FDACS Zika Update

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Zika Virus Discovery

• FL DoH discovers an infectious disease transmitted by mosquitoes to humans (Zika)
  • State Health Officer has authority to declare that a threat to public health exists

• Florida Governor, Rick Scott signed Executive Order 16-29 - February 3rd
  • Directed State Surgeon General to declare public health emergency
    • 4 counties with travel-associated cases of ZikV (now up to 19)
      • All new counties with confirmed cases to be listed
State of Emergency Declaration

• State Health Officer must immediately notify Commissioner of Agriculture of public health threat
  • Authorized to issue mosquito declaration in those counties in need of additional mosquito control measures

Section 388.45(1), Florida Statutes
Mosquito Declaration

• Commissioner of Agriculture
  • Shall order ameliorative mosquito control measures as are necessary to prevent spread of disease
  • Authority to collect, detect, suppress, and control mosquitoes that pose a threat to public health and to do all things necessary
    • Wherever they occur on public or private land

Sections 388.361(7) & 388.45(1), F.S.
Confirmed Zika Cases in Florida

- 1-3 travel associated cases
- 4-6 travel associated cases
- 7-10 travel associated cases
- Broward county, 15 travel associated cases
  Miami-Dade county, 44 travel associated cases

Sexually transmitted case

As of 5/11/2016

Number of cases involving pregnant women: 7
(Counties of pregnant women will not be shared)

Total number of cases in Florida: 112

Created by Shalom Siebert
FDACS Role in Response

• Department of Health - lead agency

• FDACS role
  • Provide technical assistance to MCPs & DoH

• Support local MCPs
  • Actively engage and monitor response to cases
  • Supplement as necessary

• Develop control strategy for state level response
  • Investigate use of vendors for supplemental control
FDACS Role in Response

- Host recurring call with affected counties
  - Open and maintain active lines of communication
  - Identify resource needs and limitations
  - Facilitate sharing of mosquito control personnel or equipment between MCPs as needed
  - Expanded to include all MCPs (April 25th!)
FDACS Role in Response

• Provide guidance and training on best management strategies
  • MCPs – Zika Workshops
    • 7 regional meetings
  • PCOs – Zika Vector Control for the Urban Pest Management Industry
    • Co-hosted with UF/FMEL - April 13th, Orlando
    • Bridge gap between public health mosquito control and pest control operators offering mosquito control services
    • Potential use as additional manpower in supplemental mosquito control response
Adult Surveillance

- Interest in gathering data on current geographic distribution of *Aedes aegypti* and *Aedes albopictus*
- FDACS purchased 300 BG Sentinel traps with associated batteries and battery chargers
  - Surveyed MCPs for willingness to incorporate traps into normal routine
  - Distributing based predominantly on need to ensure all of Florida’s MCPs have necessary equipment for surveying these species
    - Discussion of additional needs
  - Encourage MCPs to share collection data!
    - Will provide standardized spreadsheet
    - Trapping protocol for BG Sentinel use - Dr. Connelly, FMEL
Arboviral Surveillance

- FDACS Bronson Animal Disease Diagnostic Laboratory (BADDL) to perform diagnostic testing on mosquitoes - Kissimmee
  - Multiplex RT-PCR assay for rapid detection of Zika, Dengue, and Chikungunya viruses
    - *Aedes aegypti/albopictus* specimens collected to be sent to BADDL
      - Follow established BADDL protocol
      - Vials of 1-50 mosquitoes from each location
      - FDACS to provide shipping supplies, etc.
Questions?

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