

DRAGON MOSQUITO CONTROL, INC.
P.O. Box 46, Stratham, NH 03885
www.DragonMosquito.com
603.734.4144

September 2023
Monthly Update

In September, NH Department of Health & Human Services (DHHS) announced mosquito and tick-transmitted infections in the State. New Hampshire's first human case of Jamestown Canyon Virus (JCV) was confirmed in Bedford. JCV is a mosquito borne disease primarily found in deer. This year, 14 batches of mosquitoes have tested positive for JCV in NH. New Hampshire's first West Nile Virus detection was from mosquitoes trapped in Stratham on September 19th.

DHHS also reported two human cases of Powassan Virus (POW). One case is in Rockingham County and the other is a child in Carroll County. Powassan Virus is transmitted to people by infected ticks. A tick needs to be attached to a person for only 15 minutes to transmit POW. New Hampshire has identified eight cases of Powassan Virus, since 2013.

September Highlights:

- No disease carrying mosquitoes have been detected in town
- Checked wetlands for mosquito larvae and treated as needed with Bti
- Trapped adult mosquitoes weekly throughout town
- Processed and identified adult mosquitoes to species
- Sent adult mosquito species to the State Lab in Concord for disease testing

Mosquito populations plummet during drought years and rebound in wet summers like this past one creating the potential for mosquito borne disease to return. The risk will not diminish until we have a hard freeze. Mosquitoes that overwinter as adults look for warm places this time of year. They may fly inside your home or garage to wait for spring.

Blacklegged ticks are responsible for Lyme disease and the transmission of POW among other tickborne diseases. Nearly three quarters of all Lyme disease cases are acquired from ticks picked up during activities around the home. Adult blacklegged ticks will be active until there is snow on the ground. Be vigilant this fall and continue to avoid mosquito and tick bites.

Town of Newton

Activity Report

September 2023

Date	Activity
9-04	Set out light trap on Keezer Ln
9-04	Set out light trap on Willow Dr
9-04	Set out light trap on North Main St
9-05	Pick up light trap on Keezer Ln
9-05	Pick up light trap on Willow Dr
9-05	Pick up light trap on North Main St
9-06	Adult mosquitoes identified and processed
9-07	Adult mosquitoes sent to State Lab for disease testing
9-07	Survey New Boston Rd, across from Keezer Ln - cedar swamp
9-07	Survey intersection of Keezer Ln & New Boston Rd - fire pond & woodland pools
9-07	Survey right of 1 Nordic Wood Ln - ditch & retention area
9-07	Survey between 11 & 13 Currierville Rd - woodland pools
9-07	Survey right of Greenie Park entrance, 14 Heath St - woodland pools
9-07	Survey left of Whispering Pine Campground, 8 Wenmarks Grove - swamp
9-07	Survey behind 61 Pond St to Whittier St - red maple swamp
9-07	Survey left of Bartlett St, before RR tracks - swamp
9-07	Survey right of Bartlett St, before RR tracks - swamp
9-07	Survey 9 Currierville Rd - woodland pools
9-07	Larvicide 9 Currierville Rd - woodland pools
9-07	Survey behind 17 Durgin Dr - woodland pool
9-07	Larvicide behind 17 Durgin Dr - woodland pool
9-07	Survey end of Fox Hill Ln - bog
9-07	Larvicide end of Fox Hill Ln - bog
9-07	Survey 6 Valley Dr - bog
9-07	Larvicide 6 Valley Dr - bog
9-07	Survey intersection of Overlook Rd & Valley Dr - ditch
9-07	Larvicide intersection of Overlook Rd & Valley Dr - ditch
9-07	Survey front of 91 Pond St - woodland pool
9-07	Larvicide front of 91 Pond St - woodland pool
9-07	Survey behind Marshall House Museum, 5 Wallace Rd - woodland pools & stream
9-07	Larvicide behind Marshall House Museum, 5 Wallace Rd - woodland pools & stream
9-07	Survey right of Marshall House Museum, 5 Wallace Rd - cattail swamp
9-07	Larvicide right of Marshall House Museum, 5 Wallace Rd - cattail swamp
9-11	Set out light trap on Keezer Ln
9-11	Set out light trap on Willow Dr
9-11	Set out light trap on North Main St
9-12	Pick up light trap on Keezer Ln

