

Item #8:
Village Trustee Underwood
Mosquito Abatement/West Nile Virus Update



Village of Long Grove July 2012 - Status Report

Season Perspective

The Chicago area is in the worst drought in over 50 years. July 2012 officially ranked as the 3rd warmest on record in Chicago with an average daily temperature being 7 degrees above normal, the warmest in 57 years. July was the 10th consecutive month with above normal temperatures. To date, O'Hare has recorded 35 days with the temperatures exceeding 90 degrees. In 142 years of weather records, there have never been so many days over 90 degrees recorded so early in the year. The excessive heat and only scattered precipitation has entrenched northern Illinois in a severe drought condition. No significant rains are expected in the near future.

As a result of the persistent hot and dry weather conditions, the dominant annoyance species, the floodwater mosquito (*Aedes vexans*), has been at very low levels. Clarke operates a network of light traps to monitor the adult mosquito population. For perspective, the following chart compares the percentage of floodwater and northern house (*Culex pipiens*) mosquitoes collected in the trap network between 2009 and 2012:

ALL TRAPS YTD	2009	2010	2011	2012
<i>Aedes vexans</i>	126,384 (70%)	208,183 (75%)	151,355 (78%)	26,578 (58%)
<i>Culex spp</i>	20,967 (12%)	20,850 (7%)	14,242 (7%)	9,450 (21%)
Total females	179,659	276,851	192,031	45,644

Floodwater mosquito eggs can remain dormant on dry ground for four to six years. However, unless a major rain event occurs, the floodwater mosquito population is expected to remain at an unusually low level through August.

While the floodwater mosquito population is extremely low, the northern house mosquito (*Culex pipiens*) is flourishing and raising the risk of mosquito-borne disease transmission. This species develops in stagnant water conditions. There have been enough periodic rainfalls, along with lawn-watering, to keep container habitats, such as street catch basins, bird baths, roof gutters, etc. charged with water to produce *Culex* mosquitoes.

Mosquito-Borne Disease Update

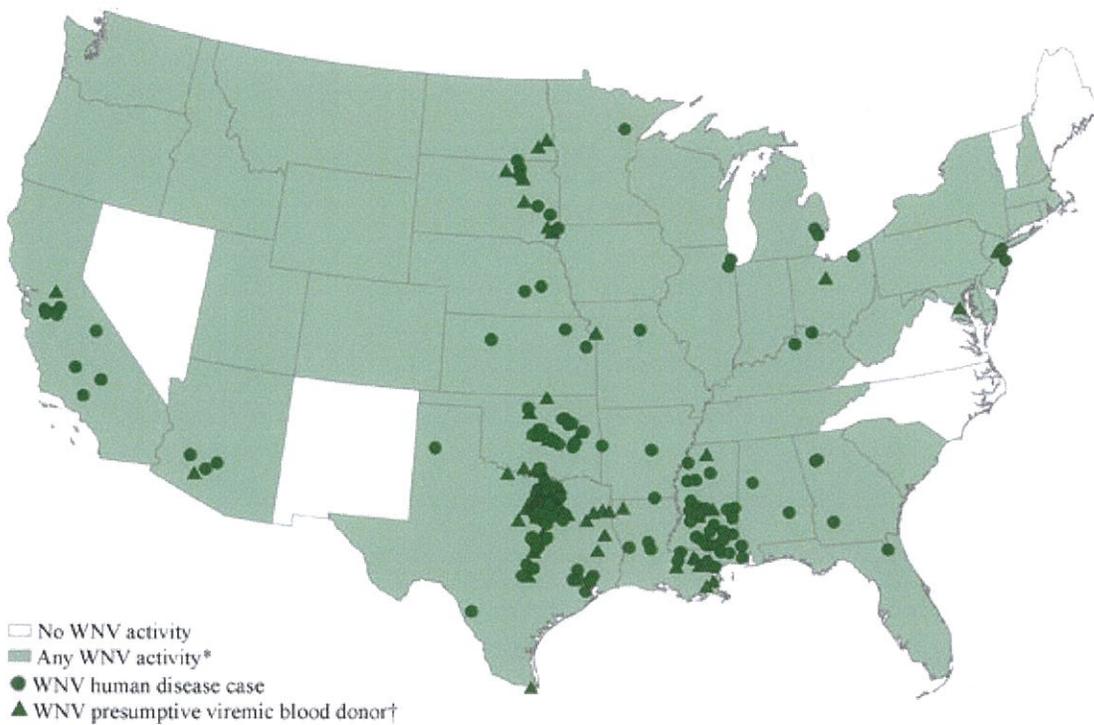
2012 has exhibited the classic weather pattern for an increased prevalence West Nile virus (WNV). Since the arrival of WNV in the United States in 1999, most human disease outbreaks have been associated with hot, dry drought conditions. On July 24th, the Illinois Department of Public Health (IDPH) confirmed the first human WNV in Cook County female in her 60s. IDPH Director, Dr. LaMar Hasbrouck stated: "The mosquitoes that typically carry WNV . . . are not as noticeable as the swarms of floodwater mosquitoes we see during rainy summers. Even if it does not look like there are a lot of mosquitoes out, [Culex] mosquitoes are stealthy biters and there infection rate is increasing rapidly, so make sure to use insect repellent."



