



CITY OF LOUISVILLE

JUNE 2021 MONTHLY REPORT

JULY 13TH, 2021

West Nile Virus Risk

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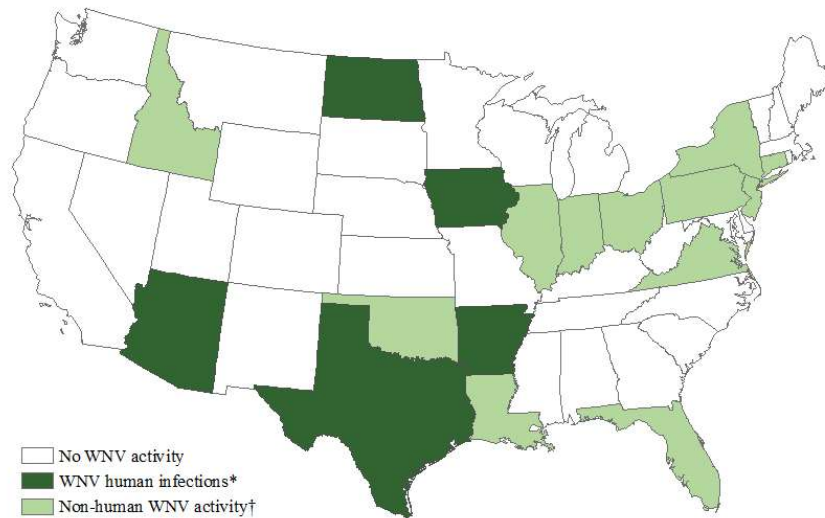
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The Colorado Department of Public Health & Environment (CDPHE) began testing mosquito samples in Disease Week 24 (June 13th). As of July 13th, there has only been one report of West Nile virus positive mosquitoes in the state of Colorado in Weld County.

As of June 13th, the Centers for Disease Control and Prevention (CDC) currently reports 11 human West Nile virus infections in five (5) states and one (1) death. Non-human West Nile virus activity (mosquitoes, birds, sentinel or veterinary animals) has been reported in fourteen (14) states. While West Nile virus activity remains low, and we only have one documented account of viral activity in Colorado, we are likely to see increased disease risk as the summer progresses and encourage personal protective measures including draining water from your property, avoiding the outdoors at dawn and dusk, defending yourself by wearing repellent and dressing appropriately.

West Nile Virus Activity by State – United States, 2021 (as of July 13, 2021)



*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.

To date Boulder County Public Health (BCPH) reports that 23 WNV pools were submitted for testing by the Colorado Department of Public Health and Environment (CDPHE) in Weeks 26 and 27, and all tested negative.

By comparison, in June 2020 BCPH submitted a total of 8 WNV pools for testing, through Week 27, and all were negative. Adult mosquito abundance in Boulder County has exhibited higher-than-average nuisance mosquito numbers and higher than average *Culex* numbers. Of the 1,794 mosquitoes trapped in the City to date, 36.3% were *Culex* compared to 19.2% last year.

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.

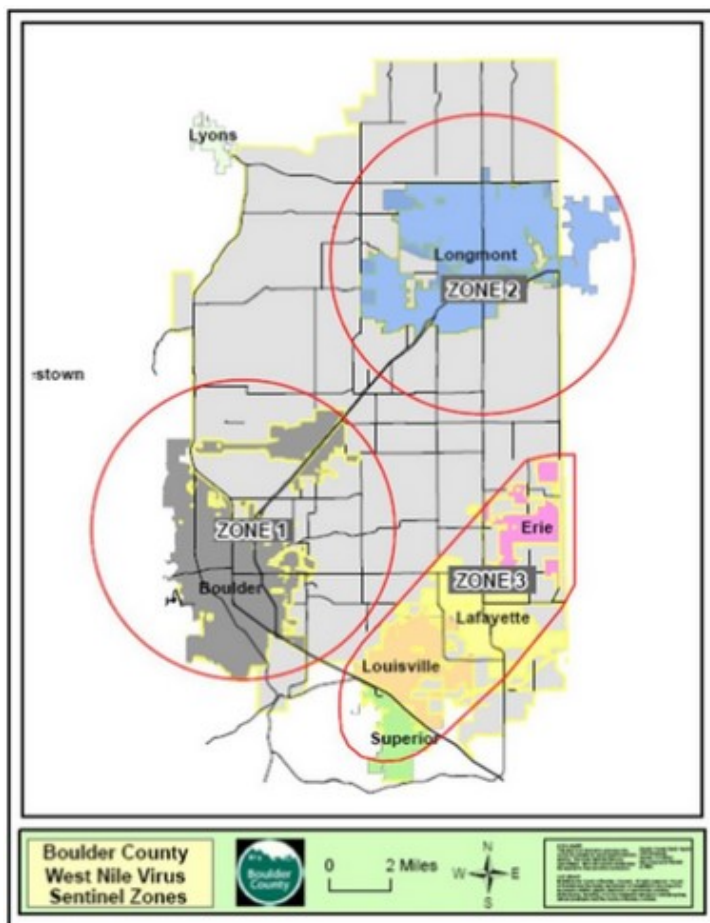
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

