

MULTIPLE-USE,
CAMPGROUND, &
RECREATION AREAS



PUBLIC NOTICE
Mosquito Control

**BAY COUNTY
RESIDENTS AND VISITORS:**

To promote public health, Bay County Mosquito Control may treat this area to help reduce the occurrence of vector and nuisance mosquitoes by targeting areas in which they breed. The following habitats may be treated by certified applicators: artificial containers, cross country drains, flooded fields, flood plains, flooded woodlots, idle swimming pools, ponds, pickle vats, roadside ditches, sewage lagoons, tires, and tree holes.

Outdoor public recreation areas (i.e., campgrounds, rest areas, parks, playgrounds, picnic areas, athletic fields) may also be treated to reduce the mosquito population. Method of application may include aerial application, hand-held spreaders, hand-held pressure sprayers, truck-mounted pressure sprayers or truck-mounted ultra-low volume cold aerosol foggers.

Date of Application—April through October

Contact Information:

Rebecca J. Brandt or Mary J. McCarry
Bay County Mosquito Control
810 Livingston Avenue
Bay City, MI 48708 (989) 894-4555

ADA ASSISTANCE

The County of Bay will provide necessary and reasonable auxiliary aids and services, such as signers for the hearing impaired or audiotapes of printed materials to individuals with disabilities. Contact Amber Davis-Johnson, Director of Corporation Counsel, 515 Center Avenue, Suite 402, Bay City, MI 48708 or call (989) 895-4131.

Revised 3-9-20



**Materials Used to
Control Mosquitoes**

**Common Name &
Active Ingredient**

VectoBac® G, VectoBac®
12AS, or Bti Briquets™ (*Bacillus
thuringiensis israelensis*)

BVA2 Mosquito Larvicide Oil
(refined petroleum distillate)

Provect® 4E (temephos)

Altosid P35 (methoprene)

Duplex-G (Bti and methoprene)

Agnique® MMF (Poly(oxy-
1,2-ethanediyl), α -isooctadecyl
- ω -hydroxyl)

Masterline® Kontrol 4-4, or All-
Pro® Evoluer™ 4-4 ULV
(permethrin & piperonyl
butoxide)

VectoLex® FG
(*Bacillus sphaericus*)

Natular™ XRT, XRG, 2EC
(spinosad)

DISCARD POSTING AFTER NOVEMBER 1

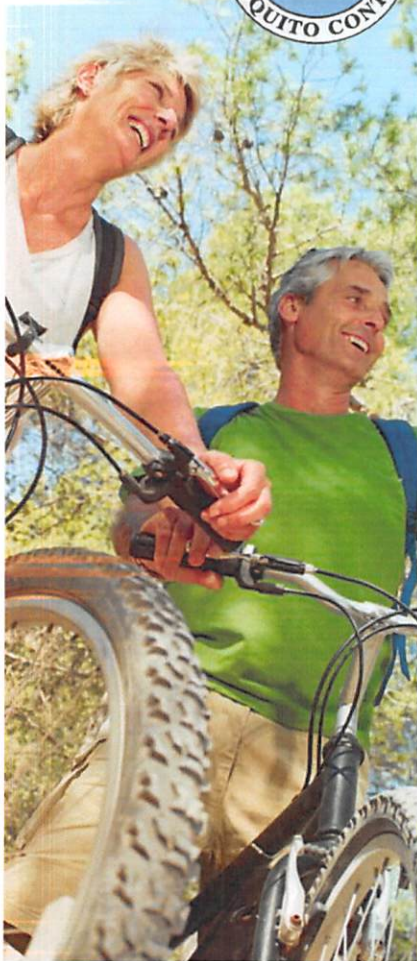
Mosquito Control Services

A Community-Wide Public Health Program

Outdoor Living

The program began in 1977 after an outbreak of St. Louis encephalitis occurred in Michigan and seeks to protect the health and quality of life of county residents from disease and annoyance caused by mosquitoes. Bay County residents enjoy spending time outdoors each summer, but the presence of mosquitoes can interfere with outdoor recreation. Bay County Mosquito Control tries hard, therefore, to reduce mosquito numbers so residents can enjoy Michigan's all-too-short summer.

989-894-4555



1 Aerial Larval Control (April)

Early spring mosquitoes develop quickly in flooded woodlots as the weather begins to warm. Aerial larval control is the use of aircraft to apply mosquito control products to standing water to control mosquito larvae. Airplanes will treat during daylight hours from 7:00am-7:00pm when weather conditions permit. The airplanes will apply a material called *Bti*, which is a naturally-occurring soil bacterium. When eaten by mosquito larvae, their stomach cells dissolve causing death within 24 hours. *Bti* won't harm humans or other animals including fairy shrimp, frogs, fish, or honeybees. Over 50,000 acres of woodlots are treated each spring, which is a considerable component of the entire program.

2 Larval Control (May-Sept.)

As temperatures begin to warm, the program shifts focus to routine surveillance to find and control mosquito larvae and pupae in breeding habitats to limit adult mosquito emergence. When necessary, bacterial products are the preferred choice in controlling larvae. When possible, containers are turned over to get rid of standing water. Over 10,000 site inspections are conducted each summer to locate and reduce mosquito breeding. Habitats that are monitored include rain barrels, catch basins, ponds, tires, flooded fields and woodlots, ditches, and county drains.

3 Adult Control (May-Sept.)

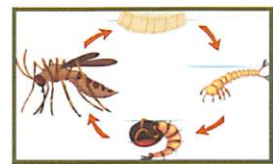
While larval control is the preferred method of treatment, it is virtually impossible to find and treat all breeding sites, so adult control (fogging to control adult mosquitoes in flight) is part of the Integrated Mosquito Management program. Ultra Low Volume (ULV) equipment mounted on trucks allows a small amount of material to be dispensed to control adult mosquitoes. Route maps are also utilized so efficient routes are followed and all county roads are treated without skips or over-treatment.

4 Biology Department

All operations are guided by biological surveillance of both larval and adult mosquito populations. Treatments are based on trapping and dipping information, which guide technicians to areas of most concern. Disease surveillance is also conducted to monitor for mosquito-transmitted diseases in Bay County.

Mosquito Life Cycle

Mosquitoes are aquatic insects with four life stages—egg, larva, pupa, and adult. Adult female mosquitoes feed on blood before they can lay up to 200 eggs in damp soil or water. In the summer, it takes 7-10 days for a mosquito to complete its life cycle. The warmer the water, the more quickly the cycle is complete.



Scrap Tire Drives

Two scrap tire drives are held annually to remove tire breeding sources from the environment. Bay County residents may bring up to 10 rimless passenger car or truck tires to the tire drive at no cost. No commercial businesses or agricultural tires are allowed.

2019 Bay County Data

- * 53,668 female mosquitoes collected in traps
- * 13 West Nile virus-positive mosquito samples
- * 3 West Nile virus-positive wild birds
- * 12 human cases of West Nile virus in MI, one from Bay County; no fatalities
- * 52,434 wooded acres treated for spring mosquitoes
- * 18,010 larval site inspections
- * 3,700 miles of roadside ditches treated
- * 32,586 catch basins treated
- * 13,974 miles fogged for adult mosquitoes
- * 3,981 adult mosquito service requests
- * 1,425 scrap tires collected