



CITY OF LOUISVILLE

JULY 2020 MONTHLY REPORT

AUGUST 10TH, 2020

West Nile Virus Risk

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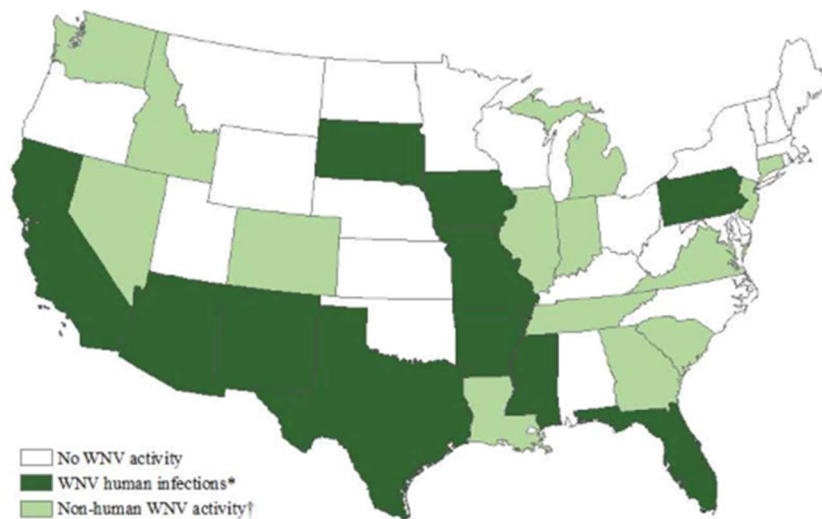
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The Colorado Department of Public Health & Environment (CDPHE) began testing mosquito samples in Disease Week 25 (June 14th). As of August 10th, there have been West Nile virus positive mosquitoes in the Colorado counties of Delta, Larimer and Weld.

The Centers for Disease Control and Prevention (CDC) currently reports 17 human West Nile virus infections in 11 states and zero deaths. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in 19 states. While West Nile virus activity remains relatively low, we are likely to see increased disease risk as the summer continues 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, 2020 (as of July 28, 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.

In July 2020 Boulder County Public Health (BCPH) reports that 63 mosquito pools were submitted to Colorado Department of Public Health and Environment (CDPHE) for WNV testing for July. All *Culex pipiens* and *Cx. tarsalis* samples tested negative for West Nile virus.

By comparison, in July 2019, CDPHE tested a total of 118 mosquito samples with all testing negative for West Nile virus.

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

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.

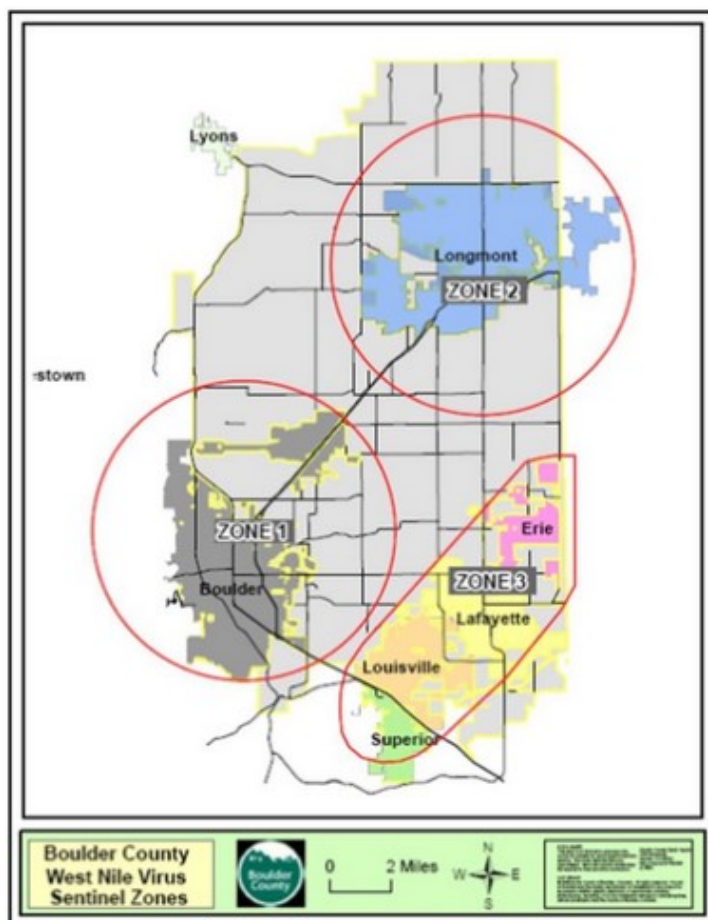
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

The Vector Index for all Boulder County Zones remained at zero indicating low risk of viral transmission to humans in July, although this number is expected to rise as conditions continue to remain hot and dry.

