

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.

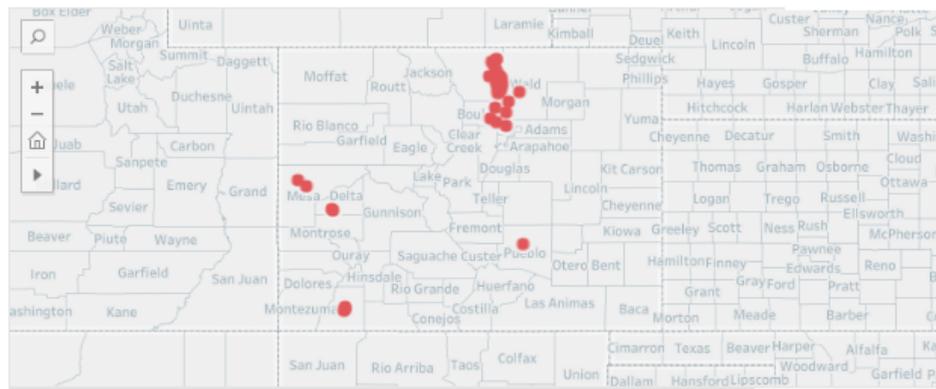
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

Positive Mosquito Data by Year

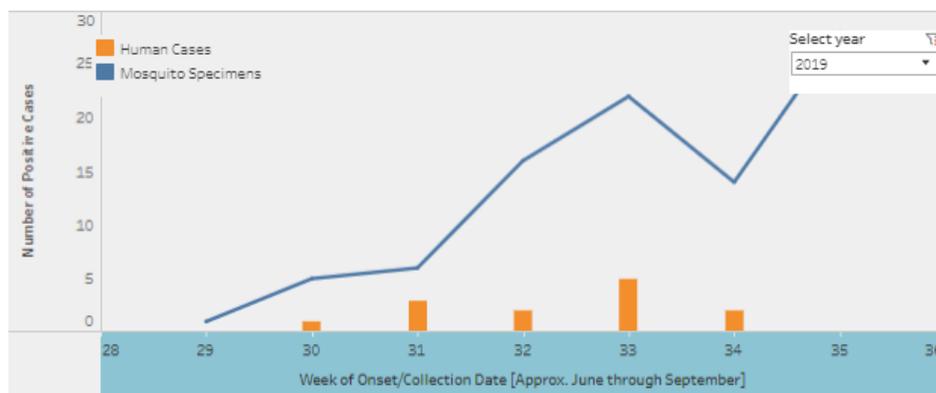
Positive mosquito specimens, 2019

Select year

2019



Year: 2019



In August 2019 Boulder County Public Health (BCPH) reports that 79 mosquito pools were submitted to Colorado Department of Public Health and Environment (CDPHE) for WNV testing for August, containing 4,977 mosquitoes. These samples consisted of 4,875 *Cx. tarsalis* and 102 *Cx. pipiens* collected from the Longmont, Erie, Lafayette, Louisville, Superior and City of Boulder areas. Eight mosquito samples tested positive for West Nile virus. Two mosquito pools from the City of Boulder, four mosquito pools from Longmont and two pools from the Erie, Lafayette, Louisville and Superior sentinel zones.

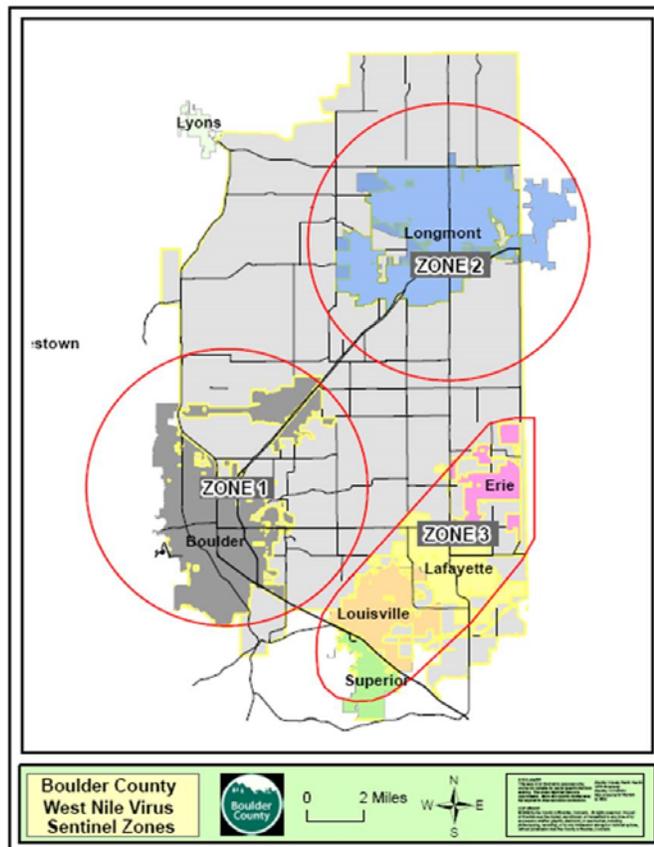
The Vector Index for all three Boulder County Sentinel Zones were low, indicating low to moderate risk of viral transmission to humans in August, except in week 33 when the City of Longmont Zone 2 Vector Index reached 0.71 indicating a high risk of transmission to humans.

