



Adult Mosquito Control

Mosquitoes are an annoying part of life in the Yukon, but various products have been formulated to repel them. Following is some information about some of the adult mosquito control options available in the Yukon.

Least Toxic Methods

- Use citronella plants/candles/torches (citronella is a natural repellent);
- Use mosquito coils;
- Wear repellents and protective clothing;
- Enclose tented areas with mesh to prevent mosquitoes from entering;
- Avoid scented health & beauty products;
- Empty containers of standing water on your property.

DEET

- DEET (N,N-diethyl-M-toluamide) is an organic hydrocarbon material available in a variety of formulations including aerosols, spray, and creams, for application to human skin.
- DEET products are formulated with concentrations ranging from 10 - 30%.
- DEET is absorbed through the skin into the circulatory system.
- Some toxic and allergic reactions have been reported. Toxicity has been associated with excessive or prolonged use of low concentrations (particularly in infants or children) or with brief exposure to high concentrations in some children and adults.

Propoxur (Baygon)

- Propoxur is an organic pesticide, and is formulated as an emulsifiable concentrate.
- It is non-phytotoxic (non-poisonous to plants) and non-systemic (not absorbed by plant or animal) and acts rapidly.
- It kills plant bugs and aphids, but is mainly used to control household pests and for mosquito abatement.
- It has a moderate mammalian acute toxicity: LD50: oral = 28; dermal >2,400 (LD50 is a measurement of the toxicity of a pesticide applied to the skin or taken orally).
- It is highly toxic to honeybees.
- It has a long residual effect (can last up to 3 months).
- It is not as persistent as Cythion (see below).
- It is recommended for use at temperatures below 18°C.
- It is applied by the fogging method.
- It is classified as a Domestic product (i.e. it can be purchased and used without a Pesticide permit). Commercial products are also available containing Propoxur, but a permit must be obtained from the Department of Environment to use them.

Cythion (Malathion)

- Cythion is a synthetic organic contact insecticide containing phosphorous.
- It acts by inhibiting a chemical in the body called cholinesterase.
- Malathion concentrate may cause spotting on automobile paint.
- The effectiveness of malathion decreases below 18°C, and other options should be used at lower temperatures.
- It is somewhat poisonous to a number of plants (ferns, petunias, orchids and some fruit varieties).
- It is not persistent - it will break down to less harmful chemicals.
- It has low mammalian acute toxicity (LC50: oral = 1,000; dermal = 4,100).
- It is toxic to fish and honeybees.
- It is classified as a Commercial product under the federal Pest Control Products Act (i.e. a Pesticide permit is required to use cythion).
- Applications to apply cythion are subject to review by the Adhoc Pesticide Review Committee (members include Canadian Wildlife Service, Department of Fisheries & Oceans, Environment Canada, Health & Social Services, First Nations, and others as applicable).

Other Topics

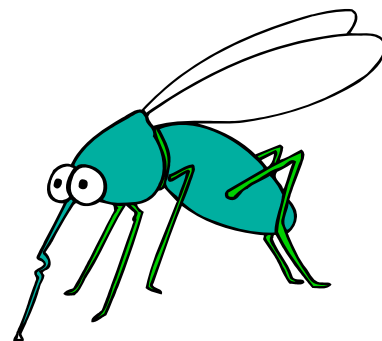
Fact Sheets are also available on the following topics:

- Pesticides Regulations
- Pesticide Vendor Permits
- Pesticide Service Permits
- Pesticide Use Permits
- Pesticide Applicator Certificates
- Rodent Problems

For more information on Mosquito Control or the Pesticides Regulations, please contact:

Environmental Programs Branch
 Department of Environment (V-8)
 Government of Yukon
 Box 2703
 Whitehorse, YT
 Y1A 2C6

Phone: (867) 667-5683
 Toll free: 1-800-661-0408 (extension 5683)
 Fax: (867) 393-6205
 email: envprot@gov.yk.ca



Copies of Yukon regulations may be viewed online at <http://environmentyukon.gov.yk.ca/monitoringenvironment/> under the "Standards & Approvals" section, or at any Yukon Public Library, territorial agent, territorial representative or regional services office. You may purchase copies at the Inquiry Centre, Yukon Government Administration Building, 2071-2nd Avenue in Whitehorse, or by mail from the Subscriptions Clerk, Yukon Government Queen's Printer, Box 2703, Whitehorse, Yukon, Y1A 2C6 (phone (867) 667-5783 or toll free 1-800-661-0408 extension 5783).