

DRAGON MOSQUITO CONTROL, INC.
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August 2023
Monthly Update

It's been 18 years since Newton resident, Kelly Labell, contracted Eastern Equine Encephalitis (EEE) from a mosquito bite. She died a week later at the age of twenty. Her death greatly impacted her family, friends, neighbors and coworkers. There were 7 human cases of EEE in NH that year including a second death in Hooksett. It was a frightening time for the community. More human and veterinary cases followed every few years in Newton, Candia, Newfields, and beyond. EEE is cyclical and creeps up during wet years. It's been 4 years since we've seen EEE in animals and 9 years since human cases occurred the NH. Since then West Nile Virus and Jamestown Canyon Virus have been the mosquito-borne diseases infecting humans in the state.

Dragon crews monitor mosquito breeding sites throughout town and when larvae are found, the stagnant water is treated with a **naturally occurring bacteria**. *Bacillus thuringiensis israelensis* (**Bti**) is toxic to mosquito larvae, blackflies, and fungus gnats. Bti will not harm people, pets, birds and other animals, aquatic life, or other insects, including honeybees. Dragon staff does not randomly enter private property, despite misinformation that has been spread on social media recently. Dragon checks wetlands on private property after a request from the property owner. It is difficult to dispel all the false information that is out there. Please don't accept what you see on Facebook posts as facts. Call or email us and ask if you have questions.

In August, Dragon has:

- Checked mosquito breeding sites and treated as needed with Bti
- Responded to house call requests
- Emptied man-made containers where mosquito larvae were found
- Educated homeowners about mosquito control and avoiding mosquito bites
- Trapped adult mosquitoes in fixed locations throughout Newton
- Processed and identified adult mosquitoes to species
- Sent adult mosquito species to the State Lab in Concord for disease testing

Malaria was eliminated in the US in the early 1950's. Until this summer, there hadn't been a locally acquired US case in 20 years. The most recent cases detected in Florida, Texas and now Maryland stem from reintroduction followed by local transmission. Whether it is malaria, Jamestown Canyon Virus or EEE, diseases spread by mosquitoes remain a public health concern for the predictable future. This summer, Jamestown Canyon Virus has been identified in New Hampshire. There have been 14 detections in mosquitoes in eight communities. So, far no human cases have been found in 2023.

Town of Newton

Activity Report

August 2023

Date	Activity
8-01	Pick up light trap on Keezer Ln
8-01	Pick up light trap on Willow Dr
8-01	Pick up light trap on North Main St
8-02	Adult mosquitoes identified and processed
8-03	Adult mosquitoes sent to State Lab for disease testing
8-07	Set out light trap on Keezer Ln
8-07	Set out light trap on Willow Dr
8-07	Set out light trap on North Main St
8-08	Pick up light trap on Keezer Ln
8-08	Pick up light trap on Willow Dr
8-08	Pick up light trap on North Main St
8-08	Survey New Boston Rd, across from Keezer Ln - cedar swamp
8-08	Survey behind 17 Durgin Dr - woodland pool
8-08	Survey intersection of Brookside Ln & Dugway Rd - swale
8-08	Survey between 1 & 3 Katherine Dr - ditches w/ pools
8-08	Survey behind 4 Katherine Dr - swamp
8-08	Survey behind 36 So. Main St (Rte 108) - swamp
8-08	Survey 17 Bancroft Rd - swamp & pools
8-08	Survey across from 13 Whippoorwill Dr - woodland pools & tires
8-08	Survey front of 68 & 70 Whittier St - stream backwater
8-08	Survey behind 102 No. Main St (Rte 108) - cedar swamp
8-08	Survey behind 1 No. Main (Rte 108) & 2 So. Main St (Rte 108) - swamp
8-08	Survey Town Hall, 2 Town Hall Rd - woodland pools
8-08	Survey behind 11 Lincoln Way - red maple swamp
8-08	Survey behind 57 No. Main St (Rte 108) - stream to swamp
8-08	Survey 18 Maple Ave to Patriot Ave - depressions
8-11	Adult mosquitoes identified and processed
8-14	Set out light trap on Keezer Ln
8-14	Set out light trap on Willow Dr
8-14	Set out light trap on North Main St
8-14	Survey right of 9 Steep Hill Rd - woodland pools
8-14	Survey intersection of Keezer Ln & New Boston Rd - fire pond & woodland pools
8-14	Larvicide intersection of Keezer Ln & New Boston Rd - fire pond & woodland pools
8-14	Survey across from 4 Howard Ln - ornamental pond
8-14	Larvicide across from 4 Howard Ln - ornamental pond
8-14	Survey right of 4 Howard Ln - red maple swamp

