Memorandum



DATE June 5, 2015

Honorable Members of the Quality of Life & Environment Committee: Dwaine R. Caraway (Chair) Sandy Greyson (Vice Chair), Adam Medrano, Rick Callahan, Carolyn R. Davis, Lee M. Kleinman

SUBJECT Dallas County Health and Human Services Update: West Nile Virus

On Monday, June 08, 2015, the Quality of Life & Environment committee will receive an update on West Nile Virus from Dallas County Health and Human Services. The briefing is attached for your review.

Please contact me if you have any questions.

Joey Zapata

Assistant City Manager

Attachment

c: Honorable Mayor and Members of the City Council A.C. Gonzalez, City Manager Warren M.S. Ernst, City Attorney Craig D. Kinton, City Auditor Rosa A. Rios, City Secretary Daniel F. Solis, Administrative Judge Ryan S. Evans, First Assistant City Manager

Eric D. Campbell, Assistant City Manager
Jill A. Jordan, P.E., Assistant City Manager
Mark McDaniel, Assistant City Manager
Jeanne Chipperfield, Chief Financial Officer
Sana Syed, Public Information Officer
Elsa Cantu, Assistant to the City Manager – Mayor & Council

DCHHS Update: West Nile Virus

June 8, 2015

Zachary Thompson

Director
Dallas County Health and Human Services

Dr. Christopher Perkins

Medical Director/Health Authority
Dallas County Health and Human Services



DCHHS has requested the DSHS laboratory use PCR testing for mosquito samples submitted from Dallas County cities.

Positive Mosquito Traps = 5

- 1 in Mesquite 75149
- 1 in DeSoto 75115
- 3 in Grand Prairie (2 in 75052; 1 in 75050)

Confirmed Human Cases = 0

* Numbers reflect information received at time of publishing and are subject to change.



Residential swimming pool in Dallas County





Cities that have picked up mosquito dunks

CITY	SCHEDULED PICK-UP DATE	PICK-UP TIME	NUMBER OF CASES			
COCKRELL HILL	05/06/15	10:30A	17			
IRVING	05/06/15	11:30^	17			
WILMER	05/06/15	11:45A	1/			
DALLAS	05/06/15	100P	1/			
RICHARDSON	05/06/15	1:40P	17			
FARMERS BRANCH	05/06/15	2:00P	17			
DUNCANVILLE	05/07/15	10.00A	17			
CARROLLTON	05/07/15	11:00A	17			
DESCTO	05/07/15	11:00٨	17			
UNIVERSITY PARK	05/07/15	11:32/	17			
CRAND PRAIRIE	05/08/15	10:00A	1/			
LANCASTER	05/08/15	10:00A	17			
SACHSE	05/08/15	11:00A	17			
HIGHLAND PARK	05/08/15	1:30P	17			
HUTCHINS	05/08/15	2.00P	17			
SEAGOVILLE	05/12/15	10:00A	17			
GARLAND	05/13/15	10:00	17			
CEDAR HILL	05/13/15	12:30P	17			
COPPELL	05/15/15	10:30A	1/			
ADDISON	05/20/15	11:00A	17			
BALCH SPRINGS	05/20/15	11:00A	17			
ROWLETT	06/04/15	10:30A	17			
GLENN HEIGHTS	0		17			
SUNNYVALE	No dunks needed this year		0			



Mosquito data submitted to CDC for review

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Health Advisory issued May 21, 2015



DALLAS COUNTY
DEPARTMENT OF HEALTH AND HUMAN SERVICES
EPIDEMIOLOGY

Zachary Thompson Director Dr. Christopher Perkins Health Authority/ Medical Director

From. Sonya Hughes, MPH, Alice Nyakeriga, PhD, Epidemiologists Scott Sawlis, Tony Jenkins, Liveronmental Health Services

Wendy Chung, MD, Chief Lpidemiologist

To: Dallas County Medical Providers and Laboratory Staff

Date: May 21, 2015

HEALTH ADVISORY: West Nile Virus

Dallas County Fleatth and Fluman Services (DCTITIS) is reporting confirmation today by our laboratory of the first positive West Nile Virus (WNV) mosquito trap for 2015 in Dallas County, which was collected May 20, 2015. The virus was detected by PCR testing in Culex quinquefactioitus mosquitoes, the primary vectors transmitting WNV to humans in our area. The abundance of this species of mosquitoes has still been relatively low to date, as expected this early in the season. No confirmed human cases of WNV infection have yet been reported this year in Texas or Dallas County. Reports of human cases typically begin locally in the weeks following the first identification of WNV from area Cx. quinquefacciatus mosquitoes.