Town of Newton

Activity Report

September 2023

Date	Activity
9-12	Pick up light trap on Willow Dr
9-12	Pick up light trap on North Main St
9-13	Survey behind CBI & right of entrance, 22 Whittier St - swamp & swales
9-13	Survey intersection of So. Main St (Rte 108) and Pheasant Crossing - swale
9-13	Survey between 15 & 17 No. Main St (Rte 108) - roadside pool
9-13	Survey behind 68 Pond St - pond
9-13	Survey between 1 & 3 Katherine Dr - ditches w/ pools
9-13	Larvicide between 1 & 3 Katherine Dr - ditches w/ pools
9-13	Survey right of 8 Fernwood Dr - small cattail pond
9-13	Larvicide right of 8 Fernwood Dr - small cattail pond
9-13	Survey across from 4 Howard Ln - ornamental pond
9-13	Larvicide across from 4 Howard Ln - ornamental pond
9-13	Survey right of 4 Howard Ln - red maple swamp
9-13	Larvicide right of 4 Howard Ln - red maple swamp
9-13	Survey Puzzle Ln - retention pond & small pond
9-13	Larvicide Puzzle Ln - retention pond & small pond
9-13	Survey behind 102 No. Main St (Rte 108) - cedar swamp
9-13	Larvicide behind 102 No. Main St (Rte 108) - cedar swamp
9-13	Survey front of 3 Fernwood Dr - pond & woodland pools
9-13	Larvicide front of 3 Fernwood Dr - pond & woodland pools
9-13	Survey across from 13 Whippoorwill Dr - woodland pools & tires
9-13	Larvicide across from 13 Whippoorwill Dr - woodland pools & tires
9-13	Survey 17 Bancroft Rd - swamp & pools
9-13	Larvicide 17 Bancroft Rd - swamp & pools
9-13	Survey right of 68 Pond St - flooded edge of lawn
9-13	Larvicide right of 68 Pond St - flooded edge of lawn
9-13	Survey behind 74 Pond St - woodland pool
9-13	Larvicide behind 74 Pond St - woodland pool
9-13	Survey between 67 & 69 Pond St & left of 71 Pond St - roadside pools
9-13	Larvicide between 67 & 69 Pond St & left of 71 Pond St - roadside pools
9-13	Survey behind 54 Whittier St - woodland pool
9-13	Larvicide behind 54 Whittier St - woodland pool
9-12	Adult mosquitoes identified and processed
9-14	Adult mosquitoes identified and processed
9-14	Adult mosquitoes sent to State Lab for disease testing
9-18	Set out light trap on Keezer Ln
9-18	Set out light trap on Willow Dr

