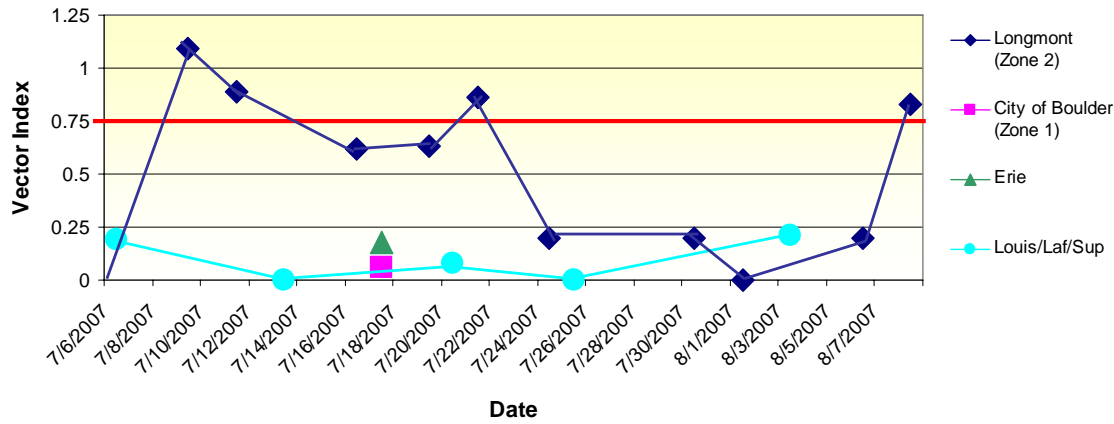


Zoonotic Surveillance Update
 Week of August 5th through August 11th 2007

Mosquito Surveillance

Boulder County Vector Index by Region 2007

Vector Index (VI) Calculation:
 The Vector Index is the average number of infected mosquitoes collected per trap night per defined area. A value of ≥ 0.75 indicates a high level of human risk.

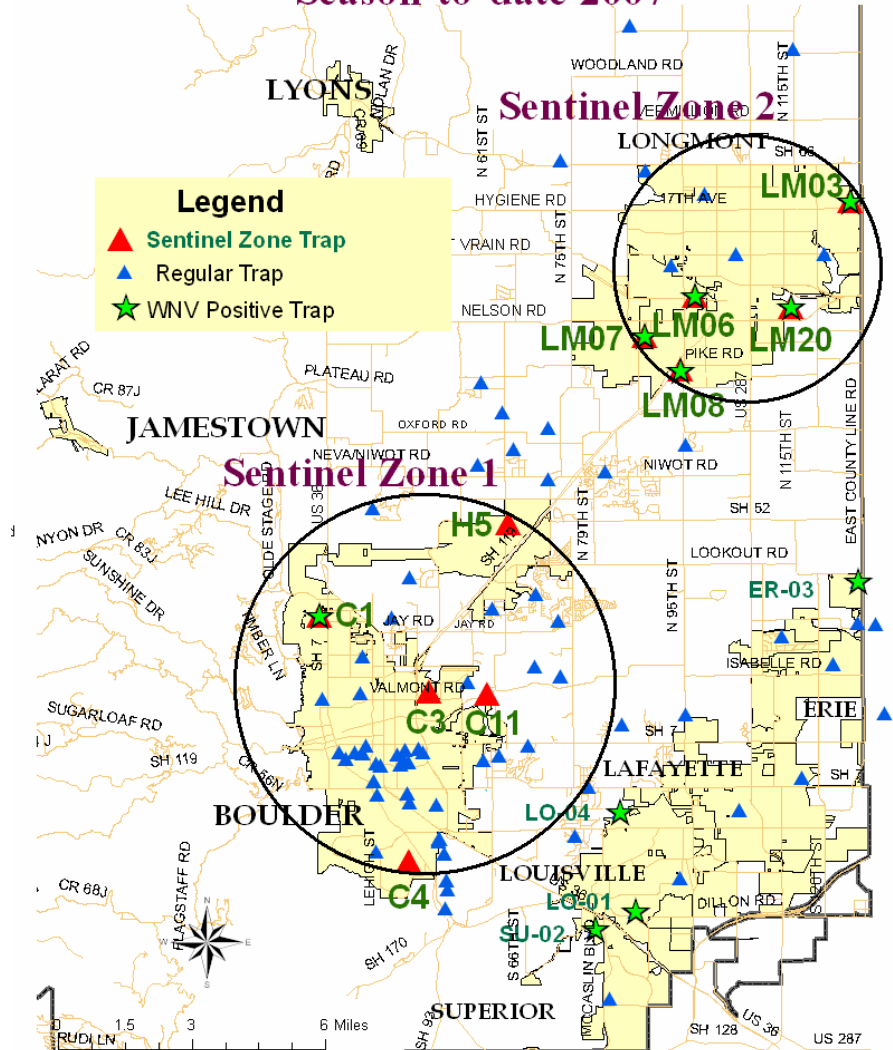


Four *C. tarsalis* pools were positive this week:

1. LM-03
2. LM-06
3. LM-07
4. LM-08

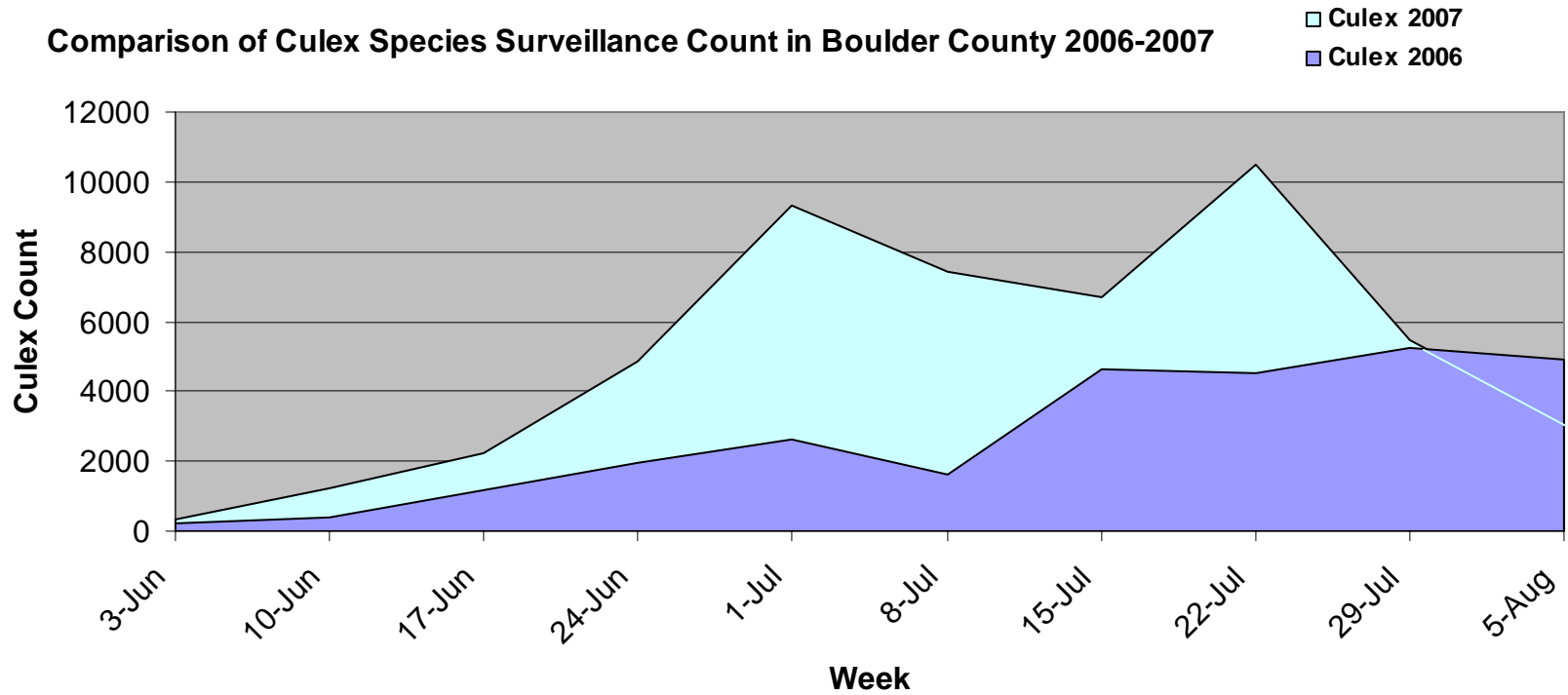
for a Longmont **VI of 0.83**

**Boulder County Positive Trap Locations
 Season-to-date 2007**



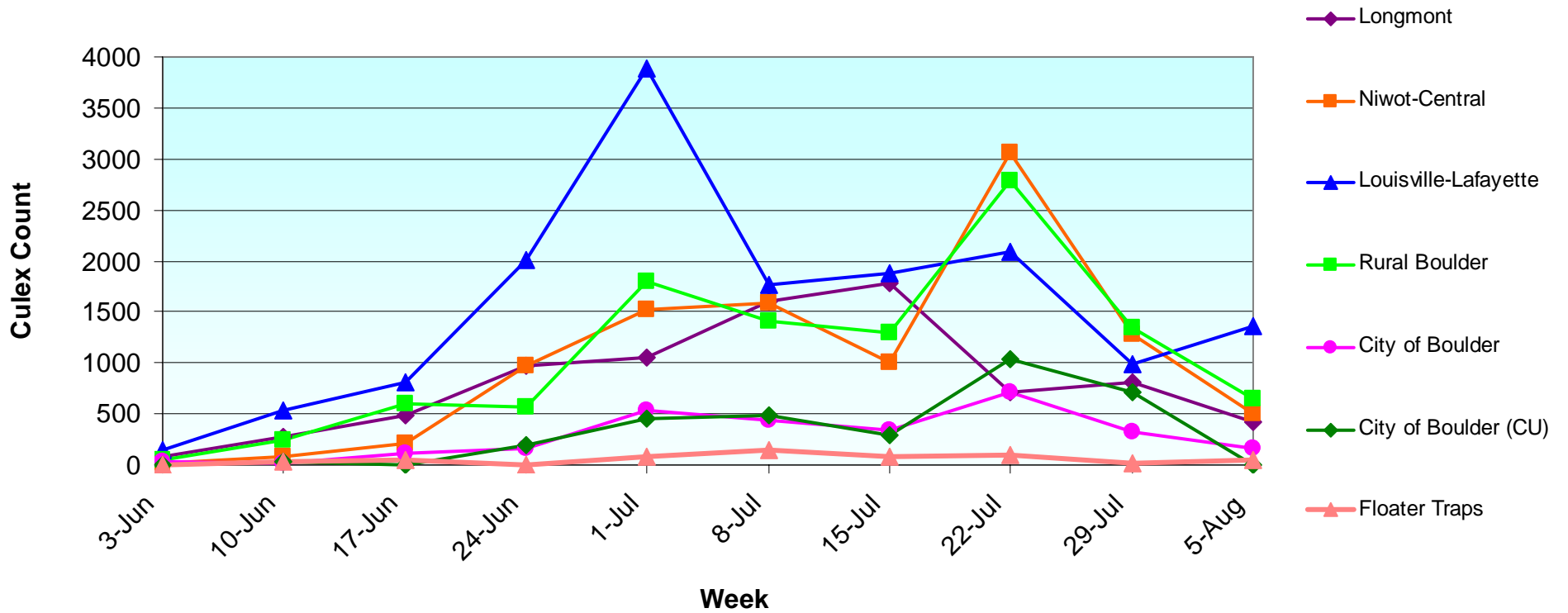
Boulder County 2007 Mosquito Trap Counts by Week

| | Grand Totals | 3-Jun | 10-Jun | 17-Jun | 24-Jun | 1-Jul | 8-Jul | 15-Jul | 22-Jul | 29-Jul | 5-Aug |
|---------------------------|---------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| <i>C. pipiens</i> | 8251 | 38 | 241 | 210 | 487 | 1347 | 1262 | 1041 | 1512 | 1291 | 822 |
| <i>C. tarsalis</i> | 42731 | 271 | 989 | 2036 | 4362 | 7968 | 6117 | 5592 | 8952 | 4172 | 2272 |
| Other <i>Culex</i> | 242 | 32 | 2 | 10 | 6 | 30 | 33 | 47 | 14 | 31 | 37 |
| Total <i>Culex</i> | 51224 | 341 | 1232 | 2256 | 4855 | 9345 | 7412 | 6680 | 10478 | 5494 | 3131 |
| <i>Culiseta</i> | 1447 | 68 | 125 | 130 | 236 | 215 | 226 | 188 | 83 | 56 | 120 |
| Total Mosquito | 104209 | 2717 | 8556 | 8111 | 11868 | 14622 | 11271 | 11227 | 17150 | 10526 | 8161 |