By comparison, in August 2018, CDPHE tested a total of 55 mosquito samples with seven testing positive for West Nile virus. One mosquito pool from the City of Boulder, three mosquito pools from Longmont and three pools from the Erie, Lafayette, Louisville and Superior sentinel zones.

Boulder County Vector Index 2019 ¹			
	Sentinel Zone 1 ²	Sentinel Zone 2 ³	Sentinel Zone 3 ⁴
Season Week	Vector Index	Vector Index	Vector Index
Week 23 (June 2-8)	----	----	----
Week 24 (June 9-15)	0.00	0.00	0.00
Week 25 (June 16-22)	0.00	0.00	0.00
Week 26 (June 23-29)	0.00	0.00	0.00
Week 27 (June 30-July 6)	0.00	0.00	0.00
Week 28 (July 7-13)	0.00	0.00	0.00
Week 29 (July 14-20)	0.00	0.00	0.00
Week 30 (July 21-27)	0.00	0.00	0.00
Week 31 (July 28 -Aug 3)	0.00	0.00	0.00
Week 32 (August 4-10)	0.00	0.32	0.00
Week 33 (August 11-17)	0.23	0.71	0.00
Week 34 (August 18-24)	0.24	0.00	0.27
Week 35 (August 25-31)	0.00	0.30	0.20

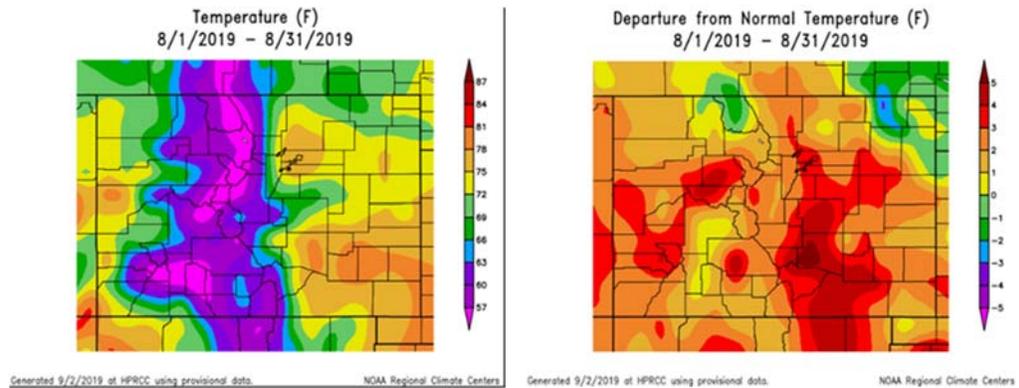
1. Reported by BCPH as of August 30, 2019

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

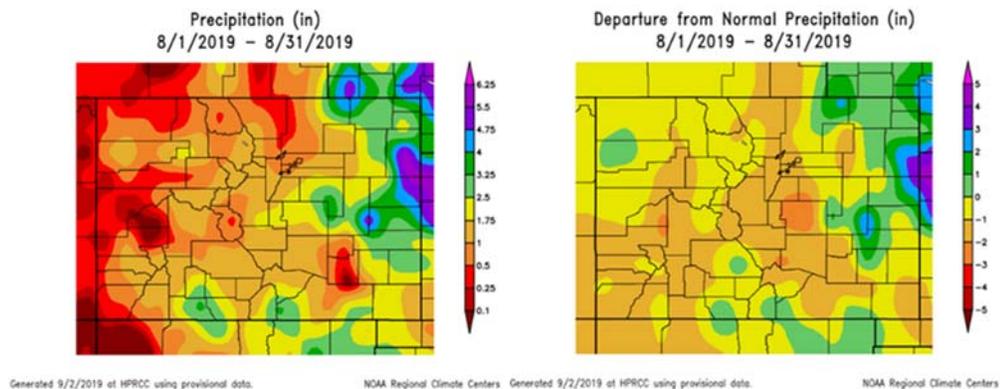


Weather

The High Plains Regional Climate Center recorded 73.8° F for the average temperature in Boulder County compared to the historical average of 71.1° F, with an average max temperature of 89.8° F during the month of August. A monthly high of 98° F was recorded on August 20th.