To date, IDPH has reported 1,175 WNV-positive mosquito samples that has surpassed the 1,147 WNV-positive mosquito sample level reported in 2002, the year in which Illinois suffered 884 human WNV cases, including 67 deaths. WNV activity is expected to intensify under the drought conditions. Larval control efforts should be focused on the *Culex* population.

Based on the Centers for Disease Control & Prevention West Nile Virus guidelines communities under moderate/high risk should implement truck ultra-low volume (ULV) applications, if not already in progress, to interrupt West Nile Virus amplification. See recommendations below for complete list of control activities.

As of July 31st, 334 human WNV cases have been reported to CDC from 24 states, as shown by the following map:



To date, Texas has reported 145 WNV human cases and Mississippi has reported 28.



As of July 27th, the Illinois Department of Public Health has reported 25 birds and 1,175 mosquito samples positive for WNV, as well as 2 human cases in Cook County.

Illinois Department of Public Health West Nile virus data summary (as of 8-2-2012)

County	American Crow	Blue Jay	Other Birds	Mosquito Batches	Horse	Human Cases
Cook	5	0	0	798	0	2
DeKalb	2	0	0	0	0	0
DuPage	3	0	2	196	0	0
Kane	0	0	0	23	0	0
Kendall	0	0	0	3	0	0
Lake	0	0	0	17	0	0
Stephenson	1	0	0	0	0	0
Will	0	1	1	23	0	0
Winnebago	3	0	0	0	0	0
IL TOTAL (30 Counties)	20	2	3	1175	0	2

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
South Lake Co.	06/16/2012	1.33	07/02/2012
South Lake Co.	07/05/2012	0.57	07/19/2012
South Lake Co.	07/13/2012	0.71	07/27/2012
South Lake Co.	07/18/2012	1.66	08/03/2012
South Lake Co.	07/23/2012	0.52	08/06/2012

Upcoming August Operations

1 Complete Inspection



Recommendations

The CDC currently shows a risk category 3-4 (Moderate to High Probability of Human Outbreak). Continue response in as in level 3 (Moderate) including the following: Increase larval control, source reduction, and public education emphasizing personal protection measures, particularly among the elderly, initiate visible activities to increase attention to WNV Transmission. 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, repeating applications in areas of high risk of human cases.

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.*
- **1752 Backpack Larviciding:** *Backpack larviciding for biological control of mosquito larvae sites.*
- **1754 Hand Larviciding:** *Hand equipment larviciding for biological control of mosquito larvae.*

Services Performed July 2012

Service Item	Start Date
ROS1252 - Complete Site Larval Insp Serv	07/17/2012
ROS1754 – Hand Larviciding	07/17/2012
ROS1752 - Vectobac (B.T.I.) BP Larv	07/18/2012

From: Pat Hallahan [phallahan@clarke.com]
Sent: Wednesday, July 25, 2012 12:30 PM
To: Undisclosed recipients
Subject: First Human WNV Positive Case in Illinois



West Nile Virus Intensifies

IDPH reports human positive case

A female Cook County resident is the first confirmed human case of West Nile virus in Illinois for 2012.

