



CITY OF LOVELAND JULY 2020 MONTHLY REPORT

AUGUST 1ST, 2020

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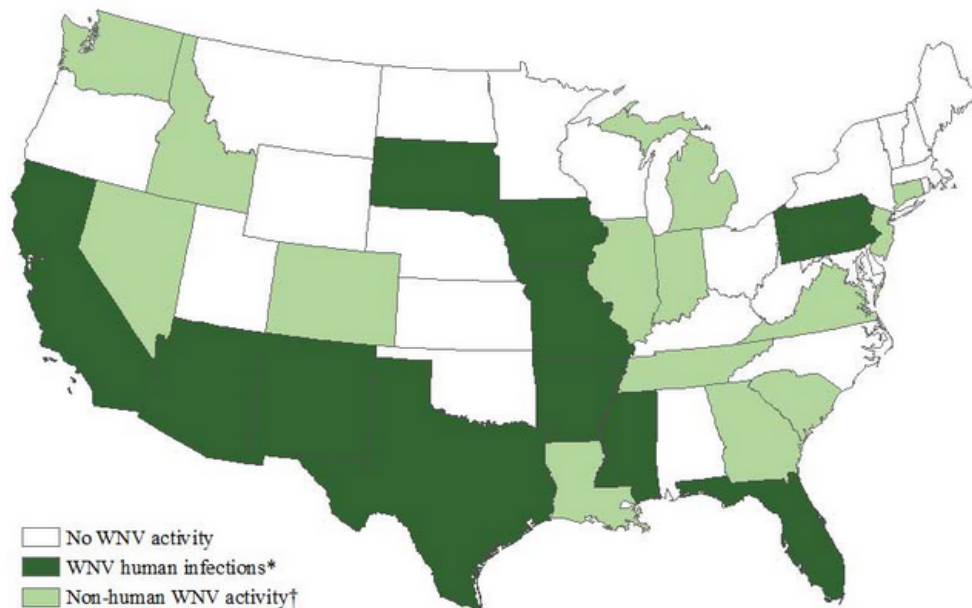
West Nile Virus Risk

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 24 (June 13th). As of August 1st there have been positive mosquitoes found in Delta and Larimer County.

The Centers for Disease Control and Prevention most currently reports human West Nile virus infections in eleven states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in nineteen states. While West Nile virus activity remains relatively low, but 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 2020

West Nile Virus Activity by State – United States, 2020 (as of July 28, 2020)



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.

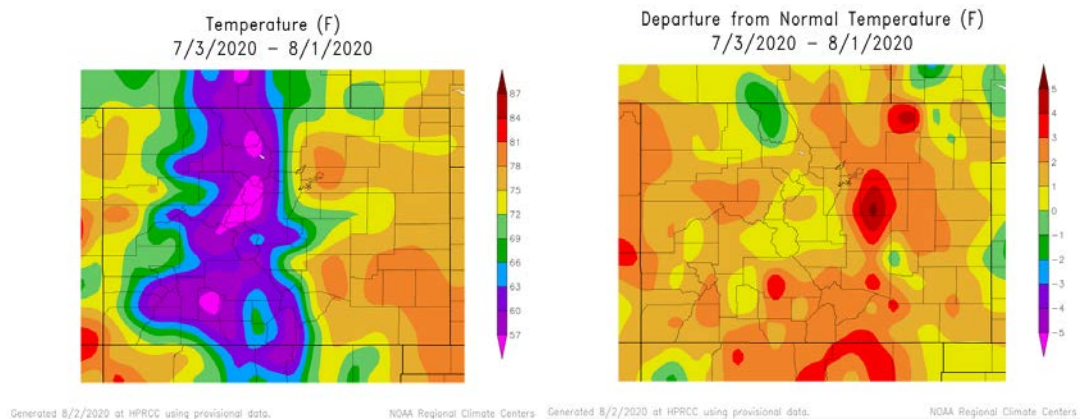
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

In July 2020 Colorado State University (CSU) tested a total of 486 mosquito samples containing 9,624 mosquitoes. These samples consisted of 5,576 *Cx. tarsalis* and 4,048 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas. A total of 3 samples tested positive for West Nile Virus, with 2 samples from Fort Collins and 1 from Berthoud.

