

Item #11:
Village Trustee Underwood
Mosquito/West Nile Virus – September 2011 Report



Village of Long Grove September 2011 Status Report

Season Perspective:

Although September started the month with a 93 degree day and warm front, the month was more fall-like with high temperatures 4.9 degrees below average and slightly wetter than normal (3.45 vs. 3.21 normal).

The northern house mosquito (*Culex pipiens*) was prominent during late August and into the first half of September. This species flourishes in warmer weather, stagnant water conditions, and is the primary transmitter of West Nile virus (WNV) in Illinois. The number of reported WNV-positive mosquito batches in the State of Illinois almost tripled during the past month (335 to 976), and seventeen (17) human cases have been reported.

Mosquito-Borne Disease Update:

Illinois Department of Public Health West Nile Virus data summary (as of 9-28-11):

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Other Mammals
Champaign	1	0	0	5	0	0
Cook	8	3	3	793	0	0
DuPage	0	0	0	99	0	0
Gallatin	0	0	0	3	0	0
Jackson	0	0	0	2	0	0
Kane	0	0	0	4	0	0
Kendall	0	0	0	12	0	0
Lake	0	0	1	12	0	0
LaSalle	1	0	1	0	0	0
Macon	0	0	0	9	0	0
McHenry	0	0	0	7	0	0
St. Clair	0	0	0	2	0	0
Tazewell	0	0	0	5	0	0
Will	0	1	0	21	0	0
Winnebago	0	0	0	2	0	0
TOTAL	10	4	5	976	0	0



To date in 2011, there have been 362 human West Nile virus cases, including 18 fatalities, reported to the CDC from the following 37 states: AL, AZ, CA, CO, CT, DE, FL, GA, ID, IL, IN, IA, KY, LA, MD, MA, MI, MS, MO, MT, NE, NV, NJ, NM, NY, NC, ND, OH, PA, RI, SD, TN, TX, VT, VA, WV and WY. There have been seventeen (17) human WNV cases reported in the State of Illinois so far in 2011, resulting in two (2) deaths.

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.	08/20/2011	0.97	09/06/2011
South Lake Co.	09/18/2011	0.42	10/02/2011
South Lake Co.	09/25/2011	0.76	10/09/2011

Recommendations:

The CDC currently shows a risk category 2. 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.