



1745 Hoffman Mill Road
PO Box 580, Fort Collins, CO 80522-0580

MEMORANDUM

Date: July 28, 2021

To: Mayor and City Councilmembers

From: Matt Parker, Sr. Supervisor, Natural Areas ^{DS} MP
Amy Resseguie, Sr. Specialist, Communications & Public Involvement ^{DS} AR
Tyler Marr, Deputy Director, Information & Employee Services

Through: Darin Atteberry, City Manager ^{DS} DA
Kelly DiMartino, Deputy City Manager ^{DS} KD
Seve Ghose, Director, Community Services ^{DS} SG
Mike Calhoon, Director, Parks
Zoe Shark, Interim Director, Natural Areas

Subject: West Nile virus (WNV) – Weekly Update

Summary:

Conditions have largely held steady since last week's initial detection of WNV-positive mosquitoes. This week's data shows two positive traps in the southeast quadrant of the city. Mosquito abundance and infection rate (calculated as the Vector Index) remain below the threshold for adult mosquito spraying. Data indicates that the abundance of WNV-transmitting *Culex* species remains at approximately double the annual average for this week.

Current Vector Index:

Week No: 29	Vector Index Threshold:	Previous Week Vector Index:	Current Vector Index:
FC – Zone NW	NA	0.00	0.00
FC – Zone NE	NA	0.00	0.00
FC – Zone SE	NA	0.09	0.14
FC – Zone SW	NA	0.00	0.00
FC – Citywide	NA	0.00	0.03
Floating Zone	0.75	0.37	0.41

Current Conditions: Two traps detected WNV-positive mosquitoes, both in the southeastern quadrant of the city. This is the second consecutive week two traps in the southeast have tested positive. A floating zone consisting of the 5 nearest traps indicates a vector index value of 0.41. This area is bound by Timberline Rd., Harmony Rd., I-25, and Carpenter Rd. Exceptionally hot and dry periods, interrupted by occasional rainfall events, have allowed *Culex* mosquitoes to thrive. Vector index values are slightly below average for this point in the summer, however

Culex mosquito abundance exceeds the average two-fold. The Vector Index calculation is the product of mosquito abundance and mosquito infection rate.

Process for Spray Recommendations: Current WNV conditions are below the policy thresholds identified for adult mosquito spraying applications. If the City's trapping network shows WNV activity beyond the threshold of 0.75, the Larimer County Health Department will likely make a recommendation that the City conduct an application to treat adult mosquitoes. If an application is recommended, areas of concern will be identified based on data from a minimum of 5 traps. Identified treatment areas may be sub-zone or may cross zone boundaries.

Outreach and Public Awareness:

Budget reductions have impacted the WNV outreach effort eliminating poster/rack card printing, print and radio ads, bus bench ads, and community events booths. Street banners, social media, and other digital content will continue as planned. In the event of a localized spike in the vector index value, door hangers will be distributed. Outreach materials and messaging are shared in both English and Spanish.

Outreach information is centered on "4Ds" messaging, which encourages people to Drain standing water, Dress in long pants and sleeves to deter biting, Defend with EPA-approved repellent, and avoid the high mosquito activity time between Dusk & Dawn.

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