

# North Shore Mosquito Abatement District

## Weekly Report

Surveillance Results For: 08/15/2020 - 08/21/2020  
 Week Number: 34

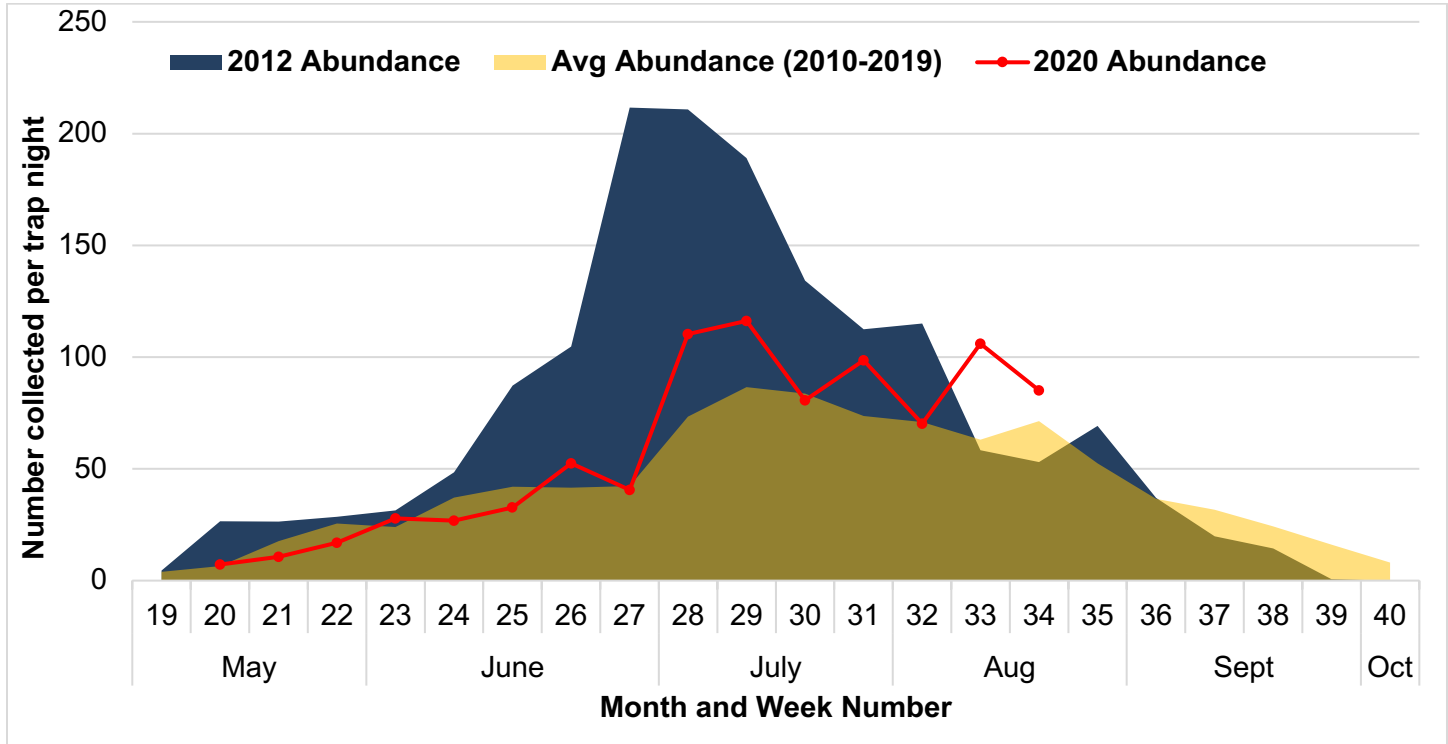
Date of Report: 08/26/2020

### West Nile Virus Surveillance

**WNV Risk Level:** The risk of infection is moderate. People are advised to take 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.

