

MOSQUITO CONTROL POLICY

Wednesday is the City of Mansfield's assigned lab testing day per the Tarrant County Public Health Department. Test results are received Friday afternoon and determine if mosquito spraying is necessary.

Spraying will occur Friday-Sunday, from dusk to dawn.

RISK LEVEL

00

NO RISK

CONDITION

No evidence of mosquito or viral activity.

TRIGGER

No, or lower than normal, mosquito activity and no evidence of virus/disease detected during the past 6 weeks in vectors, humans, or other hosts.

CONTROL MEASURES

- Promote source reduction and personal protection.
- Conduct standard larviciding approaches.
- No adulticide spraying will occur at this response level.

RISK LEVEL

02

ENHANCED RESPONSE

CONDITION

Low to moderate probability of human outbreak.

TRIGGER

- Normal mosquito activity with little or no evidence of virus/disease.
- Trapped mosquitoes test positive for West Nile and indicate that exposure likely occurred locally.
- Enhanced response level is due to the recent historical presence of West Nile in vectors, humans, or other hosts within the vicinity of Mansfield (approximately 10 miles).

CONTROL MEASURES

- Promote source reduction and personal protection.
- Conduct standard larviciding approaches.
- Increase efforts in areas where positive mosquito pools are detected.
- Consider adult mosquito control procedures in and around the area of positive sample locations.
- Response emphasis should remain on larvicide and habitat removal activities, but may include some isolated adult mosquito control procedures to maximize risk reduction for human health.

RISK LEVEL

04

PUBLIC HEALTH ALERT

CONDITION

Multiple human cases are confirmed.

TRIGGER

Multiple human cases confirmed by laboratory testing and continued viral mosquito activity

CONTROL MEASURES

- Promote source reduction and personal protection.
- Intensify larviciding efforts.
- Use insect growth regulators in targeted areas to reduce larvae.
- Once a confirmed positive, human case of West Nile Virus or other mosquito-borne pathogen has been discovered and if larvicides are not reducing the threat to an acceptable level, the Public Works Director, or a designated representative, shall determine the need to consider targeted adult mosquito controls.

RISK LEVEL

01

NORMAL RESPONSE

CONDITION

Probability of human outbreak is remote.

TRIGGER

Normal mosquito activity with no evidence of virus/disease detected during the past 6 weeks in vectors, humans, or other hosts.

CONTROL MEASURES

- Promote source reduction and personal protection.
- Conduct standard larviciding approaches.
- No adulticide spraying will occur at this response level.

RISK LEVEL

03

PUBLIC HEALTH WARNING

CONDITION

Moderate to high probability of human outbreak.

TRIGGER

Multiple mosquito pools collected at different times and locations test positive for West Nile. Probable human or equine cases reported by laboratory testing.

CONTROL MEASURES

- Promote source reduction and personal protection.
- Intensify larviciding efforts.
- Increase efforts in areas where positive mosquito pools were detected, if applicable.
- Once surveillance results determine the presence of West Nile Virus or other mosquito-borne pathogens in multiple pools and/or multiple birds tested in the same vicinity the threat to human health is considered imminent and if larvicides are not reducing the threat to an acceptable level, the Public Works Director, or a designated representative, shall determine the need to consider targeted adult mosquito controls.
- The decision to spray is based on the effectiveness of spraying adulticides and risks to the health of residents. It is not made based on complaints from residents.
- Spraying efforts should be implemented only in the vicinity (approximately 1/4 mile or more) of areas where mosquito traps and bird tests indicate a dense pathogen bearing mosquito population or where positive tests are located near dense human populations.

This response plan is partially based on Department of State Health Services recommendations and is also in line with the Tarrant County Public Health guidelines for a phased response to mosquito surveillance. It should be noted that the City of Mansfield retains the right to implement measures as it sees best fit for the residents based on health risks within the city limits.