"We are seeing are large increases in Vest Nile virus activity and this first human case is a good reminder that we all need to take precautions," said Illinois Dept. of Public Health Director Dr. LaMar Hasbrouck. "The mosquitoes that typically carry West Nile virus, commonly called the house mosquito, are not as noticeable as the swarms of floodwater mosquitoes we see during rainy summers. Even if it does not look like there are a lot of mosquitoes out, house mosquitoes are stealthy biters and their virus infection rate is increasing rapidly, so make sure to use insect repellent."

Below is comparative data through July 24* for years 2005 - 2012 as reported by the IDPH.

As of July 24 each year	Counties Positive	Birds Positive	Mosquitoes Positive	*Total Human Cases for season
2012	27	21	631	1 (thru July 24)
2011	7	3	49	34
2010	15	22	105	61
2009	13	4	55	5
2008	7	4	73	20
2007	5	0	183	101
2006	31	58	550	215
2005	21	44	376	252

*Human case data is for the entire year and not just thru July 24.

As recommended by the CDC WNV Guidelines, source reduction, larval control and adult control measures should be initiated or intensified in areas where surveillance indicates potential for human risk. Public education and communication should emphasize personal protection measures.

Infected mosquitoes found in large numbers in Lake County

By MICK ZAWISLAK
mzawislak@dailyherald.com

Lake County health officials warned Wednesday that the risk of mosquitoes transmitting the potentially dangerous West Nile virus has significantly increased.

The red flag comes after 32 batches of mosquitoes sampled throughout the county tested positive for the potentially fatal virus — well above the record pace of 2005. Two birds collected in Round Lake and Long Grove also tested positive, health officials said.

"That 32 could actually be much higher when some of the lab samples come back. Although there are not a lot of mosquitoes out, the ones that are out are the ones that could potentially carry this," said Mike Adam, senior biologist with the health department.

Adam said the numbers are tracking ahead of 2005, when 11 human cases resulting in one death occurred. No human cases in Lake County have been reported this season.

"This is kind of a significant increase compared to the past couple of years," said Leslie Piotrowski, health department spokeswoman.

Most people infected with the virus will have no symptoms but some may become ill, usually three to 15 days after the bite of an infected mosquito. In some people, particularly the elderly, the virus can cause muscle weakness, inflammation of the brain, stiff neck, stupor, disorientation, tremors, convulsions, paralysis, coma or death.

The positive batches were primarily concentrated in the southern part of the county

but were widespread, Adam said.

"The only area we haven't pulled any is from the very far northwest but that's just a matter of time," he added.

Culex mosquitoes, which carry West Nile, thrive in dry conditions as breeding areas like catch basins, for example, are not getting flushed.

"These mosquitoes like decaying matter in water — the stinkier the better," Adam said. And it doesn't take much.

"I've seen larvae in little cups of water that were left out," he added.

Residents are urged to reduce their exposure, wear repellent and report areas where mosquitoes typically breed. To report stagnant water or to learn about the virus or preventing mosquito breeding or bites, call the West Nile hotline, (847) 377-8300.

Ballot: Mayor petitioners p 'misinformat

Continued from Page 1

bypass asking residents to approve a multimillion-dollar loan to pay for construction.

A timeline has not been set, nor has a budget been publicized.

Critics have alleged much of the planning done so far has been handled secretly. They've also complained the project is moving forward too quickly.

"This should have been formulated in little bits and steps," Beeson said. "It's something the people should be involved in."

Beeson is particularly concerned about the potential cost of the project. He also questioned the proposed location, a public park where village festivals and other events are held.

Those concerns and others prompted the referendum petition drive.

