



### Overview

- Belong to the insect order Diptera (flies)
- Over 170 species in the U.S. with 3 important genera: *Culex*, *Anopheles*, and *Aedes*
- Undergo complete metamorphosis: egg, larva, pupa, adult
- Require water for eggs, larvae and pupal development
- Only the females bite and take blood meals from their hosts, but both will feed on sugar from nectar
- Can transmit serious diseases such as:
  - Malaria
  - Yellow fever
  - Filariasis
  - Dengue fever
  - Encephalitis
  - West Nile virus
  - Chikungunya
  - Zika virus
- Adults typically live for up to 14 days, but females can over-winter as adults

### Management

Prior to implementing any management strategies, a thorough inspection of the property is needed to identify resting sites, breeding sites, species present and any hazards in the area. Inspections will also help

to identify the extent of the problem and areas in need of cultural management and mechanical alteration. When used as a part of a comprehensive plan of attack, Scion® Insecticide with UVX™ Technology is the ideal choice for mosquito management around homes, schools and commercial buildings. FMC recommends working hand in hand with your customers to develop a complete approach to mosquito management.

Scion® Insecticide has shown to be a highly effective barrier treatment for many species of mosquitos. Scion® applied per label directions at a rate of 0.65 fl. oz. per gallon of water will provide up to 75 days of residual control. Examples of possible treatment areas around a home are: under soffits, in/under dense vegetation, under decks and other shaded, cool locations around the structure where mosquitos prefer to rest.

***Do not treat water bodies with Scion® Insecticide.***

SPECIES		COMMON NAME	RESTING SITES	BITE TIME	DISEASE	EGGS	EGG HABITAT
CULEX	<i>pipiens</i>	Northern house mosquito	HIGHER 15-25FT	Evening	West Nile	Rafts	Temporary water
	<i>quinquefasciatus</i>	Southern house mosquito					
AEDES	<i>aegypti</i>	Yellow fever mosquito	Lower vegetation	Daytime	Dengue fever, Yellow fever, Zika virus	Singly	Man-made habitat
	<i>albopictus</i>	Asian tiger mosquito					
ANOPHOLESE	<i>Quadrifasciatus</i>	Malaria mosquito	Shaded areas	Dusk & dawn	Malaria	Singly w/floats	Clean, fresh water

SCOUTING	Find, identify, and eliminate sources of standing water, the perfect breeding area for mosquitos.			
	Anything that holds water	Old tires	Clogged gutters	Empty bottles/cans
	Puddles	Tree holes	Debris in the yard	Faulty grade/ standing water
CONTROL OF IMMATURE MOSQUITOS	Use EPA-approved mosquito larvicides such as <i>Bacillus thuringiensis israelensis</i> or insect growth regulators to treat mosquito larvae in sources of standing water.			
	Ponds	Bird baths	Water features	Flower pots
CONTROL OF ADULT MOSQUITOS	Use Scion® Insecticide to treat the perimeter of homes, and outdoor areas where people gather.			
	Under decks	In/under foliage	Under soffits	Home perimeter
BARRIER TREATMENT	During peak adult activity times, create a barrier with treatments of Scion® Insecticide. Apply using equipment such as a tank sprayer, backpack sprayer, ground sprayer, or blower/mister (with a droplet diameter greater than 50 um).			
	Campgrounds	Around homes	Recreation areas	Around commercial buildings
	Parks	Outdoor malls	Perimeter of yards	Animal confinement