

North Shore Mosquito Abatement District

Weekly Report

Surveillance Results For: 09/26/2020 - 10/02/2020
 Week Number: 40 (Final for 2020)

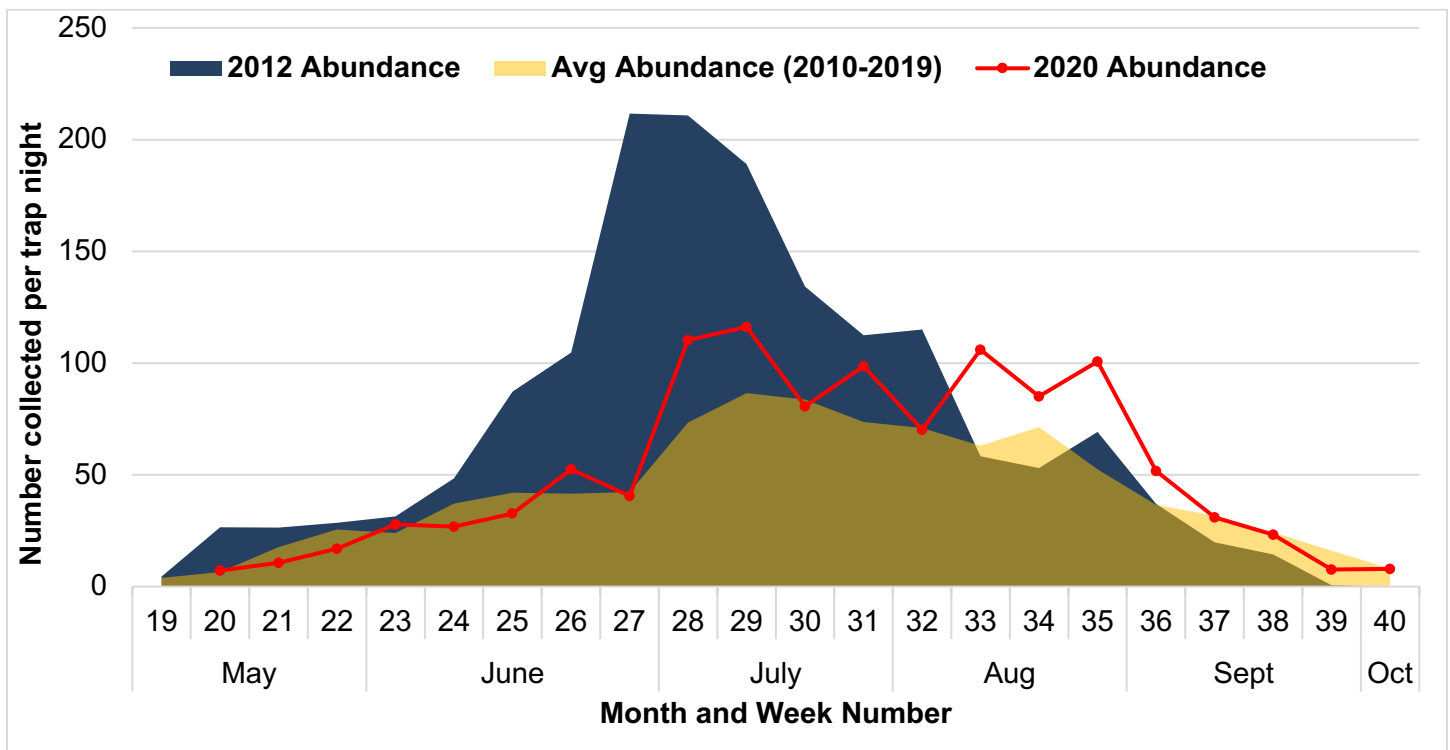
Date of Report: 10/07/2020

West Nile Virus Surveillance

WNV Risk Level: The risk of infection is low. Until the first hard freeze, people should to continue using personal protection measures including using an **EPA approved repellent, eliminating or draining items that can hold standing water** around their property and wearing proper attire.