Although the majority of WNV infections may be asymptomatic or cause militate illness in humans, some individuals can develop severe illness. Clinicians should maintain a high index of suspicion for West Nilo Neuroinvasive disease (WNND), which occurs in <1% of infections, typically characterized by: tever with aseptic meningitis, encephalitis, acute flaccid paralysis, altered mental status, seizures, transverse myelitis, or cranial nerve palsies, with generalized muscle weakness.

DCTHIS is reminding medical providers to be alert for cases of WNV disease, and to send WNV antibody (IgM and IgC) testing in patients with clinically compatible symptoms. Current testing recommendations for all patients with suspected WNF or WNND include senting WNV IgM and IgG antibodies from serum. In suspected WNND patients, the following tests should additionally be sent from CSF specimens: (1) WNV IgM and IgG antibodies in CSI, and (2) panel for IgM and IgG antibodies for other endemic arboviruses from CSF. Additional testing by PCR for WNV from CSF or serum should be considered in patients with immune suppression or very recent onset of symptoms (within 3 days of presentation).

Patients at higher risk of severe disease, including those over 50 years of age or with immune suppression (e.g. organ transplantation, chemotherapy, dialysis, LTV infection), should be reminded to take particular preventive measures to avoid mosquito exposures, including wearing long sleeves and paints when outside and using EPA registered repollants such as DEET.

Active public health surveillance for WNV in mosquitoes and humans is ongoing through this season. Additional health advisories will be issued if vector indices are noted to be significantly increasing, and when human WNV infections begin to be reported. Please report suspected WNV cases as soon as possible by fax to DCHHS at (214) 819 1933. For questions please contact DCHHS at (214) 819-2004. Information about WNV is available at www.cdc.gov/ncidod/d/vbd/wsetnie/index.htm.



Surveillance Report

Dallas County Health and Human Services West Nile Surveillance Report



Week 19 ending May 16, 2015

- Of the 347 mosquito traps from weeks 19 and 20 for which results have been reported, one pool tested ipositive trap in our County for the season.
- Although the abundance of Or quinquefastiotus is currently low as expected at this time in the season, the
 average abundance is slightly higher compared to the same reporting time last year.
- No human WNV cases have been reported to date for 2015, in Dallas County

Mosquito Laboratory and Human Case Surveillance Data, Dallas County

Week Friding	4/18	4/25	5/2	5/9	5/16	5/99	YTD
MMWR Week	15	16	17	18	19	20	
lotal Traps Placed in Dallas County *	104	126	133	192	177	170	1,050
Number of Pools Tested (PHL, IL) but	13; 9	16;28	16; 19	66; 24	63; 28	107; 26	294; 155
Number of Trap Results Currently Pending	9.0	0	0	а	0	30	
Average Number of Cx. quinquefasciatus per Trap d	4.12	7.04	1.8	2.00	11.14	11.74	6.50
lotal Number of Cx. quanquefascuetus Trapped and Tested	222	736	194	1,439	1,706	1,845	6,300
Number of Positive Mosquito Pools (PHL; IL)	0; 0	0;0	0;0	0:0	D; (I	1;0	1;0
WNV Infection Rate per 1,000 Co. quioquefosciutos.*	-11	0	0	a	0	0.54	
Weekly Vector limiter (VI) *		0	0	0	0	0.01	
Presumptive WNV Viremic Blood Donors	0	0	0	0	0	0	0
Confirmed WNV Human Cases (WNND; WNF)8	0;0	0;0	U; U	0,0	0;0	0;0	0; 0

- 8. As preps deproyed in municipalities promitting data to License since week 10, includes preps whitout mosquitoes, manuncipalities pray step and original traps are traps and original traps and original traps are traps and original traps and original traps are traps are traps are traps are traps and original traps are traps
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- d Average abundance of female Cular garaguefoscierus mesquitoes per trap night/week (excludes non working traps)
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Figure 1: All WNV Negative and Positive Mosquito Traps Collected During Weeks 17-20*: 2015 Season

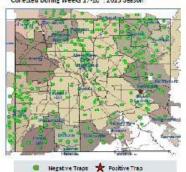
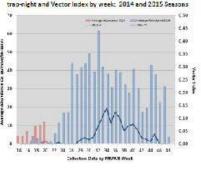


Figure 2: Average numbers of female Cx: quinquefasciatus per



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Cases from 2002 to 2014

Dallas County West Nile Virus Cases 2002 to 2014

YEAR	HUMAN CASES	POSITIVE MOSQUITO TRAPS	HUMAN DEATHS
2002	34	42	3
2003	50	116	4
2004	16	108	
2005	44	190	1
2006	104	187	4
2007	23	117	
2008	9	40	
2009	16	124	1
2010		1	
2011	2	8	
2012	398	264	21
2013	16	192	2
2014	12	174	

