

# BAY COUNTY MOSQUITO CONTROL

Bay County Mosquito Control strives to reduce mosquito populations to tolerable levels to minimize the risk of disease transmission and improve quality of life for our residents and visitors

## + Mosquito Life Cycle

Mosquitoes are aquatic insects with four life stages: egg, larva, pupa, and adult. In the summer, it takes 7-10 days for a mosquito to complete its life cycle to adult. The warmer the water, the more quickly the cycle is complete.

## + Surveillance

All operations are guided by surveillance performed by our Biology Department. This includes sampling and trapping to determine where mosquito populations are highest. We also conduct surveillance for mosquito-transmitted viruses.

## + Aerial Larval Control (Spring)

The mosquito control season kicks off with the spring aerial treatment of woodlots flooded from snowmelt and spring rains. Fixed-wing aircraft treat over 50,000 acres of woodlots with a naturally-occurring soil bacterium called BTI. While BTI is toxic to mosquito larvae when ingested, it won't harm humans, pets, bees, frogs, fish, or other aquatic insects.

## + Larval Control (Summer)

As the summer months begin, the program shifts focus to routine inspection and treatment of breeding sites to limit adult mosquito emergence. When possible, removing the source of breeding is preferred, with the next choice being treatment with bacterial products.

## + Adult Control (Summer)

It is virtually impossible to find and treat all larval breeding sites. This is where our nighttime fogging operations come in. Using less than 1 oz. per acre of insecticide, we can knock down mosquitoes that are active in the area at the time of treatment.



## 2022 Program Data:



- o 2,608 scrap tires recycled
- o 17,192 breeding sites inspected
- o 52,434 acres of woodlots treated by air
- o 40,828 catch basins treated
- o 1,679 miles of roadside ditches treated
- o 12,047 miles fogged for adult mosquitoes
- o 2,437 adult mosquito service requests
- o 100,309 female mosquitoes collected in traps
- o 32 West Nile virus-positive mosquitoes
- o 6 Jamestown Canyon virus-positive mosquitoes
- o 5 West Nile virus-positive birds
- o 0 human West Nile virus cases in Bay County