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 ZOOSES 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 | | | | | | | 3 | |
| Alamosa | 1 | 1 | | | | | | |
| Bent | | | | | | | | |
| Boulder | | | | | | | 20 | |
| Broomfield | | | | | | | 3 | |
| Chaffee | | | | | | | | |
| Cheyenne | | | | | | | 2 | |
| Costilla | 1 | 1 | | | | | | |
| Custer | 1 | 1 | | | | | | |
| Denver | | | | | | | 2 | 2 |
| Douglas | | | | | | | 1 | |
| Elbert | | | | | | | | |
| El Paso | | | | | | | 1 | |
| Fremont | | | | | | | 2 | |
| Garfield | | | | | | | | |
| Huerfano | | | | | | | 1 | |
| Jefferson | | | | | | | 2 | |
| Larimer | | | | | | | 20 | |
| Logan | | | | | | | 1 | |
| Mesa | | | | | | | 1 | |
| Montrose | | | | | | | | |
| Morgan | | | | | | | | |
| Otero | | | | | | | 1 | |
| Park | 2 | 1 | | | | | | |
| Prowers | | | | | | | 2 | |
| Pueblo | | | | | | | 2 | |
| Washington | | | | | | | 1 | |
| Weld | 1 | | | | | | 14 | |
| Unknown | | | | | | | | |
| Grand Totals | 6 | 4 | | | | | 79 | |

* 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

Boulder County Animal / Arthropod Zoonotic Surveillance

| Species | Week of August 5 th to August 11 th | | Season Summary | |
|---|---|---------------|-----------------|--------------------|
| | Tested | Positive (%) | Total Specimens | Total Positive (%) |
| Bubonic Plague | | | | |
| Cat | | | 5 | |
| *Flea | | | 13 | 4 (31%) |
| Fox | | | | |
| Dog | | | 1 | |
| Squirrel, tree (<i>Sicrus niger</i>) | | | 12 | |
| Squirrel, 13 lined (<i>Spermophilus tridecemlineatus</i>) | | | | |
| Rabbit | | | 2 | |
| Plague Grand Total | 0 | 0 (0%) | 33 | 4 (12%) |
| Rabies | | | | |
| Bat, not speciated | | | 13 | |
| Big brown bat (<i>Eptesicus fuscus</i>) | | | 52 | 8 (15%) |
| California bat (<i>Myotis californicus</i>) | | | | |
| Hoary bat (<i>Lasiurus cinereus</i>) | | | 3 | 2 (67%) |
| Little brown bat (<i>M. lucifugus</i>) | | | | |
| Long-eared myotis (<i>M. evotis</i>) | | | | |
| Myotis species | | | 15 | 1 (8%) |
| Silver-haired bat (<i>Lasionycteris noctivagans</i>) | | | 2 | |
| Western small-footed myotis (<i>M. ciliolabrum</i>) | | | | |
| Cat | | | 5 | |
| Dog | | | | |
| Raccoon | | | 1 | |
| Skunk | | | 1 | |
| Rabies Grand Total | 0 | 0 (0%) | 92 | 11 (12%) |

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

| Boulder County Animal / Arthropod Zoonotic Surveillance | | | | |
|---|---|----------------|-----------------|--------------------|
| Species | Week of August 5 th to August 11 th | | Season Summary | |
| | Tested | Positive (%) | Total Specimens | Total Positive (%) |
| Tularemia | | | | |
| Cat | | | 5 | |
| Dog | | | 1 | |
| *Flea | | | 13 | |
| Fox | | | | |
| Prairie Dog | | | | |
| Squirrel, tree (<i>Sicrus niger</i>) | | | 12 | |
| Squirrel, 13 lined (<i>Spermophilus tridecemlineatus</i>) | | | | |
| Rabbit | | | 2 | |
| Tularemia Grand Total | 0 | 0 (0%) | 33 | 0 (0%) |
| West Nile Virus | | | | |
| American Crow | | | 4 | 1 (25%) |
| Avian Other | | | | |
| Black-billed Magpie | | | 3 | 1 (33%) |
| Blue Jay | | | 2 | |
| ** <i>Culex pipiens</i> | 3 | | 42 | |
| ** <i>Culex tarsalis</i> | 12 | 4 (33%) | 277 | 31 (11%) |
| ** <i>Culex</i> species, other | | | 6 | |
| ** <i>Culiseta</i> species | | | | |
| Horse | | | 1 | |
| Raptor | | | | |
| Raven, common | | | | |
| Stellar Jay | | | | |
| West Nile Grand Total | 15 | 4 (27%) | 335 | 33 (10%) |

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

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