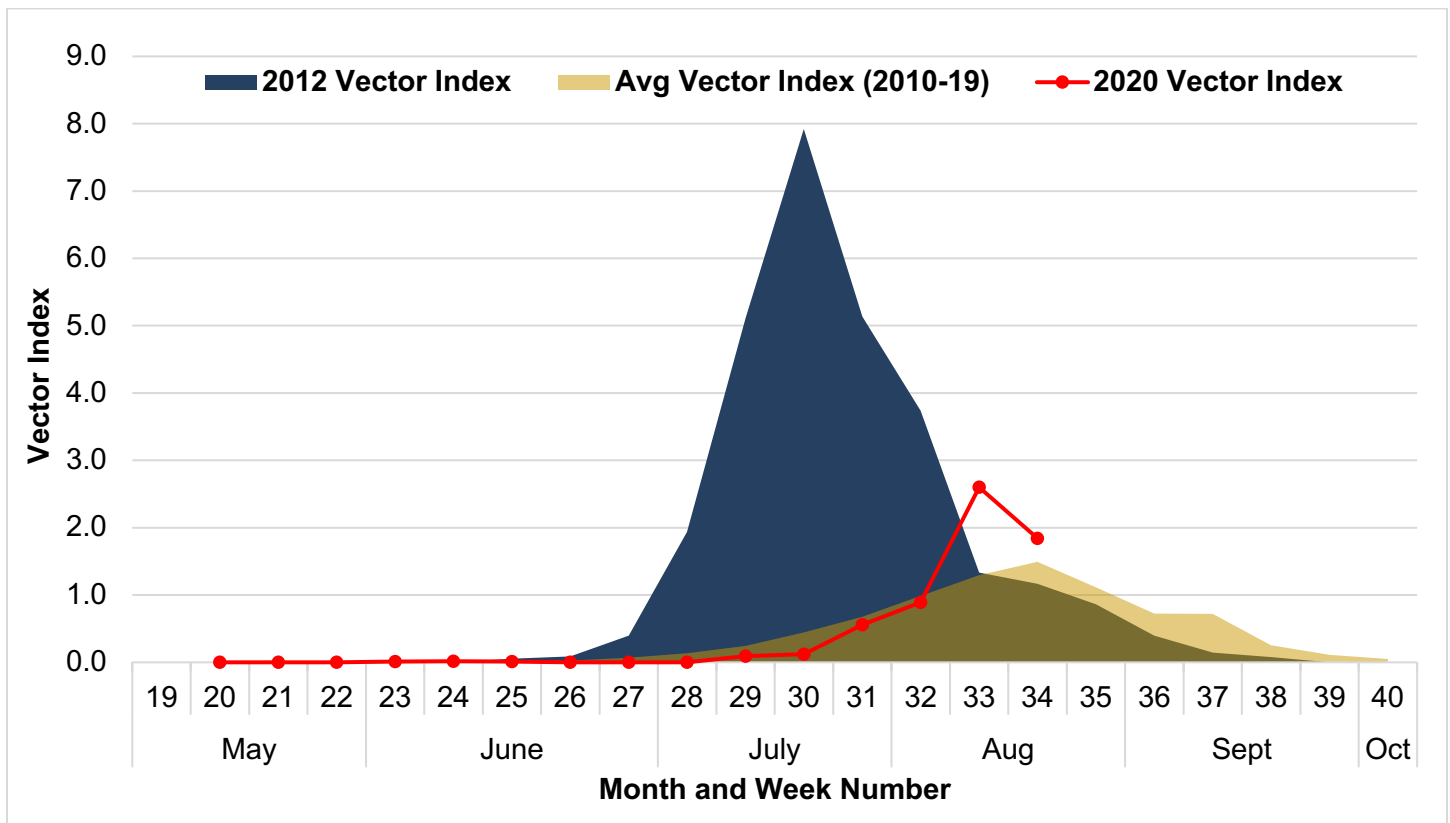
Municipality	Batches Tested This Week		Batches Tested Season Total	
	# WNV+	# Tested	# WNV+	# Tested
Evanston	32	39	101	414
Glencoe	5	9	14	60
Glenview/Golf	11	15	45	160
Kenilworth	5	9	14	73
Lincolnwood	6	12	23	114
Morton Grove	8	11	18	93
Niles	4	7	16	74
Northbrook	2	6	10	60
Northfield	2	7	15	91
Skokie	20	28	72	312
Wilmette	6	11	18	98
Winnetka	3	8	11	110
<b>Total</b>	<b>104</b>	<b>162</b>	<b>357</b>	<b>1659</b>

