



**NYSDOH STATEWIDE MOSQUITO-BORNE DISEASE  
ACTIVITY REPORT  
October 10, 2019**

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 October 2 through October 10:

- West Nile Virus (WNV):
  - 20 WNV-positive mosquito pools were identified. **(Nassau 2, NYC 9, Rockland 6, Suffolk 3)**
  - 1 human case of WNV infection was reported. **(NYC 1)**
  - 0 equine cases of WNV infection were reported.
  - 1 WNV presumptive viremic donor was reported to the Centers for Disease Control and Prevention (CDC).<sup>1</sup> **(Saratoga 1)**
  
- Eastern Equine Encephalitis Virus (EEEV):
  - 8 EEEV-positive mosquito pools were identified. **(Onondaga 6, Suffolk 2)**
  - 0 human cases of EEEV infection were reported.
  - 1 equine case of EEEV infection was reported. **(Oneida 1)**
  - 0 caprine cases of EEEV infection were reported.<sup>2</sup>
  - 0 ratite cases of EEEV infection were reported.<sup>3</sup>
  
- Zika Virus (ZIKV):
  - *Aedes albopictus* was not identified in any additional counties. *Aedes aegypti* was not identified anywhere in the State.
  - 0 mosquito pools were positive for Zika virus.
  - 0 human cases were reported to NYSDOH. No cases of Local mosquito-borne transmission (LMBT) were identified.<sup>4</sup>
  
- Chikungunya Virus (CHIKV), Dengue Virus (DENV), and Malaria:<sup>5</sup>
  - 0 human cases of CHIKV infection were reported to NYSDOH. No cases of LMBT were identified.
  - 5 human cases of DENV infection **(Herkimer 1, Nassau 1, Onondaga 1, Otsego 1, Rockland 1)** were reported to NYSDOH. No cases of LMBT were identified.
  - 1 human case of Malaria infection **(Westchester 1)** was reported to NYSDOH. No cases of LMBT were identified.

Year to date:

- WNV:
  - 553 WNV-positive mosquito pools have been identified.
  - 11 human cases of WNV infection have been reported.
  - 0 equine cases of WNV infection have been reported.
  - 1 WNV presumptive viremic donor has been reported to CDC.
  
- EEEV:
  - 66 EEEV-positive mosquito pools have been identified.
  - 0 human cases of EEEV infection have been reported.
  - 6 equine cases of EEEV infection have been reported.
  - 1 caprine case of EEEV infection has been reported.
  - 1 ratite case of EEEV infection has been reported.
  
- ZIKV:
  - *Aedes albopictus* has been identified in 5 counties (**Nassau, Orange, Rockland, Suffolk, Westchester**) and in NYC. *Aedes aegypti* has not been identified anywhere in the state.
  - 0 mosquito pools have been positive for Zika virus.
  - 5 human cases have been reported to NYSDOH. No cases of LMBT have been identified.
  
- CHIKV, DENV, and Malaria:
  - 2 human cases of CHIKV infection have been reported to NYSDOH. No cases of LMBT have been identified.
  - 24 human cases of DENV infection have been reported to NYSDOH. No cases of LMBT have been identified.
  - 38 human cases of Malaria infection have been reported to NYSDOH. No cases of LMBT have been identified.

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<sup>1</sup> 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.

<sup>2</sup> Caprine – of, relating to, or being a goat.

<sup>3</sup> Ratite – (of a bird) having a flat breastbone without a keel, and so unable to fly.

<sup>4</sup> 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. NYCDOHMH directly reports human cases of ZIKV infection to CDC.

<sup>5</sup> NYCDOHMH directly reports human cases of CHIKV, DENV and malaria infection to CDC.

