

Zoonotic Surveillance Update
Season to date as of August 22nd, 2008

For the week ending August 22nd:

- One bat tested positive for rabies in the City of Longmont.
- Two additional bats tested positive for rabies on August 25th and August 26th in Longmont and Berthoud. These bats will be counted on next week's report for the week ending August 29th.
- One mosquito pool was reported positive for West Nile Virus in Zone 3, Louisville/Lafayette/Superior. The Vector Index for Zone 3 for the week ending August 22 is 0.19.
- A second mosquito pool collected on August 25th was positive for West Nile Virus in Zone 2, Longmont. This pool will be counted in next week's report for the week ending August 29th. The Vector Index cannot be calculated until all labs for the week ending August 29th are reported.
- On August 25th, we confirmed the sixth human West Nile Virus case for Boulder County in a 34-year old Longmont female with an illness onset date of June 20, 2008. This case will be counted on next week's report for the week ending August 29th.
- On August 28th, we confirmed the seventh human West Nile Virus case for Boulder County in a 51-year old Longmont male with an illness onset date of August 13, 2008. This case will be counted on next week's report for the week ending August 29th.

Table 1: 2008 Boulder County Animal / Arthropod Zoonotic Surveillance

Species	Tested 8/16-8/22	Positive 8/16-8/22	Total Tested 2008	Total Positive 2008
Rabies				
Bat, unspecified	0	0	1	0
Big brown bat, <i>Eptesicus fuscus</i>	4	1	53	5
Cat	0	0	6	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	12	0
Raccoon	1	0	6	0
Silver-haired bat, <i>Lasionycteris noctivagans</i>	1	0	2	0
Skunk	0	0	3	0
Rabies Total	7	1	91	5
Plague				
Cat	0	0	1	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	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.	2	0	68	0
<i>C. erythrothorax</i>	0	0	5	0
<i>C. pipiens</i>	4	0	17	0
<i>C. salinarius</i>	0	0	1	0
<i>C. tarsalis</i>	10	1	253	2
Horse	0	0	1	0
American Crow	0	0	1	0
West Nile Virus Total	16	0	346	2

* 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 8/16-8/22	Deaths 8/16-8/22	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	5	0
Total	0	0	5	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>	6313	66	17	122	80	92	358
<i>C. tarsalis</i>	27904	96	56	88	309	566	1758
Other <i>Culex</i>	1087	0	0	18	46	42	43
Total <i>Culex</i>	35304	162	73	228	435	700	2159
Total Mosquito	122193	3799	5415	9950	9111	6694	9106

18-Jul*	25-Jul*	1-Aug*	8-Aug*	15-Aug	22-Aug
835	1810	757	761	634	781
4093	5536	7773	4038	2520	1071
162	72	43	447	76	138
5090	7418	8573	5246	3230	1990
14883	14968	16289	12655	9927	9396

*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.

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.

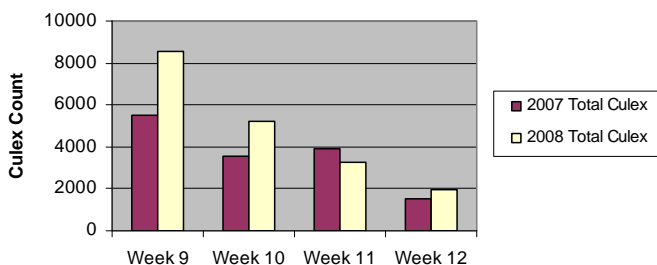
Table 4: 2008 Vector Index by Week, Longmont Sentinel Zone

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										
0.00										

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

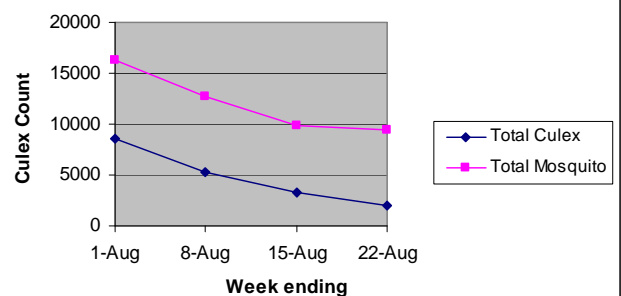
6-Jun	13-Jun	20-Jun	27-Jun	4-Jul	11-Jul	18-Jul	25-Jul	1-Aug	8-Aug	15-Aug
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
22-Aug										
0.19										

Graph 1: Boulder County Mosquito Trap Counts for *Culex*, Four Week Comparison* for 2007 and 2008



*Please note: Weeks 7-10 include two trap nights per week for sentinel traps. Total traps: 2007 =100 and 2008 traps=94.

Graph 2: 2008 Boulder County Mosquito Trap Count Totals for the Last Four Weeks



*Please note: Weeks 7/4-8/8 include two trap nights per week for sentinel traps.

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