

**Item #8:**  
**Village Trustee Borys**  
Mosquito Abatement Program/West Nile Virus



## **Village of Long Grove**

June 2013 - Status Report

### **Season Perspective**

The rainfall total for the month of June (6.23 inches at ORD) is 2.82 inches above the average for June (3.45in.) Temperature predictions for the beginning of July are the upper 70s with a chance of rain.

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.

A series of back-to-back heavy rain falls in late June have set the stage for an above average mosquito population in early to mid July. Heavy rain falls also cause artificial containers to hold water and small pocket flooding around homes leading to *Culex* breeding the early bridge vectors of West Nile Virus. Inspection and larviciding operations have been intensified and truck adult mosquito control sprayings should be timed to hit brood peaks.

### **Mosquito-Borne Disease Update**

As of June 25, 2013, the Centers of Disease Control and Prevention (CDC) reports eighteen (18) states have reported West Nile virus infections in people, birds, or mosquitoes. A total of six cases of West Nile virus disease in people, including one death, have been reported to CDC. Of these, three (50%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and three (50%) were classified as non-neuroinvasive disease.

According the Illinois Department of Public Health, there have been 10 WNV-positive mosquito samples in Clay, Cook, DuPage, McHenry, Perry and St. Clair.



Illinois Department of Public Health West Nile virus data summary (as of 6-26-2013)

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Humans
Cook	0	0	0	1	0	0
DeKalb	0	0	0	0	0	0
DuPage	0	0	0	4	0	0
Kane	0	0	0	0	0	0
Kendall	0	0	0	0	0	0
Lake	0	0	0	0	0	0
McHenry	0	0	0	2	0	0
Stephenson	0	0	0	0	0	0
Will	0	0	0	0	0	0
Winnebago	0	0	0	0	0	0
<b>TOTAL</b>	0	0	0	10	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	Brood Prediction Date
South Lake Co.	05/09/2013	0.44	06/02/2013
South Lake Co.	05/20/2013	1.02	06/13/2013
South Lake Co.	05/21/2013	0.86	06/14/2013
South Lake Co.	05/22/2013	0.48	06/15/2013
South Lake Co.	05/30/2013	0.59	06/20/2013
South Lake Co.	06/12/2013	0.58	06/28/2013
South Lake Co.	06/24/2013	0.52	07/08/2013
South Lake Co.	06/25/2013	4.25	07/09/2013

**Upcoming July Operations**

2 Completed Inspections



**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 June. 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.*
- **2752 Truck ULV Service Call:** *ULV "touch-up" application for control of mosquito annoyance per citizen hotline request.*
- **2802 Anvil Truck ULV Application:** *Truck ULV application for adult mosquito control*
- **2888 Truck ULV:** *ULV application for adult mosquito control.*

**Services Performed June 2013:**

Service Item	Start Date
ROS1252 - Complete Site Larval Insp Serv	06/04/2013
ROS1754 – Hand Larviciding	06/17/2013
ROS1252 - Complete Site Larval Insp Serv	06/17/2013
ROS1752 - Vectobac (B.T.I.) BP Larv	06/25/2013

## David Lothspeich

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**From:** Clarke Customer Service [service@clarke.com]  
**Sent:** Tuesday, July 16, 2013 1:54 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 07/15/2013.

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

George Balis (630) 671-3112 [gbalis@clarke.com](mailto:gbalis@clarke.com)

Providing integrated environmental aquatic service and mosquito control.

1-800-323-5727

[www.clarke.com](http://www.clarke.com)

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For Internal Office Use Only:  
Service Order: I005278021  
Job No: 1  
Job Suffix: 0

## David Lothspeich

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**From:** Clarke Customer Service [service@clarke.com]  
**Sent:** Tuesday, July 09, 2013 12:18 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 07/01/2013.

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

George Balis (630) 671-3112 [gbalis@clarke.com](mailto:gbalis@clarke.com)

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For Internal Office Use Only:  
Service Order: I005278022  
Job No: 1  
Job Suffix: 0

## David Lothspeich

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**From:** Clarke Customer Service [service@clarke.com]  
**Sent:** Tuesday, June 25, 2013 12:36 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 06/25/2013.

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

George Balis (630) 671-3112 [gbalis@clarke.com](mailto:gbalis@clarke.com)

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For Internal Office Use Only:  
Service Order: I005278026  
Job No: 0  
Job Suffix: 0

## David Lothspeich

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**From:** Clarke Customer Service [service@clarke.com]  
**Sent:** Friday, June 21, 2013 9:48 AM  
**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 06/17/2013.

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

George Balis (630) 671-3112 [gbalis@clarke.com](mailto:gbalis@clarke.com)

Providing integrated environmental aquatic service and mosquito control.

1-800-323-5727

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For Internal Office Use Only:  
Service Order: I005278023  
Job No: 1  
Job Suffix: 0

## David Lothspeich

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**From:** Clarke Customer Service [service@clarke.com]  
**Sent:** Thursday, June 06, 2013 2:56 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 06/04/2013.

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

George Balis (630) 671-3112 [gbalis@clarke.com](mailto:gbalis@clarke.com)

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For Internal Office Use Only:  
Service Order: I005278028  
Job No: 1  
Job Suffix: 0



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Article updated: 7/16/2013 2:44 PM

## Mosquitoes in Algonquin test positive for West Nile

By James Fuller

West Nile is back in Kane County. State health officials located the first Kane County batch of mosquitoes to test positive for the disease Monday near Algonquin.

There have been no cases of human infection in the county, but county health officials said Tuesday July and August are the months when the virus typically becomes a local concern. Last summer, 13 residents contracted the West Nile virus from positive mosquitoes. Other mosquito batches throughout the county are expected to test positive for the virus within the next few weeks following the Algonquin finding, officials said. A total of 17 other Illinois counties have also had positive mosquito batches or birds this season.

Serious illness from West Nile is relatively unlikely. Most people bitten by an infected mosquito will have no symptoms. Those that do will see fever and head and body aches between three and 14 days after the bite. Serious illness and death are possible, particularly for people older than 50. Health officials advised the use of long sleeves and pants when outdoors and/or the use of insect repellent that includes DEET, picaridin or oil of lemon eucalyptus on exposed skin to deter mosquitoes.

Julie Wiegel, Kane County's assistant director for environmental health, said the particular mosquito that carries the West Nile virus thrives in hot, dry conditions. This summer has been relatively cool and wet, she said. However, that gives rise to the other problem health department officials are seeing a spike in complaints about.

Ticks like cool, humid conditions, Wiegel said. She's already heard of one person who took her dog for a walk and came back coated with 23 ticks. Wiegel said ticks should be promptly removed with a tweezers with a slow but firm pull.

The county health department does offer tick identification for residents concerned about Lyme disease. The health department will tell you what kind of tick the specimen is, but officials don't test for Lyme disease.

"This winter was warmer, and we've had a very wet, cool spring," Wiegel said. "Those are ideal conditions for ticks."

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