

NYSDOH STATEWIDE MOSQUITO-BORNE DISEASE ACTIVITY REPORT September 13, 2018

The New York State Department of Health (NYSDOH) collects, compiles, and analyzes information on mosquito-borne disease activity in New York State (NYS) and produces this weekly report during the mosquito season. Data in this report reflects testing performed by both NYSDOH's Wadsworth Center Laboratories (WC) and the New York City Department of Health and Mental Hygiene's (NYCDOHMH) Public Health Laboratory (PHL). Reports are generally issued on Wednesdays and reflect data reported through the previous Saturday.

Summary:

From September 5 through September 12:

- West Nile Virus (WNV):
 - 95 WNV-positive mosquito pools were identified. (Erie 3, Nassau 9, NYC 30, Onondaga 2, Orange 4, Oswego 4, Rockland 21, Suffolk 17, Westchester 5)
 - 12 human cases of WNV infection (Albany 2, NYC 7, Rensselaer 1, Westchester 1, Suffolk 1) were reported.¹
 - o 2 equine cases of WNV infection (Cattaraugus 1, Livingston 1) were reported.
 - o 0 WNV presumptive viremic donors were reported to CDC.
- Eastern Equine Encephalitis Virus (EEEv):
 - 4 EEEv-positive mosquito pools were identified. (Onondaga 1, Oswego 3)
 - o 0 human cases of EEEv infection were reported.
 - o 0 equine cases of EEEv infection were reported.
- <u>Zika Virus (ZIKV)</u>:
 - Aedes albopictus has been identified in **Broome** county. Aedes aegypti was not identified anywhere in the state.
 - o 0 mosquito pools were positive for Zika virus.
 - o 0 human cases were reported to NYSDOH. No cases of LMBT were identified.
 - o 0 cases of local, mosquito-borne transmission (LMBT) were identified.²
- Chikungunya Virus (CHIKV), Dengue Virus (DENV), and Malaria: 3
 - 0 human case of CHIKV infection were reported to NYSDOH. No cases of LMBT were identified.
 - 0 human cases of DENV infection were reported to NYSDOH. No cases of LMBT were identified.
 - 4 human cases of Malaria infection (Erie 1, Nassau 1, Rensselaer 1, Rockland 1) were reported to NYSDOH. No cases of LMBT were identified.

Year to date:

- <u>WNV:</u>
 - 1261 WNV-positive mosquito pools have been identified.
 - o 24 human cases of WNV infection have been reported.
 - o 4 equine cases of WNV infection have been reported.
 - 0 WNV presumptive viremic donors were reported to CDC.⁴
- <u>EEEv:</u>
 - 21 EEEv-positive mosquito pools have been identified.
 - $\circ \quad$ 0 human cases of EEEv infection have been reported.
 - 1 equine case of EEEv infection has been reported.
- <u>ZIKV</u>:
 - Aedes albopictus has been identified in 6 counties (Broome, Nassau, Orange, Rockland, Suffolk, Westchester) and in NYC. Aedes aegypti has not been identified anywhere in the state.
 - o 0 mosquito pools have been positive for Zika virus.
 - 10 human cases have been reported to NYSDOH, all of which were travelassociated.
 - 0 cases of LMBT have been identified.
- CHKV, DENV, and Malaria:
 - 6 human cases of CHIKV infection have been reported to NYSDOH. No cases of LMBT have been identified.
 - 2 human cases of DENV infection have been reported to NYSDOH. No cases of LMBT have been identified.
 - 42 human cases of Malaria infection have been reported to NYSDOH. No cases of LMBT have been identified.

