

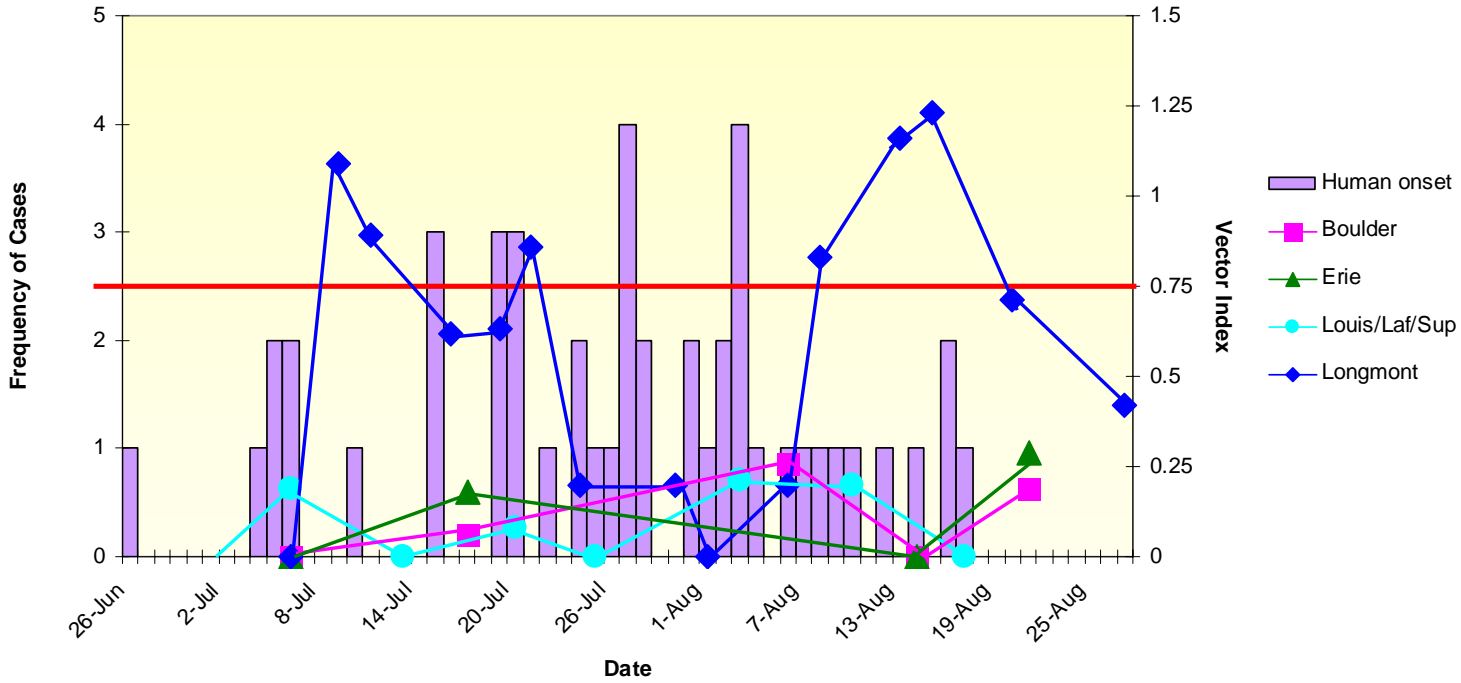
## Zoonotic Surveillance Update Week of August 26<sup>th</sup> through September 1<sup>st</sup> 2007

### Mosquito Surveillance

#### Vector Index (VI) Calculation:

The Vector Index is the average number of infected mosquitoes collected per trap night per defined area. A value of  $\geq 0.75$  indicates a high level of human risk.

