



CITY OF LOUISVILLE

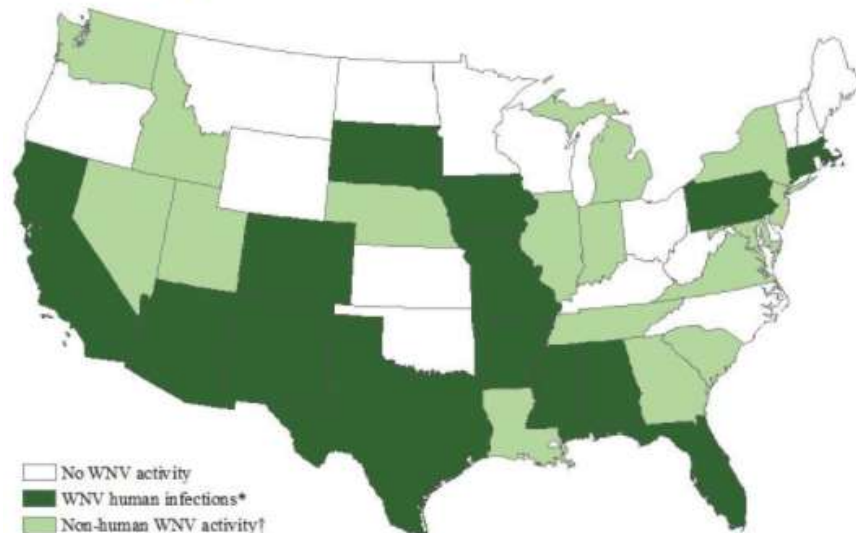
AUGUST 2020 MONTHLY REPORT

SEPTEMBER 9TH, 2020

West Nile Virus Risk

The Centers for Disease Control and Prevention (CDC) currently reports 63 human West Nile virus infections in 14 states and two (2) deaths. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in 25 states. Of these, 47 (74.6%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 16 (25.4%) were classified as non-neuroinvasive disease.

West Nile Virus Activity by State – United States, 2020 (as of August 25, 2020)



*WNV human disease cases or presumptive viremic blood donors. Presumptive viremic blood donors have a positive screening test which has not necessarily been confirmed.

†WNV veterinary disease cases, or infections in mosquitoes, birds, or sentinel animals.

As of August 31st, The Colorado Department of Public Health & Environment (CDPHE) reports there have been West Nile virus positive mosquitoes identified in the Colorado counties of Boulder (5), Delta (13), Denver (1), Larimer (36), LaPlata (1) and Weld (5). Four (4) human cases of West Nile virus infection have been reported by CDPHE. Delta, Denver and Boulder Counties report one (1) human case each and the fourth location has not been released. No deaths have been reported in Colorado.

While West Nile virus activity remains low in the County, compared to last year, we are likely to see continued disease risk into fall and the number of human cases increase, as the majority of West Nile virus cases in humans are identified in August and September, per CDPHE, during the season's peak. VDCI encourages continued personal protective measures including draining water from your property, avoiding the outdoors at dawn and dusk, defending yourself by wearing repellent and dressing appropriately.

