



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:



Credit: U.S. Department of Agriculture

Aedes aegypti
(Yellow Fever / Zika
Mosquito)



Credit: Animal Diversity Web

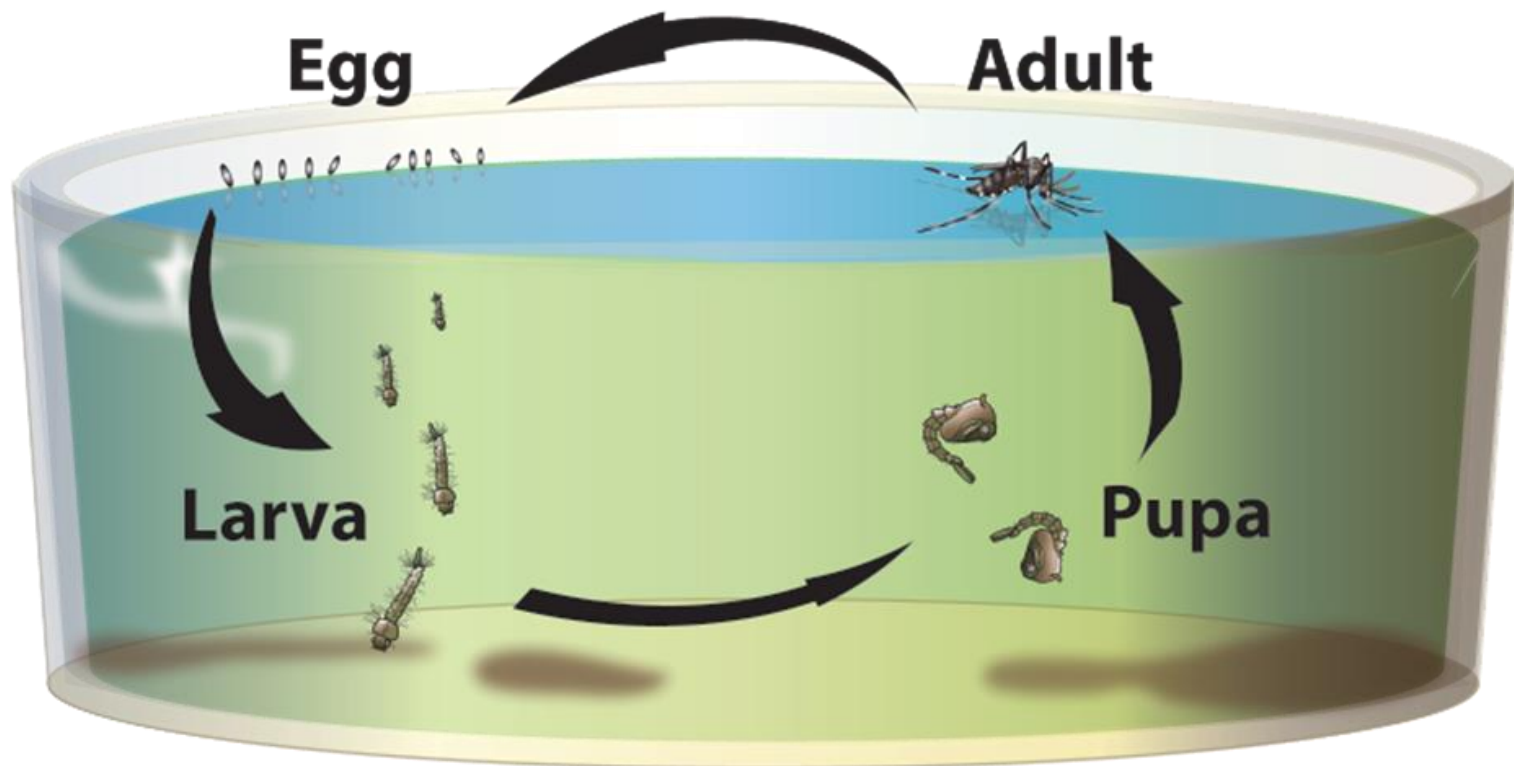
Aedes albopictus
(Asian Tiger Mosquito)



Credit: Sean McCann

Aedes taeniorhynchus
(Salt Marsh Mosquito)

