

# North Shore Mosquito Abatement District

## Weekly Report

Surveillance Results For: 08/29/2020 - 09/04/2020

Date of Report: 09/09/2020

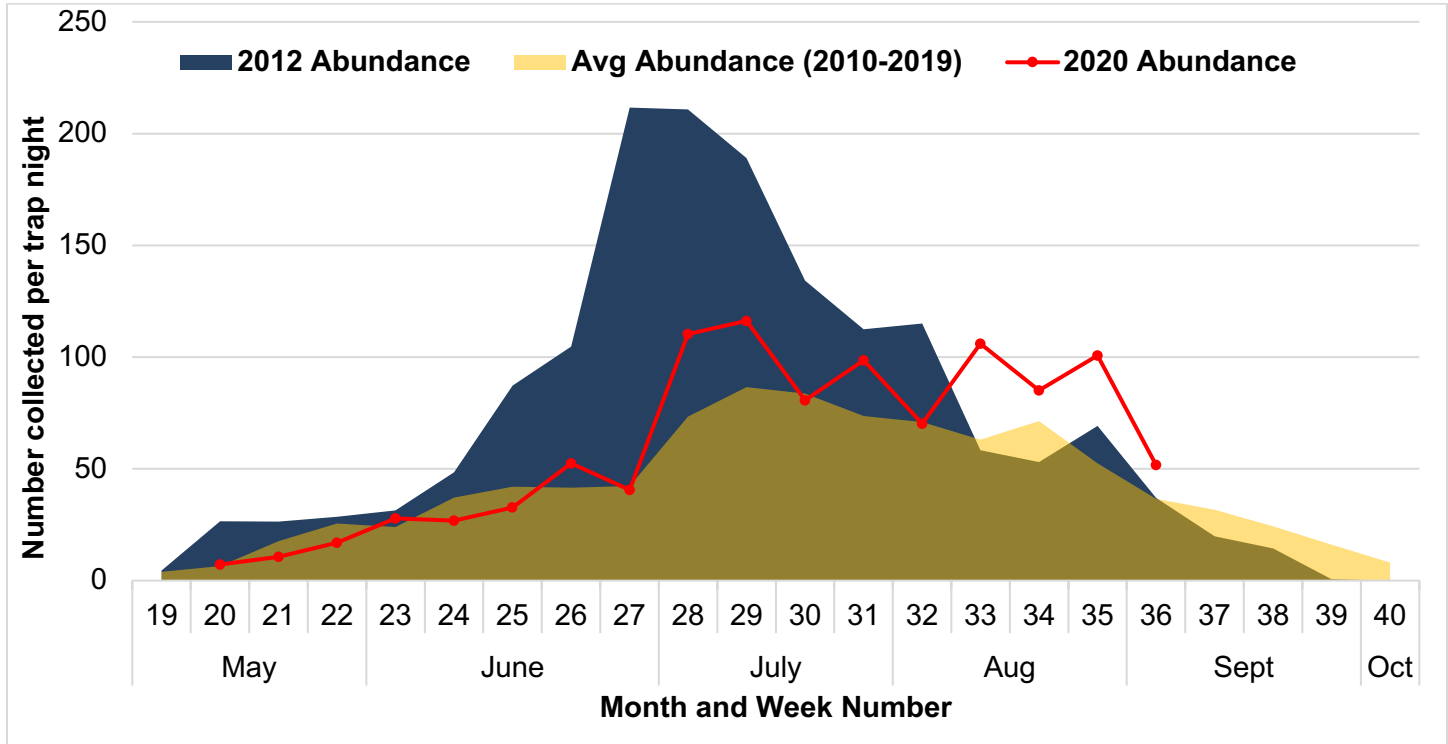
Week Number: 36

### West Nile Virus Surveillance

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

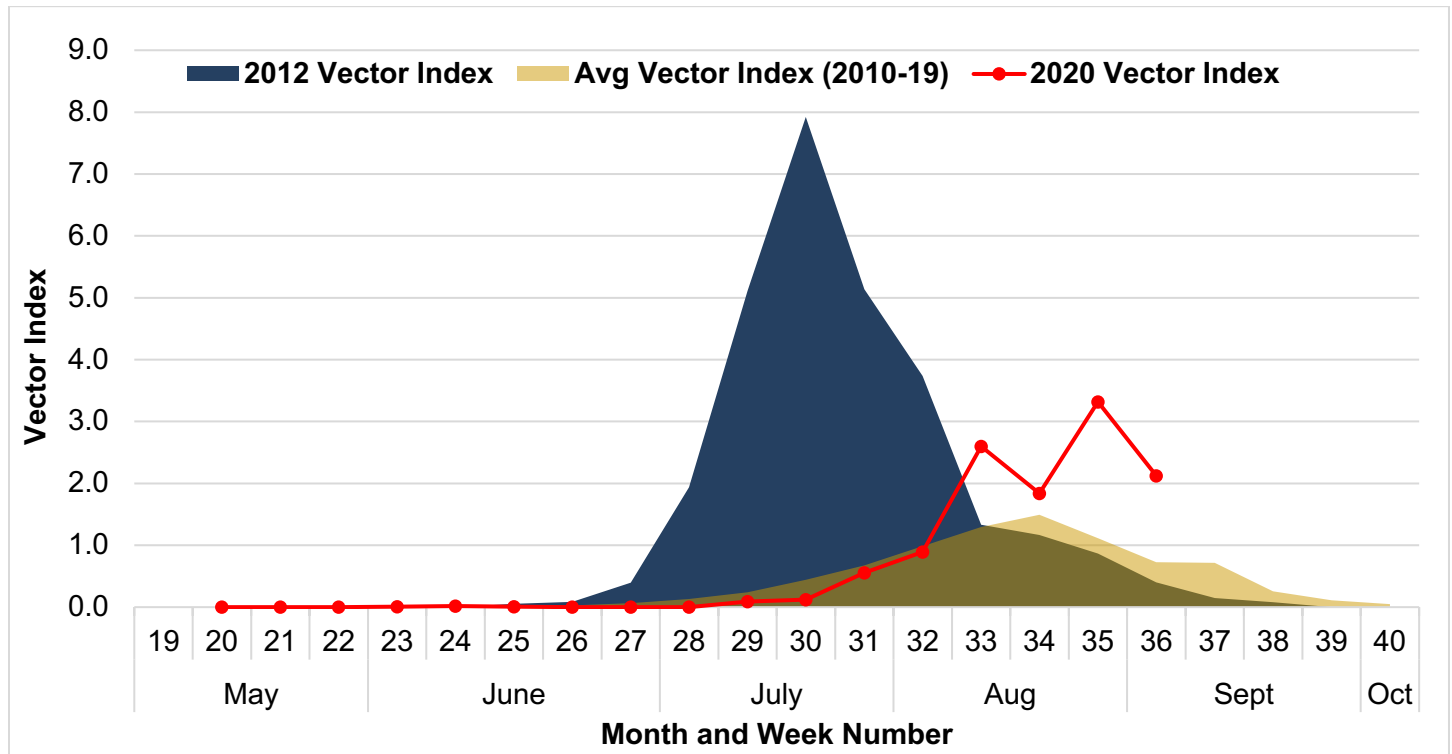
Municipality	Batches Tested This Week		Batches Tested Season Total	
	# WNV+	# Tested	# WNV+	# Tested
Evanston	28	34	176	498
Glencoe	2	3	22	69
Glenview/Golf	10	11	69	190
Kenilworth	3	4	21	82
Lincolnwood	4	6	35	131
Morton Grove	9	9	37	114
Niles	7	9	30	92
Northbrook	2	3	15	68
Northfield	4	7	21	106
Skokie	18	21	114	364
Wilmette	9	10	39	120
Winnetka	8	9	26	131
<b>Total</b>	<b>104</b>	<b>126</b>	<b>605</b>	<b>1965</b>

**WNV Vector Abundance:** Our traps indicate there was a substantial decrease in the abundance of *Culex* spp. mosquitoes during week 36.



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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 36 decreased to 2.12 from 3.32 in week 35. The risk of infection, while declining, remains moderate at this time. A vector index greater than 1.0 is associated with increased risk of human infections.