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

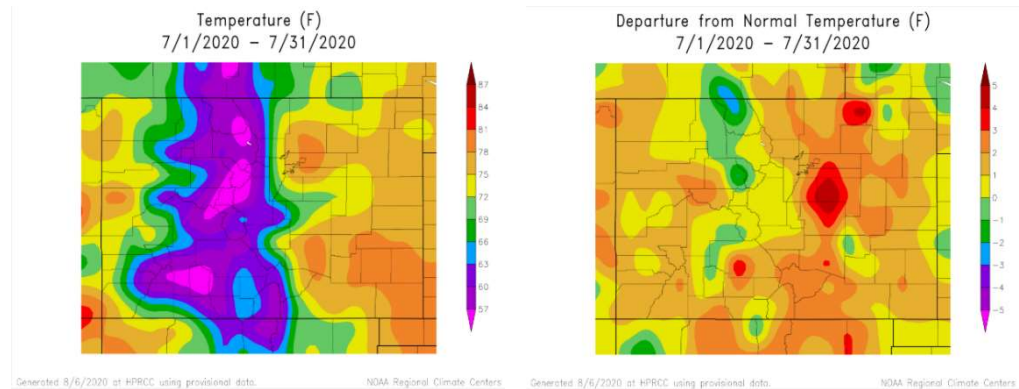
1. Reported by BCPH as of August 3, 2020

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

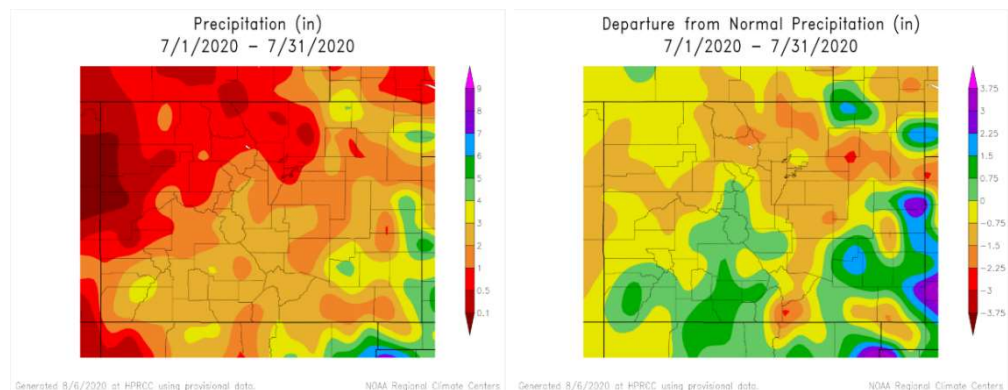


Weather

The High Plains Regional Climate Center recorded 73.8° F for the average temperature in Boulder County compared to the historical average of 72.5° F, with an average temperature of 89.7° F for July 2020. A monthly high of 100° F was recorded on July 18th.



The High Plains Regional Climate Center recorded 0.34 inches of precipitation in Boulder County compared to the historical average of 1.79 inches of precipitation for the month of July.



With higher than average temperatures and extremely low precipitation, many larval sites are drying up while stagnant and flood water irrigation became the main source of larval breeding habitat throughout most of the County in July.

Larval Control Operations

VDCI field technicians performed 99 site inspections as part of the inspection and larviciding program in the City of Louisville. Of the 99 sites inspected, 43 were wet (43.4%) and 9 (9.1%) sites were producing mosquito larvae. 0.2 acres were treated with larvicides.