**New York State Arboviral Surveillance  
Summary 1/1/19-10/10/19**

Jurisdiction	Eastern Equine Encephalitis					West Nile		
	Cases				Positive Mosquito Pools	Cases		Positive Mosquito Pools
	Human	Equine	Caprine***	Ratite****		Human	Equine	
ALBANY	0	0	0	0	--	0	0	--
ALLEGANY	0	0	0	0	--	0	0	--
BROOME	0	0	0	0	--	0	0	--
CATTARAUGUS*	0	0	0	0	0	0	0	0
CAYUGA	0	0	0	0	--	0	0	--
CHAUTAUQUA*	0	0	0	0	0	0	0	0
CHEMUNG	0	0	0	0	--	0	0	--
CHENANGO	0	0	0	0	--	0	0	--
CLINTON*	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	0	0	0	--
ERIE*	0	0	0	0	0	0	0	10
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	--
GREENE	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	2	0	0	0
MONROE	0	0	0	0	--	0	0	--
MONTGOMERY	0	0	0	0	--	0	0	--
NASSAU*	0	0	0	0	0	1	0	36
NIAGARA*	0	0	0	0	0	0	0	0
ONEIDA*	0	1	0	0	0	0	0	0
ONONDAGA*	0	0	0	0	14	1	0	4
ONTARIO	0	1	0	0	--	0	0	--
ORANGE*	0	0	0	0	0	0	0	0
ORLEANS	0	0	0	0	--	0	0	--
OSWEGO*	0	4	1	0	40	0	0	0
OTSEGO	0	0	0	0	--	0	0	--
PUTNAM	0	0	0	0	0	0	0	--
RENSSELAER	0	0	0	0	--	0	0	--
ROCKLAND*	0	0	0	0	1	0	0	36
ST LAWRENCE	0	0	0	0	--	0	0	--
SARATOGA	0	0	0	0	--	0	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*	0	0	0	0	9	2	0	77
SULLIVAN	0	0	0	1	0	0	0	--
TIOGA	0	0	0	0	--	0	0	--
TOMPKINS	0	0	0	0	--	0	0	--
ULSTER	0	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
WESTCHESTER*	0	0	0	0	0	0	0	2
WYOMING	0	0	0	0	--	0	0	--
YATES	0	0	0	0	--	0	0	--
<b>NYS (excluding NYC) TOTAL</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>66</b>	<b>4</b>	<b>0</b>	<b>165</b>
<b>NYC* TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>388</b>
<b>NYS TOTAL</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>66</b>	<b>11</b>	<b>0</b>	<b>553</b>

\* Jurisdiction conducting mosquito surveillance.  
 \*\* Number(s) in parentheses indicates fatal case(s)  
 \*\*\* Caprine – of, relating to, or being a goat.  
 \*\*\*\* Ratite – (of a bird) having a flat breastbone without a keel, and so unable to fly.

**New York State Arboviral Surveillance  
Summary 1/1/19-10/10/19**

Jurisdiction	Zika		
	Human Cases		Positive Mosquito Pools
	Travel associated	LMBT**	
ALBANY	0	0	--
ALLEGANY	0	0	--
BROOME	0	0	--
CATTARAUGUS*	0	0	0
CAYUGA	0	0	--
CHAUTAUQUA*	0	0	0
CHEMUNG	0	0	--
CHENANGO	0	0	--
CLINTON*	0	0	0
COLUMBIA	0	0	--
CORTLAND	0	0	--
DELAWARE	0	0	--
DUTCHESS*	0	0	0
ERIE*	0	0	0
ESSEX	0	0	--
FRANKLIN	0	0	--
FULTON	0	0	--
GENESEE	0	0	--
GREENE	0	0	--
HAMILTON	0	0	--
HERKIMER	0	0	--
JEFFERSON	0	0	--
LEWIS	0	0	--
LIVINGSTON	0	0	--
MADISON*	0	0	0
MONROE	0	0	--
MONTGOMERY	0	0	--
NASSAU*	4	0	0
NIAGARA*	0	0	0
ONEIDA*	0	0	0
ONONDAGA*	0	0	0
ONTARIO	0	0	--
ORANGE*	0	0	0
ORLEANS	0	0	--
OSWEGO*	0	0	0
OTSEGO	0	0	--
PUTNAM*	0	0	0
RENSSELAER	0	0	--
ROCKLAND*	0	0	0
ST LAWRENCE	0	0	--
SARATOGA	0	0	--
SCHENECTADY	0	0	--
SCHOHARIE	0	0	--
SCHUYLER	0	0	--
SENECA	0	0	--
STEUBEN	0	0	--
SUFFOLK*	1	0	0
SULLIVAN	0	0	0
TIOGA	0	0	--
TOMPKINS	0	0	--
ULSTER	0	0	0
WARREN	0	0	--
WASHINGTON	0	0	--
WAYNE*	0	0	0
WESTCHESTER*	0	0	0
WYOMING	0	0	--
YATES	0	0	--
<b>NYS (excluding NYC) TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>
<b>NYC** TOTAL</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>NYS TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>

\* Jurisdiction conducting mosquito surveillance.

