



CITY OF LOUISVILLE

JULY 2022 MONTHLY REPORT

AUGUST 8TH, 2022

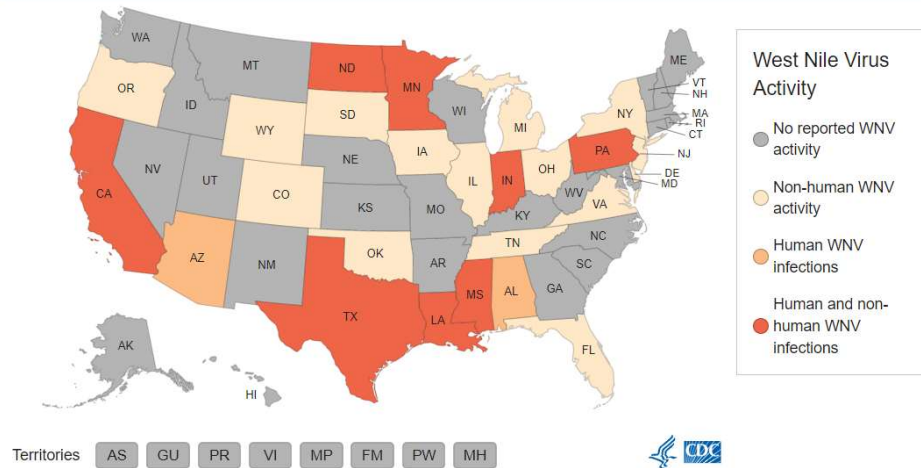
West Nile Virus Risk

The Colorado Department of Public Health & Environment (CDPHE) began testing mosquito samples in Disease Week 24 (June 12th). As of August 5th, CDPHE reports there have been 54 West Nile virus positive mosquitoes pools in the Colorado counties of Adams, Boulder, Larimer, Mesa and Weld and three (3) human WNV cases two (2) in Delta and one (1) in Boulder Counties.

As of July 26th, the Centers for Disease Control and Prevention (CDC) currently reports 30 human West Nile virus infections in 10 states and 2 deaths. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in 25 states. West Nile virus activity remains high and we will continue to see disease risk as the summer continues. Encourage personal protective measures including draining water from properties, avoiding the outdoors at dawn and dusk and defend yourself by wearing repellent and dressing appropriately.

West Nile Virus Activity by State 2022

United States (as of July 26, 2022)



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Boulder County Public Health (BCPH) began West Nile virus mosquito pool testing in Week 26, June 26th, 2022. In July 2022 Boulder County Public Health reports that 60 mosquito pools were submitted to Colorado Department of Public Health and Environment (CDPHE) for WNV testing in July. 20 *Culex tarsalis* samples tested positive for West Nile virus on July 5th, 11th, 18th and 25th (Week 27 thru Week 30). Week 30 is typically a peak month for *Culex spp.* mosquitoes in Boulder County.

In comparison, CDPHE tested a total of 62 mosquito samples for Boulder County Public Health and seven (7) samples tested positive for West Nile virus in July 2021.

Adult mosquito abundance in Boulder County has exhibited average nuisance mosquito numbers and higher than average *Culex* numbers. By the end of July, of the 2,484 mosquitoes trapped, 59.9% were *Culex* in the City of Louisville. By comparison at the end of July 2021, a total of 2,625 mosquitoes were trapped in City of Louisville and 44.3% were *Culex spp.*

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.

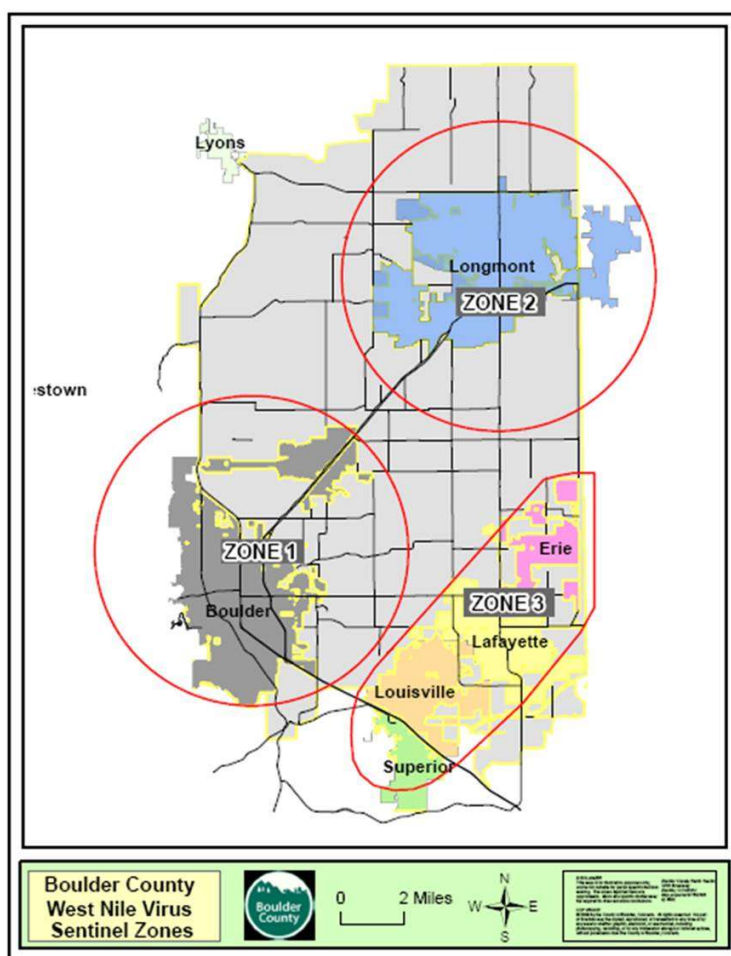
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

