

Questions and Answers about Spraying for Adult Mosquitoes

How are adult mosquitoes controlled?

Mosquito control agencies use truck-mounted fogging units to apply insecticides as an ultra-low-volume (ULV) spray. ULV spray units dispense very fine aerosol droplets (fog) that stay aloft and kill mosquitoes on contact. The amount of insecticide sprayed by ULV units is small compared to the area treated, usually about 3 to 5 ounces per acre, which minimizes exposure and risks to people and the environment.

Why do they fog for mosquitoes when I am out taking my evening walk?

The best time to kill adult mosquitoes by fogging is at dusk, when they are most active and looking for food (mosquitoes feed on human or animal blood). The aerosol fog primarily targets flying mosquitoes, which is why the timing of the spray is critical.

Will local officials notify me before fogging?

There is no law in South Dakota that requires local governments to notify citizens before fogging for mosquitoes. However, we will make every attempt to notify citizens through local media before spraying.

How long does the fog kill mosquitoes?

During the fogging, flying mosquitoes within the treated area are killed. Although the local mosquito population is reduced for a few days, fogging does not prevent mosquitoes from re-entering the area.

If the city has been fogged for mosquitoes, are all mosquitoes in my area eliminated?

Fogging will kill only part of the mosquitoes in your area for a few days. Consequently, individuals should always use personal protection when mosquitoes are present:

- When possible, avoid places and times when mosquitoes bite.
- Wear light-colored protective clothing. Tightly woven materials that cover arms and legs provide some protection from mosquito bites. Keep trouser legs tucked into boots or socks, and collars buttoned.

- Make sure door and window screens fit tightly and all holes are repaired.
- Use mosquito netting when sleeping outdoors or in an unscreened structure, and to protect small babies any time they are outside.
- If participating in outdoor activities when mosquitoes are biting, wear protective clothing (shoes, socks, shirt and long pants).

For additional protection from mosquitoes, use an insect repellent. The more DEET a product contains, the longer the repellent can protect against mosquito bites. However, concentrations higher than 50 percent do not increase the length of protection. For most situations, 10 percent to 25 percent DEET is adequate.

Apply repellents to clothes whenever possible; apply sparingly to exposed skin if label permits. Consult a physician before using repellents on young children.

Are the insecticides used for fogging safe?

Generally, there is no need to relocate during mosquito control fogging. The insecticides have been evaluated for this use and have been found to pose minimal risk to human health and the environment when used according to label directions. Nevertheless, because insecticides are inherently toxic, no pesticide is absolutely risk free. The likelihood of experiencing adverse health effects as a result of exposure to any pesticide depends primarily on the amount of pesticide that a person contacts and the amount of time the person is in contact with that pesticide. Although mosquito control insecticides pose low risks, some people may prefer to minimize or to avoid exposure to these chemicals. Here are some common sense steps to help reduce possible exposure to insecticides:

- Listen and watch for announcements in the local media about fogging for mosquitoes and remain indoors during the application in your neighborhood.
- If possible, remain inside whenever fogging takes place.
- People who suffer from chemical sensitivities or feel fogging could aggravate a preexisting health condition should consult their doctor or local health department and take special measures to avoid exposure.
- Close windows and doors and turn off your air conditioning (or set it to circulate indoor air) when fogging is taking place in the immediate area.
- Do not let children play near or behind truck-mounted applicators when they are in use. To ensure the fogging trucks have left the area, keep

children inside during fogging and for about one hour after fogging.

- Bring pets inside and cover ornamental fish ponds to avoid direct exposure.
- Consult your doctor if you think you are experiencing health effects from the fogging.

More information about spraying for adult mosquitoes may be found on the USEPA's Web site: <<http://www.epa.gov/pesticides/citizens/pmcfs.pdf>>.

Do I need to wash home-grown fruits and vegetables after the mosquito fogging?

The amount of insecticide used to fog for adult mosquitoes is much smaller than that used to spray fruit and vegetable insect pests. However, it is always a good idea to wash fruits and vegetables before eating them to remove soil and other contaminants.

What should I do if I have medical questions about insecticides?

- If you suspect that you are reacting to an insecticide, call your physician or local poison control center.
- Additional information about the active ingredients in insecticides may be obtained from the National Pesticide Information Center (NPIC) at 1-800-858-7378 from 8:30 a.m. to 6:30 p.m. (Central time) seven days a week, excluding holidays; or visit NPIC's Web site at <<http://npic.orst.edu/>>.

Will the fogging kill birds or other large animals?

During the pesticide registration process, USEPA considers the effect of insecticides on wildlife. If the insecticide is applied according to label directions, wildlife should not be killed or injured, with the exception of insects similar in size to mosquitoes. If you have any concerns about this issue, after they have sprayed in your area, contact SDDA.

Are individuals who do mosquito control required to be licensed?

Yes, all individuals who use insecticides to control mosquitoes are required to be licensed by SDDA. There are two exceptions: homeowners who fog for mosquitoes on their own residential property and individuals who use certain insecticides to treat tires for mosquitoes at tire shops, tire recycling sites and similar businesses. For information about mosquito control licensing, call SDDA

at 1-605-367-5439.

Can I fog my backyard for mosquitoes?

If you choose to fog your yard for mosquitoes, be sure to use only insecticides labeled for control of adult mosquitoes. Be sure to follow the label directions exactly. However, spraying your backyard with an insecticidal fog or mist is effective only for a short time. If the insecticide label permits, spraying dense vegetation like that found along the edge of a woods where mosquitoes rest will last somewhat longer. Mosquitoes will return when the effect of the spray has ended.

Can I treat a depression that floods in my backyard for mosquitoes?

If the depression floods for 10 or more days, it can produce mosquitoes. However, use ONLY insecticides that are labeled for treating water for mosquitoes. Small impoundments of water can be treated for mosquito larvae with "BTI," a bacterial insecticide. One product that is available at many hardware stores for this purpose is doughnut-shaped BTI briquets (Mosquito Dunks[®]). Be sure to follow the insecticide label directions exactly.

Where can I get more information on West Nile virus?

The South Dakota Department of Health's Web site www.state.sd.us/doh/westnile, and the

Centers for Disease Control and Prevention's West Nile virus Web site: www.cdc.gov/ncidod/dvbid/westnile/index.htm

Sioux Falls Mosquito Control Website: <http://www.siouxfalls.org/health/environment.asp>

This Question & Answer series based on Illinois Department of Public Health information.