

Item #6:
Village Trustee Borys
Mosquito Abatement Program/West Nile Virus - July 2013



Village of Long Grove

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.

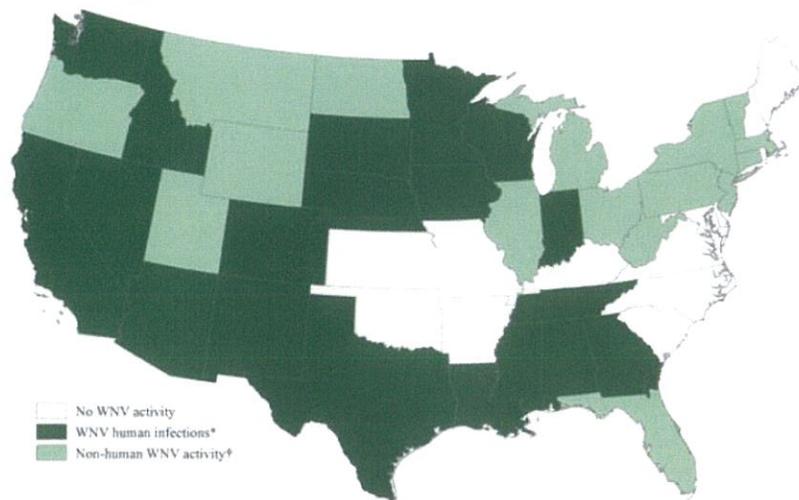
July 2013 had an averaged six degrees cooler than a year ago. The cold snap during the period of July 23-29 was the coldest on record with temperatures averaging 65.8°, well below the long term average of 74.5. To date, the summer of 2013 ranks as the 69th warmest of the past 142 summer seasons.

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 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
TOTAL (39 Counties)	8	1	3	311	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.	06/24/2013	0.52	07/11/2013
South Lake Co.	06/25/2013	4.25	07/11/2013
South Lake Co.	07/19/2013	0.48	08/02/2013
South Lake Co.	07/21/2013	0.86	08/04/2013
South Lake Co.	07/26/2013	0.60	08/09/2013

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.*
- **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
ROS1352 - Larval Site Service Call	07/01/2013
ROS1754 – Hand Larviciding	07/15/2013
ROS1252 - Complete Site Larval Insp Serv	07/15/2013
ROS1752 - Vectobac (B.T.I.) BP Larv	07/17/2013
ROS1252 - Complete Site Larval Insp Serv	07/29/2013

David Lothspeich

From: Clarke Customer Service [service@clarke.com]
Sent: Thursday, August 01, 2013 7:20 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 07/29/2013.

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

For Internal Office Use Only:
Service Order: I005278020
Job No: 1
Job Suffix: 0

David Lothspeich

From: Lake County Health Department [leslie@lakecountyil-health.ccsend.com] on behalf of Lake County Health Department [lp Piotrowski@lakecountyil.gov]
Sent: Wednesday, July 31, 2013 4:31 PM
To: David Lothspeich
Subject: West Nile Virus Found in Tests of Mosquito Pools in Lake County



For Immediate Release
July 31, 2013

Contact:
Leslie Piotrowski
(847) 377-8055
Carolyn Waller
(847) 377-8099

West Nile Virus Found in Tests of Mosquito Pools in Lake County

Mosquito pools (or batch of mosquitoes), sampled July 25 in Deerfield and July 26 in Lake Villa Township have tested positive for West Nile virus. The mosquito pools are the first confirmed indicators of the disease's presence in Lake County in 2013. In 2012 there were seven human cases, three birds and 98 mosquito pools that tested positive for the virus in the county.

"We recommend that residents protect themselves against mosquito bites by reducing their exposure to mosquitoes and wearing insect repellent outdoors," said Tony Beltran, the Health Department's Executive Director.

The Health Department maintains a West Nile virus hotline for county residents to report areas of stagnant water (which are conducive for mosquito breeding), to report locations of dead birds, or to obtain more information on the signs and symptoms of West Nile encephalitis. The West Nile hotline number is: (847) 377-8300.

Recommendations to prevent mosquito breeding include:

- Discard old tires, buckets, drums or any water holding containers. Poke holes in tires used as bumpers on docks
- Keep roof gutters and downspouts clear of debris
- Keep trash containers covered
- Empty plastic wading pools at least once a week and store indoors when not in use
- Drain unused swimming pools
- Fill in tree rot holes and hollow stumps that hold water
- Change the water in bird baths and plant urns at least once a week
- Store boats upside down or drain rainwater weekly

Recommendations to prevent mosquito bites include:

- Whenever possible, limit outdoor activity at dusk
- Wear light-colored clothing that minimizes exposed skin and provides some protection from mosquito bites
- Make sure door and window screens fit tightly and that all holes are repaired
- Apply insect repellent that includes DEET, picaridin, oil of lemon eucalyptus or IR 3535 according to label instructions. Consult a physician before using repellents on infants.

While most people infected with WNV have no symptoms of illness, some may become ill, usually three to 15 days after the bite of an infected mosquito. In some individuals, particularly the elderly, the virus can cause muscle weakness, inflammation of the brain (encephalitis), stiff neck, stupor, disorientation, tremors, convulsions, paralysis, coma or death.

The Health Department conducts a multi-faceted mosquito surveillance program in Lake County. Beginning in late spring and continuing into the autumn, a series of traps are set around the county, including within the Lake County Forest Preserves. At each site a pool, or batch, of mosquitoes is tested weekly for West Nile virus. Areas of stagnant water are also investigated throughout the season for the presence of mosquito larvae, specifically from the

Culex mosquito which is the primary carrier of West Nile in Illinois. Finally, the locations of dead birds are monitored to assist in the assessment of potential West Nile virus activity. The Health Department works closely with the municipalities, townships, and the Lake County Forest Preserve District in monitoring the mosquitoes that may pose a public health threat.

Information about WNV can be found on the Department's Web site at:

<http://www.lakecountyil.gov/Health/resources/Pages/WNV.aspx>.

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