

Zoonotic Surveillance Update
Season to date as of August 1st, 2008

For the week ending August 1st, the first West Nile Virus positive pool of mosquitoes was recorded. The positive sample was from Zone 2, our Longmont sentinel zone. The vector index is 0.20. There was also another bat positive for rabies.

Table 1: 2008 Boulder County Animal / Arthropod Zoonotic Surveillance				
Species	Tested 7/26-8/1	Positive 7/26-8/1	Total Tested 2008	Total Positive 2008
Rabies				
Big brown bat, <i>Eptesicus fuscus</i>	7	1	45	3
Cat	0	0	5	0
Dog	0	0	6	0
Horse	0	0	1	0
Long-eared myotis, <i>M. evotis</i>	0	0	1	0
<i>Myotis</i> spp.	1	0	11	0
Raccoon	1	0	5	0
Silver-haired bat, <i>Lasionycteris noctivagans</i>	0	0	1	0
Skunk	0	0	3	0
Rabies Total	9	1	78	3
Plague				
Cat	0	0	1	0
Flea	0	0	10	2
Mountain lion	0	0	1	0
Priarie dog	0	0	3	0
Rabbit	0	0	1	0
Tree squirrel, <i>Sciurus niger</i>	0	0	4	0
Plague Total	0	0	20	2
Tularemia				
Cat	0	0	1	0
Flea	0	0	1	0
Rabbit	0	0	1	0
Tree squirrel, <i>Sciurus niger</i>	0	0	4	0
Tularemia Total	0	0	7	0
West Nile Virus				
<i>Culex</i> spp.	11	0	42	0
<i>C. erythrothorax</i>	0	0	5	0
<i>C. pipiens</i>	2	0	5	0
<i>C. salinarius</i>	0	0	1	0
<i>C. tarsalis</i>	55	1	169	1
Horse	0	0	1	0
West Nile Virus Total	68	1	223	1

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

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

Table 2: 2008 Boulder County Human Zoonoses Surveillance of Confirmed & Probable

	Cases 7/26-8/1	Deaths 7/26-8/1	Total Cases 2008	Total Deaths 2008
Hantavirus	0	0	0	0
Bubonic Plague	0	0	0	0
Tularemia	0	0	0	0
West Nile Virus	0	0	4	0
Total	0	0	4	0

*By report date

Table 3: 2008 Boulder County Mosquito Trap Counts, Totals by Week

	Season Total	6-Jun	13-Jun	20-Jun	27-Jun	4-Jul	11-Jul	18-Jul	25-Jul	1-Aug
<i>C. pipiens</i>	4137	66	17	122	80	92	358	835	1810	757
<i>C. tarsalis</i>	20275	96	56	88	309	566	1758	4093	5536	7773
Other <i>Culex</i>	426	0	0	18	46	42	43	162	72	43
Total <i>Culex</i>	24838	162	73	228	435	700	2159	5090	7418	8573
Total Mosquito	90215	3799	5415	9950	9111	6694	9106	14883	14968	16289

The Vector Index (VI) is the average number of infected *Culex tarsalis* mosquitoes collected per trap night per defined area. A value ≥ 0.75 indicates a high level human risk. Boulder and Louisville/Lafayette/Superior sentinel zones have no reported positive mosquito pools; vector indices for these two zones are zero.

Table 4: 2008 Vector Index by Week, Longmont Sentinel Zone

6-Jun	13-Jun	20-Jun	27-Jun	4-Jul	11-Jul	18-Jul	25-Jul	1-Aug
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20

Note the increase in *Culex* totals for Boulder County in 2008. Compared to 2006 and 2007, the peak appears to occur later in the season.



