



# TOWN OF WINDSOR

## JULY 2018 MONTHLY REPORT

AUGUST 8<sup>TH</sup>, 2018

### West Nile Virus Risk

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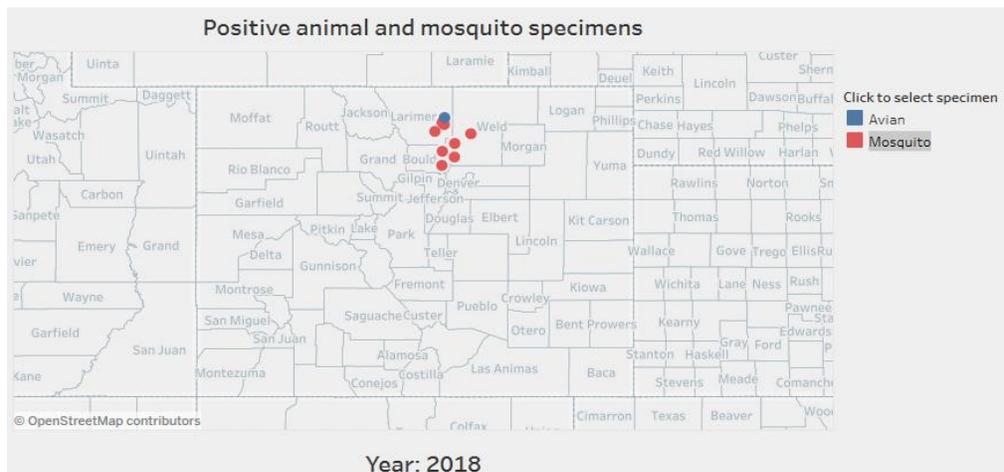
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As of July 24, 2018, a total of 36 states have reported West Nile virus infections in people, birds, or mosquitoes in 2018. Overall, 39 cases of West Nile virus disease in people have been reported to CDC. Of these, 23 (59%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 16 (41%) were classified as non-neuroinvasive disease.

West Nile virus was detected in both birds and mosquitoes collected throughout Northern Colorado during the second week of July and while viral activity is on the rise, and spreading to new areas, the overall Vector Index remains relatively low when compared to historical averages. There has been only one reported case of West Nile virus infection in human hosts this year this came from a resident of Mead Colorado. In 2017 the Centers for Disease Control (CDC) reported 68 reported human cases of West Nile virus in Colorado which included four deaths. In 2016 Colorado reported 149 reported human cases of which eight were fatal.



These number are guaranteed to increase according to the Colorado Department of Public Health and Environment, as the majority of West Nile virus cases in humans are identified in August and September, during the season's peak.

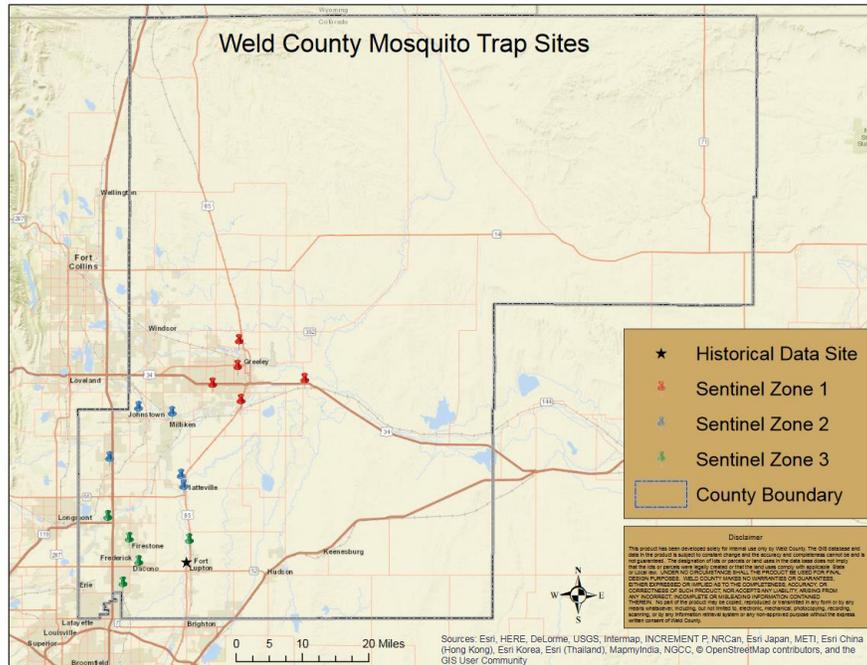
Weld County Department of Health and Environment has tested 115 mosquito pools with 9 of those testing positive for West Nile virus activity.

