



Ground Mosquito Management Services

Integrated Mosquito Management (IMM) programs rely on targeted field operations to reduce mosquito populations and minimize disease risk. Ground management services include performing vital “ground-truthing” to verify real-time site conditions, as well as highly targeted larval and adult applications, which are guided by surveillance data and established action thresholds.

Explore our larval and adult application strategies and the equipment capable of accessing various terrains.



Larval Applications

Larval applications focus on treating mosquito breeding sites before mosquitoes emerge as flying adults. Targeting mosquito larvae helps interrupt the mosquito life cycle and reduce future adult populations.



Adult Applications

Adult applications help manage active mosquito populations in areas where nuisance levels have increased or when disease risks become elevated. These treatments provide targeted control in communities, parks, and public spaces where mosquitoes impact quality of life and outdoor activity.

Ground-based adult control supports timely response efforts when surveillance data indicate rising mosquito activity or changing population dynamics.

What Is Ultra-Low Volume (ULV) Spraying?

Experts apply adulticides using Ultra-Low Volume (ULV) spray equipment that produces extremely fine droplets—precisely sized to target mosquitoes—that remain suspended in the air for a short period of time. Typically, less than one ounce of adulticide can cover an area the size of a football field.

Application Methods



ULV Truck Application

Truck-mounted ULV applications support community-wide adult mosquito management along roadways, neighborhoods, and public areas. This application method allows teams to efficiently manage elevated mosquito activity across larger service areas when surveillance data indicate a need for response.



ATV Application

ATV-mounted applications provide access to off-road environments such as trails, rights-of-way, and open land where standard vehicles cannot operate. This approach supports efficient coverage in areas that require ground-based access beyond paved roadways.



Backpack Application

- Backpack larval applications allow technicians to treat defined breeding sites, such as catch basins, drainage features, containers, and other habitats containing standing water. This approach supports targeted placement in areas not accessible by vehicles and helps reduce larval mosquito populations at the source.
- Backpack residual adult applications target focused treatment in vegetated areas, residential spaces, trails, and public use areas. This control method targets where adult mosquitoes rest during the daytime and where truck-mounted ULV application is not practical.

Understanding Action Thresholds

These are defined levels of mosquito activity or disease risk that signal when management efforts should be implemented. Surveillance data provides the foundation for establishing baseline conditions and identifying when and where conditions have changed.

By using surveillance to guide decision-making, ground applications can be deployed when and where needed, helping support targeted, timely response and ongoing program evaluation.



Ground mosquito management services are a key component of an effective mosquito management program, supporting proactive population reduction and responsive control efforts when mosquito activity increases.

We're here to support your efforts, whether it's managing ground application services or running a comprehensive IMM program.