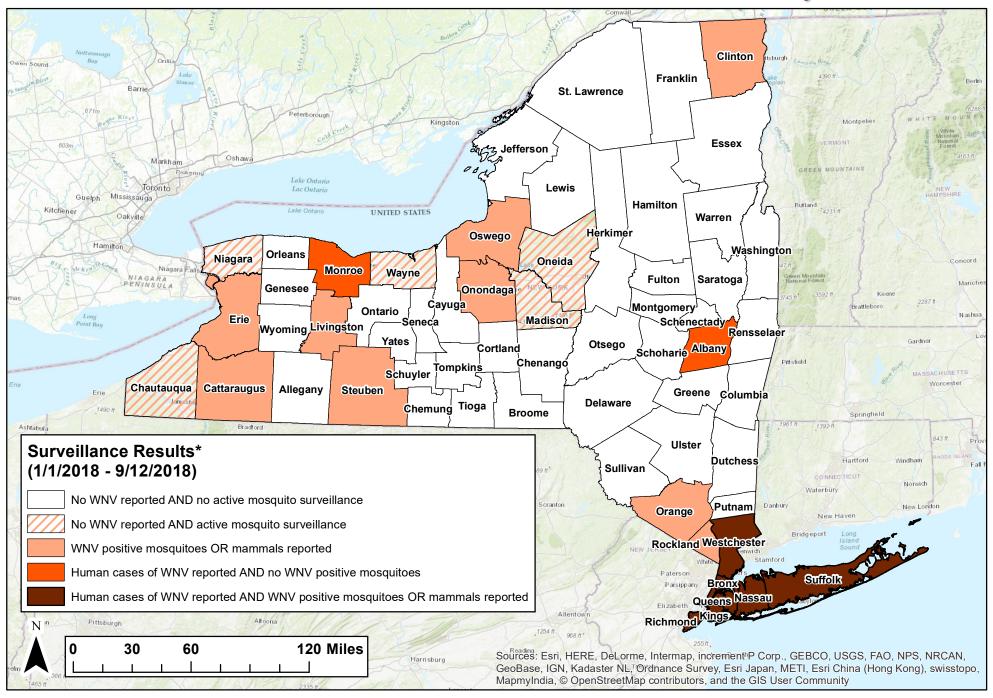
¹Rensselaer county's current week WNV infection is travel associated.

² Local, mosquito-borne transmission is defined by the absence of the following epidemiological risk factors: recent travel to a country or region with known active ZIKV transmission OR sexual contact with a recent traveler from these areas; recent blood transfusion; recent laboratory exposure to ZIKV; or mother-to-child transmission during pregnancy.

³ NYCDOHMH directly reports human cases of CHIKV, DENV and malaria infection to CDC.

⁴ Presumptive viremic donors (PVDs) are people who had no symptoms at the time of donating blood (people with symptoms are deferred from donating) through a blood collection agency, but whose blood tested positive in preliminary tests when screened for the presence of West Nile virus. Some PVDs do go on to develop symptoms after donation, at which point they would be included in the count of human disease cases by their state.