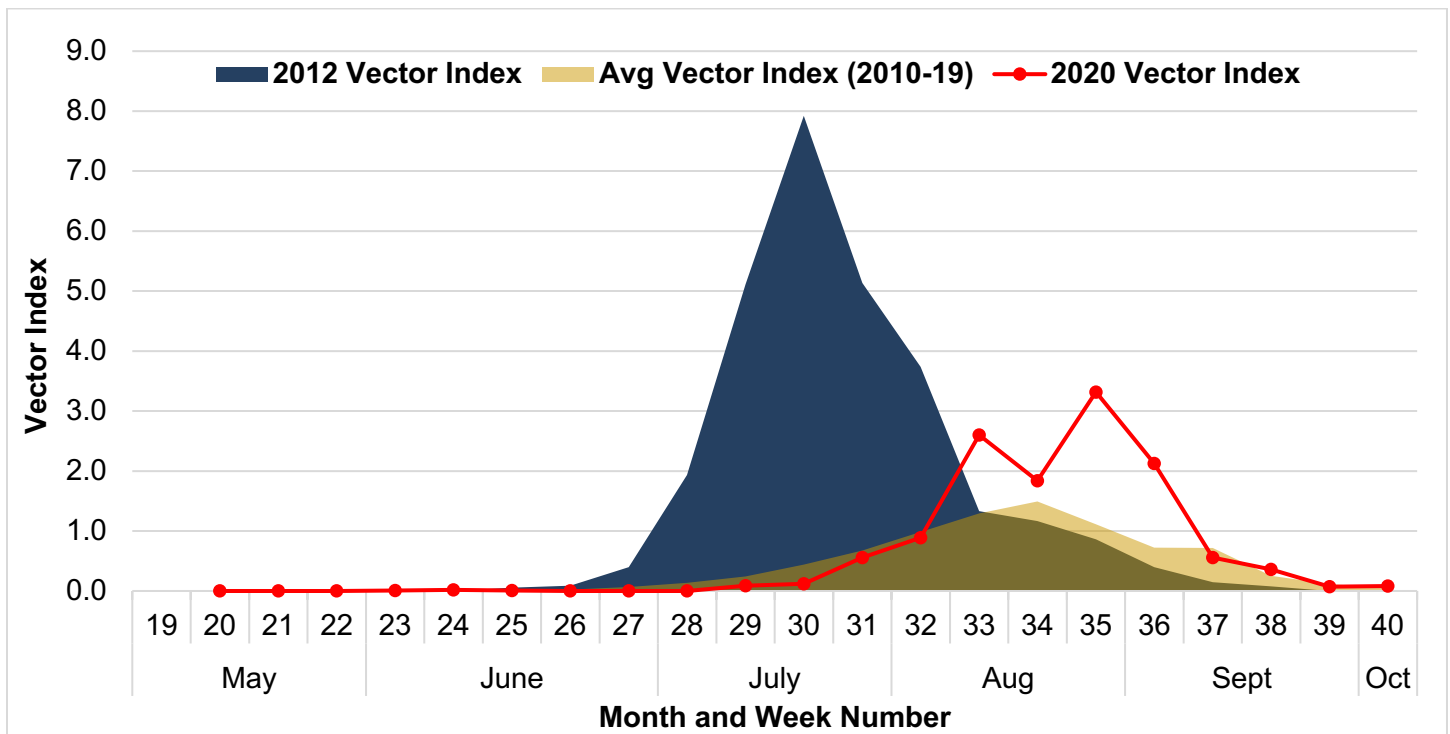
Municipality	Batches Tested This Week		Batches Tested Season Total	
	# WNV+	# Tested	# WNV+	# Tested
Evanston	2	7	201	556
Glencoe	0	1	24	76
Glenview/Golf	0	3	74	209
Kenilworth	0	0	23	86
Lincolnwood	0	2	43	148
Morton Grove	0	1	42	128
Niles	0	0	34	103
Northbrook	0	0	15	71
Northfield	1	2	25	119
Skokie	0	4	133	408
Wilmette	0	1	39	128
Winnetka	0	0	32	142
Total	3	21	685	2174

WNV Vector Abundance: Our traps indicate the abundance of *Culex* spp. mosquitoes continued to decrease during week 40.