Town of Newton

Activity Report

September 2023

Date	Activity
9-18	Set out light trap on North Main St
9-18	Survey intersection of Brookside Ln & Dugway Rd - swale
9-18	Survey behind 5-7 Brookside Ln to Dugway Rd - swamp & stream
9-18	Survey 17 Bancroft Rd - swamp & pools
9-18	Survey across from 2 Felicia Dr - retention area
9-18	Survey behind 14 No. Main St - swamp w/ pools
9-18	Survey right of 30 Tanglewood Dr - small pond
9-18	Survey behind 102 No. Main St (Rte 108) - cedar swamp
9-18	Larvicide behind 102 No. Main St (Rte 108) - cedar swamp
9-18	Survey Newton Transfer Station, Dugway Rd - fire pond & small pools
9-18	Larvicide Newton Transfer Station, Dugway Rd - fire pond & small pools
9-18	Survey behind 2 Shirley Ave - woodland pool
9-18	Larvicide behind 2 Shirley Ave - woodland pool
9-18	Survey across from 20 Chase Rd - ponds & tire pile
9-18	Larvicide across from 20 Chase Rd - ponds & tire pile
9-18	Survey Town Hall, 2 Town Hall Rd - woodland pools
9-18	Larvicide Town Hall, 2 Town Hall Rd - woodland pools
9-18	Survey behind Post Office, 77 So. Main St (Rte 108) - cattail swale
9-18	Larvicide behind Post Office, 77 So. Main St (Rte 108) - cattail swale
9-18	Survey front of 3 Zoe Ln - retention pond & ditch
9-18	Larvicide front of 3 Zoe Ln - retention pond & ditch
9-19	Pick up light trap on Keezer Ln
9-19	Pick up light trap on Willow Dr
9-19	Pick up light trap on North Main St
9-21	Adult mosquitoes identified and processed
9-21	Adult mosquitoes sent to State Lab for disease testing
9-25	Set out light trap on Keezer Ln
9-25	Set out light trap on Willow Dr
9-25	Set out light trap on North Main St
9-26	Pick up light trap on Keezer Ln
9-26	Pick up light trap on Willow Dr
9-26	Pick up light trap on North Main St
9-27	Adult mosquitoes identified and processed
9-28	Adult mosquitoes sent to State Lab for disease testing
9-29	Survey 9 Currierville Rd - woodland pools
9-29	Survey 18 Maple Ave to Patriot Ave - depressions
9-29	Survey behind 11 Lincoln Way - red maple swamp

Town of Newton

Activity Report

September 2023

Date	Activity
9-29	Survey front of 3 Fernwood Dr - pond & woodland pools
9-29	Survey intersection of Peaslee Crossing Rd & So. Main St (Rte 108) - pools
9-29	Survey intersection of Wentworth Dr & So. Main St (Rte 108) - stream & pools
9-29	Survey intersection of Chongor Dr & Whittier St - swamp & pools
9-29	Survey left of Bartlett St, after RR tracks - swamp
9-29	Survey left of Bartlett St, before RR tracks - swamp
9-29	Survey right of Greenie Park entrance, 14 Heath St - woodland pools
9-29	Survey right of 1 Nordic Wood Ln - ditch & retention area
9-29	Larvicide right of 1 Nordic Wood Ln - ditch & retention area
9-29	Survey intersection of Currierville Rd & Dugway Rd - pond & pools
9-29	Larvicide intersection of Currierville Rd & Dugway Rd - pond & pools
9-29	Survey between 11 & 13 Currierville Rd - woodland pools
9-29	Larvicide between 11 & 13 Currierville Rd - woodland pools
9-29	Survey 17 Bancroft Rd - swamp & pools
9-29	Larvicide 17 Bancroft Rd - swamp & pools
9-29	Survey across from 13 Whippoorwill Dr - woodland pools & tires
9-29	Larvicide across from 13 Whippoorwill Dr - woodland pools & tires
9-29	Survey right of 7 Goulds Hill Rd - building foundation
9-29	Larvicide right of 7 Goulds Hill Rd - building foundation
9-29	Survey across from 20 Quaker St - woodland pool
9-29	Larvicide across from 20 Quaker St - woodland pool
9-29	Survey 11-15 Quaker St - woodland pool
9-29	Larvicide 11-15 Quaker St - woodland pool

Town of Newton

Activity Report

September 2023

Date	Activity
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Disease Update

No positive results in Newton as of 9-30-2023

Total mosquito batches sent to State Lab for testing: 224

One human case of Jamestown Canyon Virus has been confirmed in Bedford

Rockingham and Carroll County each have human cases of Powassan Virus

Please refer to the attached New Hampshire Arbovirus Surveillance Bulletin for complete test results

New Hampshire Arbovirus Surveillance Bulletin #14

ROUTINE TEST RESULTS

MMWR Week 39 September 24, 2023 – September 30, 2023

HUMANS		Number Tested	WNV Positive [¥]	EEEV Positive [¥]	JCV Positive [¥]	POW Positive [¥]
CURRENT YEAR	Week	3	0	0	0	0
	YTD	27	0	0	1	2
Prior Years	2022	26	0	0	0	0
	2021	45	1 [£] , 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	3	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 [‡]	494	1	0	0
	YTD	7526	1	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.