The Vector Index for all Boulder County Zones is currently at zero indicating low risk of viral transmission to humans although this number is expected to rise as temperatures remain high and very dry conditions persist.

Boulder County Vector Index 2021 ¹			
	Sentinel Zone 1 ²	Sentinel Zone 2 ³	Sentinel Zone 3 ⁴
Season Week	Vector Index	Vector Index	Vector Index
Week 25 (June 13-19)	----	----	----
Week 26 (June 21-26)	0.00	0.00	0.00
Week 27 (June 27-July 3)	0.00	0.00	0.00

1. Reported by BCPH as of July 13, 2021

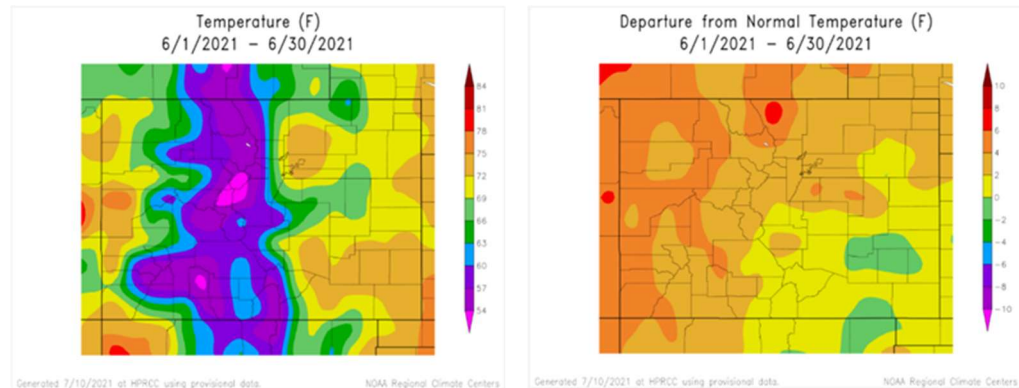
2. Boulder County; 3. Longmont; 4. Erie, Lafayette, Louisville, Superior



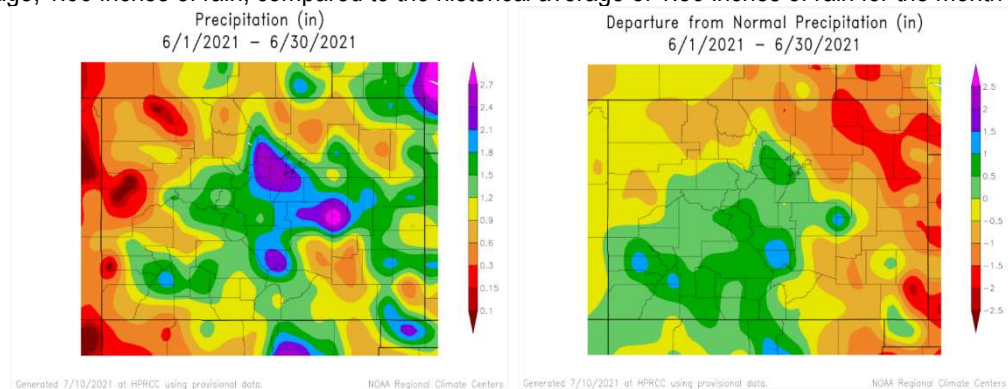
Weather

VDCI began field inspections throughout Boulder County in late May with temperatures below average (55.3 °F compared to 57.3 °F) and precipitation above average (5.75" compared to 3.09") unlike last year. VDCI field technicians focused larval site inspections on larger rain filled water bodies and mandatory sites known to produce larvae in the early season.

According to the High Plains Regional Climate Center the average temperature in Boulder County was 69.4° F during the month of June, compared to the historical average of 66.8° F.