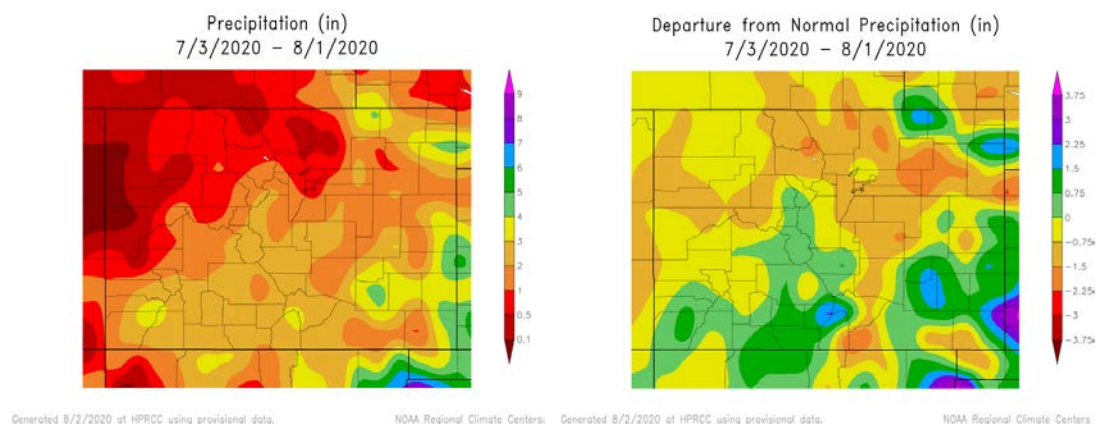
By comparison, In July 2019 Colorado State University (CSU) tested a total of 500 mosquito samples containing 14,155 mosquitoes. These samples consisted of 12,890 *Cx. tarsalis* and 1,265 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas. A total of 6 samples tested positive for West Nile Virus, with 4 samples from Fort Collins and 2 from Loveland

Weather

The average temperature in Larimer County was 74.8 °F, with the average minimum temperature at 66.4 °F and the average max temperature at 81.2 °F during the month of July. A monthly high of 101 °F was seen on July 10th.



Precipitation in Larimer County during July 2020 was below average, as the season has progressed, more and more larval habitats have begun to dry out.



Larval Control Operations

In July of 2020, VDCI field technicians performed 1,567 site inspections as part of the inspection and larviciding program for the City of Loveland. Of those 1,567 site inspections, 1,181 (75.4%) of those were wet and 677 (57.3%) wet sites were producing mosquito larvae. A total of 580.1 acres of land were treated with 1,975.14 lbs of vectobac (bti) and 1.06 gallons of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During July 2020, VDCI technicians performed site inspections at approximately 290 storm drains as part of the City of Loveland Urban larviciding program to control larval mosquito populations in storm drains and catch basins. Drains that were we or had the potential to hold water were treated with long term larvicide products including Altosid pellets, briquettes, and VectoLex WSP (Bsph).

Mosquito Population Surveillance

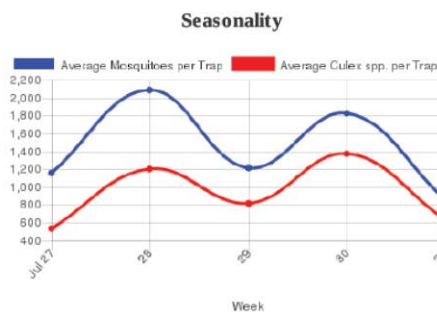
There were 169 traps set in Loveland during July 2020. A total of 7,143 mosquitoes were collected throughout the month. There were 2,226 (31.2%) *Aedes spp.*, 4,559 (63.8%) *Culex spp.* and 102 (1.4%) *Culiseta spp.* mosquitoes collected. On average there were 42.3 mosquitoes collected per night and 27.0 *Culex spp.* mosquitoes per trap night.

