**West Nile Virus Risk**

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 24 (June 14th). As of September 18th there have been West Nile virus positive mosquitoes in the Colorado counties of Adams, Boulder, Broomfield, Delta, La Plata, Larimer, Mesa, Pueblo, Teller, and Weld. To date, there have been no deaths associated with West Nile virus infection in Colorado in 2019.

The Centers for Disease Control and Prevention currently reports human West Nile virus infections in sixteen states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in forty-four states. Serious cases of West Nile Virus, including those with neuroinvasive incidences have been reported in 34 states.

**West Nile Virus Activity by State – United States, 2019 (as of September 17, 2019)**

In August 2019 Colorado State University (CSU) tested a total of 486 mosquito samples containing 12,878 mosquitoes. These samples consisted of 9,644 Cx. tarsalis and 3,234 Cx. Pipiens collected from the Fort Collins, Loveland and Berthoud areas. A total of 34 samples tested positive for West Nile Virus, with 30 samples from Fort Collins and 4 from Loveland.
**Weather**

The average temperature in Larimer County was 72.58 °F, with the average minimum temperature at 65.35 °F and the average max temperature at 82.37 °F during the month of July. A monthly high of 99 °F was seen on August 20th. With temperatures above average, larval production kept at a fairly rapid pace during the month of August.

Precipitation in Larimer County during August 2019 was below average, however after the wet months of May and June, stagnant water and mosquito breeding habitats were still abundant in Northern Colorado.
Larval Control Operations

VDCI field technicians performed 223 site inspections in the month of August 2019 as part of the inspection and larviciding program for Berthoud. Of the 223 inspections, 151 sites were wet (67.7% of the total inspected sites) and 54 sites were producing larvae (35.8% of the wet sites). Of the 23.5 acres treated in August 2019, 117.5 lbs of VectoBac (Bti) was applied.

Mosquito Population Surveillance

There were 20 light traps set in Berthoud during August 2019. Mosquito surveillance traps set during August 2019 collected a total of 1,551 mosquitoes. Of these there were 651 (42.0%) Aedes spp., 17 (1.1%) Culiseta spp., and 883 (56.9%) Culex spp. mosquitoes collected. There was an average of 77.6 mosquitoes collected per trap night and 44.2 Culex spp. mosquitoes per trap night during August 2019 in Berthoud.

No pools from Berthoud has tested positive for West Nile Virus during the month of August 2019.
**Adult Mosquito Control Operations**

The Town of Berthoud has not, and does not, have any plans for adult mosquito control operations in 2019.

**Public Relations**

VDCI received no phone calls from residents of Berthoud during the month of August 2019.