

# Code Services Department: Health Compliance Division

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# AGENDA

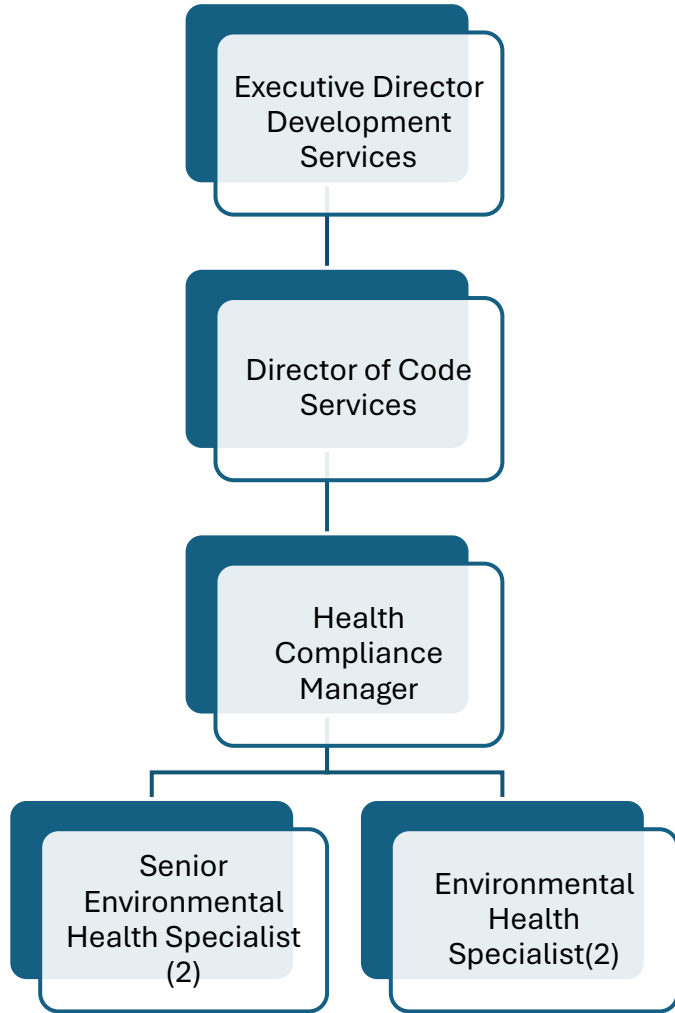
- Recognize National Mosquito Awareness Week
- **Health Team Responsibilities**
- **Mosquito Control Program**
- Personal Mosquito Control Tips



# Code Services Department: Health Compliance Division

## MISSION STATEMENT

The Health Compliance Division of the City of McKinney is committed to safeguarding the health and safety of the community by managing food service industry regulations, public health concerns, commercial swimming pool safety, and integrated mosquito management.



**National  
MOSQUITO  
CONTROL  
AWARENESS  
Week**



**June 20th - 26th**  
#NationalMosquitoWeek



# Mosquito Statistics

- Estimated 700 million cases of mosquito-borne illness annually
- **700K deaths annually around the globe**
- 2K-3K West Nile Virus cases annually
- Certain populations are more at risk, older adults, young children, those with weakened immune systems
- **In Texas, 192 Cases in 2025, including 4 deaths**





## Mosquito Basics

- Attracted to humans from the carbon dioxide and lactic acid
- Develops from an egg to an adult in 7-10 Days
- Must have standing water for the reproduction cycle





# Mosquito Basics

- In North America we have approximately 150 different species of mosquitoes
- In Texas, there have been 85 species identified



# Texas Mosquitoes

- *Culex quinquefasciatus*- Southern house mosquito
- Most concerning mosquito in the North Texas Area
- Medium sized mosquito with brown body
- Breeds in stagnant water, containing organic matter



# Texas Mosquitoes

- Aedes albopictus- Asian Tiger Mosquito
- Breeds in treeholes, plants, and containers
- Active day biters, very aggressive
- Main disease carrier of Zika Virus



# Mosquito Control Program

Active Surveillance- monitoring known standing water locations and identifying new areas

Development of subdivisions can lead to mosquito breeding grounds, with detention/retention ponds, drainage issues, and more populated areas

During calls for service, we provide residents with mosquito dunks that will kill mosquito larvae for up to 30 days

Weekly mosquito trapping and testing around the City of McKinney



# Mosquito Control Program

16 permanent traps that are set in the same location every week from April till the end of October, weather dependent

5 additional traps that can be set for active surveillance or resident concerns

Public education events and media outlets to promote mosquito control activities

As a last method of control we will contract spraying in an identified area



# Mosquito Control Program

Spraying (adulticiding) is done only when there is a confirmed human case of a mosquito borne disease, or:

A confirmed mosquito trap has tested positive for a disease

Spraying is done in an identified area with a 1 mile radius around the location



# Historical Data

- 2025- 329 Traps Set, 6 Mosquito, 0 Human
- 2024- 293 Traps Set, 15 Mosquito, 2 Human
- 2023- 285 Traps Set, 4 Mosquito 0 Human
- 2022- 343 Traps Set, 2 Mosquito, 0 Human
- 2021- 322 Traps Set, 5 Mosquito, 2 Human
- 2020- 309 Traps Set, 3 Mosquito, 1 Human
- 2019- 93 Traps Set, 0 Positive Human or Mosquito
- 2018- 180 Traps Set, 7 Mosquito, 1 Human
- 2017- 132 Traps Set, 2 Mosquito, 0 Human
- 2016- 126 Traps Set, 6 Mosquito, 2 Human
- 2012- 147 Traps Set, 19 Mosquito, 3 Human



# Preventing Mosquito Bites

## Use

- Use an approved insect repellent every time you go outside. Approved repellents include those that contain DEET, picaridin, oil of lemon eucalyptus, or IR3535. Follow the instructions on the label

## Wear

- Wear long sleeves and pants when outside. With the summer heat, an alternative may be to opt for longer shorts, plus socks and tennis shoes instead of sandals

## Avoid

- Avoid being outside or take extra precautions at dusk and dawn when mosquitoes are most active

## Use

- Use air conditioning or make sure there are screens on all doors and windows to keep mosquitoes from entering the home





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## Prevention around your Home

- At least weekly, empty or remove trash cans, buckets, old tires, pots, plant saucers, and other containers that hold water
- Keep gutters clear of debris and standing water
- Remove standing water around structures and from flat roofs
- Change water in pet dishes daily
- Rinse and scrub vases and other indoor water containers weekly
- Change water in wading pools and bird baths several times a week
- Use mosquito dunks with larvicide for water that can't be emptied or covered



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# Prevention around your Home

- Keep backyard pools and hot tubs properly chlorinated and free of debris
- Cover trash containers
- Water lawns and gardens carefully so water does not stand for several days
- Screen rain barrels and openings to water tanks or cisterns
- Treat front and back door areas of homes with residual insecticides if mosquitoes are abundant nearby
- If mosquito problems persist, consider pesticide applications for vegetation around the home



# Questions?

## Contact Us:

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# THANK YOU