The Vector Index for all Boulder County Zones have exceeded the threshold of 0.75 in 2 out 3 zones every week in July, indicating a high risk of viral transmission to humans in July. This number is expected to stay high as conditions continue to remain warm and unconventionally humid with variable irrigation and monsoon thunderstorms creating standing water locations.

Boulder County Vector Index 2022 ¹			
	Sentinel Zone 1 ²	Sentinel Zone 2 ³	Sentinel Zone 3 ⁴
Season Week	Vector Index	Vector Index	Vector Index
Week 26 (June 26-July 2)	0.00	0.00	0.00
Week 27 (July 3-9)	0.93	0.49	0.30
Week 28 (July 10-16)	1.22	0.00	1.95
Week 29 (July 17-23)	2.79	0.97	3.52
Week 30 (July 24 -July 30)	0.86	0.20	1.41

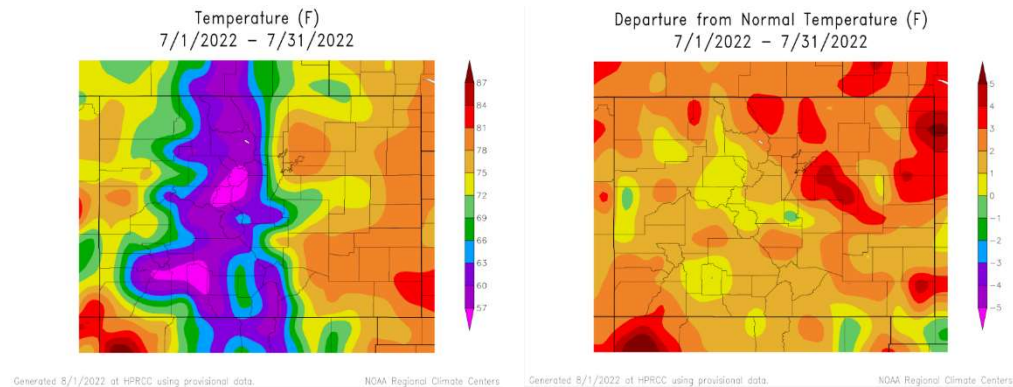
1. Reported by BCPH as of August 2nd, 2022

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

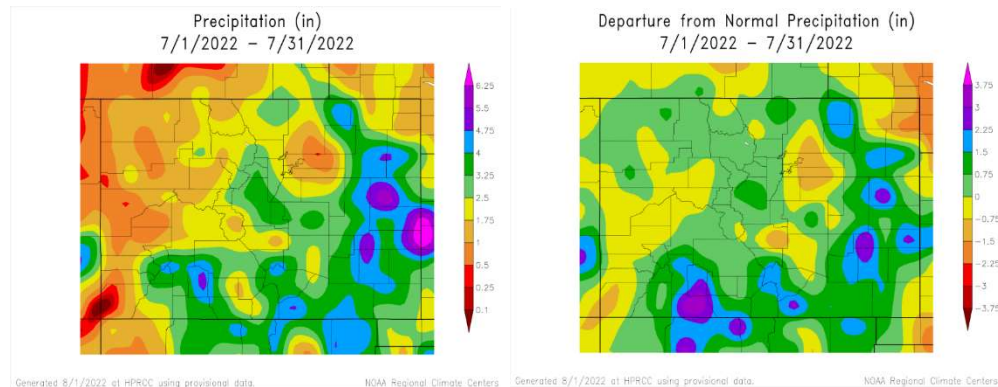


Weather

The High Plains Regional Climate Center recorded 74.9° F for the average temperature in Boulder County compared to the historical average of 72.6° F, with an average maximum temperature of 90.8° F for July 2022. A monthly maximum temperature of 100° F was recorded on July 19th.