**WNV Vector Abundance:** Our traps indicate there was a decrease in the abundance of *Culex* spp. mosquitoes during week 34.



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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 34 decreased to 1.84 from 2.60 in week 33. The risk of infection at this time remains moderate. A vector index greater than 1.0 is associated with increased risk of human infections.



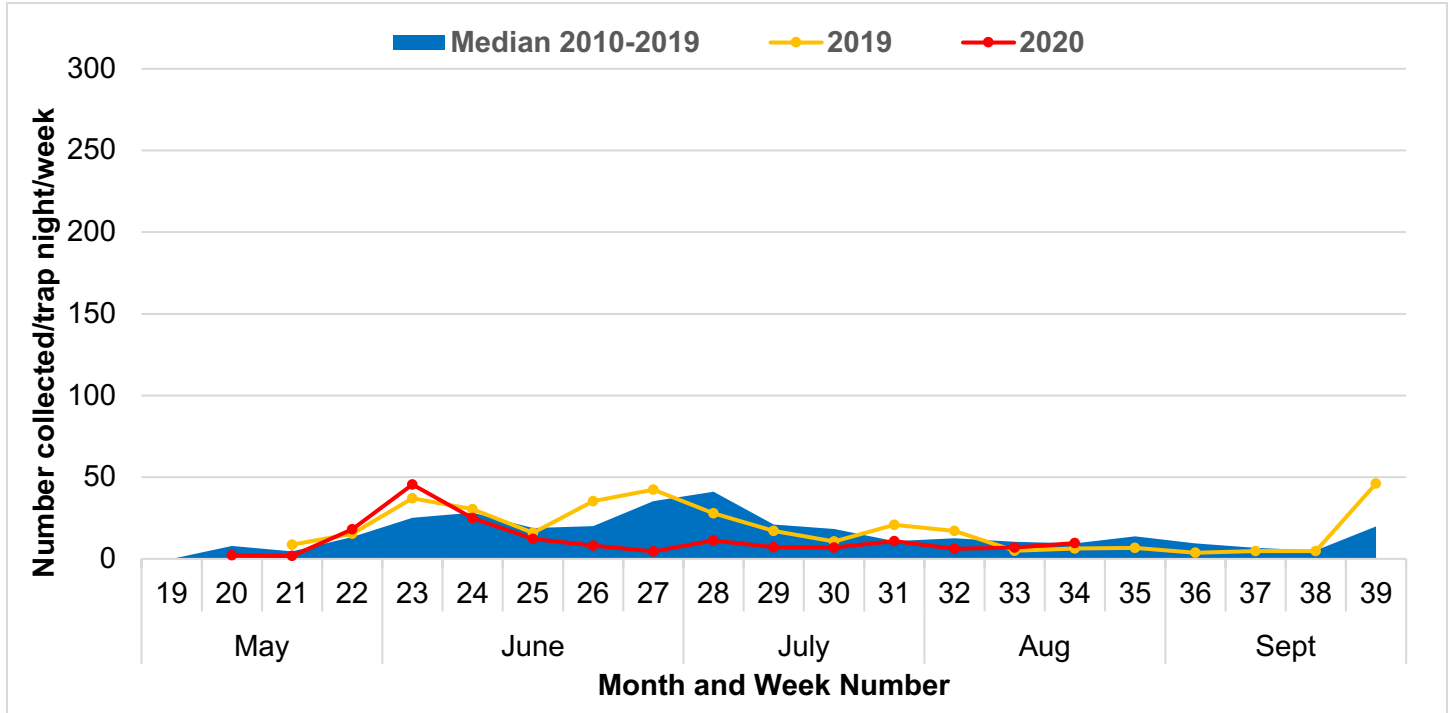
Vector Index during most recent outbreak year (2012), average of non-outbreak years 2010-2018 and current year 2020.  
 Vector Index = estimate of the number of WNV-infected *Culex pipiens* collected per trap, per day.