2018 West Nile Virus Surveillance Summary

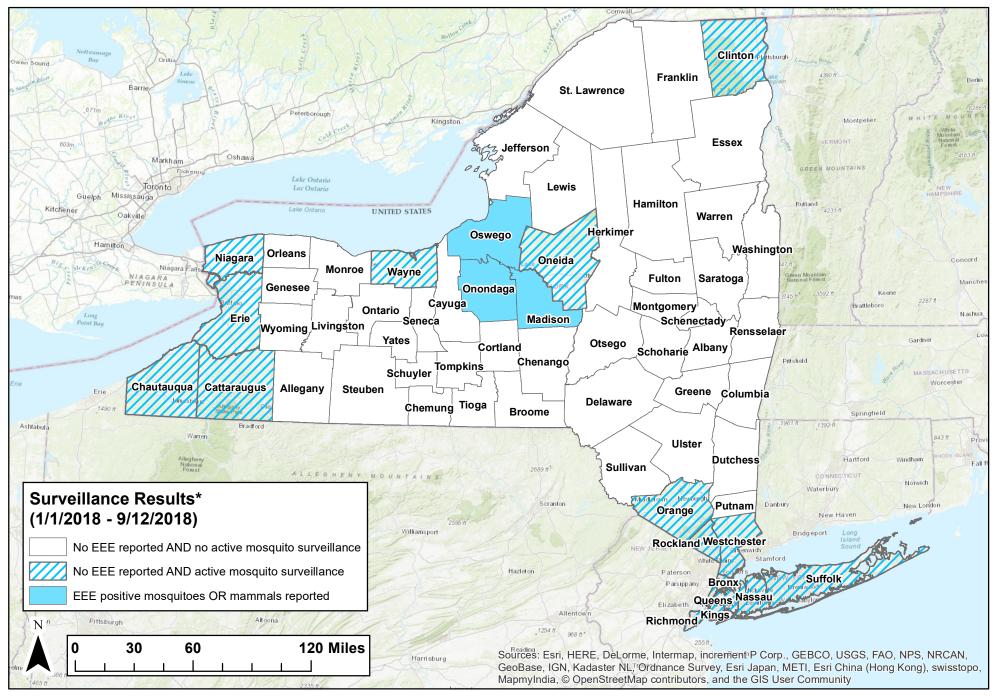


*The number of WNV positive mosquitoes, mammal infections or human cases depends, in part, on the amount of surveillance and testing performed in each county, and is not necessarily associated with the degree of WNV risk.

Map Scale: 1:3,000,000 NYSDOH, BCDC - September 13, 2018

-- Map shows results reported through date range indicated.

2018 Eastern Equine Encephalitis Virus Surveillance Summary

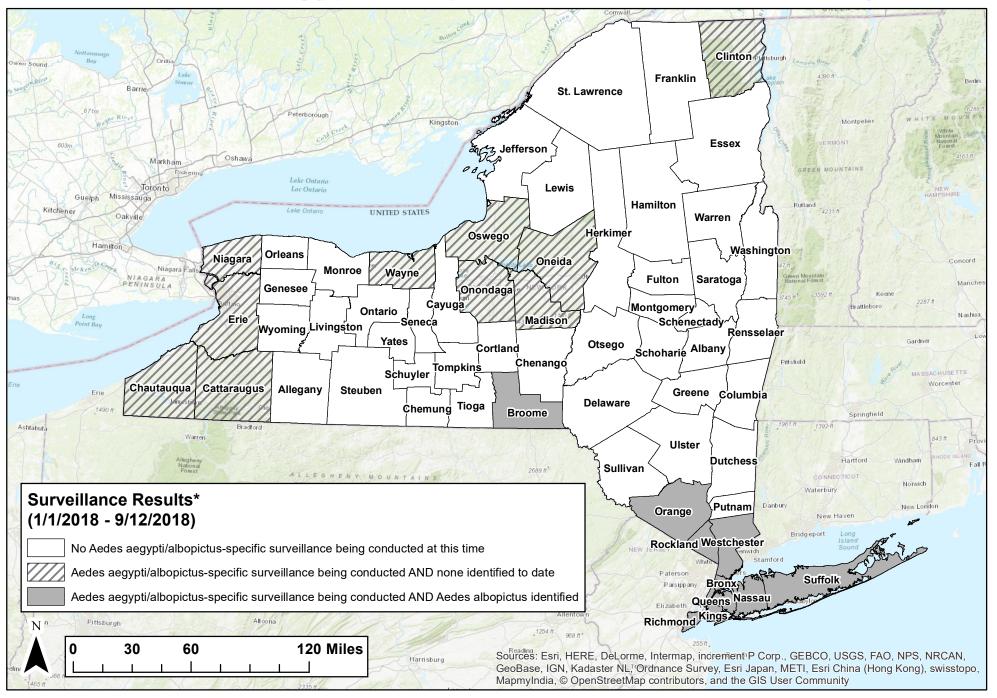


*The number of EEE positive mosquitoes, mammal infections or human cases depends, in part, on the amount of surveillance and testing performed in each county, and is not necessarily associated with the degree of EEE risk.

Map Scale: 1:3,000,000

-- Map shows results reported through date range indicated.

