



COWLITZ COUNTY  
MOSQUITO  
CONTROL DISTRICT

For Assistance in controlling Mosquitoes  
in your area, please call us:

**24 Hr Hot Line: (360) 425-5658**

**Office: 1319 South 13th Av  
Kelso, WA**

**Mailing Address: PO Box 1261  
Longview, WA 98632**

**Phone / Fax: (360) 423-5311**



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MOSQUITO  
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## CONTROL AGENTS USED BY THE DISTRICT



**OUR POLICY:** We will use only those agents that will be the least hazardous to humans, wildlife, non-target insects and to the local environment.

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## Larvicides:



We make every effort to locate standing water where mosquitoes breed and control them while they are still in the larval stage.

This is the most effective approach to mosquito control with the least impact on other organisms and on the environment.

**BTI:** (a biological control) is a strain of bacteria (*Bacillus thuringiensis var. israeliensis*) which affects only mosquito and black fly larvae thus sparing other insects. However it is effective only in the early stage of mosquito larval development. Consequently timing is critical and constant monitoring is necessary. The EPA states: **“Thirty years of widespread *Bacillus thuringiensis* use has produced no confirmed reports of immediate or delayed allergic reactions to the delta-endotoxin itself despite significant oral, dermal, and inhalation exposure to the microbial product.”**<sup>1</sup>

**VECTOLEX:** (a biological control) is a strain of bacteria (*Bacillus sphaericus*) that works well in highly organic waters such as log ponds. It is also approved for use in storm drains and catch basins. The EPA states **“Based on extensive testing, no harmful effects are expected to occur to the public when applied according to label directions. Various tests revealed no expected harm to non-target organisms.”**<sup>2</sup>

**ALTSID:** (an insect growth inhibitor) Methoprene, the active ingredient in Altsid prevents mosquito larvae from emerging as adults, thus interrupting their life cycle. The EPA states **“methoprenes are not harmful to birds or mammals”** for fish and other aquatic life **“if used according to label directions, should be well below the levels that are harmful in laboratory toxicity tests.”**<sup>3</sup>

**AGNIQUE:** (physical control) this product reduces the surface tension of water. Larva and pupa cannot remain at the surface to breathe and thus suffocate.

**BVA-2 MOSQUITO LARVICIDE OIL:** (physical control) this colorless and odorless oil spreads as a thin film on the water surface. Larva and pupa cannot get their breathing tube through the film and thus suffocate. It is effective for all stages of larva and pupa. In just a few days the oil film will dissipate by evaporation. It must be reapplied as needed.

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## Adulticides:



Adult control is used only when adult mosquitoes are present in sufficient numbers as to pose a risk to health.

**ANVIL and SCOURGE:** (for control of adult mosquito populations) these are pyrethroids, a synthetic version of the natural insecticide found in the chrysanthemum flower. They are very low in toxicity and degrade rapidly. These products are dispersed from our truck mounted ULV machine in the evening or early morning when mosquitoes are active. It is only effective against insects that actually “fly” into the “fog”. It is not harmful to humans or other animals.

**SUSPEND:** (for control of adult mosquitoes) a barrier treatment that is effective against a wide range of insects. For mosquito control it is applied to foliage where adult mosquitoes rest.

**All products are EPA registered to control mosquitoes and applied according to label directions. Use in the State of Washington is approved by the Washington State Department of Agriculture and the State Department of Ecology.**

You may request further information and Material Safety Data Sheets by calling (360) 423-5658.

**References:** All EPA statements from the EPA web site <http://www.epa.gov/pesticides/biopesticides/ingredients/index.htm#B>

1. EPA: *Bacillus Thuringiensis* subspecies *israelensis* strain EG2215 (006476) Fact Sheet

2. EPA: *Bacillus sphaericus* Serotype H5a5b (128128) Fact Sheet

3. EPA: Insect Growth Regulators Fact Sheet