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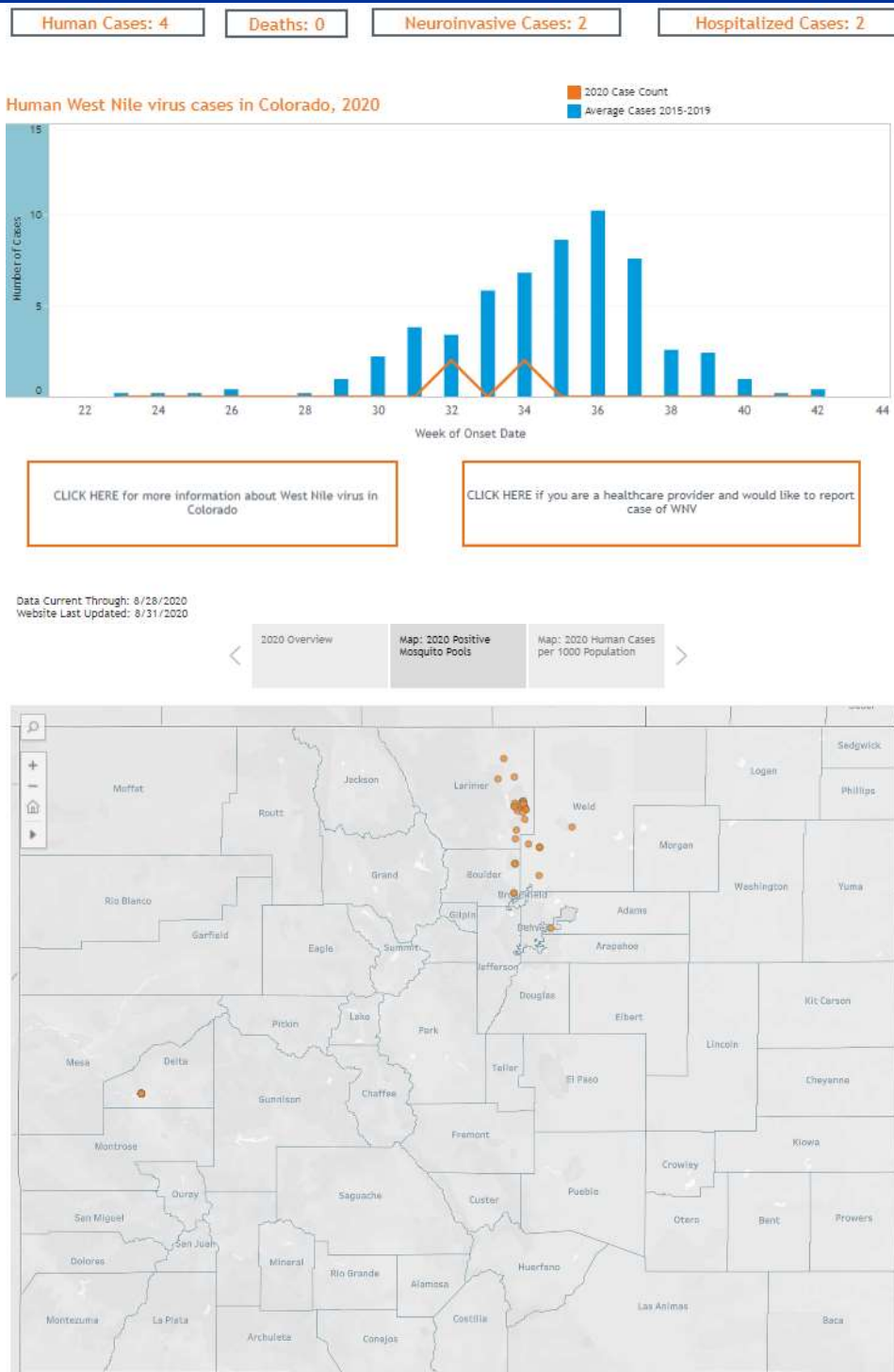
7000 North Broadway
Suite 108 Denver, CO
80221
303-428-5908

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.



In August 2020 Boulder County Public Health (BCPH) reports that 47 mosquito pools were submitted to Colorado Department of Public Health and Environment (CDPHE) for WNV testing in August. To date, five (5) mosquito samples tested positive for West Nile virus. No mosquito pools from the City of Boulder, three (3) mosquito pools from the City of Longmont and two (2) pools from the Erie, Lafayette, Louisville and Superior sentinel zones.

By comparison, in August 2019, CDPHE tested a total of 79 mosquito samples with eight (8) testing positive for West Nile virus. Two (2) mosquito pools from the City of Boulder, four (4) mosquito pools from City of Longmont and two (2) pools from the Erie, Lafayette, Louisville, and Superior sentinel zones.