2020 Loveland Trap Composite Data

Total number of trap/nights set:	169
Total number of mosquitoes collected:	7,143.0
Average mosquitoes per trap/night:	42.3
Average Culex per trap/night:	27.0

Species collected and abundance:

<i>Aedes dorsalis</i>	109.0	1.5%
<i>Aedes hendersoni</i>	1.0	0.0%
<i>Aedes increpitus</i>	62.0	0.9%
<i>Aedes melanimon</i>	29.0	0.4%
<i>Aedes spp.</i>	2.0	0.0%
<i>Aedes trivittatus</i>	4.0	0.1%
<i>Aedes vexans</i>	2,019.0	28.3%
<i>Anopheles freeborni</i>	231.0	3.2%
<i>Coquillettidia perturbans</i>	25.0	0.3%
<i>Culex pipiens</i>	709.0	9.9%
<i>Culex tarsalis</i>	3,850.0	53.9%
<i>Culiseta inornata</i>	102.0	1.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,226	31.2%
<i>Anopheles</i>	231	3.2%
<i>Culex</i>	4,559	63.8%
<i>Culiseta</i>	102	1.4%
Other	25	0.3%



Adult Mosquito Control Operations

During the month of July 2020, 274.12 miles of roads within city limits were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaKontrol mosquito adulticides to reduce adult mosquito populations. Truck based ULV applications were performed to suppress mosquito abundance detected in surveillance traps which surpassed the disease threshold of over 100 total mosquitoes, or over 50 Culex mosquitoes.

Date	Zone	Spray Miles	Spray Acres	Ounces Sprayed
7/2/2020	LV-09	9.85	358.15	351.75
7/6/2020	LV-14E	5.74	208.71	204.18
7/6/2020	LV-31	7.58	275.61	269.78
7/6/2020	LV-13N	5.79	210.52	208.39
7/6/2020	LV-07	8.11	294.88	289.17
7/7/2020	LV-36	8.09	294.15	287.59
7/7/2020	LV-19N	6.73	244.7	242.48
7/8/2020	LV-23	8.92	324.33	325.21
7/8/2020	LV-26	9.36	340.33	336.31
7/9/2020	LV-02S	10.25	372.69	368.3
7/13/2020	LV-33	19.65	714.47	706.12
7/13/2020	LV-31	7.98	290.15	284.69
7/13/2020	LV-07	8.02	291.61	288.4
7/14/2020	LV-18N	7.74	281.43	276.38
7/14/2020	LV-13N	6.15	223.61	221.51
7/14/2020	LV-19N	7.49	272.34	265.48
7/20/2020	LV-31	8.5	309.06	305.49
7/20/2020	LV-14E	5.66	205.8	203.35
7/20/2020	LV-07	8.42	306.15	302.25
7/21/2020	LV-20	12.01	436.68	433.54
7/21/2020	LV-16	7.04	255.97	251.93
7/21/2020	LV-19S	13.72	498.86	493.92
7/22/2020	LV-26	9.42	342.51	342.59
7/23/2020	LV-03	5.64	205.07	200.79
7/27/2020	LV-07	7.35	267.25	262.45
7/27/2020	LV-14E	5.26	191.25	190.5
7/27/2020	LV-14W	4.12	149.8	148.43
7/27/2020	LV-33	20.22	735.2	723.17
7/27/2020	LV-31	8.34	303.24	299.01
7/28/2020	LV-16	7.03	255.61	252.42
7/28/2020	LV-19N	7.94	288.7	283.98
7/31/2020	LV-03	6	218.16	217.3

Totals	274.12	9966.99	9836.86
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Public Relations

VDCI received 8 phone calls from City of Loveland residents in June 2020. VDCI received 3 calls from residents reporting new larval mosquito sites in their area. VDCI inspected all of the reported sites and added new areas if found producing mosquito larvae. VDCI received 2 mosquito annoyance calls from residents of the City of Loveland. All of these calls were made by residents who lived in areas where an application was already scheduled to take place based on mosquito abundance thresholds. VDCI received 3 phone calls from residents requesting that their information be added or changed in VDCI's spray notification list so they could be notified of spraying in their area.