



CITY OF LOUISVILLE

JUNE 2019 MONTHLY REPORT

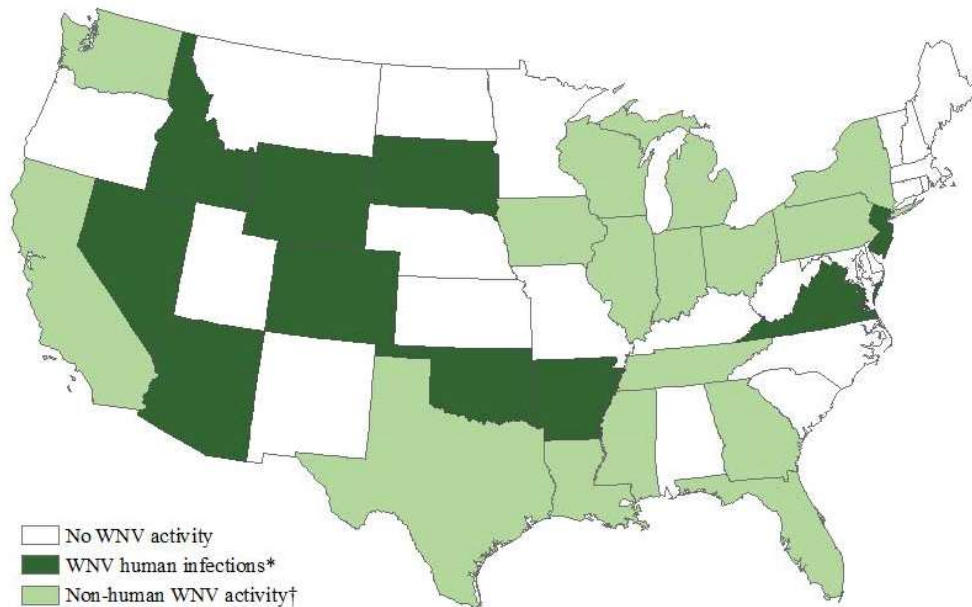
JULY 15TH, 2019

West Nile Virus Risk

The Colorado Department of Public Health & Environment (CDPHE) began testing mosquito samples in Disease Week 24 (June 14th). As of July 12th there have been no reports of West Nile virus positive mosquitoes in the state of Colorado.

As of July 9th, the Centers for Disease Control and Prevention (CDC) currently reports 39 human West Nile virus infections in ten (10) states and one death in Arkansas. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in seventeen (17) states. While West Nile virus activity remains relatively low, and while there is only one reported human case 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, 2019 (as of July 9, 2019)



To date Boulder County Public Health (BCPH) reports that 30 WNV pools were submitted for testing in Week 24 through Week 28, and all were negative. Adult mosquito abundance in Boulder County is exhibiting higher-than-average nuisance mosquito numbers and lower than average *Culex* numbers. To date in the City of Louisville, of the 1,550 mosquitoes trapped only 9.6% were *Culex*. Mosquito abundance is below average in City of Louisville this year.

Contact VDCI:

Boulder County
Operations Manager

Mel Kyer

Phone
303-466-1892

E-Mail:
mkyer@vdc.net

Website:

www.vdc.net/colorado

Main Office:

General E-Mail:
info@vdc.net
Toll Free:
(877) 276-4306

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.

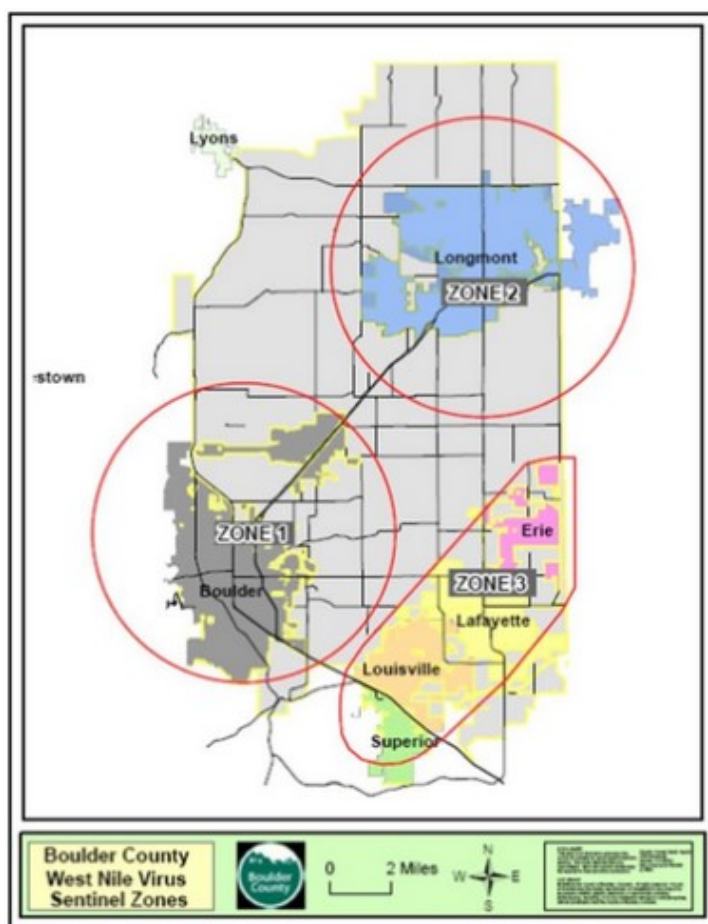
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

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 temperature continue to increase.

