

Item #7:
Village Trustee Underwood
Mosquito Abatement Program/West Nile Virus – June 2011



Village of Long Grove June 2011 Status Report

Season Perspective:

A series of significant rainfalls between late May and June triggered up to eight (8) hatches of floodwater mosquito (*Aedes vexans*) broods to impact northern Illinois. The latest brood was hatched by the June 21st heavy storm and associated annoyance was projected for the week of July 5th.

Near normal temperatures and below normal rainfall are forecasted through mid-July. This weather pattern will curtail the floodwater mosquito population but spur-on the northern house mosquito (*Culex pipiens*) development. This species is the primary transmitter of West Nile virus (WNV) in Illinois. WNV-positive mosquitoes are starting to be reported within the state. Larviciding efforts should be focused on *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:

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Other Mammals
<u>Cook</u>	0	0	0	1	0	0
<u>Kendall</u>	0	0	0	1	0	0
<u>LaSalle</u>	1	0	1	0	0	0
<u>St. Clair</u>	0	0	0	1	0	0
<u>Tazewell</u>	0	0	0	1	0	0
TOTAL	1	0	1	4	0	0

To date in 2011, there has been 1 human West Nile virus case reported to the CDC in Mississippi. The State of Illinois has reported 1 dead bird and 4 mosquito batches positive for West Nile virus

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
South Lake Co.	05/11/2011	0.80	06/05/2011
South Lake Co.	05/22/2011	0.65	06/08/2011
South Lake Co.	05/25/2011	2.00	06/11/2011
South Lake Co.	05/29/2011	1.42	06/18/2011
South Lake Co.	06/08/2011	0.47	06/25/2011
South Lake Co.	06/09/2011	0.54	06/29/2011



Upcoming July Operations:

- 2 Complete Inspection
- 1 Back Pack Treatment

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 June. These services could include the following:

- **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.*

Services Performed June 2011:

Service Item	Start Date
ROS1252 – Complete Site Larval Insp Serv	06/01/2011
ROS1754 – Hand Larviciding	06/01/2011
ROS1752 – Vectobac (B.T.I.) BP Larv	06/02/2011
ROS1352 - Larval Site Service Call	06/08/2011
ROS1252 – Complete Site Larval Insp Serv	06/20/2011
ROS1754 – Hand Larviciding	06/20/2011
ROS1252 – Complete Site Larval Insp Serv	06/30/2011
ROS1754 – Hand Larviciding	06/30/2011