## Wear Your Repellent!

Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

DEET products generally provide the longest protection. The other repellents work but must be applied more frequently.

Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.



**UPDATED August 3, 2018**

### West Nile Virus (WNV): PREVENT MOSQUITO BITES AND MOSQUITO BREEDING AREAS AROUND YOUR HOME

| Animals Tested for WNV | Positive | Negative | Pending |
|------------------------|----------|----------|---------|
| Mosquito Pool          | 9        | 115      |         |
| Bird                   |          | 1        |         |

- The first human case of WNV was reported this week in Weld County.

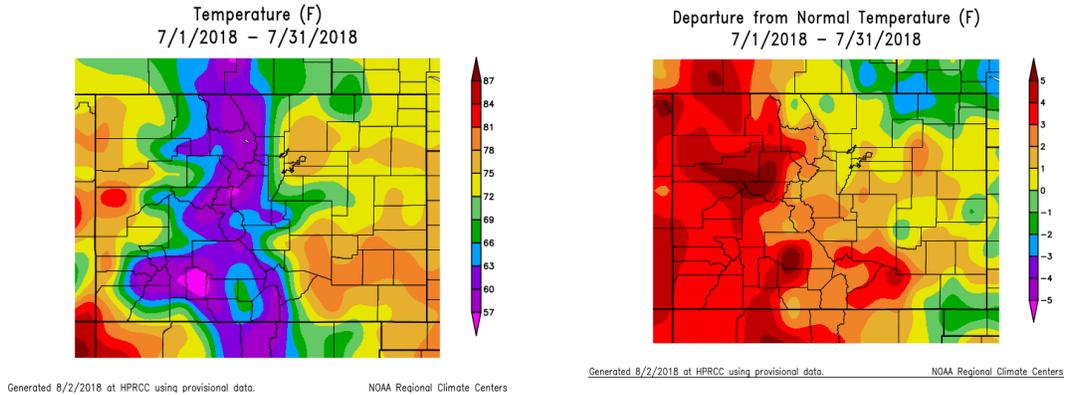
**The Vector Index** - According to the CDC, a Vector Index of 0.75 or above indicates an increased risk of WNV transmission to humans. [Click here](#) to see map of Sentinel Zones.

| Vector Index Log |        |        |        |
|------------------|--------|--------|--------|
| Week             | Zone 1 | Zone 2 | Zone 3 |
| June 10-16       | 0      | 0      | 0      |
| June 17-23       | 0      | 0      | 0      |
| June 24-30       | 0      | 0      | 0      |
| July 1-7         | 0      | 0      | 0      |
| July 8-14        | 0      | 0      | 0.07   |
| July 15-21       | 0      | 0      | 0      |
| July 22-28       | 0.20   | 0.20   | 0.20   |
| July 29-August 4 | 0.00   | 0.67   | 0.40   |

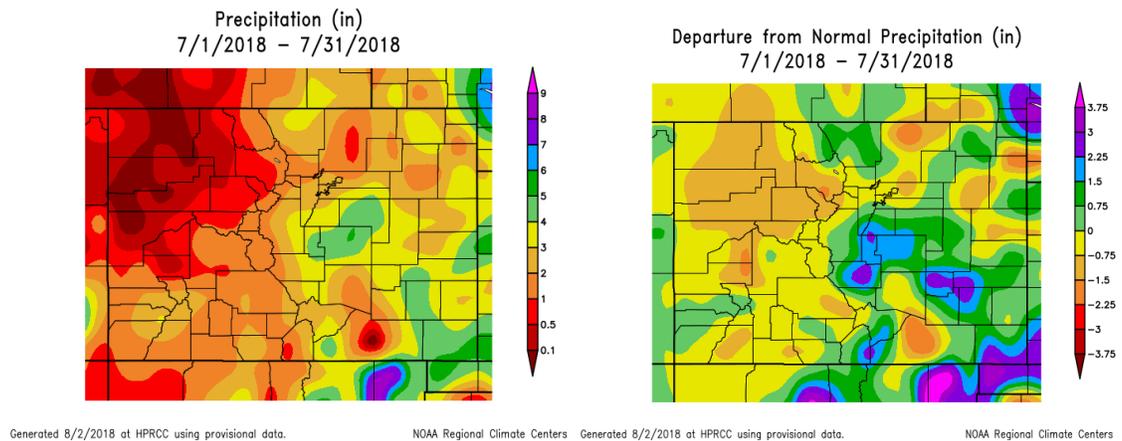
During the month of July 2018 Colorado State University tested 512 sample pools of mosquitoes collected from traps set in Larimer County. Sixteen (16) of these samples have tested positive for West Nile virus relative to 15 this time last year. Twelve (12) of positive mosquito pools were collected in Fort Collins, 2 were collected in Loveland and 2 were collected in Berthoud. Of the positive mosquito pool samples, 7 samples contained *Culex tarsalis* collected in light traps, 7 contained *Culex pipiens* collected in gravid traps, and 2 contained *Culex pipiens* collected in light traps.