**Boulder County Vector Index by Region and WNV Human Case Onset Date**

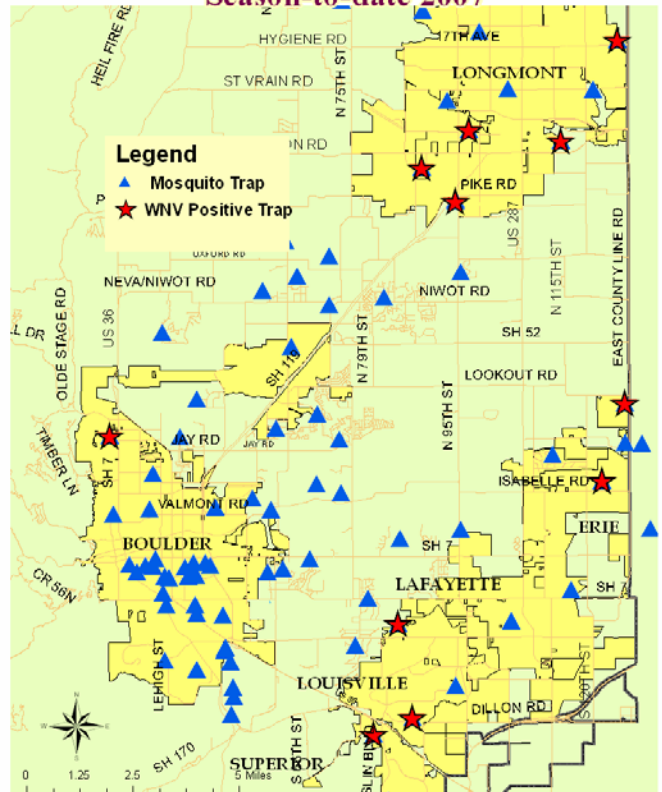


Two *C. tarsalis* pools were positive this week:

1. LM-06 (2)

for a Longmont **VI of 0.42**

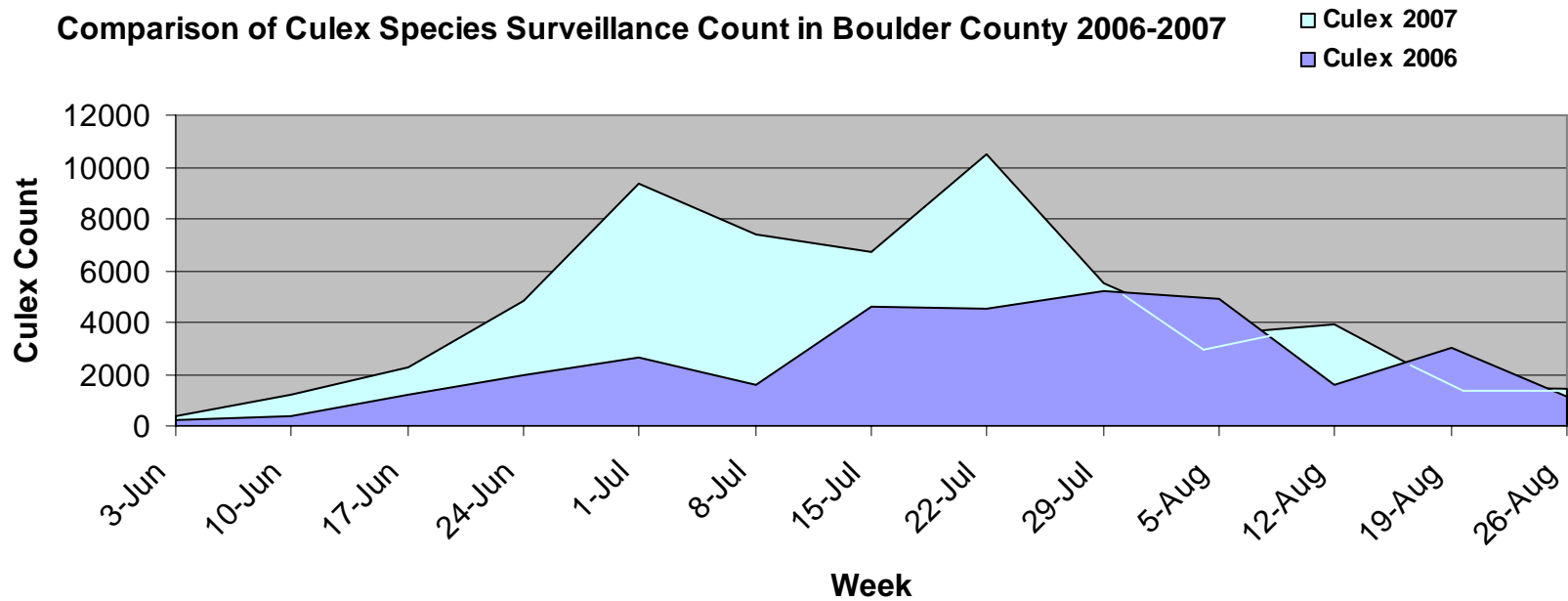
**Boulder County WNV Positive Traps  
Season-to-date 2007**