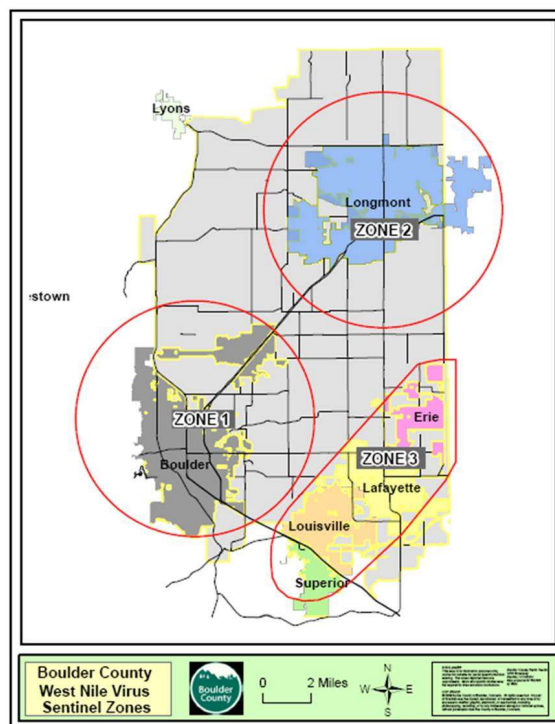
Adult mosquito abundance in Boulder County has exhibited lower-than-average nuisance mosquito numbers and lower than average *Culex* numbers compared to 2019.

The Vector Index for all three Boulder County Sentinel Zones is low, ranging from 0.15 – 0.21, indicating a low risk of viral transmission to humans in August.

Boulder County Vector Index 2020 ¹			
	Sentinel Zone 1 ²	Sentinel Zone 2 ³	Sentinel Zone 3 ⁴
Season Week	Vector Index	Vector Index	Vector Index
Week 23 (May 31-June 6)	----	----	----
Week 24 (June 7-13)	----	----	----
Week 25 (June 14-20)	----	----	----
Week 26 (June 21-27)	----	----	----
Week 27 (June 28-July 4)	0.00	0.00	0.00
Week 28 (July 5-11)	0.00	0.00	0.00
Week 29 (July 12-18)	0.00	0.00	0.00
Week 30 (July 19-25)	0.00	0.00	0.00
Week 31 (July 26 -Aug 1)	0.00	0.00	0.00
Week 32 (August 2-8)	0.00	0.00	0.21
Week 33 (August 9-15)	0.00	0.20	0.00
Week 34 (August 16-22)	0.00	0.20	0.21
Week 35 (August 23-29)	0.00	0.15	0.00

1. Reported by BCPH as of August 31, 2020

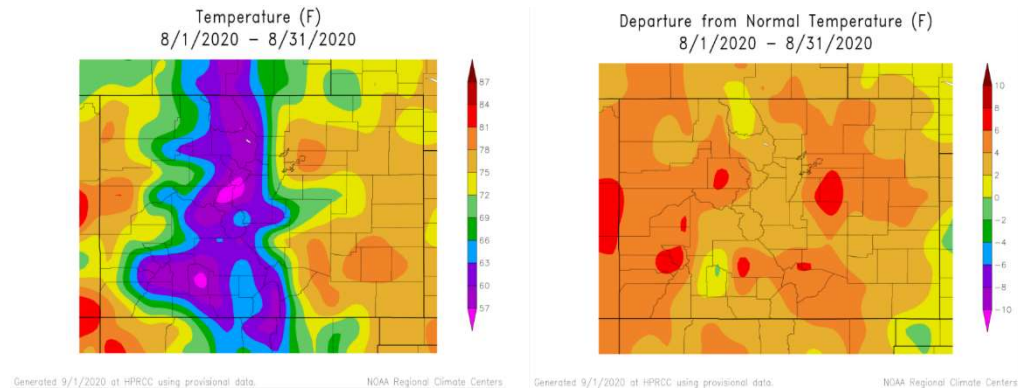
2. City of Boulder; 3. Longmont; 4. Erie, Lafayette, Louisville, Superior



