

Answers to Review Questions

Section 2: Pest Management

1. Nectar
2. Blood
3. Standing water
4. *Aedes* (spring and summer)
Culex
Coquillettidia or *Mansonia*
5. Adults
6. 2.5 cm
7. Larvae
8. To establish timing and effectiveness of control methods, and to establish the most cost effective components of the program.
9. Habitat modification
Mechanical exclusion
Light traps
Biocontrol agents
Repellents
Larvicides
Adulticides
10. Residual spray
Thermal fog
Ultra low volume
11. *Simulium venustum*
Prosimulium
12. 2 Weeks to several months
13. Late May and June
14. As soon as the ice breaks up in the spring
15. Protective clothing
Biocontrol agents
Repellents
Larvicides
Adulticides
16. *Bacillus thuringiensis israelensis* (Bt H-14)
17. Several hours to a few days

Section 3: Pesticides and the Environment

1. Propoxur
2. Chlorpyrifos
3. Methoprene
4. Methoxychlor
5. Chironomids and dipterans

Section 4: Legislation

1. Any use of Domestic class pest control products.
2. An Approval from NSDEL.
3. - 1:50,000 topo grid references or property PID #
 - a map or suitable drawing showing the location of all the water bodies to be treated
 - letters of permission from private property owners authorizing the use of a larvicide on their property (if applicable).
 - the location of all sensitive areas such as:
 - wells, dwellings, businesses, schools, agricultural fields, parks, campgrounds
 - fish bearing waters, including hatchery areas, sanctuaries and critical fish habitat and fish farms
 - marshes, bogs, swamps, or other wetlands
 - susceptible crops/organic farms or crops grown in marsh areas (e.g., cranberries, wild rice etc.)
 - endangered species habitat
 - irrigation water sources
 - potable and livestock water supplies
 - areas of human habitation/ activities (homes, recreational areas)

Section 5: The Label

Trade Name	BIO-300G	MOSE 30EC	1% BEGONE	65-20 MALDANE
Formulation type	Granule	Emulsifiable concentrate	liquid	fogging oil concentrate
active ingredients (a.i.)	<i>Bacillus ferrengis</i> , Serotype B-112	menetos	proposty	Mal-dane, beta sutoxy beta thiocarb dile ether
concentration of a.i.	300 ITU per milligram	30 g/L	1%	65% Mal-dane, 20% Beta sutoxy beta thiocarb dile ether

federal use designation	Commercial	Restricted	Commercial	Commercial
range of LD50s	1000-2000 mg/kg oral 1000-2000 mg/kg dermal	1000-2000 mg/kg oral 1000-2000 mg/kg dermal	<500 mg/kg oral, <500 mg/kg dermal	<500 mg/kg oral, <500 mg/kg dermal
PCP #	999999	11111	1156543	9824
name/address of company	X,Y,Z Limited Montreal, Canada XXX YYY	Meno Inc., 234 Inger St. Orangeville, ON Z1T G1G	ACME Pest Control Ltd. 235 Bromwell Dr. Rexdale, ON M9Q 1Z7	ACME Pest Control Ltd. 235 Bromwell Dr. Rexdale, ON M9Q 1Z7
mosquito control rate	3-10 kg/ha	35 to 100 mL per hectare	ready to use spray	14-17 L of mixed product per hectare
black fly control rate		apply to a concentration of 0.3 ppm		14-17 L of mixed product per hectare
application method	ground equipment or by hand	apply as a uniform spray	low-pressure sprayer with coarse spray nozzle.	fogging or misting equipment
antidote	none	Atropine, Pralidoxime chloride as an adjunct	Atropine sulfate	Atropine, Pralidoxime chloride (2- PAM) as an adjunct
disposal methods	follow provincial requirements (see core)	follow provincial requirements (see core)	follow provincial requirement (see core)	follow provincial requirement (see core)
first-aid methods	none	flush skin or eyes with water, call physician	do not induce vomiting. Obtain medical attention. Flush eyes with water, wash skin with soap and water	remove contaminated clothing, wash exposed skin with soap and water. Induce vomiting if swallowed. Get medical attention

Section 6: Human Health

1. Chlorpyrifos
2. Dichlorvos
3. Lower
4. Organophosphates
5. Enzymes controlling nerve impulse transfer
6. Before using pesticides, immediately after exposure
7. organophosphates and carbamates
8. headaches, fatigue, dryness, trembling, convulsions, respiratory failure and death
9. Lack of co-ordination, tremors, salivation, irritability to sound and touch.
10. dizziness, sweating, headache, muscular twitching, fatigue, nervousness, nausea, convulsions and vomiting

Section 7: Safety

1. the potential for drowning and pesticide exposure.
2. to identify any hazards such as rocks or submerged rocks.
3. boats are extremely unstable.

Section 8: Application Technology

1. 2
2. 0.28
3. 357.1 m²
4. 160.7 g
5. 132.1 g
6. 10.71 m³/sec
7. 3812.8 ml
8. 5.6 L
9. 1.1 L