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## Nuisance Mosquito Surveillance

**Surveillance Data:** Nuisance mosquito abundance remained low during week 34 and is on par with 2019.

## **New Jersey Light Trap Collections**



## Human Surveillance

No human cases of WNV have been reported in 2020 by the [Illinois Department of Public Health](#).

## Larval Control and Source Reduction

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

The NSMAD conducted a ULV larval control operation in portions of Skokie ([map C-13](#)) the evening of August 18.

The third round of treatments in storm water catch basins is continuing. We are focusing on sites that can produce the mosquitoes that carry WNV. These include catch basins on public roads, sites with container habitats, and off-road CBs/French drains. Back-checks (inspections of previously treated sites) are being conducted to determine the efficacy of larval control products used.

## Adult Mosquito Control Operations

During week 34, adult mosquito control operations were conducted on August 17 and 18, in portions of Evanston, Glenview, Skokie and Wilmette. Please see our [website](#) for the most current information.

## Public Information

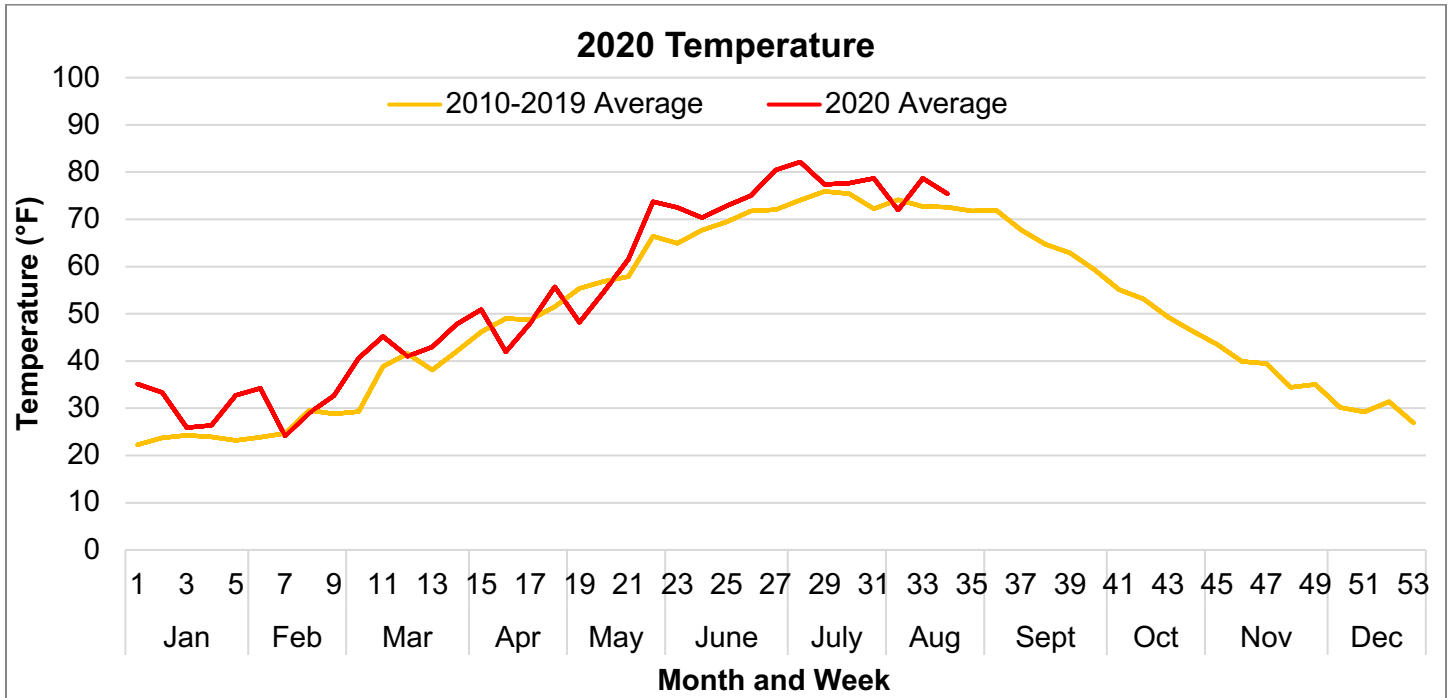
**Please inspect your property for items that may contain stagnant water. If it can hold water, it can breed mosquitoes.**

