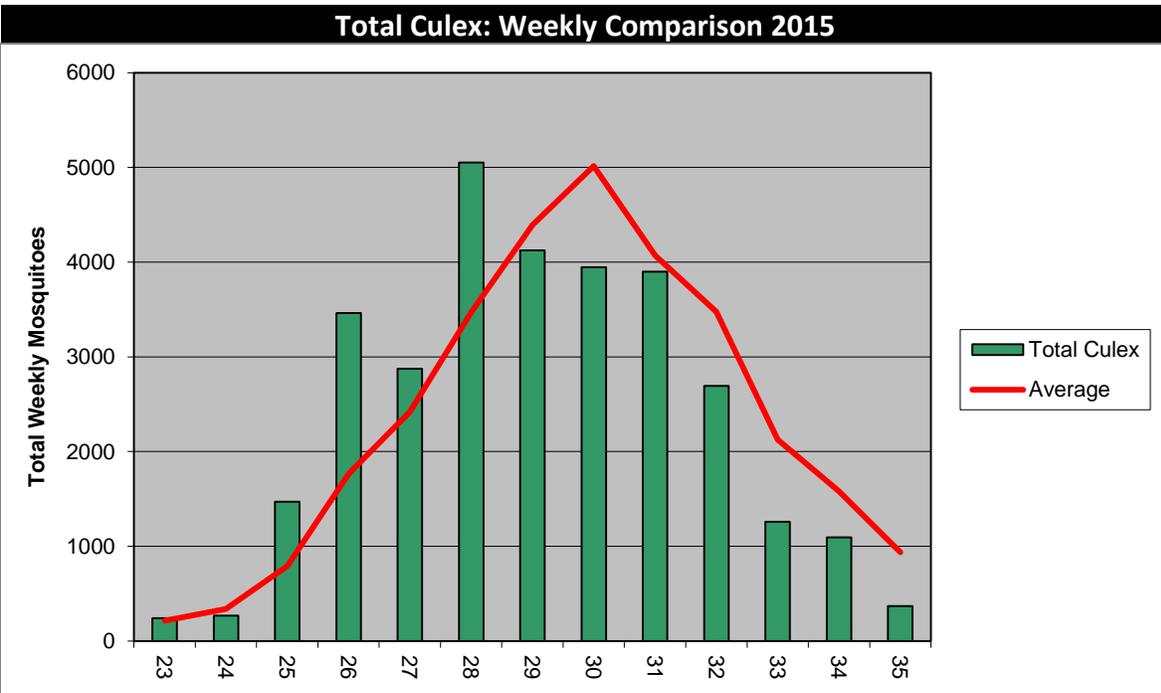
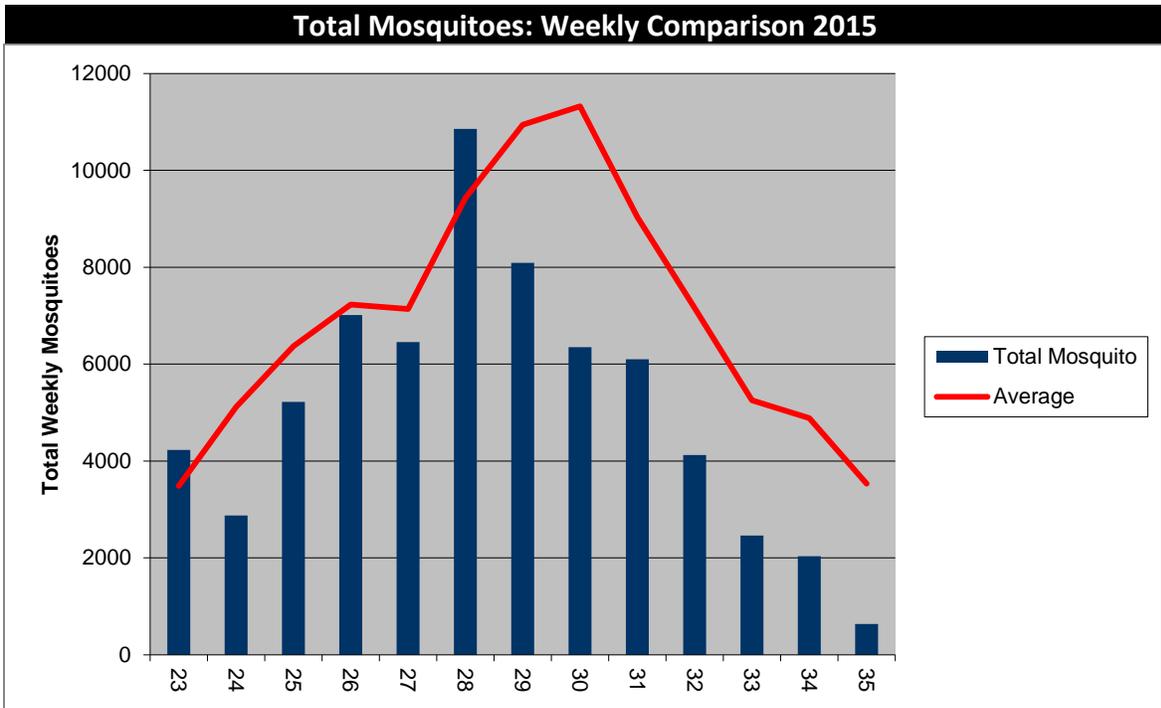
Information about symptoms, transmission, and prevention is always available at [BoulderCountyVector.org](http://BoulderCountyVector.org)

