Village of Lombard
May 2012 - 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. Year-to-date rainfall (as of May 31st) at the O'Hare Airport is 11.09", a 13% deficit from normal. The last significant rainfall was during the first week of May. The three-week dry spell diminished the impact of projected floodwater mosquito brood hatches prior to the Memorial Day weekend.

Temperature predictions for the beginning of June are forecasted to rebound from the late May cold snap to the upper 70°'s and low 80°'s with a slight chance of rain. With the rebound to more normal temperatures, we expect an increase in mosquito annoyance conditions.

Mosquito-Borne Disease Update:

The month of May had an average temperature of 65.6°, or 6.5° above normal. This marked the eighth consecutive month with above-normal temperatures, making the 2011-12 winter and spring one of the mildest on record. The classic weather pattern for an increased prevalence West Nile virus (WNV) is hot and dry conditions. On May 22nd, the Illinois Department of Public Health already reported the first WNV-positive bird and mosquito batches in Illinois in 2012. A Chicago crow tested positive on May 16th. WNV-positive mosquitoes were reported on May 17th in the following communities: Norridge, Clarendon Hills, Hinsdale, Lisle, Westmont, and Woodridge.

In 2011, 712 WNV human cases, including 43 deaths, occurred in the United States. Illinois reported 34 human cases and 3 deaths in 2011. So far in 2012, no human WNV cases have been reported in the United States.

Illinois Department of Public Health West Nile virus data summary (as of 6-1-2012)

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Humans
Cook	1	0	0	2	0	0
DuPage	0	0	0	5	0	0
Gallatin	0	0	0	1	0	0
TOTAL	**1**	**0**	**0**	**8**	**0**	**0**

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.	04/14/2012	0.50	05/12/2012
Du Page Co.	05/03/2012	0.70	05/27/2012
Du Page Co.	05/06/2012	1.24	05/28/2012

Upcoming June Operations:

1 Complete Inspection
1 Targeted Inspection
1 Catch Basin Treatment
1 Helicopter Treatment

Recommendations:

The CDC currently shows a risk category 2-3. 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 May. 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.*
- **1305 Culex Site Inspection Service:** *Inspection of culex mosquito larval development sites for the prevention of West Nile Virus and other mosquito-borne diseases.*
- **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.*

Operation and Surveillance Reports:

- **2002 Catch Basin Trmt:** *Catch Basin treatment for larval control.*
- **2104 Backyard Catch Basin Trmt:** *Backyard catch basin treatment for larval control.*
- **2107 Backyard Catch Basin Touch-Up:** *Treatment of a backyard catch basin per the request of the community's resident.*
- **2202 Helicopter Prehatch Appl:** *Helicopter prehatch application for larval control.*
- **2402 Helicopter Larviciding:** *Helicopter larvicide application for biological control of mosquito larvae.*
- **2786 ULV Festival Touch-Up Appl:** *Truck ULV "touch-up" application with Anvil for community festival mosquito control.*
- **2802 Truck ULV Appl:** *Truck ULV application for adult mosquito control.*

Services Performed May 2012:

Service Item	Start Date
ROS2020 - Altosid XR BYCB Bike - 150 day	05/08/2012
ROS1302 - Targeted Site Larval Insp Serv	05/21/2012
ROS1754 – Hand Larviciding	05/21/2012
ROS2018 - Vectolex WSP CB Bike - 30 day	05/22/2012
ROS1302 - Targeted Site Larval Insp Serv	05/29/2012
ROS1754 – Hand Larviciding	05/29/2012
ROS2202 - 5% Abate Heli Prehatch	05/29/2012
ROS1752 - Vectobac (B.T.I.) BP Larv	05/31/2012