

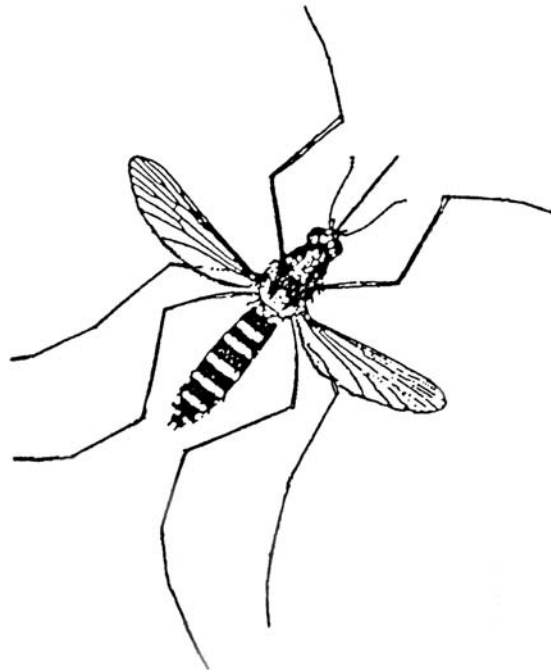
D.G. Regan and Associates Ltd. is an environmental services and consulting firm. The company's principals are Registered

Professional Biologists. We

provide services which meet the growing needs of both industry and government.

For more information about mosquitos, please contact:

- DG Regan and Associates Ltd.
604-931-4565: www.dgregan.com
- Health Canada: www.hc-sc.gc.ca or www.westnilevirus.gc.ca
West Nile Virus info line: 1-800-816-7292
- The Province of BC West Nile Virus response plans: BC Centre for Disease Control
604-660-0584 or www.bccdc.org
- To report dead birds: Fill out the form at www.cw.bc.ca/cdc/WestNile/wnv_formIE.asp



Mosquito control programs are necessary because mosquito bites:

cause

- annoyance
- allergic reactions
- infections

can transmit disease

- encephalitis
- dog heartworm

reduce

- tourism revenues
- outdoor enjoyment and recreation
- weight gain in livestock
- milk production in dairy cattle
- livestock reproduction and survival

Mosquito Facts



Mosquitos need standing water to develop.



Mosquito habitats include ponds, sloughs, river flood plains, and tidal marshes.



Man-made habitats include ditches, tires, bird baths, unused swimming pools, boats, eavestroughs.



Only females bite because a blood meal is required for egg production.



Some female mosquitos take multiple blood meals and produce several generations during a single season.



Only one mating is required to fertilize a lifetime of egg production.



Mosquitos can live from one to two months and others over winter to live up to a year or more.



Mosquitos can travel up to 20 miles.



In the Canadian Arctic, mosquitos can bite at the rate of more than 1000 per minute.

Myths About Mosquito Control

Repellents

Sound and Electric

- these devices have no repellency effects
- units are marketed with no test results

Citronella (plants and candles)

- no data support claims
- pleasant odor does not guarantee results

Skin Moisturizing Oil

- field tests do not support claims
- mosquitos are 30 times more sensitive to DEET than to skin moisturizers

Control

Bug Zappers

- mosquitos comprise less than 5% of the catch
- kill mostly beneficial insects
- actually attract mosquitos

Birds

- ornithologists state Purple Martins and other swallow-like birds do not prefer mosquitos
- mosquitos make up less than 3% of their diet

Bats

- bat diets consist mainly of beetles, wasps, ants, flies, stoneflies, mayflies, moths and grasshoppers
- mosquitos make up less than 1% of their diet

Homeowner Efforts

Since mosquitos need water to complete their life cycle, the source of a mosquito problem can be just about anywhere water can collect. You can help reduce mosquito populations around the home by eliminating these sites and by:



removing discarded containers from around your property.



replacing water in bird baths and livestock troughs regularly.



cleaning clogged eavestroughs, drain pipes and ditches.



storing boats, canoes and other objects so that they do not collect rain water.

Mosquitos are attracted to humans because of the heat, the carbon dioxide we exhale and fragrances in items such as soaps, perfumes, lotions, hair treatments and other personal care products. To reduce the annoyance of mosquitos;



install and maintain tight fitting window and door screens to help keep mosquitos out of the home.



wear light colored, loose-fitting clothing.



heat and moisture from barbeques attracts mosquitos, after cooking, move away to enjoy your meal.

Effective Mosquito Control

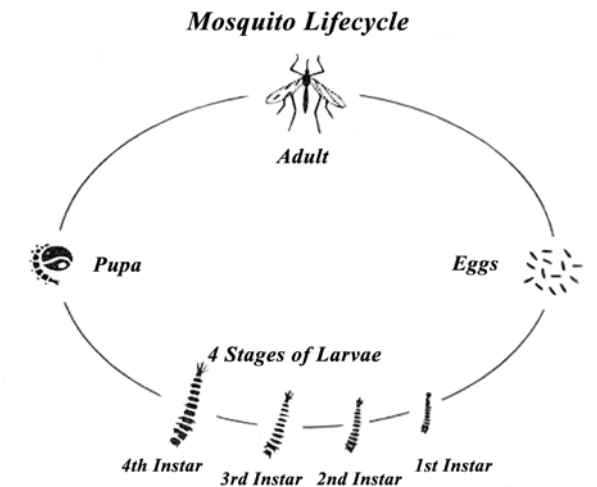
The essential components of a successful mosquito control program include;

- public information which provides the public with updates on program activities and aids homeowners in reducing mosquito annoyance around the home.
- regulatory agency liaison and permitting to ensure the safest methods are employed.
- aerial/ground-based surveying and monitoring of both adult and larval mosquito populations and distributions.
- selection of the most effective and safest mosquito control options including;
 - biological control
 - physical control
 - chemical control
- program evaluation.

Break the Cycle!

Your pro-active control program concentrates efforts on the physical and biological control of larvae before they become a nuisance.

The most permanent prevention of adult mosquito annoyance is through the physical reduction of the problem, at the source. Where draining and filling of wetlands and other mosquito habitats is impractical and undesirable, overall reduction of adult mosquitos is best achieved through larval control.



Biological control using the product VectoBac 200G™ breaks the cycle by controlling larvae. This material contains a naturally occurring bacterium commonly known as *Bti* (*Bacillus thuringiensis* var. *israelensis*). It has no harmful effects on beneficial insects, frogs, fish, birds or mammals.