



## Village of Lombard July 2013 - Status Report

### Season Perspective

Weather conditions critically affect the seasonal mosquito population. Excessive rainfall periods trigger hatches of floodwater mosquitoes (*Aedes vexans*), the dominant annoyance species in northern Illinois that has a flight range of 15 to 20 miles.

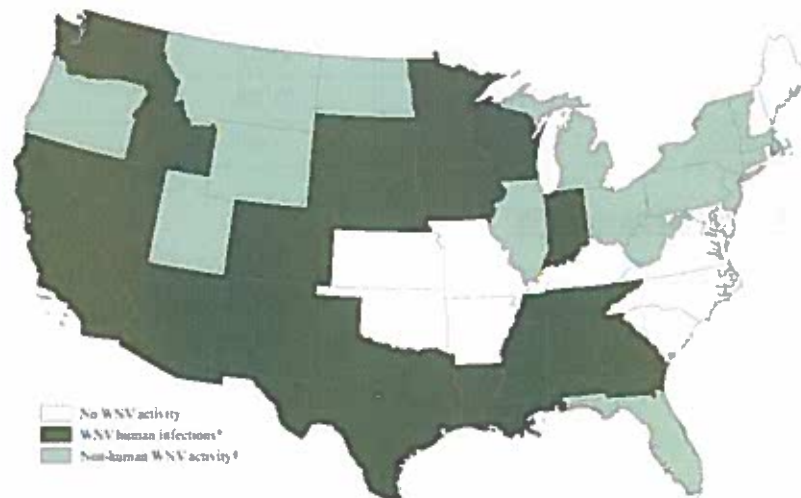
July 2013 had an averaged six degrees cooler than a year ago. The cold snap during the period of July 23-29 was the coldest on record with temperatures averaging 65.8°, well below the long term average of 74.5. To date, the summer of 2013 ranks as the 69<sup>th</sup> warmest of the past 142 summer seasons.

To date at O'Hare, there have been fourteen (14) significant rainfalls and corresponding *Aedes vexans* hatches. Mosquito light trap counts and *Mosquito Hotline* (800-942-2555) surveillance indicators have been curtailed by the recent below normal temperatures. The result was an above average mosquito population for July until the cold snap hit.

Late July and August is prime time for West Nile virus (WNV) activity. Periodic rainfalls fill artificial containers and cause small pocket flooding around homes leading to *Culex* breeding and transmission of WNV. Inspection and larviciding operations have been intensified and truck adult mosquito control sprayings should be timed to hit brood peaks, as well as, positive reports of WNV in the *Culex* population.

### Mosquito-Borne Disease Update

As of July 31, 2013, the Centers of Disease Control and Prevention (CDC) reports thirty-three (33) states have reported West Nile virus infections in people, birds, or mosquitoes. A total of fifty-three cases of West Nile virus disease in people, including three deaths, have been reported to CDC.





According to the Illinois Department of Public Health, there have been 311 WNV-positive mosquito samples.

Illinois Department of Public Health West Nile virus data summary (as of 7-31-2013)

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Human Cases
Cook	0	1	1	153	0	0
DuPage	0	0	0	26	0	0
Kane	0	0	0	3	0	0
Kendall	0	0	0	2	0	0
Lake	0	0	0	2	0	0
McHenry	0	0	1	6	0	0
Stephenson	1	0	0	0	0	0
Will	0	0	0	7	0	0
Winnebago	0	0	0	1	0	0
<b>TOTAL (39 Counties)</b>	<b>8</b>	<b>1</b>	<b>3</b>	<b>311</b>	<b>0</b>	<b>0</b>

**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	Rain Amount	Brood Prediction Date
Du Page Co.	06/21/2013	0.78	07/10/2013
Du Page Co.	07/08/2013	1.83	07/23/2013
Du Page Co.	07/18/2013	0.60	08/01/2013
Du Page Co.	07/19/2013	0.42	08/02/2013
Du Page Co.	07/20/2013	0.74	08/03/2013
Du Page Co.	07/26/2013	0.48	08/09/2013

**Upcoming August Operations:**

- 2 Targeted Inspections
- 1 Catch Basin Treatment
- 1 Culex Treatment



**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.

**Operation and Surveillance Reports**

Below is a report outlining all services performed in the month of July. 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.*
- **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.*
- **2006 Natular G30 Helicopter Prehatch:** *Helicopter prehatch application for larval control.*
- **2009 Natular XRT CB Truck:** *Catch Basin treatment for larval control.*
- **2015 150-day Altosid Briq Street CB:** *Catch Basin treatment for larval control.*
- **2019 Altosid XR CB Bike:** *Catch Basin treatment for larval control.*
- **2021 Altosid CB Bike - 30 day:** *Catch Basin treatment for larval control.*
- **2202 5% Abate Heli Prehatch:** *Helicopter prehatch application pellets for larval control.*
- **2402 Helicopter Larviciding:** *Helicopter larvicide application for biological control of mosquito larvae.*
- **2712 Biomist ATV/ULV Appl. Nights:** *ATV/ULV application for adult mosquito control.*
- **2802 Anvil Truck ULV Application:** *Truck ULV application for adult mosquito control*
- **2808 Anvil Truck ULV Streets/Drives:** *Truck ULV application for adult mosquito control*
- **2888 Truck ULV:** *ULV application for adult mosquito control.*

**Services Performed July 2013:**

Service Item	Start Date
ROS1752 - Vectobac (B.T.I.) BP Larv	07/02/2013
ROS1754 – Hand Larviciding	07/15/2013
ROS1302 - Targeted Site Larval Insp Serv	07/15/2013
ROS2006 - Natular T30 CB Bike	07/17/2013
ROS2202 - 5% Abate Heli Prehatch	07/18/2013
ROS1302 - Targeted Site Larval Insp Serv	07/22/2013

