



## **CDC Zika IMS Sustaining the Zika Response in 2017**

### **Vector Issues Team**

### **Tuesday, March 28, 2017**

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Division of Vector-Borne Diseases

# Opening Remarks

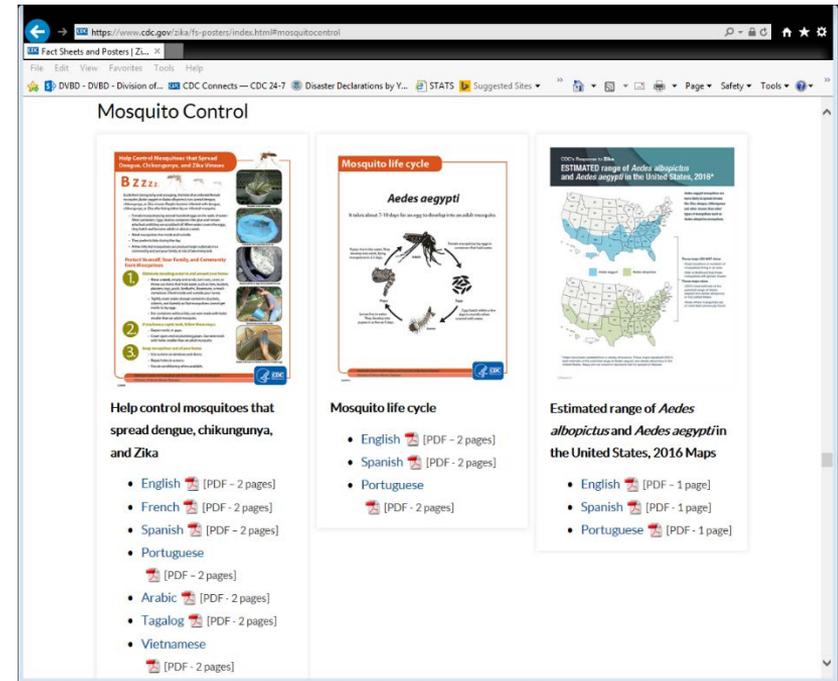
# OVERVIEW

- Opening Remarks
- Updates to Zika Guidance
- Q&As
- Closing Remarks

# CONUS Vector Control Activities

# Preparation – Plan of Action

- Key partners identified?
- Lines of communication worked out?
- Public-facing material developed?
- Workforce trained?
- Plan exercised?
- Prior knowledge of species distribution, abundance, and resistance status?
- Have you identified resources?



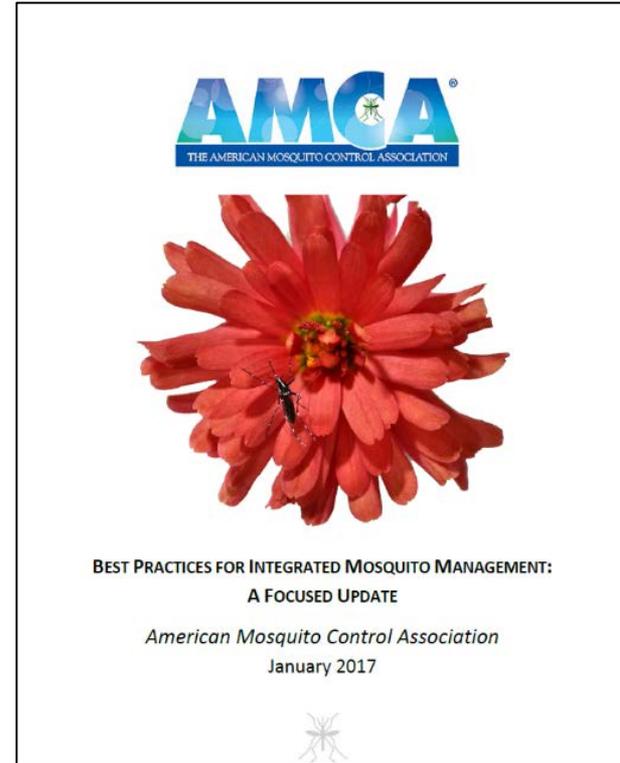
The screenshot displays the CDC website page titled "Mosquito Control". The page features three main content areas:

- Help Control Mosquitoes that Spread Dengue, Chikungunya, and Zika:** A fact sheet with a "B Z z z z" header and three numbered steps (1, 2, 3) for prevention. Below the fact sheet is a list of language options for PDF downloads: English, French, Spanish, Portuguese, Arabic, Tagalog, and Vietnamese.
- Mosquito life cycle:** A diagram showing the life cycle of *Aedes aegypti* with a central illustration of the mosquito. Below the diagram is a list of language options for PDF downloads: English, Spanish, and Portuguese.
- Estimated range of *Aedes albopictus* and *Aedes aegypti* in the United States, 2016 Maps:** Two maps of the United States showing the distribution of the mosquito species. Below the maps is a list of language options for PDF downloads: English, Spanish, and Portuguese.