### Boulder County 2007 Mosquito Trap Counts by Week

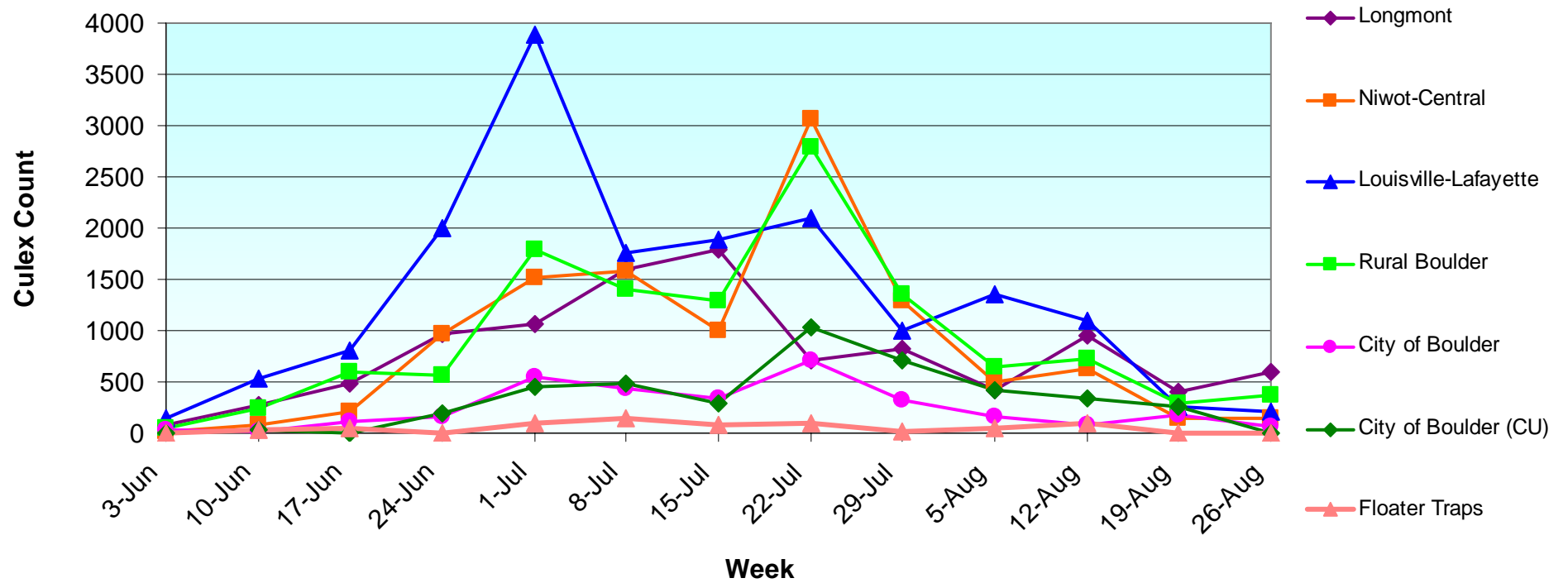
	Grand Totals	3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug
<i>C. pipiens</i>	10801	38	241	210	487	1347	1262	1041	1512	1291	1169	1559	463	181
<i>C. tarsalis</i>	47390	271	989	2036	4362	7968	6117	5592	8952	4172	2352	2383	1002	1194
Other <i>Culex</i>	340	32	2	10	6	30	33	47	14	31	37	7	64	27
<b>Total <i>Culex</i></b>	<b>58531</b>	<b>341</b>	<b>1232</b>	<b>2256</b>	<b>4855</b>	<b>9345</b>	<b>7412</b>	<b>6680</b>	<b>10478</b>	<b>5494</b>	<b>3558</b>	<b>3949</b>	<b>1529</b>	<b>1402</b>
<i>Culiseta</i>	1611	68	125	130	236	215	226	188	83	56	120	59	59	46
<b>Total Mosquito</b>	<b>127132</b>	<b>2717</b>	<b>8556</b>	<b>8111</b>	<b>11868</b>	<b>14622</b>	<b>11271</b>	<b>11227</b>	<b>17150</b>	<b>10526</b>	<b>8728</b>	<b>9734</b>	<b>6760</b>	<b>5862</b>

### Comparison of *Culex* Species Surveillance Count in Boulder County 2006-2007



Note: Weeks are from 2007. Data from 2006 are for similar weeks

## Culex Species Surveillance Count in Boulder County by Region 2007



- **Longmont Area:** Includes traps for Longmont (10 traps).
- **Niwot and Central Area:** Includes traps for Niwot and Lyons (9 traps).
- **Louisville and Lafayette Area:** Includes traps for Louisville, Lafayette, Superior, and Erie (19 traps).
- **Rural Boulder Area:** Includes traps east of Boulder and sentinel traps including rural areas and Gunbarrel (13 traps).
- **City of Boulder:** Includes traps for the city of Boulder (16 traps).
- **City of Boulder (CU):** Includes traps for the city of Boulder within the CU campus (33 traps).
- **Floater traps:** Includes traps with variable locations throughout Boulder County (up to 10 traps).

