

Zoonotic Surveillance Update
Season to date as of September 12th, 2008

For the week ending Sept. 12th:

- Countywide mosquito trapping is now complete for the 2008 West Nile Virus season. Trap data received after this date will be presented as regional counts if available.
- Traps were not set in Zone 3, Louisville/Lafayette/Superior, or at University of Colorado this week so countywide season totals are not provided.
- Two new human cases of West Nile Virus were confirmed. Both cases reside in Longmont and were diagnosed with uncomplicated fever.
- One bat tested positive for rabies in Longmont.

Table 1: 2008 Boulder County Animal / Arthropod Zoonotic Surveillance				
Species	Tested 9/6-9/12	Positive 9/6-9/12	Total Tested 2008	Total Positive 2008
Rabies				
Bat, unspecified	0	0	1	0
Big brown bat, <i>Eptesicus fuscus</i>	2	0	61	8
Cat	0	0	7	0
Dog	0	0	9	0
Horse	0	0	1	0
Long-eared myotis, <i>M. evotis</i>	0	0	2	0
Long-legged myotis, <i>M. volans</i>	1	1	1	1
<i>Myotis</i> spp.	2	0	17	0
Raccoon	0	0	6	0
Silver-haired bat, <i>Lasionycteris noctivagans</i>	0	0	3	1
Skunk	0	0	4	0
Rabies Total	5	1	112	10
Plague				
Cat	2	0	3	0
Flea	0	0	10	2
Mountain lion	0	0	1	0
Prairie dog	0	0	3	0
Rabbit	0	0	1	0
Tree squirrel, <i>Sciurus niger</i>	0	0	4	0
Plague Total	2	0	22	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.	0	0	69	0
<i>C. erythrorhax</i>	0	0	5	0
<i>C. pipiens</i>	0	0	20	0
<i>C. salinarius</i>	0	0	1	0
<i>C. tarsalis</i>	0	0	258	3
Horse	0	0	1	0
American Crow	0	0	1	0
West Nile Virus Total	0	0	355	3

* 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 8/30-9/5	Deaths 8/30-9/5	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	2	0	15	0
Total	2	0	15	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*
<i>C. pipiens</i>	6917	66	17	122	80	92	358
<i>C. tarsalis</i>	28740	96	56	88	309	566	1758
Other <i>Culex</i>	1267	0	0	18	46	42	43
Total <i>Culex</i>	36924	162	73	228	435	700	2159
Total Mosquito	134616	3799	5415	9950	9111	6694	9106

18-Jul*	25-Jul*	1-Aug*	8-Aug*	15-Aug	22-Aug	29-Aug	5-Sep**
835	1810	757	761	634	781	466	138
4093	5536	7773	4038	2520	1071	659	177
162	72	43	447	76	138	103	77
5090	7418	8573	5246	3230	1990	1228	392
14883	14968	16289	12655	9927	9396	6800	5623

*Sentinel traps (n=15) are set and collected 2 nights per week during this time (7/4/08-8/8/08). At all other times, sentinel traps are set and collected one night per week. Total number of traps on average per week = 94 for 2008 season.

**University of Colorado is no longer included in total mosquito counts.

2008 Season: 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 sentinel zones have no reported positive mosquito pools. Vector indices for the Boulder zone are zero. Below is the VI for the Longmont and Louisville/Lafayette/Superior sentinel zones.

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	8-Aug	15-Aug
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
22-Aug	29-Aug									
0.00	0.18									

Table 5: 2008 Vector Index by Week, Lafayette/Louisville/Superior Sentinel Zone

6-Jun	13-Jun	20-Jun	27-Jun	4-Jul	11-Jul	18-Jul	25-Jul	1-Aug	8-Aug	15-Aug
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
22-Aug	29-Aug									
0.19	0.00									