### 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>	8	3	0
<b>Colorado</b>	30	40	2
<b>United States</b>	390	638	54

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

# 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			
Season Week	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 21	----	----	----
Week 22	----	----	----
Week 23	0.00	0.00	0.00
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	0.14	0.00	0.00
Week 29	0.00	0.00	0.00
Week 30	0.20	0.20	0.18
Week 31	0.00	0.00	0.18
Week 32	0.00	0.72	0.00
Week 33	0.00	0.20	0.00
Week 34	0.00	0.18	0.00
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					
	RABIES	PLAGUE	TULAREMIA	WNV POOLS	HANTA VIRUS	TOTAL	RABIES+	PLAGUE+	TULAREMIA+	WNV POOLS+	HANTA VIRUS+	TOTAL
Wk 1-20	16	1	0	0	0	17	5	0	0	0	0	5
Wk21	3	0	0	0	0	3	0	0	0	0	0	0
Wk22	5	1	1	0	0	7	0	0	1	0	0	1
Wk23	4	0	0	5	0	9	0	0	0	0	0	0
Wk24	9*	1	2	5	0	17	0	0	0	0	0	0
Wk25	6*	0	0	7	0	13	0	0	0	0	0	0
Wk26	2	0	0	15	0	17	0	0	0	0	0	0
Wk27	5	0	0	12	0	17	0	0	0	0	0	0
Wk28	5	0	0	16	0	21	0	0	0	1	0	1
Wk29	7	0	0	15	0	22	1	0	0	0	0	1
Wk30	10	1	2	17	0	30	1	1	0	3	0	5
Wk31	2	0	0	14	0	16	0	0	0	1	0	1
Wk32	6	0	0	13	0	19	1	0	0	3	0	4
Wk33	5	0	0	7	0	12	1	0	0	1	0	2
Wk34	4	0	0	6	0	10	1	0	0	1	0	2
Wk35	5*	0	0	0	0	5	2	0	0	0	0	2
Wk36	2	0	0	0	0	2	1	0	0	0	0	1
Wk37	3	0	1	0	0	4	0	0	0	0	0	0
Wk38	3	0	0	0	0	2	0	0	0	0	0	0
Wk39	3	0	0	0	0	0	0	0	0	0	0	0
Wk40						0						0
<b>TOTAL TO DATE</b>	105	4	6	132	0	247	13	1	1	10	0	25

## Submissions and Results by Species

SEASON-TO-DATE DISEASE TESTING BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	65	0	0	0
Skunk	11	0	0	0
Raccoon	22	0	0	0
Squirrel	0	1	1	0
Cat	3	0	1	0
Flea	0	1	0	0
Dog	3	0	0	0
Fox	1	0	0	0
Prairie Dog	0	0	0	0
Other	0	2	4	0
<b>TOTALS</b>	<b>105</b>	<b>4</b>	<b>6</b>	<b>0</b>

SEASON-TO-DATE DISEASE POSITIVES BY SPECIES				
<i>Species</i>	Rabies	Plague	Tularemia	Hanta
Bat	6	0	0	0
Skunk	7	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
Other	0	1	1	0
<b>TOTALS</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>0</b>

## Testing by Disease