2018 Aedes aegypti/albopictus Surveillance Summary

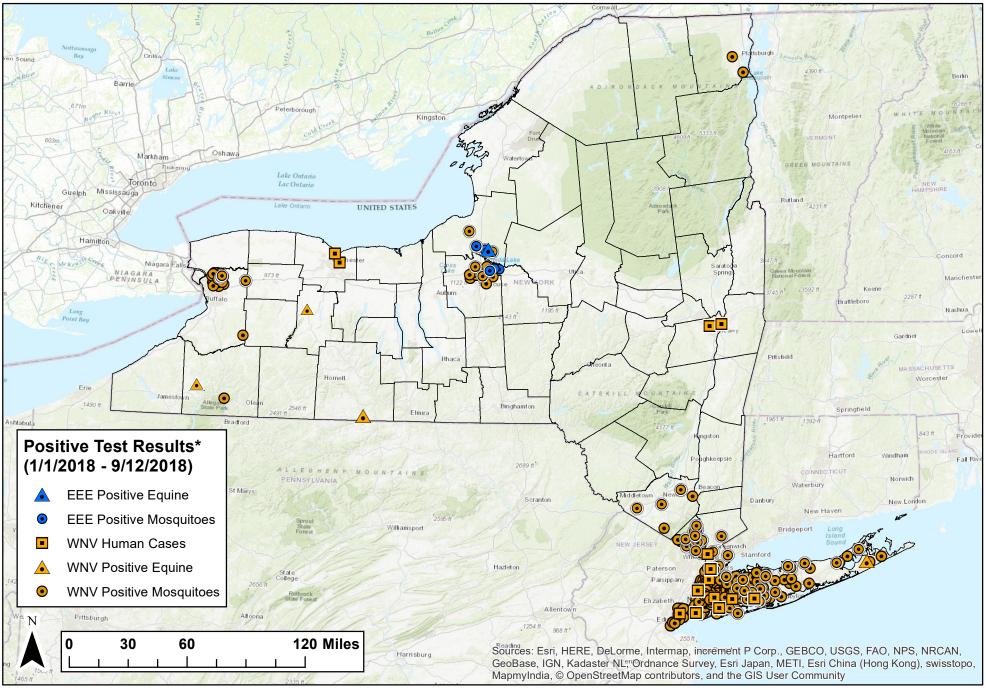


*The total number of Aedes aegypti or albopictus identified within a county depends on the amount of surveillance performed in each county, and is not necessarily associated with degree of Zika risk.

-- Map shows results reported through date range indicated.

Map Scale: 1:3,000,000

2018 Mosquito-borne Illness Surveillance



*Current week positives are highlighted with a white halo around the respective specimen symbols.

-- Human cases represent local mosquito-borne transmission (LMBT). Travel associated cases are not included.

-- NYC positive human cases are placed randomly in the patient's county of residence.

-- Map shows results reported through date range indicated.