The High Plains Regional Climate Center recorded 2.44 total inches of precipitation in Boulder County compared to the historical average of 1.80 inches of precipitation for the month of July. A daily maximum of 1.11 inches was recorded on July 28th. In comparison, July 2021 received 3.20 total inches of rain.



With higher than average temperatures and lower than average precipitation for most of July, many temporary standing water larval sites were dry or drying up. In the last week of July, the “monsoon” season arrived and dropped over a 1” of rain in one day. Other rain filled or flood irrigated sites became the main source of larval breeding habitat in residential neighborhoods and adjacent rural areas of the County.

Larval Control Operations

VDCI field technicians performed 60 site inspections as part of the inspection and larviciding program in the City of Louisville. Of the 60 sites inspected, 35 were wet (58.3%) and 17 (28.3%) sites were producing mosquito larvae. 0.2 acres were treated with larvicides.

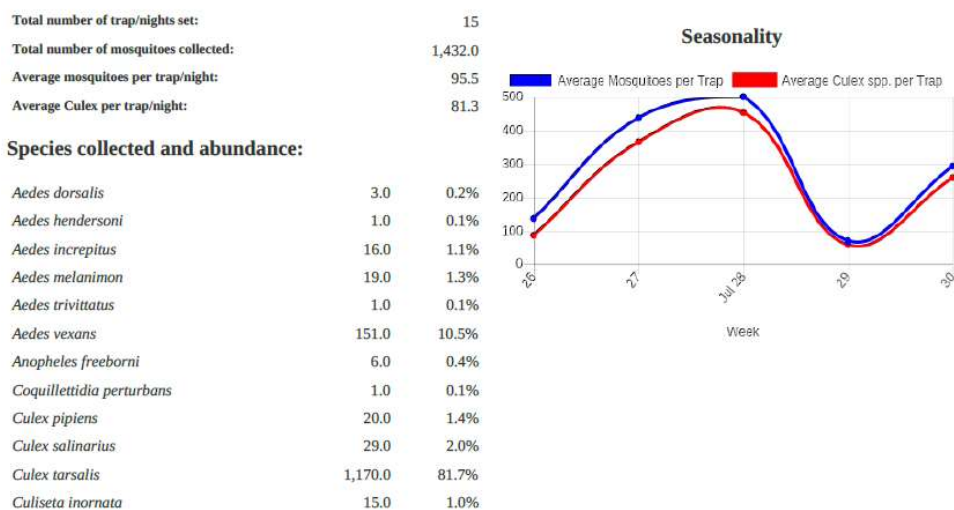
In July 2021, VDCI field technicians performed 104 site inspections in the City of Louisville. Of the 104 inspections, 74 were wet (71.2%) and 27 (26.0%) sites were producing mosquito larvae. 1.9 acres were treated with larvicides.

Adult Mosquito Population Surveillance

There were 12 light traps set in City of Louisville during July 2022 that collected a total of 1,432 mosquitoes. Of these, there were 191 (13.3%) *Aedes* spp., 6 (0.4%) *Anopheles* spp., 1 (0.1%) *Coquillettidia* spp., 1,219 (85.1%) *Culex* spp. and 15 (1.0%) *Culiseta* spp. mosquitoes collected. On average 95.5 mosquitoes per trap night and 81.3 *Culex* mosquitoes per trap night.

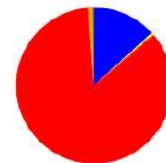
12 mosquito surveillance traps set in July 2021, in the City of Louisville, collected a total of 2,041 mosquitoes. Of these, there were 956 (46.8%) *Aedes* spp., 8 (0.4%) *Anopheles* spp., 1 (0.0%) *Coquillettidia* spp., 1,051 (51.5%) *Culex* spp. and 25 (1.2%) *Culiseta* spp. mosquitoes collected. On average 170.1 mosquitoes per trap night and 87.6 *Culex* mosquitoes per trap night.

2022 City of Louisville Trap Composite Data



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	191	13.3%
<i>Anopheles</i>	6	0.4%
<i>Culex</i>	1,219	85.1%
<i>Culiseta</i>	15	1.0%
Other	1	0.1%



■ *Aedes-Oc*
■ *Anopheles*
■ *Culex*
■ *Culiseta*
■ Other

Adult Mosquito Control Operations

During the month of July 2022, 42.0 gallons of Wisdom TC mosquito adulticide barrier were applied via daytime backpack to 3 adult control locations on July 14th and July 21st.

In July 2021, 84.0 gallons of Wisdom TC mosquito adulticide barrier was applied via daytime backpack 3 adult control locations on July 8th, 15th, 22nd and July 29th.

Public Relations

VDCI received no phone calls from Louisville residents in July 2022.