## Weather

Temperatures throughout Weld County were only slightly above average during the month of July 2018. Warm temperatures kept larval production at a steady pace during the month of July and overall larval counts and product application totals were comparable but slightly below average.



The average temperature within the Town of Windsor during the month of July 2018 was 75°F. Monsoon rains and hail storms were common during the month of July 2018 but overall precipitation was slightly lower than average.



## Larval Control Operations

VDCI field technicians performed 868 site inspections in the month of July 2018 as part of the inspection and larviciding program for the Town of Windsor. Of the 868 inspections, 699 sites were wet (80.5% of the total inspected sites) and 462 sites were producing larvae (66.1% of the wet sites). Of the 336.4 acres treated in July 2018, 2,120 lbs. of VectoBac (*Bti*) and 0.3 gallons of BVA Mineral Oil was used to prevent mosquito larvae from taking flight.

VDCI field technicians performed 706 site inspections in the month of July 2017 as part of the inspection and larviciding program for the Town of Windsor. Of the 706 inspections, 487 sites were wet (69% of the total inspected sites) and 317 sites were producing larvae (65.1% of the wet sites). Of the 212.2 acres treated in July 2017, 1,469 lbs. of VectoBac (*Bti*), 52.7 lbs Vectolex (*Bs*) and 2.5 gallons of BVA Mineral Oil was used to prevent mosquito larvae from taking flight.

## Mosquito Population Surveillance

There were 40 light traps set in the Town of Windsor during the month of July 2018. Of the 40 light traps set, a total of 6,274 mosquitoes were collected. There were 4,075 (66%) *Aedes spp.*, 21 (<1.0%) *Culiseta inornata*, 2,176 (35%) *Culex spp.* mosquitoes collected. There was an average of 157 mosquitoes per trap per night and 54 *Culex spp.* mosquitoes per trap per night collected in the Town of Windsor during July 2018.

There were 40 light traps set in the Town of Windsor during the month of July 2017. Of the 40 light traps set, a total of 11,757 mosquitoes were collected. There were 10,221 (86.9%) *Aedes spp.*, 24 (<1.0%) *Culiseta inornata*, 1,511 (12.9%) *Culex spp.* mosquitoes collected. There was an average of 294 mosquitoes per trap per night and 38 *Culex spp.* mosquitoes per trap per night collected in the Town of Windsor during July 2017.

## Adult Mosquito Control Operations

During the month of July 2018, 118 miles of roads within Windsor town limits were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaKontrol3030 mosquito adulticides to reduce adult mosquito populations. Truck based ULV applications were performed to suppress mosquito abundance detected in surveillance traps which surpassed the adulticiding thresholds.