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.

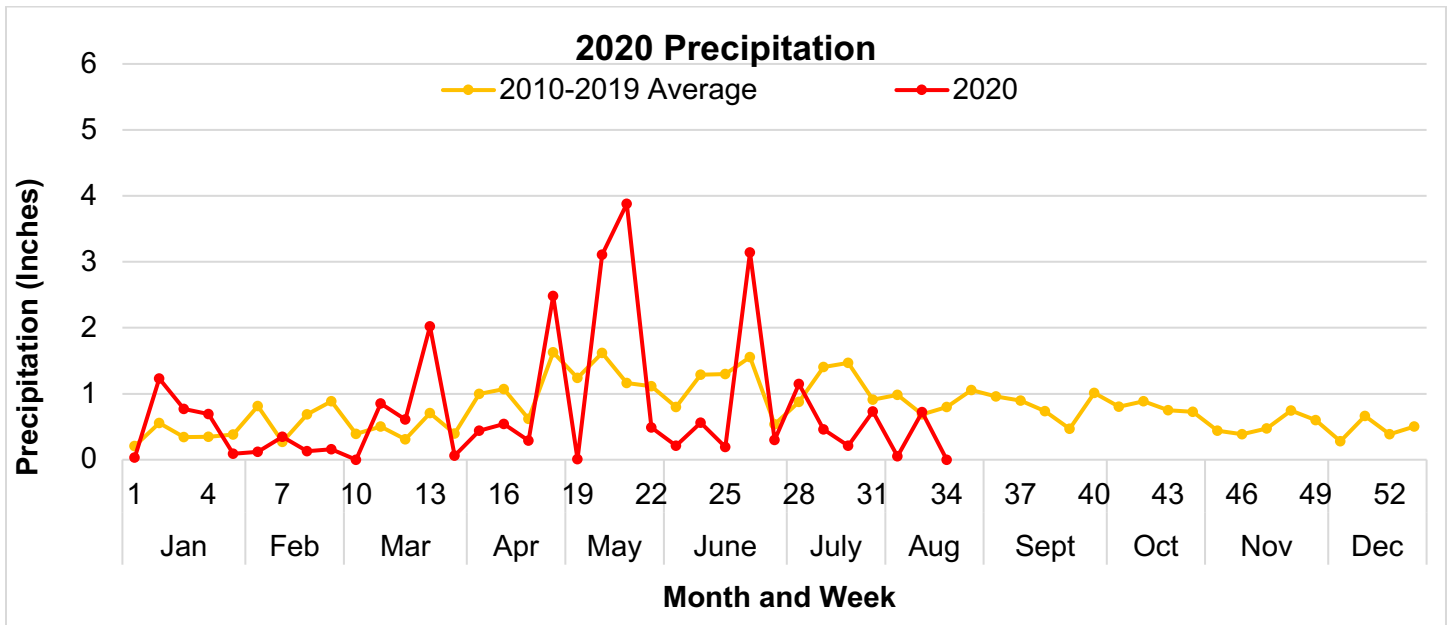
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## Weather Monitoring

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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