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Vector Index: The Vector Index is a measure of the number of infected *Culex* spp. mosquitoes in the District and is directly related to risk of human infection. Abundance and infection rate are used to calculate the Vector Index. We track the weekly Vector Index relative to prior epidemic and non-epidemic years shown in the graph below. The vector index for week 40 increased slightly to 0.08 from 0.07 in week 39. The risk of infection is low. A vector index greater than 1.0 is associated with increased risk of human infections.



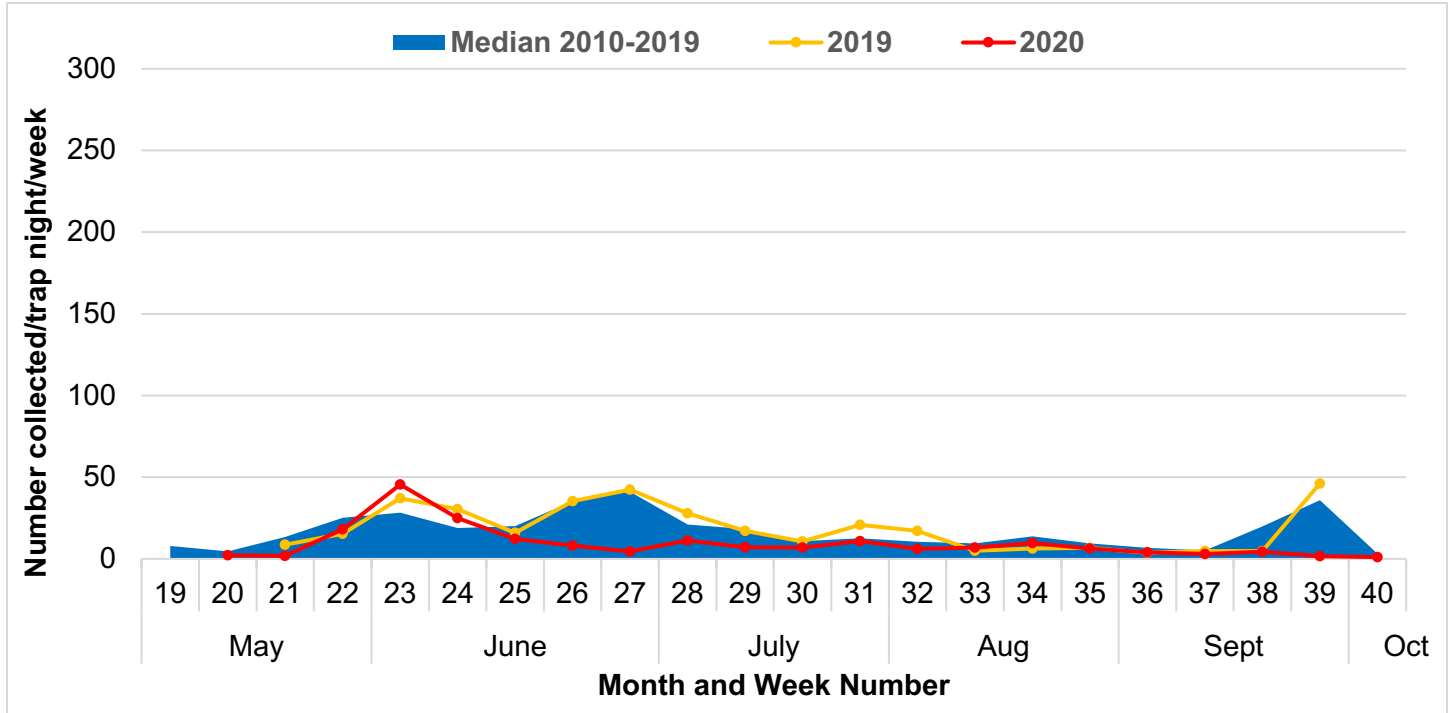
Vector Index during most recent outbreak year (2012), average of non-outbreak years 2010-2018 and current year 2020.
 Vector Index = estimate of the number of WNV-infected *Culex pipiens* collected per trap, per day.