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

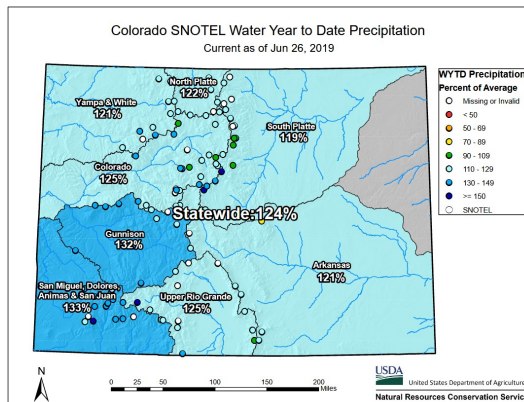
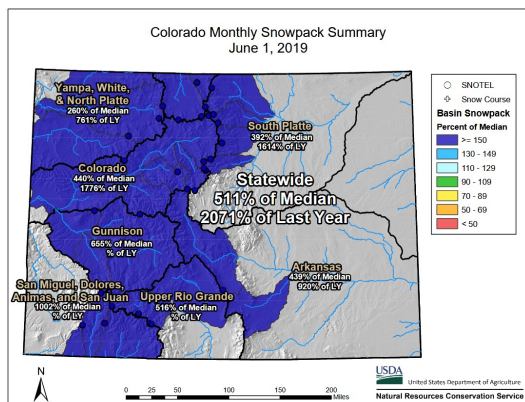
1. Reported by BCPH as of July 12, 2019

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

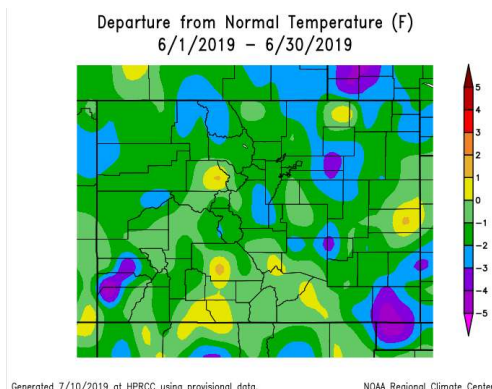
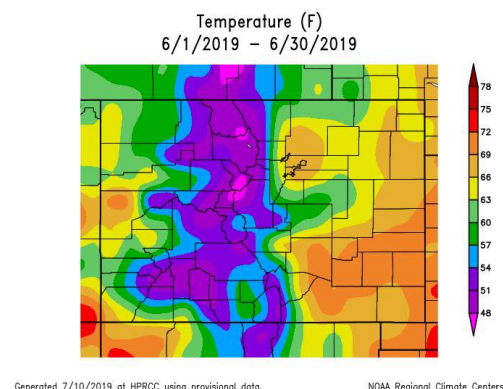


Weather

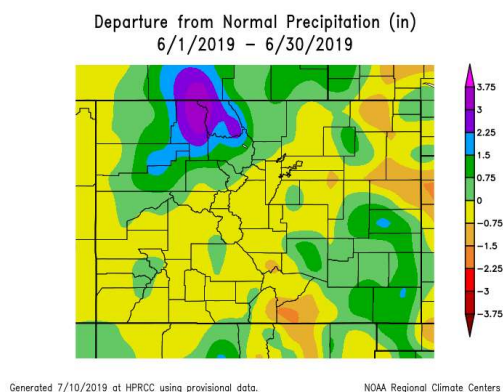
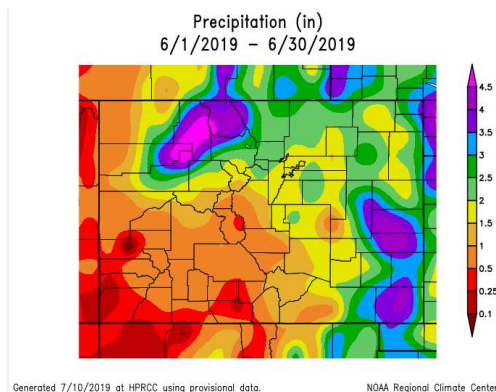
VDCI began field inspections throughout Boulder County in May although rain and cooler temperatures persisted late into the spring. Snowpack levels were far above average across most of the state and as of June 1st Colorado was 511% of the median for normal snowpack, with much of the snow still not melted as of July 1st. As of June 1st monthly precipitation in every major water shed was 124% above normal with the South Platte River reaching 119% of its monthly average. *Culex* obtained from larval sites has remained low as a percentage of all mosquitoes collected. In the early season months VDCI field technicians focused larval site inspections on larger water bodies and sites known to produce larvae in the early season.



