



## Help us control the mosquito population

Do not give mosquitoes a place to breed

**The best way to reduce our mosquito population is to eliminate the places where mosquitoes breed.** Standing water provides the ideal breeding ground for mosquitoes. Please follow these steps to help control the mosquito population:



**Put away water-holding containers** such as tires, buckets, flowerpots, toys, etc.

**Clean clogged roof gutters.**

**Properly care for backyard pools** and frequently change water in birdbaths and wading pools.

**Treat water in water gardens or fountains** if the water does not flow on a regular basis. You can purchase a larvicide at local home improvement stores and use it to kill mosquitoes in the water before they hatch. Products known as "BTI", "mosquito dunks" and "Altosid" are examples of larvicides.

**Turn over canoes, small boats and wheelbarrows** stored outside or cover them with a tarp. Make sure the tarp doesn't sag and allow water to collect on top of it.



**Repair leaks** on faucets or air conditioning units.

**Ensure adequate drainage** of sump pump discharge.

**Drain or fill in low areas** in your yard; clean drains, ditches, and culverts to ensure proper drainage.

**Cover trash containers.**

**Dispose of old tires.** They are a major producer of mosquitoes. The Fargo and Clay County landfills accept tires for a free.

**Fill in hollow stumps** that hold water with sand or concrete.

Keep **grass and shrubs** around your home trimmed well

## Using chemicals to control mosquitoes on your property

**Larvicides:** chemicals that may be placed in standing water to kill mosquito larva

**Recommended active ingredients:**

- **Bacillus thuringiensis** – bacterial larvicide that is non-toxic and will not harm non-target, beneficial organisms
- **Methoprene** – an insect growth regulator (IGR), which prevents larval mosquitoes from

emerging as adult mosquitoes due to death at the pupal stage

**Adulticides:** chemical effective for application on backyards, vegetation areas, shrubbery

**Recommended active ingredients:**

- **Permethrin** – should be applied to where mosquitoes rest. Spray surfaces to the point of run-off. Treat no more than once every two weeks.
- **Pyrethrin** – apply to tall grass, shrubbery and around laws where mosquitoes hover or rest
- **Cyfluthrin** – spray solution is applied to damp areas beneath shrubs, in areas of tall grass or weeds, and on other surfaces where mosquitoes rest outdoors. Do not apply to food crops or fish inhabiting waters.

**Vegetation management:** chemicals are successful if applied to mosquitoes harboring in vegetation, shrubs, and lower limbs of trees

**Recommended active ingredients:**

- **Allethrin** is an effective way to control mosquitoes in vegetation areas.
- **Malathion** is useful in shaded areas. Please be aware that it may damage painted surfaces.
- **Carbaryl** should be applied as a coarse spray on vegetation, walls, and other potential mosquito resting areas.