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Nuisance Mosquito Surveillance

Surveillance Data: Nuisance mosquito abundance remained low during week 40.

New Jersey Light Trap Collections



Human Surveillance

The [Illinois Department of Public Health](#) is reporting 24 human case of WNV in Illinois, 22 in Cook County and two DuPage County.

Aedes albopictus Information

A total of four females have been collected in the District this season.

Larval Control and Source Reduction

Municipalities, please let us know if/when there is any scheduled/emergency catch basin cleaning within your community.

Regular larval control operations for the 2020 season have been completed. We will continue to spot treat as needed through the end of October.

Adult Mosquito Control Operations

There were no adult mosquito control operations during week 40. Please see our [website](#) for the most current information.

Public Information

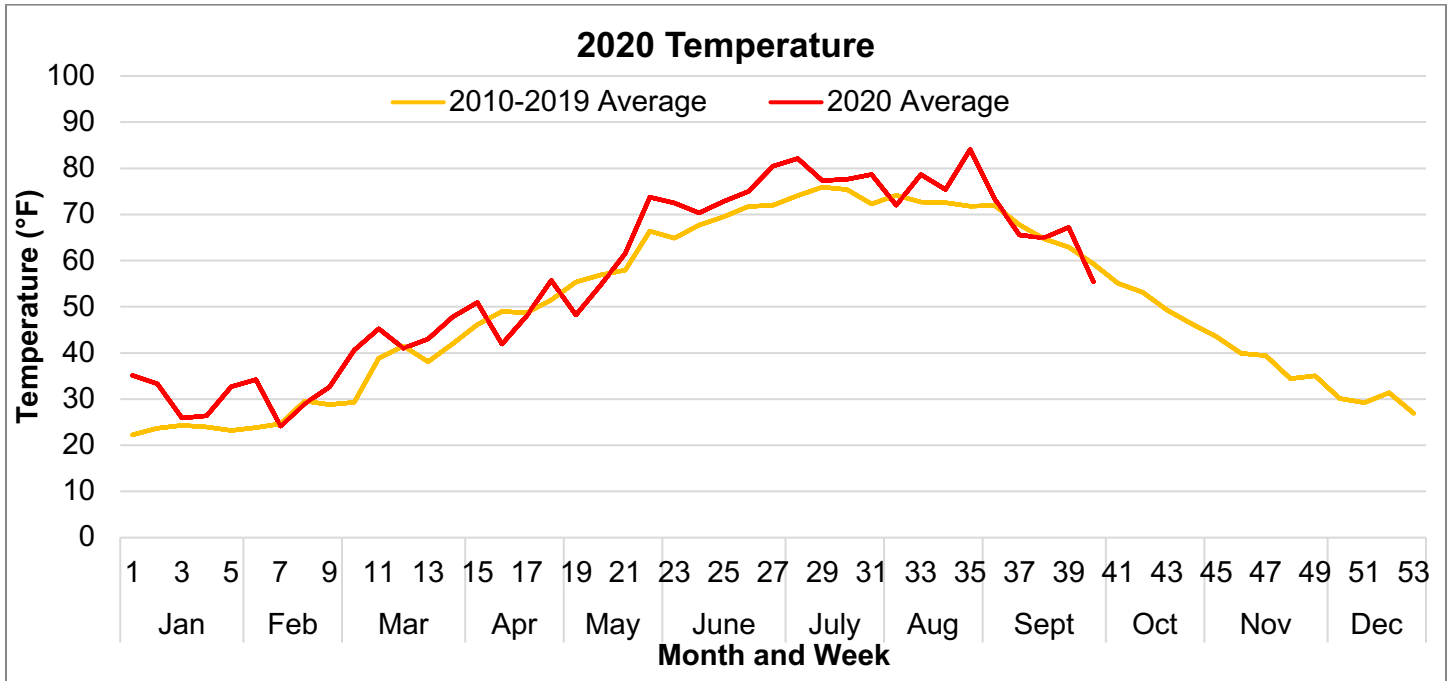
Please inspect your property for items that may contain stagnant water. If it can hold water, it can breed mosquitoes.

