



Orange County, Florida Mosquito Control

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Presentation Overview

- Mosquito Control Overview
- Zika Update & Response Plans
- Challenges
- Summary



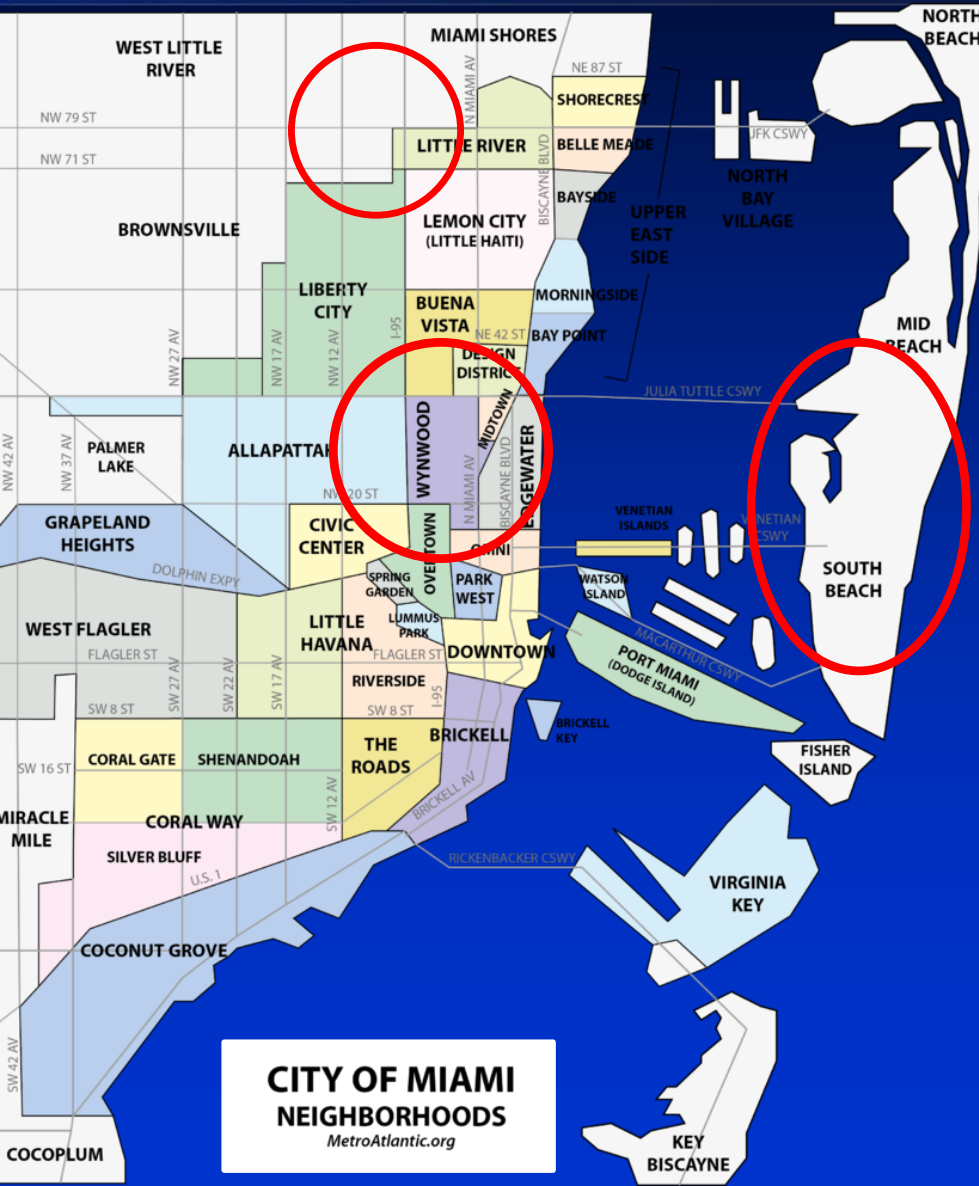
Mosquito Control Overview

- **29 Full Time Personnel**
 - Seasonal employees added as needed
- **26 vehicles on the road performing various functions**
 - Scheduled and unscheduled site visits
 - Setting and collecting traps
 - Removing artificial habitats
 - Applying control materials





