

# Memorandum



CITY OF DALLAS

DATE March 24, 2017

Honorable Members of the Quality of Life & Environment Committee: Sandy Greyson (Chair),

TO Tiffinni A. Young (Vice Chair), Rickey D. Callahan, Mark Clayton, Philip T. Kingston, B. Adam McGough

SUBJECT 2017 Mosquito Abatement Plan

The active season for the 2017 Mosquito Abatement Plan begins on April 1, 2017 and continues through October 31, 2017. This briefing memorandum serves to update the Quality of Life & Environment Committee on plans for the 2017 season.

The City of Dallas maintains an integrated mosquito management program as recommended by Dallas County and the Center for Disease Control (CDC) that focuses on surveillance, reduction of breeding sites, community outreach, and public education to control mosquito populations. The City of Dallas continues to test 90+ sites throughout the city for West Nile Virus (WNV) in Culex mosquitoes, with an additional 12 locations being monitored for the Aedes mosquito population.

Community outreach and public education are critical, as everyone can help control mosquitoes. Treatments to control breeding and spraying to kill adult mosquitoes are not 100% effective. People must take personal protective measures when outside, including appropriate clothing and use of insect repellents. Residents are encouraged to eliminate mosquito breeding sites on their property. A step-by-step instructional video on how to eliminate breeding sites is available at <http://www.dallascitynews.net/fightthebite>. The community outreach campaign includes the use of radio ads, billboards, social media, community meetings, and partnerships with local school districts.

## **General Spray Protocol**

Two situations may trigger spraying for West Nile Virus:

- 1) A trap that tests positive for WNV triggers spraying within a ½-mile radius of the positive trap location.
- 2) A high number of mosquitoes in a single trap triggers spraying within a ¼-mile radius of the trap location.

The City of Dallas uses only EPA-approved, water-based products for ground spraying activities. Staff is prepared to implement ground spraying activities, from truck-mounted sprayers, within 5-7 hours of receiving a positive mosquito test result for WNV. The City will release a press statement by 4:00 pm notifying the public of spray locations that will be sprayed no earlier than 9:00 pm. Other important details of spraying activities include:

- Each location is sprayed on two consecutive nights to increase effectiveness.
- Care is taken to avoid water bodies and people.
- Chemicals are always used in accordance with the manufacturer's product label.
- All positive trap locations will be re-trapped within 5 business days.
- Foot surveillance and source reduction actions (for example, treating standing water with larvicide) are also implemented in an effort to reduce mosquito populations.

DATE March 24, 2017  
SUBJECT **2017 Mosquito Abatement Plan**

Spray activities for Zika virus and Chikungya virus are different due to differences in transmission of these viruses and the mosquito species that can transmit them. Spraying will be based on a human case that results from local transmission from a mosquito (not acquired while traveling outside of the area or contracted by other means). The City of Dallas uses an integrated mosquito management approach and will follow recommended protocols from Dallas County Health and Human Services and the CDC when identifying the treatment area.

On September 7, 2016, the City Council 1) authorized the City Manager to execute a letter requesting aerial sprays as Dallas County Health & Human Services deems necessary, in its best professional judgment as the City's health authority, to provide aerial spraying for mosquito control, and 2) increased appropriations in the amount of \$2,000,000 in contingency reserves to the Code Compliance department budget. This funding, if not used, will remain in the budget until December 31, 2017.

### **Citizen Notification List**

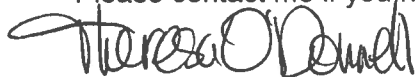
The City of Dallas maintains two notification lists via the 3-1-1 system. The Do Not Spray List allows citizens that do not wish to have their property sprayed to register via the 3-1-1 system by phone call or online. The Beekeeper Notification List allows beekeepers to receive an email advising of all spray locations in the city.

### **Historical Data on West Nile Virus Human Cases and Deaths**

For historical perspective, the following table depicts the number of WNV human cases and deaths in the city of Dallas over the last five years.

Year	2012	2013	2014	2015	2016
Human Cases	211	7	7	15	32
Deaths	9	1	0	1	1

Please contact me if you have any questions or need additional information.



Theresa O'Donnell

Interim Chief of Economic Development & Neighborhood Services

- c: T.C. Broadnax, City Manager  
Larry Casto, City Attorney  
Craig D. Kinton, City Auditor  
Rosa A. Rios, City Secretary  
Daniel F. Solis, Administrative Judge  
Kimberly Bizer Tolbert, Chief of Staff to the City Manager  
Majed A. Al-Ghafry, Assistant City Manager
- Mark McDaniel, Assistant City Manager  
Eric D. Campbell, Assistant City Manager  
Jill A. Jordan, P.E., Assistant City Manager  
Joey Zapata, Assistant City Manager  
M. Elizabeth Reich, Chief Financial Officer  
Alan E. Sims, Interim Chief of Community Services  
Directors and Assistant Directors