

Mosquito Control: Adulticiding

Adulticiding is the process of applying a fog of insecticide to reduce the number of adult mosquitoes. The City of Bismarck uses an adulticide by the name of Perm-X UL 4-4. Perm-X UL 4-4 contains permethrin which is a synthetic pyrethrum that gives this adulticide its insecticidal properties and kills the adult mosquitoes.

The adulticide is applied using a ULV (Ultra Low Volume) fogger mounted onto a pickup. The foggers break the Perm-X UL 4-4 down into very tiny droplets which remain suspended in the air for a short period of time, but are then broken down and leave no residual material in the environment. Adulticide application sites include golf courses, public recreational areas, and locations hosting large community events.

Mosquito adulticiding is conducted in the early morning hours as this is the time of highest mosquito activity. This type of treatment is only effective if there are adult mosquitoes flying at the time of fogging and if weather conditions are favorable for keeping the fog close to the ground. It does not provide residual protection against future mosquitoes. For this reason, adulticiding is done in conjunction with larviciding as treatment processes for mosquito control. In addition, the public can help in mosquito reduction by reducing standing water sources on their property, and maintaining their property free of tall vegetation.

Ultra Low Volume fogger mounted on pickup.



Fog remaining after adulticiding.

