



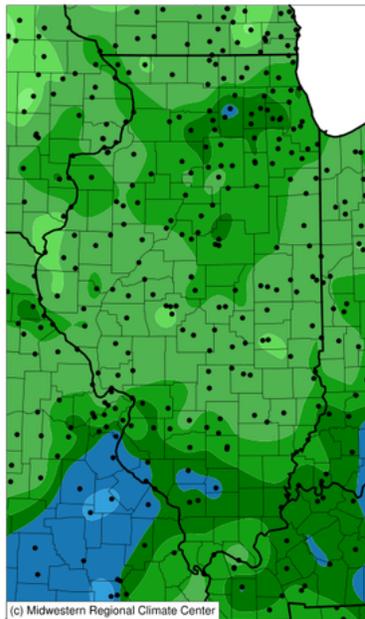
Lisle Township May 2016 - Status Report

Season Perspective

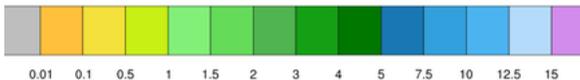
Weather conditions critically affect the seasonal mosquito population. Excessive rainfall periods trigger hatches of floodwater mosquitoes (*Aedes vexans*), the dominant annoyance species in northern Illinois that has a flight range of 15 to 20 miles. The other target species is the northern house mosquito (*Culex pipiens*), the primary vector of West Nile virus (WNV) that flourishes under stagnant water drought conditions.

The Illinois State Water Survey map for May shows excessive precipitation in northern Illinois. Including the heavy storms prior to Memorial Day weekend, many areas received over 6 inches of rain for the month. Saturated soil moisture conditions set the stage for an above average season for the floodwater mosquito. As shown by the National Weather Service temperature map, above normal temperatures are predicted for June. As a result, a series of back-to-back floodwater mosquito broods are anticipated to arrive in June to cause significant annoyance conditions.

Accumulated Precipitation (in)
May 01, 2016 to May 23, 2016

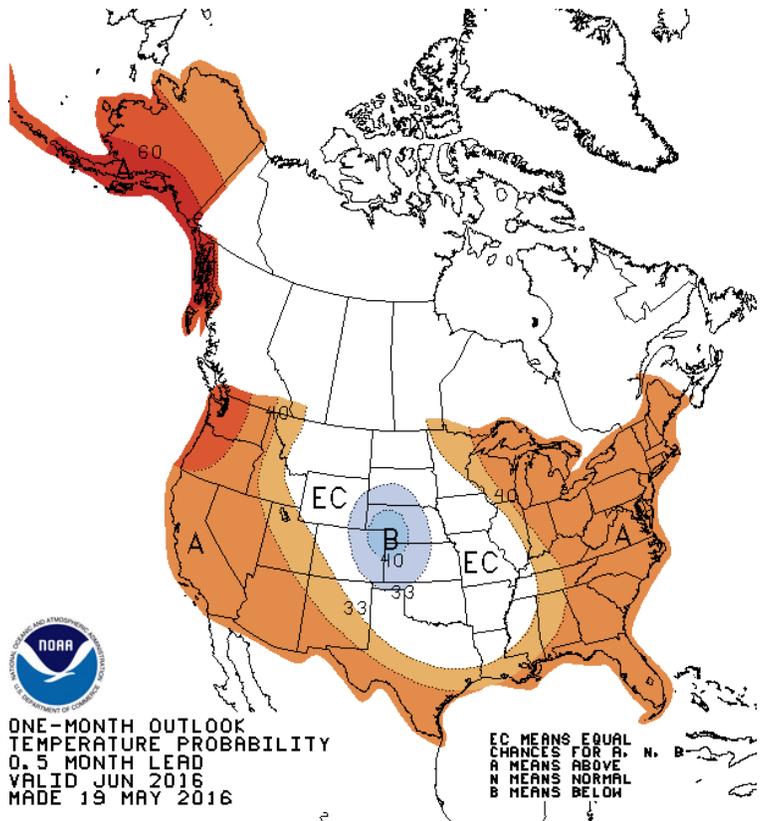


(c) Midwestern Regional Climate Center



Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI,

Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
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Mosquito-Borne Disease Update

West Nile Virus (WNV)

In 2015 a total of 48 states and the District of Columbia reported West Nile virus infections in people, birds, or mosquitoes in 2015. Overall, 2,060 cases of West Nile virus disease in people were reported to CDC, including 119 fatalities. Of these, 1,360 (66%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 700 (34%) were classified as non-neuroinvasive disease.