According to the High Plains Regional Climate Center the average temperature in Boulder County was 64.6° F during the month of June, compared to the historical average of 66.7° F.



According to the High Plains Regional Climate Center precipitation in Boulder County was above average, 2.12 inches of rain, compared to the historical average of 1.85 inches of rain for the month of June. With lower temperatures on average and higher precipitation throughout most of the County, VDCI observed lower than average trap counts and higher larvae production.



Larval Control Operations

VDCI field technicians performed 63 site inspections as part of the inspection and larviciding program in the City of Louisville. Of the 63 sites inspected, 52 were wet (82.5%) and 8 (15.4%) sites were producing mosquito larvae. 0.98 acres were treated with larvicides.

In June 2018, VDCI field technicians performed 67 site inspections in the City of Louisville. Of the 67 inspections, 55 (82.0%) sites were wet and 27 (49.0%) sites were producing mosquito larvae. 1.6 acres were treated with larvicides.

Adult Mosquito Population Surveillance

There were 12 light traps set in City of Louisville during June 2019 that collected a total of 330 mosquitoes. Of these, there were 306 (92.7%) *Aedes* spp., 0 (0.0%) *Anopheles* spp., 10 (3.0%) *Culex* spp. and 14 (4.2%) *Culiseta* spp. mosquitoes collected. There was an average of 27.5 mosquitoes per trap night and .08 *Culex* mosquitoes per trap night in June of 2019.

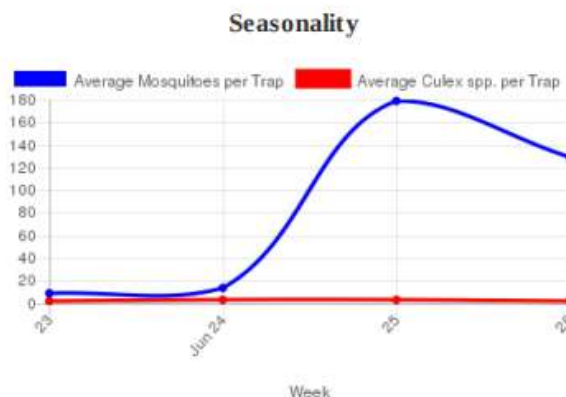
12 mosquito surveillance traps set in June 2018, in the City of Louisville, collected a total of 576 mosquitoes. Of these there were 437 (75.9%) *Aedes* spp., 4 (0.7%) *Anopheles* spp., 114 (19.8%) *Culex* spp. and 21 (3.6%) *Culiseta* spp. mosquitoes collected. There was an average of 48 mosquitoes per trap night and 10 *Culex* mosquitoes per trap night in June of 2018.

2019 City of Louisville Trap Composite Data

Total number of trap/nights set: 12
 Total number of mosquitoes collected: 330.0
 Average mosquitoes per trap/night: 27.5
 Average Culex per trap/night: 0.8

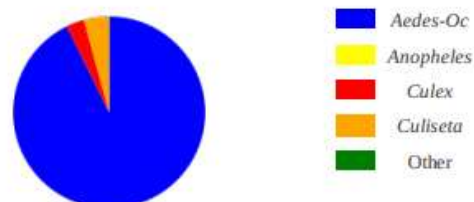
Species collected and abundance:

<i>Aedes increpitus</i>	32.0	9.7%
<i>Aedes melanimon</i>	127.0	38.5%
<i>Aedes nigromaculis</i>	1.0	0.3%
<i>Aedes trivittatus</i>	2.0	0.6%
<i>Aedes vexans</i>	144.0	43.6%
<i>Culex pipiens</i>	1.0	0.3%
<i>Culex tarsalis</i>	9.0	2.7%
<i>Culiseta inornata</i>	14.0	4.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	306	92.7%
<i>Anopheles</i>	0	0.0%
<i>Culex</i>	10	3.0%
<i>Culiseta</i>	14	4.2%
Other	0	0.0%



Adult Mosquito Control Operations

No adult mosquito control operations were performed in June 2019.

In June 2018, 8.0 gallons of Talstar Pro mosquito adulticide barrier was applied via daytime backpack to one adult control location on June 8th.

Public Relations

VDCI received one (1) phone call from a City of Louisville resident in June 2019 reporting standing water. There were no mosquito annoyance calls received from residents. VDCI received 6 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.