\*\*Local mosquito-borne transmission.

†NYCDOHMH directly reports human cases of ZIKV infection to CDC.

**New York State Arboviral Surveillance  
Summary 1/1/19-10/10/19**

Jurisdiction	Chikungunya			Dengue			Malaria		
	Human Cases		Positive Mosquito Pools	Human Cases		Positive Mosquito Pools	Human Cases		Positive Mosquito Pools
	Travel associated	LMBT**		Travel associated	LMBT**		Travel associated	LMBT**	
ALBANY	0	0	--	1	0	--	1	0	--
ALLEGANY	0	0	--	0	0	--	0	0	--
BROOME	0	0	--	0	0	--	0	0	--
CATTARAUGUS*	0	0	0	0	0	0	0	0	0
CAYUGA	0	0	--	0	0	--	0	0	--
CHAUTAUQUA*	0	0	0	0	0	0	0	0	0
CHEMUNG	0	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	0	0	3	0	0
ERIE*	0	0	0	1	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	--
GREENE	0	0	--	0	0	--	0	0	--
HAMILTON	0	0	--	0	0	--	0	0	--
HERKIMER	0	0	--	1	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	0	0	--	1	0	--	2	0	--
MONTGOMERY	0	0	--	0	0	--	0	0	--
NASSAU*	0	0	0	4	0	0	8	0	0
NIAGARA*	0	0	0	0	0	0	0	0	0
ONEIDA*	0	0	0	0	0	0	0	0	0
ONONDAGA*	0	0	0	2	0	0	5	0	0
ONTARIO	0	0	--	0	0	--	0	0	--
ORANGE*	0	0	0	1	0	0	0	0	0
ORLEANS	1	0	--	0	0	--	0	0	--
OSWEGO*	0	0	0	1	0	0	0	0	0
OTSEGO	0	0	--	2	0	--	0	0	--
PUTNAM	0	0	0	0	0	0	0	0	0
RENSSELAER	0	0	--	0	0	--	0	0	--
ROCKLAND*	0	0	0	3	0	0	1	0	0
ST LAWRENCE	0	0	--	1	0	--	0	0	--
SARATOGA	0	0	--	1	0	--	0	0	--
SCHENECTADY	0	0	--	0	0	--	1	0	--
SCHOHARIE	0	0	--	0	0	--	0	0	--
SCHUYLER	0	0	--	0	0	--	0	0	--
SENECA	0	0	--	0	0	--	0	0	--
STEBEN	0	0	--	0	0	--	0	0	--
SUFFOLK*	1	0	0	2	0	0	2	0	0
SULLIVAN	0	0	0	0	0	0	1	0	0
TIOGA	0	0	--	0	0	--	0	0	--
TOMPKINS	0	0	--	0	0	--	0	0	--
ULSTER	0	0	0	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*	0	0	0	3	0	0	11	0	0
WYOMING	0	0	--	0	0	--	0	0	--
YATES	0	0	--	0	0	--	0	0	--
NYS (excluding NYC) TOTAL	2	0	0	24	0	0	38	0	0
NYC** TOTAL	--	0	--	--	0	0	--	0	--
NYS TOTAL	2	0	0	24	0	0	38	0	0

\*Jurisdiction conducting mosquito surveillance.

\*\*Local mosquito-borne transmission.

\*\*NYCDOHMH directly reports human cases of CHIKV, 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 [https://wwwn.cdc.gov/arboNET/Maps/ADB\\_Diseases\\_Map/index.html](https://wwwn.cdc.gov/arboNET/Maps/ADB_Diseases_Map/index.html)

- 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 <http://www.cdc.gov/dengue/>.
- Specific information about malaria, including statistics and maps, can be found here at <http://www.cdc.gov/malaria/>.