Town of Newton

Activity Report

August 2023

Date	Activity
8-14	Larvicide right of 4 Howard Ln - red maple swamp
8-14	Survey right of 8 Fernwood Dr - small cattail pond
8-14	Larvicide right of 8 Fernwood Dr - small cattail pond
8-14	Survey front of 3 Fernwood Dr - pond & woodland pools
8-14	Larvicide front of 3 Fernwood Dr - pond & woodland pools
8-14	Survey behind Marshall House Museum, 5 Wallace Rd - woodland pools & stream
8-14	Larvicide behind Marshall House Museum, 5 Wallace Rd - woodland pools & stream
8-14	Survey right of Marshall House Museum, 5 Wallace Rd - cattail swamp
8-14	Larvicide right of Marshall House Museum, 5 Wallace Rd - cattail swamp
8-14	Survey across from 20 Chase Rd - ponds & tire pile
8-14	Larvicide across from 20 Chase Rd - ponds & tire pile
8-14	Survey behind 54 Whittier St - woodland pool
8-14	Larvicide behind 54 Whittier St - woodland pool
8-14	Survey behind 74 Pond St - woodland pool
8-14	Larvicide behind 74 Pond St - woodland pool
8-14	Survey right of 68 Pond St - flooded edge of lawn
8-14	Larvicide right of 68 Pond St - flooded edge of lawn
8-14	Survey behind 68 Pond St - pond
8-14	Larvicide behind 68 Pond St - pond
8-14	Survey between 67 & 69 Pond St & left of 71 Pond St - roadside pools
8-14	Larvicide between 67 & 69 Pond St & left of 71 Pond St - roadside pools
8-14	Survey front of 91 Pond St - woodland pool
8-14	Larvicide front of 91 Pond St - woodland pool
8-14	Survey intersection of Overlook Rd & Valley Dr - ditch
8-14	Larvicide intersection of Overlook Rd & Valley Dr - ditch
8-14	Survey 6 Valley Dr - bog
8-14	Larvicide 6 Valley Dr - bog
8-15	Pick up light trap on Keezer Ln
8-15	Pick up light trap on Willow Dr
8-15	Pick up light trap on North Main St
8-16	Adult mosquitoes identified and processed
8-17	Adult mosquitoes sent to State Lab for disease testing
8-21	Set out light trap on Keezer Ln
8-21	Set out light trap on Willow Dr
8-21	Set out light trap on North Main St
8-22	Pick up light trap on Keezer Ln

Town of Newton

Activity Report

August 2023

Date	Activity
8-22	Pick up light trap on Willow Dr
8-22	Pick up light trap on North Main St
8-23	Survey New Boston Rd, across from Keezer Ln - cedar swamp
8-23	Survey Newton Transfer Station, Dugway Rd - fire pond & small pools
8-23	Survey behind 2 Shirley Ave - woodland pool
8-23	Survey left of 26 Amesbury Rd - swamp
8-23	Survey intersection of Chongor Dr & Whittier St - swamp & pools
8-23	Survey end of Bootland Farm Rd (across from Williamine Dr) - retention area & swamp
8-23	Survey across from 30 Williamine Dr - fire pond
8-23	Survey across from 30 Williamine Dr - swamp w/ pools
8-23	Survey behind 102 No. Main St (Rte 108) - cedar swamp
8-23	Larvicide behind 102 No. Main St (Rte 108) - cedar swamp
8-23	Survey intersection of Smith Corner Rd & Bootland Farm Dr - swamp w/ root hole
8-23	Larvicide intersection of Smith Corner Rd & Bootland Farm Dr - swamp w/ root hole
8-23	Survey 17 Bancroft Rd - swamp & pools
8-23	Larvicide 17 Bancroft Rd - swamp & pools
8-23	Survey across from 19 Bootland Farm Rd - retention area & small swamp
8-23	Larvicide across from 19 Bootland Farm Rd - retention area & small swamp
8-23	Adult mosquitoes identified and processed
8-24	Adult mosquitoes sent to State Lab for disease testing
8-28	Survey Town Hall, 2 Town Hall Rd - woodland pools
8-28	Survey across from 2 Felicia Dr - retention area
8-28	Survey behind 14 No. Main St - swamp w/ pools
8-28	Survey CPM Stables, 34 So. Main St (Rte 108) - swale
8-28	Larvicide CPM Stables, 34 So. Main St (Rte 108) - swale
8-28	Survey intersection of Merrimac Rd & So. Main St (Rte 108) - pond & drainage ditch
8-28	Survey left of 9 Walnut Farm Rd - woodland pool
8-28	Survey end of Walnut Farm Rd (off Peaslee Crossing) - woodland pools
8-28	Survey front of 35 Crane Crossing Rd - pond with cattails
8-28	Survey right of 30 Tanglewood Dr - small pond
8-28	Survey behind & left of 26 Quaker St - drainage easement & pools
8-28	Survey across from 20 Quaker St - woodland pool
8-28	Larvicide across from 20 Quaker St - woodland pool
8-28	Survey 11-15 Quaker St - woodland pool
8-28	Larvicide 11-15 Quaker St - woodland pool
8-28	Survey between 15 & 17 No. Main St (Rte 108) - roadside pool