Zika Update & Response



2016 Local Transmission

- Miami-Dade County
- First travel warning from within continental USA
- Total of 272 cases
- Significant impact on local economy
- Aggressive Mosquito Control operation
- Outbreak controlled quickly



Zika Update & Response

Florida (Statewide)	2016	2017
<i>Travel-Related Infections of Zika</i>	1,122	155
<i>Locally Acquired Infections of Zika</i>	296	1
<i>Undetermined</i>	49	32
<i>Pregnant with Lab-Evidence of Zika</i>	299	103
<i>Babies Born with Congenital Zika Syndrome</i>	4	3



Zika Update & Response

OC Mosquito Control Zika Activity	2016	2017
<i>Suspect cases of Zika</i>	797	623*
<i>Number of Properties Visited</i>	79,700	34,000
<i>Confirmed Zika Cases (Travel related)</i>	167	14
<i>Confirmed Locally Transmitted Zika</i>	0	0
<i>Mosquito Tests Positive for Zika</i>	0	0



Zika Update & Response

What happens when Zika is SUSPECTED

- Patient suspected to have Zika is seen by a community physician
- Physician orders Zika blood or urine test
- FL-DOH mandatory reporting even before results are back
- FL-DOH notifies OC Mosquito Control of a suspected case
- Location of case provided (no specific address)



Zika Update & Response

What We Do For every SUSPECTED case of Zika

- Crews perform surveillance within 225 feet of location provided by DOH
- Removal of breeding habitats & set traps
- Apply control materials in the area
- Leave door hangers
- Return in 24 hours
- If traps have *Aedes* mosquitos, repeat the above and test mosquitoes for Zika





Zika Update & Response

Access to private property is a challenge during surveillance and abatement efforts





Zika Update & Response

What We're Doing Now...

■ Operations

- Assessing staffing needs for upcoming season
- Evaluating new control modalities



■ Proactive Communications

- Mosquito Control has been featured in dozens of media reports
- OC website has links to education and PSAs regarding Zika
- Consistent social media outreach



Zika Update & Response

What We're Doing Now...



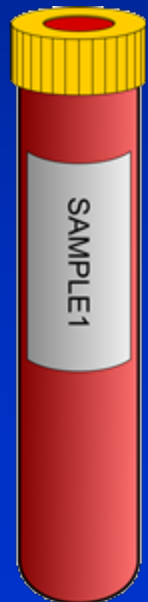
- **Engagement with Community**
 - Education to CFHLA, Private Pest Control, EMS, GOAA, OCPS
- **Coordinating with State and Local Public health**
- **Engagement with Staff**
 - Collaboration with HR, Directors and Managers



Zika Update & Response

If Locally Transmitted Case Occurs...

- **Orange County Mosquito Control**
 - Increase Surveillance & Abatement
 - Utilize Citizen Emergency Response Teams, HOA volunteers, and Medical Reserve Corps for manpower
 - May require additional temporary staffing
- **Department of Health**
 - Test for Zika among contacts of positive cases
 - Facilitate access to private property
 - Maintain high degree of coordination with County





Zika Update & Response

If Locally Transmitted Case Occurs...

- **Orange County Communications**
 - Organize press releases, PSAs, and media events to inform and engage the community
 - Coordinate messaging with partners in tourism, schools, etc.
- **Orange County Emergency Management**
 - Coordinate with MC to assess resource gaps
 - Liaison with State EOC, FL DOH and CDC
 - Assist in organizing community outreach





Challenges

Past, Ongoing and Future Challenges...

- Positive cases outside the norm
 - Two positive travel associated cases tested PCR positive for WEEKS
- Property access issues
- Incoming residents from Puerto Rico
 - Significant local transmission in PR
 - Temporary and new permanent residents



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