

Memorandum



CITY OF DALLAS

DATE June 7, 2019

TO Honorable Mayor and Members of the City Council

SUBJECT **2019 Mosquito Abatement Plan**

The active season for the 2019 Mosquito Abatement Plan began on April 1, and continues through October 31, of the year. This briefing memorandum serves to update you on the plans for the 2019 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 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 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 five to seven 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 five 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.

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

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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. The funding approval expired December 31, 2017 therefore some consideration should be given to re-authorizing this funding in the event that Dallas County, as the Health Authority for the City of Dallas, determines aerial spraying is necessary due to a public health crisis.

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 seven years.

Year	2012	2013	2014	2015	2016	2017	2018
Human Cases	211	7	7	15	32	16	4
16	9	1	0	1	1	2	1

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

Carl Simpson
Director, Department of Code Compliance Services

- c: T.C. Broadnax, City Manager
Chris Caso, City Attorney (Interim)
Mark Swann, City Auditor
Biliera Johnson, City Secretary
Preston Robinson, Administrative Judge
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Directors and Assistant Directors