New York State Arboviral Surveillance Summary 1/1/18-9/12/18

	Eas	tern Equine	Encephalitis	West Nile				
Jurisdiction	Cases		Postive Mosquito Pools	Ca	ses	Positive Mosquito Pools		
	Human	Equine	Postive Mosquito Pools	Human	Equine	Positive Mosquito Pools		
ALBANY	0	0		2	0			
ALLEGANY	0	0		0	0			
BROOME	0	0		0	0			
CATTARAUGUS*	0	0	0	0	1	2		
CAYUGA	0	0		0	0			
CHAUTAUQUA*	0	0	0	0	0	0		
CHEMUNG	0	0		0	0			
CHENANGO	0	0		0	0			
CLINTON*	0	0	0	0	0	3		
COLUMBIA	0	0		0	0			
CORTLAND	0	0		0	0			
	-			-	-			
DELAWARE	0	0		0	0			
DUTCHESS	0	0	0	0	0			
ERIE*	0	0	0	0	0	34		
ESSEX	0	0		0	0			
FRANKLIN	0	0		0	0			
FULTON	0	0		0	0			
GENESEE	0	0		0	0			
GREENE	0	0		0	0			
HAMILTON	0	0		0	0			
HERKIMER	0	0		0	0			
JEFFERSON	0	0		0	0			
LEWIS	0	0		0	0			
LIVINGSTON	0	0		0	1			
MADISON*	0	0	1	0	0	0		
MONROE	0	0		2 (1)	0			
MONTGOMERY	0	0		0	0			
NASSAU*	0	0	0	1	0	73		
NIAGARA*	0	0	0	0	0	0		
ONEIDA*	0			-	0	0		
	-	0	0	0	-			
ONONDAGA*	0	0	6	0	0	16		
ONTARIO	0	0		0	0			
ORANGE*	0	0	0	0	0	12		
ORLEANS	0	0		0	0			
OSWEGO*	0	1	14	0	0	5		
OTSEGO	0	0		0	0			
PUTNAM	0	0	0	0	0			
RENSSELAER	0	0		1	0			
ROCKLAND*	0	0	0	0	0	118		
ST LAWRENCE	0	0		0	0			
SARATOGA	0	0		0	0			
SCHENECTADY	0	0		0	0			
SCHOHARIE	0	0		0	0			
SCHUYLER	0	0		0	0			
SENECA	0	0		0	0			
STEUBEN	0	0		0	1			
SUFFOLK*	0	0	0	1	1	117		
SULLIVAN	0	0	0	0	0			
TIOGA	0	0		0	0			
TOMPKINS								
	0	0		0	0			
ULSTER	0	0	0	0	0			
WARREN	0	0		0	0			
WASHINGTON	0	0		0	0			
WAYNE*	0	0	0	0	0	0		
WESTCHESTER*	0	0	0	2	0	8		
WYOMING	0	0		0	0			
YATES	0	0		0	0			
NYS (excluding NYC) TOTAL	0	1	21	9	4	388		
NYC* TOTAL	0	0	0	15 (2)	0	873		
NYS TOTAL	0	1	21	24	4	1261		

* Jurisdiction conducting mosquito surveillance. ** Number(s) in parentheses indicates fatal case(s)

... Rensselaer Co. WNV Human Case is travel associated.

New York State Arboviral Surveillance Summary 1/1/18-9/12/18

Travel associated LMBT** Pools ALLEGANY 0 0 ALLEGANY 0 0 BROOME 0 0 0 CATTARAUGUS* 0 0 0 CATUGA 0 0 0 CAYUGA 0 0 CANUTAUOUA* 0 0 CHENANGO 0 0 CHENANGO 0 0 COLUMBIA 0 0 DUTCHESS 0 0 FRAIKLIN 0 0 FUITON 0 0 GREENE 0 0 HAMILTON 0 0 LIVINGSTON 0 0 MDISON* 0 0 MALISON 0 0 MALISON 0 0		Zika						
ALBANY 0 0	Jurisdiction	Human		Positive Mosquito				
ALLEGANY 0 0		Travel associated	LMBT**	Pools				
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CAYUGA 0 0		0	0					
CHAUTAUQUA* 0 0 0 CHEMING 0 0	CATTARAUGUS*	0	0	0				
CHEMUNG 0	CAYUGA	0	0					
CHENANGO 0	CHAUTAUQUA*	0	0	0				
CLINTON* 0 0 0 0 COLUMBIA 0 0	CHEMUNG	0	0					
COLUMBIA 0 0		0	0					
CORTLAND 0 0		0	0	0				
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				-				
	NYC* TOTAL	0	0	0				
	NYS TOTAL	10	0	0				

* Jurisdiction conducting mosquito surveillance. **Local mosquito-borne transmission. †NYCDOHMH directly reports human cases of ZIKv to CDC.

