Mosquito 101: Mosquito Control in Our Community

Department of Solid Waste Management
Mosquito Control and Habitat Management Division
Mosquito “Season”

- Mosquito season = year-round
- Changing weather patterns can increase mosquito activity
- The 2015/16 rainy winter months created ideal conditions for early mosquito activity
Mosquitoes & Mosquito-Borne Illnesses

- A few species of mosquitoes create sufficient annoyance that require control measures. In addition to their annoyance, mosquitoes can also potentially transmit diseases such as:

  - West Nile Virus
  - Dengue Fever
  - Encephalitis
  - Malaria
  - Dog heartworm
  - Chikungunya
  - Zika
All About Mosquitoes

- 48 species in Miami-Dade County
- Three main species that we typically see and are concerned with:

  - *Aedes aegypti* (Yellow Fever / Zika Mosquito)
  - *Aedes albopictus* (Asian Tiger Mosquito)
  - *Aedes taeniorhynchus* (Salt Marsh Mosquito)

Credit: U.S. Department of Agriculture  
Credit: Animal Diversity Web  
Credit: Sean McCann  
#FightTheBite
Mosquito Life Cycle
Mosquito Control Overview

- Miami-Dade Mosquito Control and Habitat Management Division
  - Providing mosquito control services since 1935
  - Proactive surveillance and monitoring
  - Targeted and area-wide treatment activities
  - Year-round operations
Inside Look at Mosquito Control
Mosquito Control: What We Do

- Targeted inspection and larvicide/adulticide application in response to service requests
- Door-to-door approach
  - Handheld and backpack sprayers
  - Larvicide granules
  - Draining containers w/ standing water
- Leave-behind information
  - Door hangers
  - Brochures
  - Outreach Activities
Mosquito Control

- Truck / Aerial Spraying
  - Used when surveillance data indicates mosquito counts exceed existing standards
  - Used in 2016 for Aedes aegypti mosquito – Zika vector
Drain and Cover

- Drain and Cover
  - Simple, easy-to-remember slogan
- Informational campaign
  - Advertising
  - Community events
  - Social media
  - Signage
Drain and Cover

- **Drain**
  - Drain ALL standing water found outdoors
  - Discard containers that can collect water
  - Empty/clean birdbaths, fountains and pet water dishes regularly
  - Maintain your swimming pool’s chemistry
Drain and Cover

**Cover**

- Wear long-sleeved shirts and pants while outdoors, especially at dawn and dusk
- Apply mosquito repellent
  - DEET
  - Picaridin
  - Oil of lemon eucalyptus
  - IR3535
- Cover windows and doors with screens
Bromeliads

- Ornamental plants found throughout Miami-Dade County
- Leaves collect water
- Mosquitoes can breed in them
- Must be treated to prevent mosquito breeding
  - Use larvicide granules every two weeks
  - Spray leaves with cooking spray
Mosquito Prevention Tips for Businesses

- Discuss mosquito control needs/options with a pest control management company
- Routinely inspect outdoor areas for any containers or areas that can collect water -- alleyways, delivery areas and outdoor storage areas
- Always drain water from containers that collect water
- Inspect outdoor areas for potential breeding sites. Treat any fountains, large planters, bromeliad plants with Bti granules to prevent mosquito breeding
- Where practical, provide customers with mosquito repellent wipes or make spray repellent available – particularly for outdoor areas
Questions?
Solid Waste Management Department
Mosquito Control and Habitat Management Division

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#FightTheBite
Florida Department of Health

Phone: 305.324.2400
Zika Virus Information Hotline: 855.622.6735
www.miamidade.floridahealth.gov

Centers for Disease Control

800.CDC.INFO
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