**COLORADO HUMAN ZONOSSES SURVEILLANCE OF CONFIRMED AND PROBABLE CASES BY COUNTY 2007**

County	Hantavirus		Bubonic Plague		Tularemia		West Nile Virus	
	Cases	*Deaths	Cases	*Deaths	Cases	*Deaths	Cases (**as of today)	*Deaths
Adams							12	
Alamosa	1	1						
Arapahoe							5	
Bent							2	
<b>Boulder</b>							47	1
Broomfield							8	
Cheyenne							2	
Costilla	1	1						
Custer	1	1					1	
Delta							1	
Denver							8	2
Douglas							3	
El Paso							2	
Fremont							5	
Huerfano							1	
Jefferson							11	
La Plata							1	
Larimer							42	
Logan							5	
Mesa							7	
Morgan							2	
Otero							3	
Park	2	1						
Prowers							3	
Pueblo							6	
Washington							2	
Weld	1						35	
Yuma							1	
<b>Grand Totals</b>	<b>6</b>	<b>4</b>					<b>216</b>	<b>3</b>

\* If data available

\*\*CDPHE Human WNV data (updated daily) can be viewed at

[http://www.cdphe.state.co.us/dc/zoonosis/wnv/HUMAN\\_WNV\\_07.HTML](http://www.cdphe.state.co.us/dc/zoonosis/wnv/HUMAN_WNV_07.HTML)

**Boulder County Animal / Arthropod Zoonotic Surveillance**

Species	Week of August 26 <sup>th</sup> to September 1 <sup>st</sup>		Season Summary	
	Tested	Positive (%)	Total Specimens	Total Positive (%)
<b>Bubonic Plague</b>				
Cat			5	
*Flea			14	<b>4 (29%)</b>
Fox				
Dog			1	
Prairie Dog			7	
Squirrel, tree ( <i>Sicrus niger</i> )			12	
Squirrel, 13 lined ( <i>Spermophilus tridecemlineatus</i> )				
Rabbit			2	
<b>Plague Grand Total</b>	<b>0</b>	<b>0 (0%)</b>	<b>41</b>	<b>4 (10%)</b>
<b>Rabies</b>				
Bat, not speciated			14	
Big brown bat ( <i>Eptesicus fuscus</i> )			59	<b>9 (15%)</b>
California bat ( <i>Myotis californicus</i> )				
Hoary bat ( <i>Lasiurus cinereus</i> )			4	<b>2 (50%)</b>
Little brown bat ( <i>M. lucifugus</i> )				
Long-eared myotis ( <i>M. evotis</i> )				
Myotis species			16	<b>1 (6%)</b>
Silver-haired bat ( <i>Lasionycteris noctivagans</i> )			2	
Western small-footed myotis ( <i>M. ciliolabrum</i> )				
Cat			5	
Dog			1	
Raccoon			2	
Skunk			1	
<b>Rabies Grand Total</b>	<b>0</b>	<b>0 (0%)</b>	<b>104</b>	<b>12 (12%)</b>

\* Flea pools tested. One pool could equal 1-234 fleas.

Boulder County Animal / Arthropod Zoonotic Surveillance				
Species	Week of August 26 <sup>th</sup> to September 1 <sup>st</sup>		Season Summary	
	Tested	Positive (%)	Total Specimens	Total Positive (%)
<b>Tularemia</b>				
Cat			5	
Dog			1	
*Flea			14	
Fox				
Prairie Dog			7	
Squirrel, tree ( <i>Sicrus niger</i> )			12	
Squirrel, 13 lined ( <i>Spermophilus tridecemlineatus</i> )				
Rabbit			2	
<b>Tularemia Grand Total</b>	<b>0</b>	<b>0 (0%)</b>	<b>41</b>	<b>0 (0%)</b>
<b>West Nile Virus</b>				
American Crow			4	<b>1 (25%)</b>
Avian Other				
Black-billed Magpie			3	<b>1 (33%)</b>
Blue Jay			2	
** <i>Culex pipiens</i>	2		52	
** <i>Culex tarsalis</i>	10	<b>2 (20%)</b>	354	<b>50 (14%)</b>
** <i>Culex</i> species, other			10	<b>3 (30%)</b>
** <i>Culiseta</i> species				
Horse			1	
Raptor				
Raven, common				
Stellar Jay				
<b>West Nile Grand Total</b>	<b>12</b>	<b>2 (17%)</b>	<b>426</b>	<b>55 (13%)</b>

\* Flea pools tested. One pool could equal 1-234 fleas.

\*\*Mosquito pools tested. One pool could equal 1-60 mosquitoes.