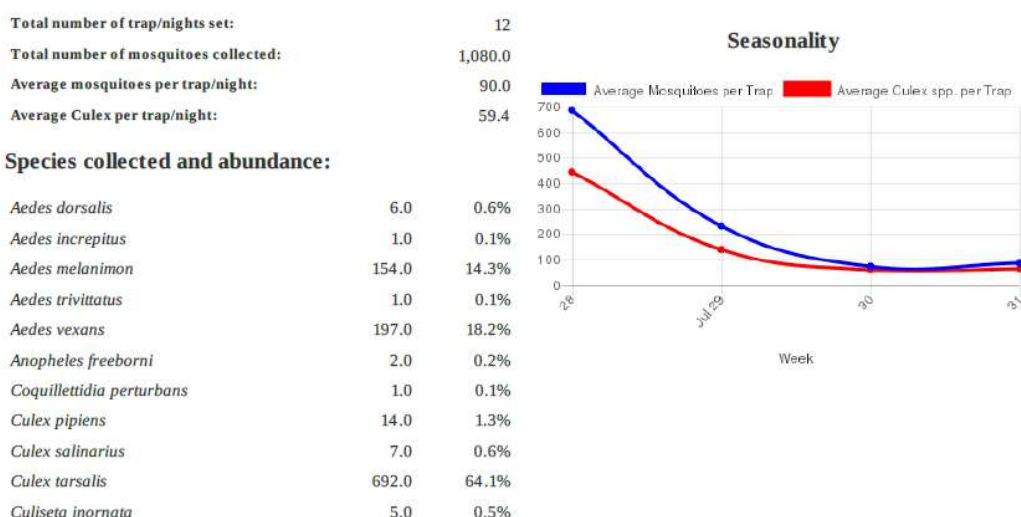
In July 2019, VDCI field technicians performed 63 site inspections in the City of Louisville. Of the 63 inspections, 52 (82.5%) sites were wet and 8 (15.4%) sites were producing mosquito larvae. 0.98 acres were treated with larvicides.

Adult Mosquito Population Surveillance

There were 12 light traps set in City of Louisville during July 2020 that collected a total of 1,080 mosquitoes. Of these, there were 359 (33.2%) *Aedes* spp., 2 (0.2%) *Anopheles* spp., 1 (0.1%) *Coquillettidia* spp., 713 (66.0%) *Culex* spp. and 5 (0.5%) *Culiseta* spp. mosquitoes collected. There was an average of 90.0 mosquitoes per trap night and 59.4 *Culex* mosquitoes per trap night in July of 2020.

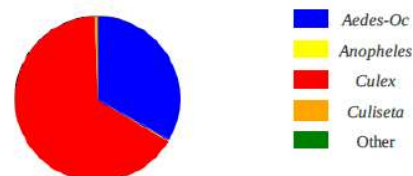
16 mosquito surveillance traps set in July 2019, in the City of Louisville, collected a total of 2,479 mosquitoes. Of these there were 1,315 (53.0%) *Aedes* spp., 1 (0.0%) *Anopheles* spp., 2 (0.1%) *Coquillettidia* spp., 1,106 (44.6%) *Culex* spp. and 55 (2.2%) *Culiseta* spp. mosquitoes collected. There was an average of 154.9 mosquitoes per trap night and 69.1 *Culex* mosquitoes per trap night in July of 2019.

2020 City of Louisville Trap Composite Data



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	359	33.2%
<i>Anopheles</i>	2	0.2%
<i>Culex</i>	713	66.0%
<i>Culiseta</i>	5	0.5%
Other	1	0.1%



Adult Mosquito Control Operations

During the month of July 2020, 54.0 gallons of Talstar Pro mosquito adulticide barrier were applied via daytime backpack to two (2) adult control locations on July 2nd, 9th and July 16th.

In July 2019, 12.0 gallons of Talstar Pro mosquito adulticide barrier was applied via daytime backpack to five (5) adult control locations on July 3rd and July 12th.



Ground Adulticide Applications

Start Date: 07/01/2020 End Date: 07/31/2020

City of Louisville

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
Coal Creek @ Aspen Way Applications								
July 2020	07/02/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.4	16.0
	07/09/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.4	18.0
Total Talstar Pro Applied:								34.0
Coal Creek @ Dillon Rd Applications								
July 2020	07/09/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.2	10.0
	07/16/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.2	10.0
Total Talstar Pro Applied:								20.0
Coal Creek @ Dillon Rd Totals:					0.0	0.0	1.2	54.0
Grand Totals:					0.0	0.0	1.2	54.0

Vector Disease Control International
7230 W 118th Pl. Unit E
Broomfield, CO 80020

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Public Relations

VDCI did not receive any phone calls from a City of Louisville resident in July 2020.