

Item #7:
Village Trustee Borys
Mosquito Abatement Update



Village of Long Grove June 2014 - Status Report

Season Perspective

According to the Illinois State Water Survey, “June rainfall has been well above average for much of Illinois.” The official June monthly average rainfall at O’Hare International Airport is 4.45 inches. As of June 22nd, O’Hare rainfall was 2.10 inches above for the month.

As a result, the stage for an above average season for the floodwater mosquito. 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. The impact of the heavy June precipitation will be the arrival of three (3) back-to-back floodwater mosquito broods between late June and early July. Larviciding efforts will be intensified to control the hatches within the community boundaries. Adulticiding sprayings will be timed to control to confront peak mosquito annoyance periods.

Mosquito-Borne Disease Update

As of June 23rd, there have been three (3) human cases West Nile virus (WNV) reported in the United States in Mississippi (2) and California (1). There have been WNV-positive birds or mosquito samples reported in CA, FL, IL, NM, TN, TX and WI.

Illinois has reported twenty-four (24) WNV-positive mosquito samples, twelve of which are in Cook County and the other nine (9) in downstate counties. Two WNV-positive birds have been identified in Kane County and downstate Henry County.

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Human Cases
COOK	0	0	0	12	0	0
KANE	1	0	0	0	0	0
WILL	0	0	0	1	0	0
TOTAL (9 Counties)	1	0	1	24	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	Rain Amount (inches)	Brood Prediction Date
South Lake Co.	05/12/2014	1.41	06/04/2014
South Lake Co.	05/20/2014	0.46	06/06/2014
South Lake Co.	06/10/2014	1.99	06/29/2014
South Lake Co.	06/21/2014	1.12	07/05/2014
South Lake Co.	06/24/2014	1.03	07/08/2014

Upcoming Operations

2 Completed Inspections

Recommendations

The CDC currently shows a risk category 1. Biting adult mosquitoes activity and limited or sporadic epizootic activity in birds or mosquitoes. Conduct Integrated Vector Management program to monitor and reduce vector mosquito abundance. Conduct environmental surveillance to monitor virus activity (mosquitoes, sentinel chickens, avian mortality, etc.) Initiate community outreach and public education programs focused on personal protection and residential source reduction.

Operation and Surveillance Reports

Below is a report outlining all services performed in the month of June. These services could include the following:

- **0952 N. J. Light Trap Seasonal Service:** *Seasonal Light Trap Service for adult mosquito population monitoring.*
- **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.*
- **1502 5% Abate PG-Ground Prehatch:** *Treatment with 5% Abate for larval control.*
- **1754 Hand Larviciding:** *Hand equipment larviciding for biological control of mosquito larvae.*
- **2202 5% Abate Heli Prehatch:** *Helicopter prehatch application with Abate pellets for larval control.*
- **2712 Biomist ATV/ULV Appl. Nights:** *ATV/ULV application for adult mosquito control.*
- **2008 Natular XRT CB Truck:** *Catch basin treatment for larval control.*



Operation and Surveillance Reports (continued)

- **2802 Anvil Truck ULV Application:** *Truck ULV application for adult mosquito control*
- **2888 Biomist 3+15 Truck ULV:** *Truck ULV treatment for adult mosquito control.*
- **2922 0.5% FLIT (Permethrin) BP Barr:** *Backpack barrier strip application to reduce adult mosquito reinfestation.*

Services Performed June 2014:

Service Item	Start Date
ROS1252 - Complete Site Larval Insp Serv	06/16/2014
ROS1752 - Vectobac (B.T.I.) BP Larv	06/19/2014
ROS1352 - Larval Site Service Call	06/21/2014

David Lothspeich

From: Clarke Customer Service [service@clarke.com]
Sent: Thursday, July 10, 2014 2:18 PM
To: David Lothspeich
Subject: Backpack Larviciding Service Completed



Property Name: VILLAGE OF LONG GROVE

This is a message from Clarke. This email is to notify you that your backpack larvicide application to mosquito breeding sites was performed on 07/10/2014.

If you have any questions please feel free to contact your control consultant:

George Balis (630) 671-3112 gbalis@clarke.com

Providing integrated environmental aquatic service and mosquito control.

1-800-323-5727

www.clarke.com

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Service Order: I005310562
Job No: 0
Job Suffix: 0