Please contact us if you would like the NSMAD public information booth to appear at an event or if a presentation regarding mosquitoes and public health would be helpful to your community.

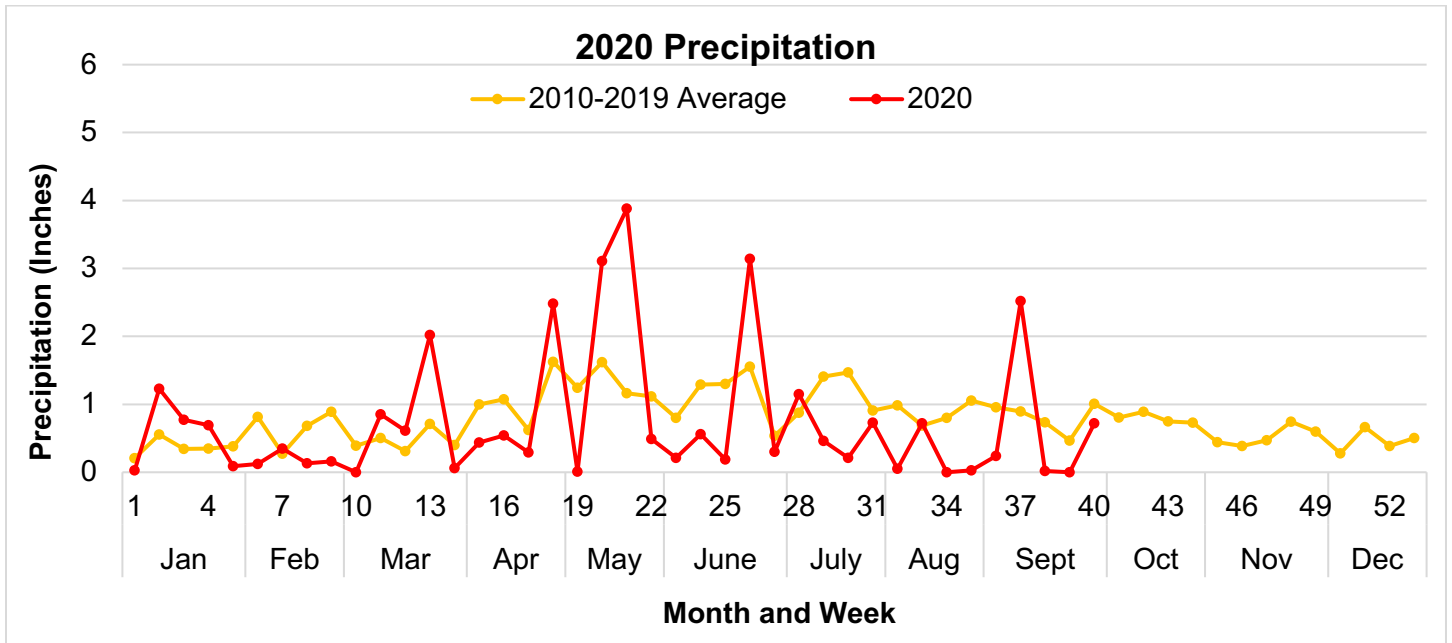
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Weather Monitoring

Weather monitoring is important due to the influence it has on mosquito populations. Above average temperatures during late winter and early spring are associated with increased West Nile Virus activity in the summer months. Heavy rainfall during the summer months may temporarily decrease *Culex* spp. populations, helping to lower WNV activity, but increasing the population of floodwater/nuisance species. We utilize weather data to help us make decisions on our control methods.



Source: NOAA Station: Chicago Palwaukee Airport, IL US GHCND: USW00004838



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Dave Zazra
 Communications Manager
 dzazra@nsmad.com