



Milton Township July 2011 Status Report

Season Perspective:

The month of July was on pace to be one of the driest on record and the Chicagoland area was entrenched in drought conditions, until July 22nd. Due to a series of heavy rains, July 2011 ended-up becoming the wettest on record. Official rainfall at O'Hare International Airport between July 22nd and 29th totaled 10.45 inches, shattered the 1889 previous record total of 9.56 inches, and broke the drought. As a result, there will be a resurgence of the floodwater mosquito (*Aedes vexans*) in early August, the primary nuisance species in northern Illinois. Three major broods will peak between August 5th and 12th. Annoyance is expected to be similar to the levels experienced back in June.

The hot and dry conditions during the first part of July stimulated the development of the northern house mosquito (*Culex pipiens*). This species flourishes in stagnant water conditions and is the primary transmitter of West Nile virus (WNV) in Illinois. To date, twenty six (26) WNV-positive mosquito batches have been reported in Illinois. In August, not only will larviciding efforts be focused on floodwater mosquito sites, but also *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 7-28-2011)

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Other Mammals
Cook	0	0	0	16	0	0
DuPage	0	0	0	3	0	0
Gallatin	0	0	0	2	0	0
Kendall	0	0	0	3	0	0
LaSalle	1	0	1	0	0	0
St. Clair	0	0	0	1	0	0
Tazewell	0	0	0	1	0	0
TOTAL	1	0	1	26	0	0

To date in 2011, there have been 9 human West Nile virus cases, including 1 fatality, reported to the CDC from the following states: AZ, MS, SD, TX and WY. There have been no 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.	06/14/2011	0.45	07/03/2011
Du Page Co.	07/11/2011	0.46	07/26/2011
Du Page Co.	07/22/2011	2.64	08/05/2011
Du Page Co.	07/27/2011	1.05	08/10/2011

Upcoming August Operations:

- 1 Completed Inspection
- 1 Targeted Inspection
- 1 Catch Basin Treatment

July 2011 New Jersey Light Trap Counts:

(*Red numbers indicate an annoyance level)

Trap Location	Jul 01	Jul 04	Jul 06	Jul 08	Jul 11	Jul 13	Jul 15	Jul 18	Jul 20	Jul 22	Jul 25	Jul 27	Jul 29	Aug 01
22W155 Valley View	26	8	9	5	10	4	4	7	*Mal	4	2	2	*Mal	64
22W550 Arbor Dr	75	65	115	31	39	19	20	21	38	7	10	14	8	89

*Mal- Trap Malfunction

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 July. 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.*



Operation and Surveillance Reports (Continued):

- **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 July 2011:

Service Item	Start Date
ROS1302 - Targeted Site Larval Insp Serv	07/05/2011
ROS1752 - Vectobac (B.T.I.) BP Larv	07/05/2011
ROS1754 – Hand Larviciding	07/11/2011
ROS1252 - Complete Site Larval Insp Serv	07/11/2011
ROS2002 - Vectolex G Catch Basin Trtmt	07/15/2011
ROS1754 – Hand Larviciding	07/25/2011
ROS1302 - Targeted Site Larval Insp Serv	07/25/2011