The question reads: "Shall the village of Island Lake, Illinois, undertake a multimillion-dollar obligation to construct a combined public safety facility."

The question was submitted to Village Clerk Connie Mascillino on Monday, the deadline for such action. For the question to appear on the ballot, Mascillino must submit it to the McHenry County and Lake County clerks by Aug. 30.

The lines al

challenge Mascilli

If it lot, the won't b

letting how the plan is e

"If it's Beeson (get) to

In an Debbie to the p

open let village's

Herrn petition

"misinf tive lies the pla

insisted early sta

"We l all the fa

ent the l idents," lengthy.

After pletes other e

posal, a held on

When said she lence t

referenc

Herrn answer the pro

meeting village h

Man faces charges in fatal wreck

By PAUL BIASCO
pbiasco@dailyherald.com

A 20-year-old has been charged with street racing and leaving the scene of a fatal crash more than a month after two McHenry County teens died in a single-vehicle wreck.

A McHenry County sheriff's office Accident Investigation Unit obtained evidence linking Dan L. Huber to the crash during an in-depth monthlong investigation, the sheriff's office announced Wednesday.

Huber, a 20-year-old Woodstock resident, is accused of meeting with two 16-year-old Woodstock boys shortly before the crash, which occurred during the

early morning hours on July 1, according to the sheriff's office.

Alec J. Kaiser and Jacob S. Norys drove to Davis Road in a 2010 Hyundai Elantra, where they started their street race with Huber, according to police.

At about 2 a.m., the driver of the Hyundai lost control of the vehicle and the car rolled, police said.

The vehicle then struck a brick pillar and a tree on the 14200 block of Davis Road, killing both teens.

Police said both Kaiser and Norys were wearing seat belts, and the air bags deployed. Both teens were pronounced dead at the scene.

On Wednesday, police said

the crash occurred during the race, but there was no evidence that the two vehicles collided.

After the crash, Huber left the scene without calling 911 or coming to the victims' aid, according to the sheriff's office.

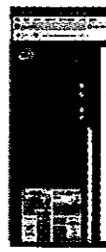
Authorities arrested Huber without incident Wednesday on charges of failure to report a fatal traffic crash and aggravated street racing.

He is being held at the McHenry County jail in lieu of \$100,000 bail and is due in court Thursday morning at 8 a.m.

The most serious charge of failing to report the fatal crash carries a sentence of between 4 and 15 years in prison and a fine of up to \$25,000.

Out of town?

Subscriber Total
Access members
can get our eEdition
at **edition.**
dailyherald.com.



www.chicagotribune.com/news/local/suburbs/naperville/chi-west-nile-naperville-north-side-arrowhead-park-20120719,0,517207.story

chicagotribune.com

West Nile found on Naperville's north side

By Melissa Jenco

Tribune reporter

9:57 AM CDT, July 19, 2012

West Nile virus has been found in Arrowhead Park on Naperville's north side, city officials said Wednesday, making it the fourth spot in the Naperville area where the mosquito-borne virus has been found in recent weeks.

One trap at Arrowhead Park recorded a positive test both this week and last week. There also have been two consecutive positive tests this month at Seager Park on Plank Road and the area of Naper Boulevard and Bailey Road, according to the city. Pioneer Park on South Washington Street tested positive once as well.

Crews have sprayed the affected areas and treated catch basins. The city also is asking residents to remove standing water from their property to keep mosquitoes from breeding there.

The Centers for Disease Control recommends people use insect repellent when outdoors, wear long sleeves and pants at dusk and dawn and have good window screens on their homes. Roughly 80 percent of people infected with West Nile will not show symptoms, according to the CDC. Mild symptoms include fever, headache, nausea, vomiting and body aches. More severe symptoms include high fever, headache, neck stiffness, disorientation, coma, vision loss and paralysis.

mjenco@tribune.com

Copyright © 2012, [Chicago Tribune](#)

advertisement

Searches related to chicagotribune.com

Tribune Newspapers	Search
New York Daily News	
Breaking News	
Local Newspaper	
Daily New News York	
Daily News	
Chicago State University	