The High Plains Regional Climate Center recorded 0.10 inches of precipitation in Boulder County compared to the historical average of 1.54 inches of precipitation for the month of August.



With higher than normal temperatures and almost no precipitation, stagnant water and irrigated sites were the abundant mosquito breeding habitats throughout most of the County in August.

Larval Control Operations

VDCI field technicians performed 61 site inspections as part of the inspection and larviciding program in the City of Louisville. Of the 61 sites inspected, 41 were wet (67.2%) and 20 (48.8%) sites were producing mosquito larvae. 2.5 acres were treated with larvicides.

In August 2018, VDCI field technicians performed 88 site inspections in the City of Louisville. Of the 88 inspections, 65 (73.9%) sites were wet and 21 (32.3%) sites were producing mosquito larvae. 2.0 acres were treated with larvicides.

Adult Mosquito Population Surveillance

There were 12 light traps set in City of Louisville during August 2019 that collected a total of 823 mosquitoes. Of these, there were 109 (13.2%) *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.

12 mosquito surveillance traps set in August 2018, in the City of Louisville, collected a total of 648 mosquitoes. Of these there were 292 (45.1%) *Aedes* spp., 3 (0.5%) *Anopheles* spp., 342 (52.8%) *Culex* spp. and 11 (1.7%) *Culiseta* spp. mosquitoes collected. There was an average of 54 mosquitoes per trap night and 28 *Culex* mosquitoes per trap night in August of 2018.

2019 City of Louisville Trap Composite Data

Total number of trap/nights set:	12
Total number of mosquitoes collected:	823.0
Average mosquitoes per trap/night:	68.6
Average Culex per trap/night:	57.8

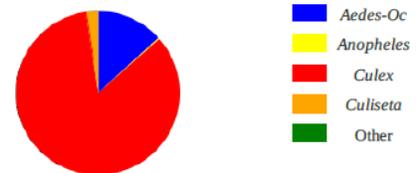
Species collected and abundance:

<i>Aedes dorsalis</i>	3.0	0.4%
<i>Aedes melanimon</i>	6.0	0.7%
<i>Aedes nigromaculis</i>	1.0	0.1%
<i>Aedes trivittatus</i>	1.0	0.1%
<i>Aedes vexans</i>	98.0	11.9%
<i>Anopheles freeborni</i>	2.0	0.2%
<i>Culex pipiens</i>	109.0	13.2%
<i>Culex salinarius</i>	10.0	1.2%
<i>Culex tarsalis</i>	574.0	69.7%
<i>Culiseta inornata</i>	19.0	2.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	109	13.2%
<i>Anopheles</i>	2	0.2%
<i>Culex</i>	693	84.2%
<i>Culiseta</i>	19	2.3%
Other	0	0.0%



Adult Mosquito Control Operations

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

In August 2018, 26.0 gallons of Talstar Pro mosquito adulticide barrier was applied via daytime backpack to three adult control locations on August 3rd and 10th.



Ground Adulticide Applications

Start Date: 08/01/2019 End Date: 08/31/2019

City of Louisville

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
Annette Brand Park Applications								
August 2019	08/02/2019		Talstar Pro (279-3206)	1:128	0.0	0.0	0.1	4.0
<i>Total Talstar Pro Applied:</i>								<i>4.0</i>
Coal Creek @ Aspen Way Applications								
August 2019	08/02/2019		Talstar Pro (279-3206)	1:128	0.0	0.0	0.3	14.0
	08/16/2019		Talstar Pro (279-3206)	1:128	0.0	0.0	0.4	18.0
<i>Total Talstar Pro Applied:</i>								<i>32.0</i>
Coal Creek @ Dillon Way Applications								
August 2019	08/02/2019		Talstar Pro (279-3206)	1:128	0.0	0.0	0.2	8.0
	08/16/2019		Talstar Pro (279-3206)	1:128	0.0	0.0	0.2	10.0
<i>Total Talstar Pro Applied:</i>								<i>18.0</i>
Grand Totals:					0.0	0.0	1.2	54.0

Vector Disease Control International
2770 Industrial Lane
Broomfield, CO 80020

Public Relations

VDCI received no phone calls from City of Louisville residents in August 2019 reporting standing water or mosquito annoyance. VDCI received no submissions from residents requesting to be placed on VDCI's shut off/spray notification list (requests entered in VDCI's new database). No callers requested additional information.