Mosquito Life Cycle

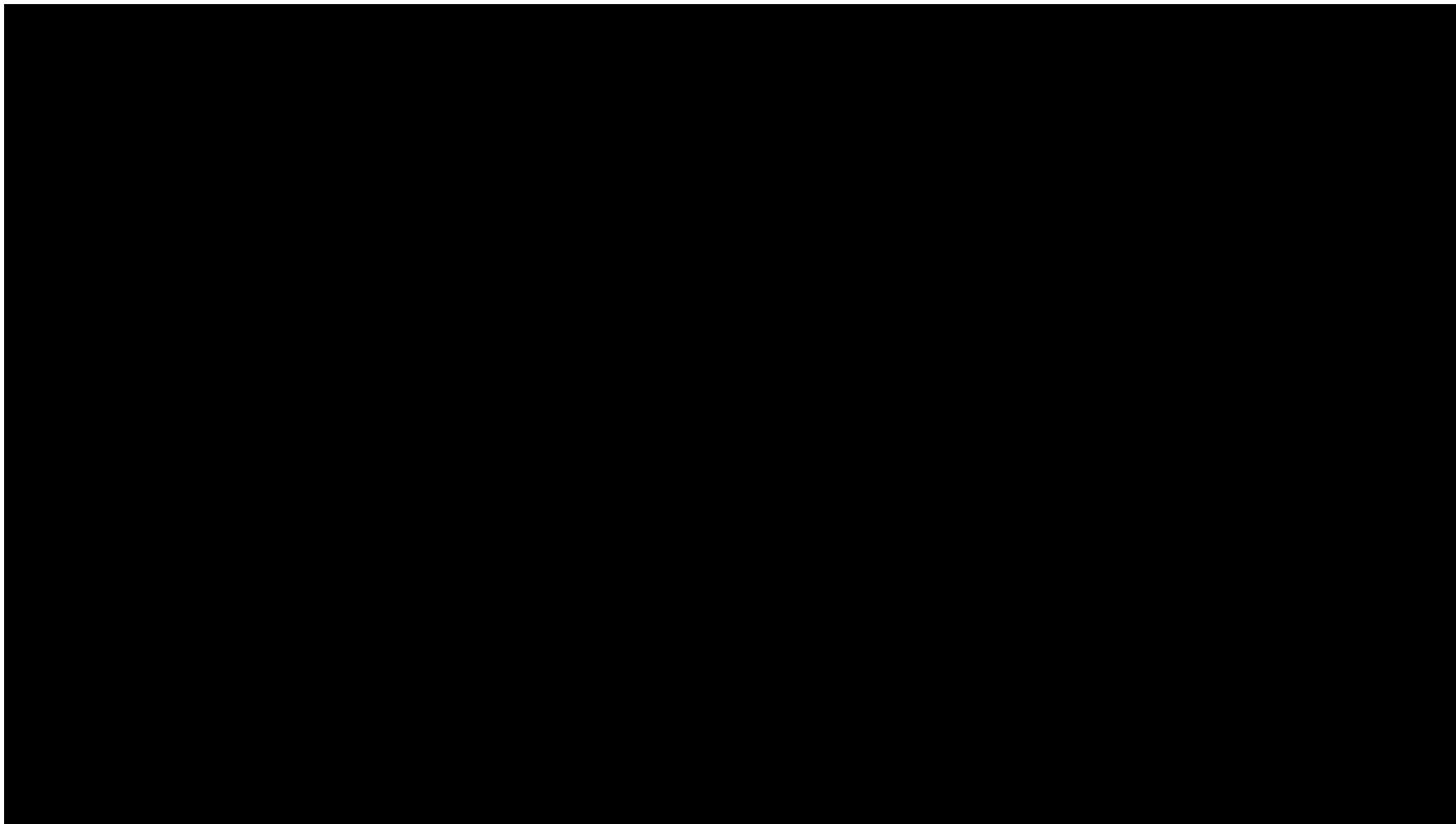


Mosquito Control Overview

- ▶ 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



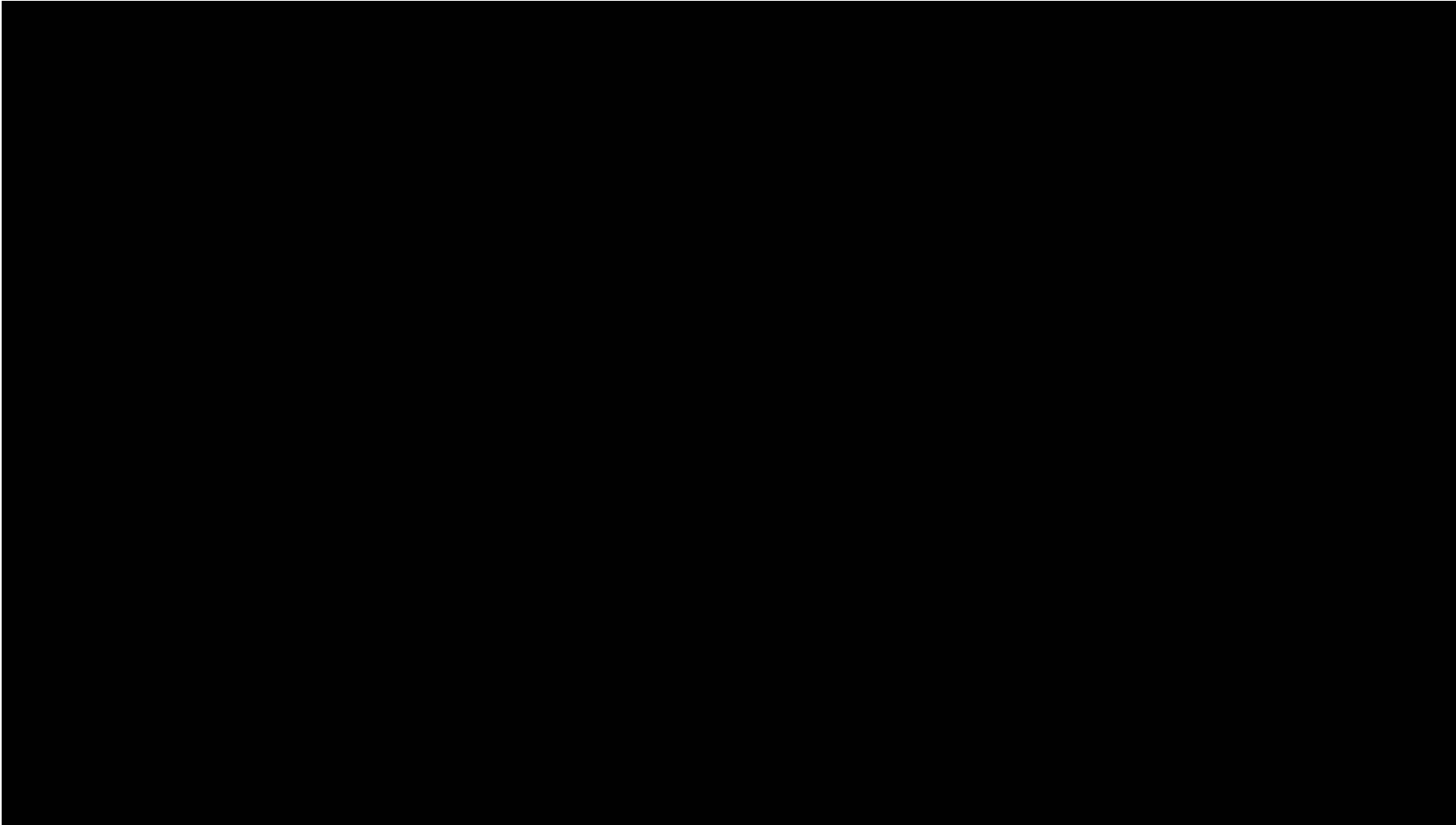
- ▶ Targeted inspection and larvicide/adulticide application in response to service requests
- ▶ Door-to-door approach
 - ▶ Handheld and backpack sprayers
 - ▶ Larvicide granules
 - ▶ Draining containers w/ standing water
- ▶ Leave-behind information
 - ▶ Door hangers
 - ▶ Brochures
 - ▶ Outreach Activities

Mosquito Control

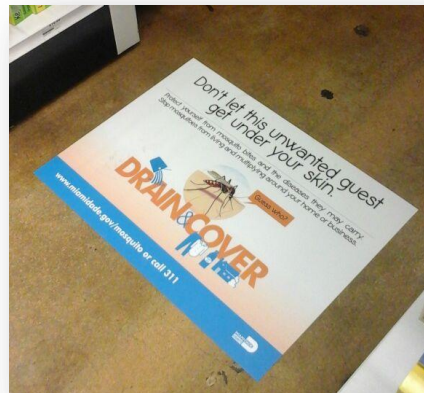
- ▶ Truck / Aerial Spraying
 - ▶ Used when surveillance data indicates mosquito counts exceed existing standards
 - ▶ Used in 2016 for *Aedes aegypti* mosquito – Zika vector



Drain and Cover



Drain and Cover



- ▶ 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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Call 311

www.miamidade.gov/mosquito

Twitter: @305Mosquito

Facebook.com/305Mosquito

YouTube.com/MiamiDadeTV

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

800.232.4636

www.cdc.gov