| Vector Disease Control International |                           |                    | Adulticide Data |                 |                    |              |
|--------------------------------------|---------------------------|--------------------|-----------------|-----------------|--------------------|--------------|
| Customer                             | Subdiv/Area               | Material           | Start Time      | End Time        | Miles              |              |
| Windsor, Town of                     |                           |                    |                 |                 |                    |              |
| <b>Backpack</b>                      |                           |                    |                 |                 |                    |              |
| 07/02/2018                           | FOUNDERS PARK             | Talstar            | 10:34:00        | 10:47:00        | 0.0                |              |
| 07/02/2018                           | EASTMAN PARK              | Talstar            | 08:20:00        | 09:50:00        | 0.0                |              |
| 07/02/2018                           | BRUNNER FARM              | Talstar            | 10:05:00        | 10:30:00        | 0.0                |              |
|                                      |                           |                    |                 | <b>Backpack</b> | <b>Sum</b>         | <b>0.0</b>   |
| <b>Truck</b>                         |                           |                    |                 |                 |                    |              |
| 07/03/2018                           | WINTER FARMS              | Aqua Kontrol 30 30 | 22:16:00        | 22:56:00        | 7.0                |              |
| 07/03/2018                           | RIVER RIDGE               | Aqua Kontrol 30 30 | 12:21:00        | 01:00:00        | 7.0                |              |
| 07/03/2018                           | NORTH SHORES/VENTANA/WI   | Aqua Kontrol 30 30 | 20:58:00        | 21:35:00        | 2.0                |              |
| 07/03/2018                           | LEE LAKE                  | Aqua Kontrol 30 30 | 20:31:00        | 20:48:00        | 4.0                |              |
| 07/03/2018                           | LAKE OSTERHOUT            | Aqua Kontrol 30 30 | 23:17:00        | 23:52:00        | 6.0                |              |
| 07/03/2018                           | EASTMAN PARK              | Aqua Kontrol 30 30 | 23:59:00        | 12:11:00        | 1.0                |              |
| 07/12/2018                           | RIVER RIDGE               | Aqua Kontrol 30 30 | 12:33:00        | 01:09:00        | 7.0                |              |
| 07/12/2018                           | LAKE OSTERHOUT            | Aqua Kontrol 30 30 | 23:41:00        | 12:11:00        | 6.0                |              |
| 07/12/2018                           | EASTMAN PARK              | Aqua Kontrol 30 30 | 12:19:00        | 12:21:00        | 1.0                |              |
| 07/19/2018                           | WINTER FARMS              | Aqua Kontrol 30 30 | 22:25:00        | 23:08:00        | 10.0               |              |
| 07/19/2018                           | NORTH SHORES/VENTANA/WI   | Aqua Kontrol 30 30 | 21:31:00        | 22:13:00        | 10.0               |              |
| 07/19/2018                           | LEE LAKE                  | Aqua Kontrol 30 30 | 20:33:00        | 21:17:00        | 9.0                |              |
| 07/19/2018                           | LAKE OSTERHOUT            | Aqua Kontrol 30 30 | 23:32:00        | 12:03:00        | 7.0                |              |
| 07/26/2018                           | WINTER FARMS              | Aqua Kontrol 30 30 | 22:29:00        | 23:01:00        | 8.0                |              |
| 07/26/2018                           | RIVER RIDGE               | Aqua Kontrol 30 30 | 21:09:00        | 21:35:00        | 8.0                |              |
| 07/26/2018                           | NORTH SHORES / VENATANA / | Aqua Kontrol 30 30 | 23:13:00        | 23:50:00        | 9.0                |              |
| 07/26/2018                           | LEE LAKE                  | Aqua Kontrol 30 30 | 12:05:00        | 12:37:00        | 8.0                |              |
| 07/26/2018                           | LAKE OSTERHOUT            | Aqua Kontrol 30 30 | 21:47:00        | 22:14:00        | 6.0                |              |
| 07/26/2018                           | EASTMAN PARK              | Aqua Kontrol 30 30 | 20:44:00        | 20:57:00        | 2.0                |              |
|                                      |                           |                    |                 | <b>Truck</b>    | <b>Sum</b>         | <b>118.0</b> |
|                                      |                           |                    |                 |                 | <b>Avg</b>         | <b>6.2</b>   |
|                                      |                           |                    |                 |                 | <b>Min</b>         | <b>1.0</b>   |
|                                      |                           |                    |                 |                 | <b>Max</b>         | <b>10.0</b>  |
|                                      |                           |                    |                 |                 | <b>Grand Total</b> | <b>118.0</b> |

## **Public Relations**

VDCI received eleven mosquito annoyance phone calls and one report of standing water from residents of Windsor during the month of July 2018. Residents were informed of fogging thresholds and directed to [www.vdci.net/colorado](http://www.vdci.net/colorado) to access fogging schedules and trap data.