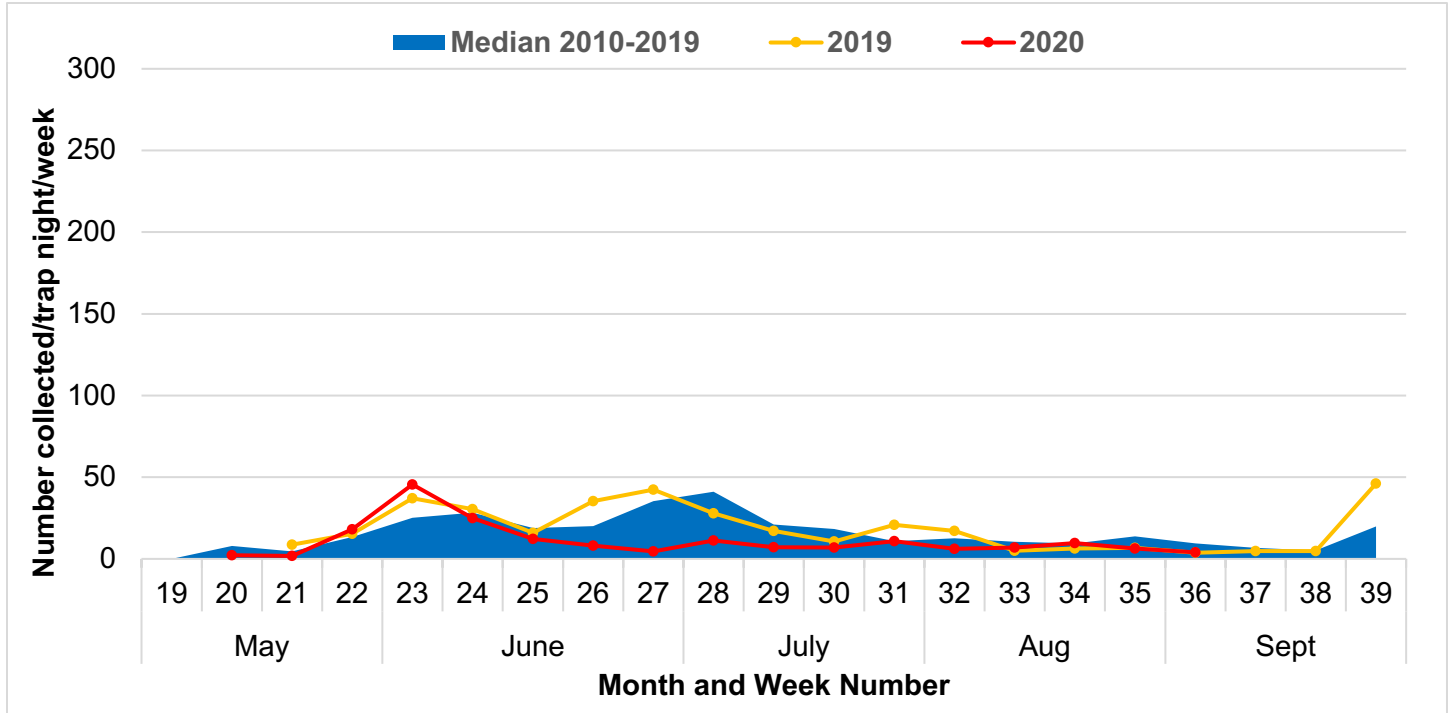
Vector Index during most recent outbreak year (2012), average of non-outbreak years 2010-2018 and current year 2020.  
Vector Index = estimate of the number of WNV-infected *Culex pipiens* collected per trap, per day.

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## Nuisance Mosquito Surveillance

Surveillance Data: Nuisance mosquito abundance remained low during week 36.

## New Jersey Light Trap Collections



## Human Surveillance

The [Illinois Department of Public Health](#) is reporting one human case of WNV in DuPage County.

## Aedes albopictus Information

We collected two female *Aedes albopictus* mosquitoes in Skokie during week 36. These are the first samples of this invasive species we have collected since the 2017 season.

## Larval Control and Source Reduction

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

Inspections and treatments of floodwater sites will be prioritized during week 38. The third round of treatments in storm water catch basins is ongoing. We are continuing to treat locations that can produce the mosquitoes that carry WNV. This includes 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

There were no adult mosquito control operations during week 36. Please see our [website](#) for the most current information.

## Public Information

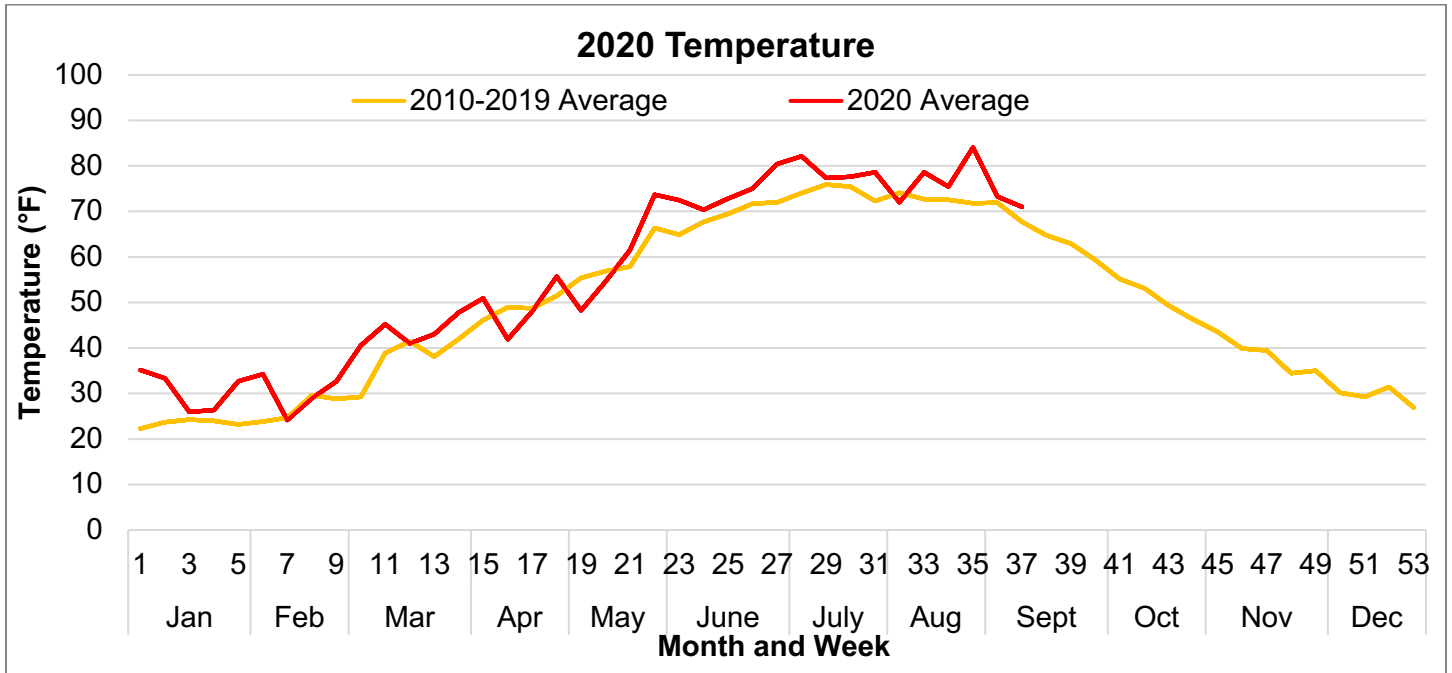
**Please inspect your property for items that may contain stagnant water. If it can hold water, it can breed mosquitoes.**