New York State Arboviral Surveillance Summary 1/1/18-9/12/18

	Chikungunya			Dengue			Malaria		
Jurisdiction		Human Cases		Human Cases Positive		Humar	Positive		
	Travel associated	LMBT**	Postive Mosquito Pools	Travel associated	LMBT**	Mosquito Pools	Travel associated	LMBT**	Mosquito Pools
ALBANY	0	0		0	0		2	0	
ALLEGANY	0	0		0	0		0	0	
BROOME	0	0		0	0		0	0	
CATTARAUGUS*	0	0	0	0	0	0	1	0	0
CAYUGA	0	0		0	0		0	0	
CHAUTAUQUA*	0	0	0	0	0	0	0	0	0
CHEMUNG	1	0		0	0		0	0	
CHENANGO	0	0		0	0		0	0	
CLINTON*	0	0	0	0	0	0	0	0	0
COLUMBIA	0	0		0	0		0	0	
CORTLAND	0	0		0	0		0	0	
DELAWARE	0	0		0	0		0	0	
DUTCHESS	0	0		0	0		2	0	
ERIE*	0	0	0	0	0	0	3	0	0
ESSEX	0	0		0	0		0	0	
FRANKLIN	0	0		0	0		0	0	
FULTON	0	0		0	0		0	0	
GENESEE	0	0		0	0		0	0	
GENESEE	0	0		0	0		0	0	
HAMILTON	0	0		0	0		0	0	
	-							-	
HERKIMER	0	0		0	0		0	0	
JEFFERSON	0	0		0	0		0	0	
LEWIS	0	0		0	0		0	0	
LIVINGSTON	0	0		0	0		0	0	
MADISON*	0	0	0	0	0	0	0	0	0
MONROE	1	0		0	0		0	0	
MONTGOMERY	0	0		0	0		0	0	
NASSAU*	0	0	0	1	0	0	6	0	0
NIAGARA*	0	0	0	0	0	0	0	0	0
ONEIDA*	0	0	0	0	0	0	2	0	0
ONONDAGA*	1	0	0	0	0	0	6	0	0
ONTARIO	1	0		1	0		0	0	
ORANGE*	0	0	0	0	0	0	1	0	0
ORLEANS	0	0		0	0		0	0	
OSWEGO*	0	0	0	0	0	0	0	0	0
OTSEGO	0	0		0	0		0	0	
PUTNAM	0	0		0	0		0	0	
RENSSELAER	0	0		0	0		1	0	
ROCKLAND*	0	0	0	0	0	0	1	0	0
ST LAWRENCE	0	0		0	0		0	0	
SARATOGA	0	0		0	0		1	0	
SCHENECTADY	0	0		0	0		0	0	
SCHOHARIE	0	0		0	0		0	0	
SCHUYLER	0	0		0	0		0	0	
SENECA	0	0		0	0		0	0	
STEUBEN	0	0		0	0		0	0	
SUFFOLK*	1	0	0	0	0	0	6	0	0
SULLIVAN	0	0		0	0		0	0	
TIOGA	0	0		0	0		0	0	
TOMPKINS	0	0		0	0		0	0	
ULSTER	0	0		0	0		0	0	
WARREN	0	0		0	0		0	0	
WASHINGTON	0	0		0	0		0	0	
WAYNE*	0	0	0	0	0	0	0	0	0
WESTCHESTER*	1	0	0	0	0	0	9	0	0
WYOMING	0	0		0	0		0	0	
YATES	0	0		0	0		0	0	
NYS (excluding NYC) TOTAL	6	0	0	2	0	0	42	0	0
NYC* [†] TOTAL		0			0	0		0	
NYS TOTAL	<u>^</u>		^	_			40		0
INTS TUTAL	6	0	0	2	0	0	42	0	0

*Jurisdiction conducting mosquito surveillance.

"Local mosquito-borne transmission.

 $^\dagger NYCDOHMH$ directly reports human cases of CHKV, DENV and malaria infection to CDC.

United States Mosquito-Borne Disease Surveillance and Other Information

Current and historic nationwide surveillance information on mosquito-borne illnesses in the United States can be found at <u>http://diseasemaps.usgs.gov/mapviewer/</u>.

- Specific information about WNV, including statistics and maps, can be found at http://www.cdc.gov/westnile/.
- Specific information about EEEv, including statistics and maps, can be found at http://www.cdc.gov/EasternEquineEncephalitis.
- Specific information about Zika virus, including statistics and maps of areas with active mosquito-borne transmission of Zika virus can be found at http://www.cdc.gov/zika/.
- Specific information about chikungunya virus, including statistics and maps, can be found at http://www.cdc.gov/chikungunya/.
- Specific information about dengue fever, including statistics and maps, can be found at can be at http://www.cdc.gov/dengue/.
- Specific information about malaria, including statistics and maps, can be found here at http://www.cdc.gov/malaria/.