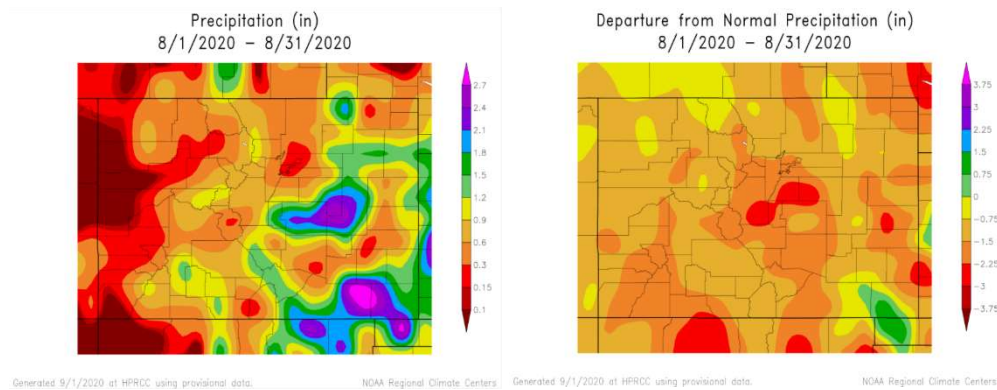
Weather

The High Plains Regional Climate Center recorded 74.2° F for the average temperature in Boulder County compared to the historical average of 71.1° F, a +3.5° F departure from normal. The average max temperature was 91.2° F during the month of August and a monthly high of 98° F was recorded on August 7th & 9th.

Denver tied a 148 year old record for the hottest August on record (1872) with 26 days above 90° F, while Boulder saw 22 days above 90° F in August compared to 17 days in 2019, 10 days in 2018 and 4 days in 2017.



The High Plains Regional Climate Center recorded 0.48 inches of precipitation in Boulder County compared to the historical average of 1.53 inches of precipitation for the month of August and a normal year should be 1.84" of precipitation.



With higher than normal temperatures and extremely low precipitation, many larval sites continued drying up while stagnant and flood water irrigated sites became the main source of larval breeding habitats throughout most of the County in August.

Larval Control Operations

VDCI field technicians performed 74 site inspections as part of the inspection and larviciding program in the City of Louisville. Of the 74 sites inspected, 28 (37.8%) were wet and 4 (5.4%) sites were producing mosquito larvae. 1,040 sq. ft. (0.02 acres) were treated with larvicides.

In August 2019, VDCI field technicians performed 61 site inspections in the City of Louisville. Of the 61 inspections, 41 (67.2%) sites were wet and 20 (48.8%) sites were producing mosquito larvae. 2.5 acres were treated with larvicides.

Adult Mosquito Population Surveillance

There were 15 light traps set in City of Louisville during August 2020 that collected a total of 750 mosquitoes. Of these, there were 200 (26.7%) *Aedes* spp., 7 (0.9%) *Anopheles* spp., 536 (71.5%) *Culex* spp. and 7 (0.9%) *Culiseta* spp. mosquitoes collected. There was an average of 50.0 mosquitoes per trap night and 35.7 *Culex* mosquitoes per trap night in August of 2020.

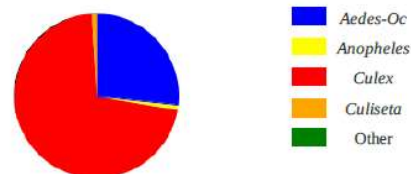
12 mosquito surveillance traps set in August 2019, in the City of Louisville, collected a total of 823 mosquitoes. Of these there were 109 (13.1%) *Aedes* spp., 2 (0.2%) *Anopheles* spp., 693 (84.2%) *Culex* spp. and 19 (2.3%) *Culiseta* spp. mosquitoes collected. There was an average of 68.6 mosquitoes per trap night and 57.8 *Culex* mosquitoes per trap night in August of 2019.

2020 City of Louisville Trap Composite Data



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	200	26.7%
<i>Anopheles</i>	7	0.9%
<i>Culex</i>	536	71.5%
<i>Culiseta</i>	7	0.9%
Other	0	0.0%



Adult Mosquito Control Operations

No adult control operations occurred in the City of Louisville during the month of August 2020.

In August 2019, 54.0 gallons of Talstar Pro mosquito adulticide barrier was applied via daytime backpack to three adult control locations on August 2nd and 16th.

Public Relations

VDCI received no phone calls from City of Louisville residents in August 2020 reporting standing water or mosquito annoyance. VDCI received no submissions from residents requesting to be placed on VDCI's notification and shut off list. No callers requested additional information.