Town of Newton

Activity Report

August 2023

Date	Activity
8-28	Larvicide between 15 & 17 No. Main St (Rte 108) - roadside pool
8-28	Survey intersection of Wentworth Dr & So. Main St (Rte 108) - stream & pools
8-28	Larvicide intersection of Wentworth Dr & So. Main St (Rte 108) - stream & pools
8-28	Survey intersection of Peaslee Crossing Rd & So. Main St (Rte 108) - pools
8-28	Larvicide intersection of Peaslee Crossing Rd & So. Main St (Rte 108) - pools
8-28	Survey behind 7 Walnut Farm Rd - red maple swamp
8-28	Larvicide behind 7 Walnut Farm Rd - red maple swamp
8-28	Survey behind 21 Walnut Farm Rd - pools
8-28	Larvicide behind 21 Walnut Farm Rd - pools
8-28	Set out light trap on Keezer Ln
8-28	Set out light trap on Willow Dr
8-28	Set out light trap on North Main St
8-29	Pick up light trap on Keezer Ln
8-29	Pick up light trap on Willow Dr
8-29	Pick up light trap on North Main St
8-31	Adult mosquitoes identified and processed
8-31	Adult mosquitoes sent to State Lab for disease testing

No positive results in Newton as of 8-31-2023

Total mosquito batches sent to State Lab for testing: 152

Mosquitoes collected in Keene, Fremont and Kingston, Kensington, New Castle, Nashua, Brentwood and Pelham have tested positive for Jamestown Canyon Virus

No mosquito samples have tested positive for West Nile Virus or EEE to date.



New Hampshire Arbovirus Surveillance Bulletin #11

ROUTINE TEST RESULTS

MMWR Week 36 September 3, 2023 – September 9, 2023

HUMANS		Number Tested	WNV Positive [¥]	EEEV Positive [¥]	JCV Positive [¥]	POW Positive [¥]
CURRENT YEAR	Week	1	0	0	0	0
	YTD	19	0	0	0	1
Prior Years	2022	26	0	0	0	0
	2021	45	1 [£] , €	0	5	1 [£]
	2020	33	0	0	5	0
	2019	35	0	0	3	2
	2018	30	0	0	1 [£]	0

[¥] Confirmatory testing completed by the Centers for Disease Control and Prevention (CDC). There is a delay between testing and result confirmation.

[£] Testing performed by commercial laboratory

[€] Infection likely acquired out of state.

ANIMALS		Number Tested	WNV Positive	EEEV Positive
CURRENT YEAR	Week	0	0	0
	YTD	2	0	0
Prior Years	2022	0	0	0
	2021	3	0	0
	2020	7	0	0
	2019	19	1	2
	2018	13	4	0

MOSQUITO BATCHES*		Number Tested	WNV Positive	EEEV Positive	JCV Positive
CURRENT YEAR	Week [‡]	758	0	0	0
	YTD	5854	0	0	14
Prior Years	2022	1829	8	0	2
	2021	5724	6	0	14 ^α
	2020	1988	2	0	-
	2019	5610	1	16	-
	2018	4945	32	6	-

* A mosquito batch is a collection of mosquitoes sorted by species, date of collection, and trap location.