According to the High Plains Regional Climate Center precipitation in Boulder County was slightly above average, 1.99 inches of rain, compared to the historical average of 1.86 inches of rain for the month of June.



Larval Control Operations

VDCI field technicians performed 149 site inspections as part of the inspection and larviciding program in the City of Louisville. Of the 149 sites inspected, 131 were wet (87.9%) and 23 (15.4%) sites were producing mosquito larvae. 6.1 acres were treated with larvicides.

In June 2020, VDCI field technicians performed 166 site inspections in the City of Louisville. Of the 166 inspections, 111 (66.9%) sites were wet and 17 (10.2%) sites were producing mosquito larvae. 1.1 acres were treated with larvicides.

Adult Mosquito Population Surveillance

There were 15 light traps set in City of Louisville during June 2021 that collected a total of 535 mosquitoes. Of these, there were 395 (73.8%) *Aedes* spp., 1 (0.2%) *Anopheles* spp., 110 (20.6%) *Culex* spp. and 29 (5.4%) *Culiseta* spp. mosquitoes collected. On average there were 35.7 mosquitoes collected per trap night and 7.3 *Culex* mosquitoes per trap night.

15 mosquito surveillance traps set in June 2020, in the City of Louisville, collected a total of 3002 mosquitoes. Of these there were 2,825 (94.1%) *Aedes* spp., 0 (0.0%) *Anopheles* spp., 162 (5.4%) *Culex* spp. and 15 (0.5%) *Culiseta* spp. mosquitoes collected. On average there were 200.1 mosquitoes collected per trap night and 10.8 *Culex* mosquitoes per trap night.

2021 City of Louisville Trap Composite Data

Total number of trap/nights set:

15

Total number of mosquitoes collected:

535.0

Average mosquitoes per trap/night:

35.7

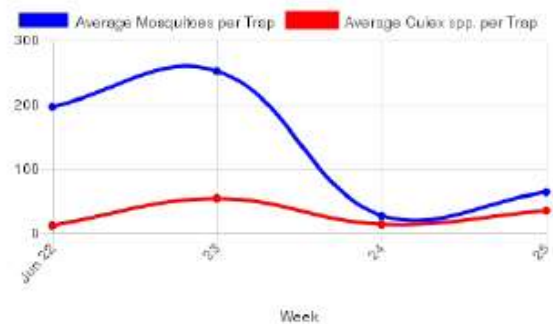
Average *Culex* per trap/night:

7.3

Species collected and abundance:

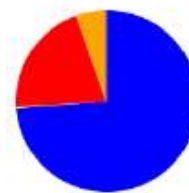
<i>Aedes dorsalis</i>	3.0	0.6%
<i>Aedes increpitus</i>	110.0	20.6%
<i>Aedes melanimon</i>	11.0	2.1%
<i>Aedes vexans</i>	271.0	50.7%
<i>Anopheles freeborni</i>	1.0	0.2%
<i>Culex pipiens</i>	10.0	1.9%
<i>Culex tarsalis</i>	100.0	18.7%
<i>Culiseta inornata</i>	29.0	5.4%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	395	73.8%
<i>Anopheles</i>	1	0.2%
<i>Culex</i>	110	20.6%
<i>Culiseta</i>	29	5.4%
Other	0	0.0%



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

Adult Mosquito Control Operations

During the month of June 2021, 4.0 gallons of Wisdom TC mosquito adulticide barrier were applied via daytime backpack to one adult control location on June 17th.

In comparison, 58.0 gallons of Talstar Pro mosquito adulticide barrier were applied via daytime backpack to three adult control locations on June 5th, June 12th and June 25th, 2020.



Ground Adulticide Applications

Start Date: 06/01/2021 End Date: 06/30/2021

City of Louisville

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
LO Annette Brand Park - Barrier Applications								
June 2021	06/17/2021		Wisdom TC (5481-520)	1:128	0.0	0.0	0.1	4.0
Total Wisdom TC Applied:								4.0
LO Annette Brand Park - Barrier Totals:					0.0	0.0	0.1	4.0
Grand Totals:					0.0	0.0	0.1	4.0

Public Relations

VDCI received two phone calls from City of Louisville residents in June 2021. There was one mosquito annoyance call received from residents wanting to know when adult mosquito control operations would begin. Residents were informed of the City's policy for adult control and associated action thresholds. There was one report of standing water which was inspected for potential larval production habitat and treated as necessary and no callers requested additional information.