

## Dilution Charts and Supplemental Application Recommendations

### Dilution Rates:

Mosquito Control: 0.33-0.66 fl oz per gallon (\*\*or in sufficient water cover 1000 sq ft).

Tick and Fly Control: 0.33-1.0 fl oz per gallon (\*\*or in sufficient water cover 1000 sq ft).

An IGR may be added to the solution to further suppress mosquito, fly, and tick populations.

### Dilution Table for Coarse Spray and Backpack Sprayers

Fluid ounces of concentrate per gallon of solution	Gallons of water	Percent active in solutions	Coverage
0.33	1.0	0.18%	1000 sq ft
0.66	1.0	0.35%	1000 sq ft
1.0	1.0	0.53%	1000 sq ft

A heavy wet spray delivered from a backpack sprayer, power spray rig or other coarse spray pattern is the preferred application method for **ticks**.

### Dilution Table for Backpack Misters, Cold/ULV Foggers and Other Portable Misting Devices

#### 1 Gallon Tank

Fluid ounces of concentrate per gallon of solution	Gallons of water	Percent active in solutions	Coverage not to exceed
0.83	1.0	0.44%	2500 sq ft
1.65	1.0	0.88%	2500 sq ft
2.5	1.0	1.34%	2500 sq ft

### Dilution Table for Backpack Misters, Cold/ULV Foggers and Other Portable Misting Devices

#### 3 Gallon Tank

Fluid ounces of concentrate per 3 gallon tank	Gallons of water	Percent active in solutions	Coverage not to exceed
2.49	3.0	0.44%	7500 sq ft
4.95	3.0	0.88%	7500 sq ft
7.5	3.0	1.34%	7500 sq ft

A heavy wet mist delivered from a backpack mister, cold/ULV fogger or other portable misting device capable of producing droplet sizes in the 50-100+ micron range is the preferred application method for **mosquito** and **fly** control.

Adjust mister settings so that the flow rate penetrates all foliage to the point of run-off.

Coverage should be no greater than 2500 sq ft per gallon of finished solution.

Ensure that the solution is applied to the ground as well as vegetation, making sure to treat the underside of leaves and other foliage

## Instructions for Mosquito Misting with Portable Misting Devices:

Calibrate all misting equipment to determine the flow rate and square footage covered using water. Use sufficient water to thoroughly wet all vegetation.

Misting volumes will change depending on the density or scarcity of vegetation and type of landscape. Adjust protocols accordingly. When little vegetation is present, using a coarse spray with higher application volume will provide the best results.

### **\*\*Examples:**

If your calibrated backpack mister applies 1 gallon of solution per 2000 sq ft:

For the Low/Maintenance rate add 0.33 oz of concentrate for every 1000 sq ft of coverage:

$$0.33 \times 2 (000 \text{ sq ft}) = 0.66 \text{ oz/gallon}$$

For the High/Initial rate add 0.66 oz of concentrate for every 1000 sq ft of coverage:

$$0.66 \times 2 (000 \text{ sq ft}) = 1.32 \text{ oz/gallon}$$

If your calibrated backpack mister applies 1 gallon of solution per 2500 sq ft:

For the Low/Maintenance rate add 0.33 oz of concentrate for every 1000 sq ft of coverage:

$$0.33 \times 2.5 (000 \text{ sq ft}) = 0.83 \text{ oz/gallon}$$

For the High/Initial rate add 0.66 oz of concentrate for every 1000 sq ft of coverage:

$$0.66 \times 2.5 (000 \text{ sq ft}) = 1.65 \text{ oz/gallon}$$