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.

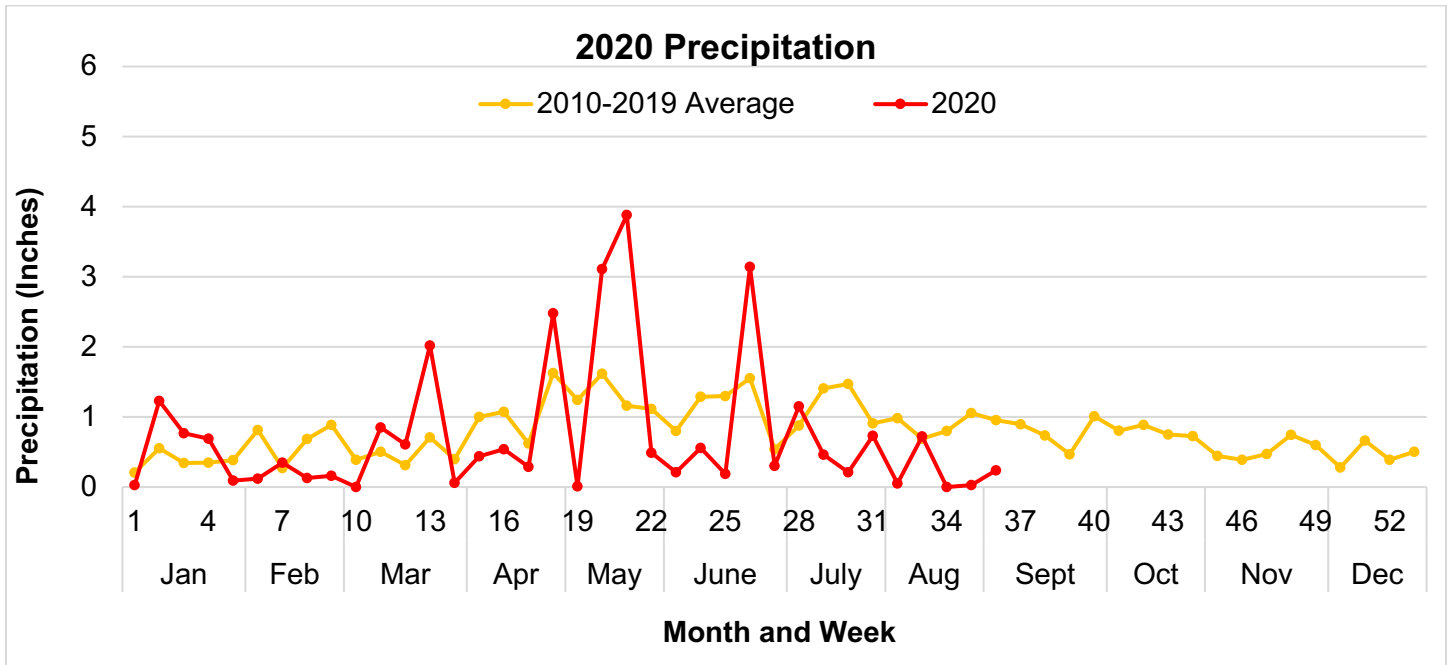
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## Weather Monitoring

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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