

Item #13:
Village Trustee Underwood:
Mosquito Abatement/West Nile Virus – Status Report August 2011



Village of Long Grove 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
South Lake Co.	07/22/2011	6.06	08/06/2011
South Lake Co.	07/27/2011	1.06	08/11/2011
South Lake Co.	08/02/2011	0.98	08/19/2011
South Lake Co.	08/07/2011	0.56	08/23/2011
South Lake Co.	08/13/2011	0.84	08/30/2011
South Lake Co.	08/20/2011	0.97	09/03/2011

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:

- **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 August 2011:

Service Item	Start Date
ROS1252 - Complete Site Larval Insp Serv	08/01/2011
ROS1754 – Hand Larviciding	08/01/2011
ROS1352 - Larval Site Service Call	08/02/2011
ROS1752 - Vectobac (B.T.I.) BP Larv	08/12/2011