On May 31st, IDPH reported the first WNV+ sample by North Shore MAD in Glenview.

Zika Virus (ZIKV)

As of May 18, 2016, the CDC has reported 544 travel-associated human cases of ZIKV in the United States, 10 of which were sexually transmitted. Florida has confirmed the most ZIKV travel-associated cases (109), and Illinois 16. No local transmission of ZIKV from mosquitoes to humans has been reported in the continental United States.

U.S. territories (U.S. Virgin Islands, American Samoa, and Puerto Rico) have reported 836 ZIKV human cases.

Brood Prediction

The floodwater mosquito (*Aedes vexans*) is the key nuisance species in the Chicagoland area. Distinct hatches of floodwater mosquito populations, or broods, are triggered by significant rainfall events. The Clarke Brood Prediction Model calculates peak annoyance periods based on rainfall and temperature data collected from weather stations in your area.

Weather Station Name	Rainfall Date	Rain Amount (inches)	Brood Prediction Date
Du Page Co.	04/27/2016	1.02	05/11/2016
Du Page Co.	04/30/2016	0.67	05/27/2016
Du Page Co.	05/03/2016	0.40	05/29/2016
Du Page Co.	05/10/2016	0.72	05/30/2016
Du Page Co.	05/11/2016	1.73	05/30/2016
Du Page Co.	05/13/2016	0.66	06/01/2016
Du Page Co.	05/25/2016	0.57	06/08/2016
Du Page Co.	05/31/2016	0.59	06/14/2016

Upcoming June Operations:

- 2 Targeted Inspections
- 1 Catch Basin Treatment
- 1 Helicopter Treatment



Recommendations

The CDC currently shows a risk category 1. Biting adult mosquitoes activity and limited or sporadic epizootic activity in birds or mosquitoes. Conduct Integrated Vector Management program to monitor and reduce vector mosquito abundance. Conduct environmental surveillance to monitor virus activity (mosquitoes, sentinel chickens, avian mortality, etc.) Initiate community outreach and public education programs focused on personal protection and residential source reduction.

Operation and Surveillance Reports

Below is a report outlining all services performed in the month of May. These services could include the following:

- **0952 N. J. Light Trap Seasonal Service:** *Seasonal Light Trap Service for adult mosquito population monitoring.*
- **1054 WNV Gravid Trap Service:** *Seasonal Light Trap Service for adult mosquito population monitoring.*
- **1252 Complete Site Larval Inspection Service:** *Inspection service of all potential mosquito larvae development sites.*
- **1302 Targeted Site Larval Inspection:** *Inspection of all targeted larval development sites.*
- **1352 Larval Site Service Call:** *Special inspection of standing water for mosquito breeding per hot line request.*
- **1502 Ground Prehatch:** *Ground prehatch for control of mosquito larvae.*
- **1752 Backpack Larviciding:** *Backpack larviciding for biological control of mosquito larvae sites.*
- **1754 Hand Larviciding:** *Hand equipment larviciding for biological control of mosquito larvae.*
- **2006 Natular T30 CB Bike:** *Catch Basin treatment for larval control.*
- **2009 Natular XRT CB Bike:** *Catch Basin treatment for larval control.*
- **2019 Altosid XR CB Bike – 150 Day:** *Catch Basin treatment for larval control.*
- **2020 Altosid XR BYCB Bike – 150 Day:** *Catch Basin treatment for larval control.*
- **2202 5% Abate Heli Prehatch:** *Helicopter prehatch application with Abate pellets for larval control*

Services Performed May 2016:

Service Item	Start Date
ROS2104 - 150-day Altosid Briq-BYCB Trmt	04/27/2016
ROS1302 - Targeted Site Larval Insp Serv	05/04/2016
ROS2202 - 5% Abate Heli Prehatch	05/16/2016
ROS1252 - Complete Site Larval Insp Serv	05/24/2016