



Milton Township August 2011 Status Report

Season Perspective:

A series of heavy rains have continued through August making this summer the wettest summer in over 50 years. As a result, there have been continuous migrations of floodwater mosquito (*Aedes vexans*) broods in August, the primary nuisance species in northern Illinois. Seven (7) broods impacted the area between August 6th and September 6th. Annoyance levels were moderate to heavy during peak brood periods.

The northern house mosquito (*Culex pipiens*) was also prominent during August. This species flourishes in hot weather, stagnant water conditions, and is the primary transmitter of West Nile virus (WNV) in Illinois. To date, five (5) human cases and five hundred forty-two (542) WNV-positive mosquito batches have been reported in Illinois. For the balance of the season, larviciding efforts will be focused on floodwater mosquito sites, as well as, *Culex* sites such as street catch basins, sewage treatment lagoons, and other stagnant water areas. Community residents should be advised to eliminate stagnant water habitats around their yard and home, as well as, wear mosquito repellent products to prevent adult mosquito exposure.

Mosquito-Borne Disease Update:

Illinois Department of Public Health West Nile Virus data summary (as of 8-31-11):

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Other Mammals
Champaign	0	0	0	3	0	0
Cook	6	0	1	440	0	0
DuPage	0	0	0	57	0	0
Gallatin	0	0	0	3	0	0
Jackson	0	0	0	2	0	0
Kane	0	0	0	2	0	0
Kendall	0	0	0	7	0	0
Lake	0	0	0	3	0	0
LaSalle	1	0	1	0	0	0
Macon	0	0	0	8	0	0
McHenry	0	0	0	3	0	0
St. Clair	0	0	0	1	0	0
Tazewell	0	0	0	3	0	0
Will	0	0	0	10	0	0
TOTAL	7	0	2	542	0	0



To date in 2011, there have been 80 human West Nile virus cases, including 3 fatalities, reported to the CDC from the following 13 states: AZ, CA, CO, FL, GA, IL, IN, LA, MD, MS, MO, NE, NV, NJ, NY, ND, OH, SD, TX, VA and WY. There have been five (5) human WNV cases reported in the State of Illinois so far in 2011.

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	Amount (Inches)	Brood Prediction Date
Du Page Co.	07/22/2011	2.64	08/06/2011
Du Page Co.	07/27/2011	1.05	08/12/2011
Du Page Co.	08/05/2011	0.53	08/23/2011
Du Page Co.	08/07/2011	1.13	08/24/2011
Du Page Co.	08/08/2011	1.07	08/26/2011
Du Page Co.	08/13/2011	0.42	08/31/2011
Du Page Co.	08/20/2011	0.68	09/03/2011
Du Page Co.	08/23/2011	1.05	09/06/2011

August 2011 New Jersey Light Trap Counts:

(*Red numbers indicate an annoyance level)

Trap Location	Aug 01	Aug 03	Aug 05	Aug 08	Aug 10	Aug 12	Aug 15	Aug 17
22W155 Valley View	64	66	56	39	13	12	7	7
22W550 Arbor Dr	89	122	127	110	74	43	31	28

Trap Location	Aug 19	Aug 22	Aug 24	Aug 26	Aug 29	Aug 31	Sep 02
22W155 Valley View	17	6	11	4	6	4	14
22W550 Arbor Dr	43	17	13	5	5	7	26

Recommendations:

The CDC currently shows a risk category 3. Increase larval control, source reduction, and public education emphasizing personal protection measures, particularly among the elderly. Intensify adult mosquito control in areas where surveillance indicates human risk, initiate adult mosquito control if not already in progress, initiate visible activities in community to increase attention to WNV transmission risk. Work with collaborators to reduce risks to the elderly.



Operation and Surveillance Reports:

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

- **0952 N. J. Light Trap Seasonal Service:** *Seasonal Light Trap Service for adult mosquito population monitoring.*
- **1054 West Nile Virus Gravid Trap Service:** *Seasonal West Nile Virus monitoring trap services.*
- **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.*
- **1752 Backpack Larviciding:** *Backpack larviciding for biological control of mosquito larvae sites.*
- **1754 Hand Larviciding:** *Hand equipment larviciding for biological control of mosquito larvae.*
- **2002 Catch Basin Trmt:** *Catch Basin treatment for larval control.*
- **2202 Helicopter Prehatch Appl:** *Helicopter prehatch application for larval control.*
- **2402 Helicopter Larviciding:** *Helicopter larvicide application for biological control of mosquito larvae.*
- **2752 Truck ULV Service Call:** *ULV “touch-up” application for control of mosquito annoyance per citizen hotline request.*
- **2802 Truck ULV Appl:** *Truck ULV application for adult mosquito control.*

Services Performed August 2011:

Service Item	Start Date
ROS1352 - Larval Site Service Call	08/02/2011
ROS1302 - Targeted Site Larval Insp Serv	08/03/2011
ROS2888 - Biomist 3+15 Truck ULV	08/10/2011
ROS2002 - Vectolex G Catch Basin Trtmt	08/11/2011
ROS1752 - Vectobac (B.T.I.) BP Larv	08/11/2011
ROS1252 - Complete Site Larval Insp Serv	08/16/2011
ROS2888 - Biomist 3+15 Truck ULV	08/29/2011