Source: [www.cdc.gov/zika/fs-posters/index.html](http://www.cdc.gov/zika/fs-posters/index.html)

# Preparation – AMCA Training

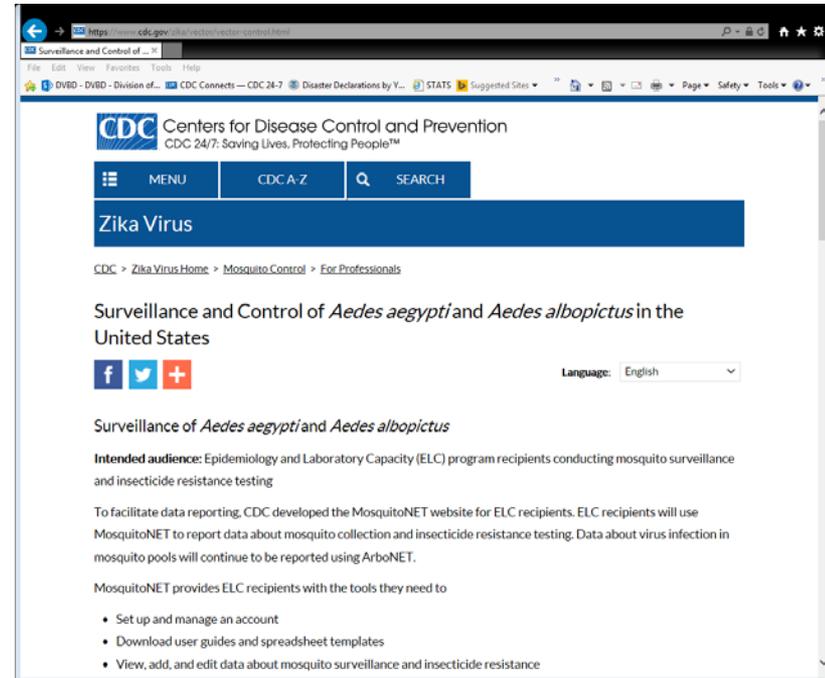
- New Best Management Practices
- Master Trainers
- 10 Regional “Train the trainers” events
- Web-based training and certification in development
- Visit [www.mosquito.org](http://www.mosquito.org) for more information



Source: [www.mosquito.org](http://www.mosquito.org)

# Suspected and Confirmed Cases

- Initiate vector control within 150m radius of case
- The same integrated approach is used for 1 case, a small cluster, and widespread cases
- Intensity of control and geographic scale will vary based on the situation and may change over time



Source: <https://www.cdc.gov/zika/vector/vector-control.html>

# Surveillance

- First wave of ELC money to support surveillance went out in early August 2016, supplemental funds in December 2016
- MosquitoNet beta tested in Nov/Dec 2016
- January 2017, started enrolling users
- Repeated survey of distribution of *Stegomyia* species in Dec

MOSQUITONET ONLINE V1.0.2

## MOSQUITONET LOGIN

[MosquitoNET FAQs](#)

note: If you go idle for a significant amount of time, you will be logged out and returned to this page.

**Official browser support:** Chrome 7+, Firefox 4+, IE 10+, Opera 12+, Safari 6+

Login

UserName

Password

Login

Don't have an account?  
[Apply for an account.](#)

Forgot your password?  
[Reset your password.](#)

Locked out?  
After three failed attempts, you will be locked out.  
[Reset your password to unlock your account.](#)

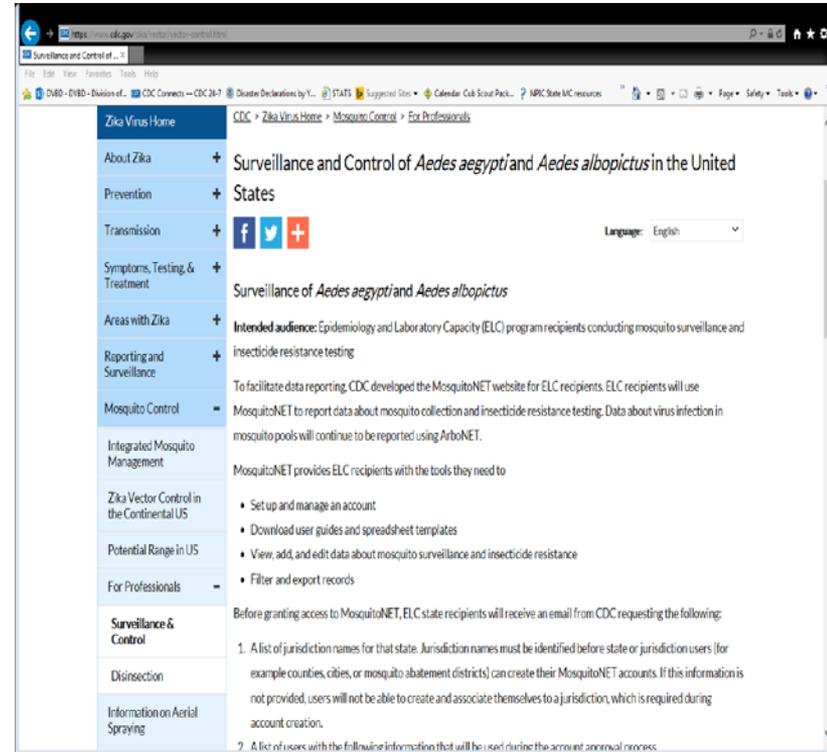
Form Approved  
OMB Control No. 0920-1146  
Exp. Date: Pending

Public reporting burden of this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB Control Number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN:

Source: <https://wwwn.cdc.gov/Arbonet/MosquitoNET/>

# Surveillance

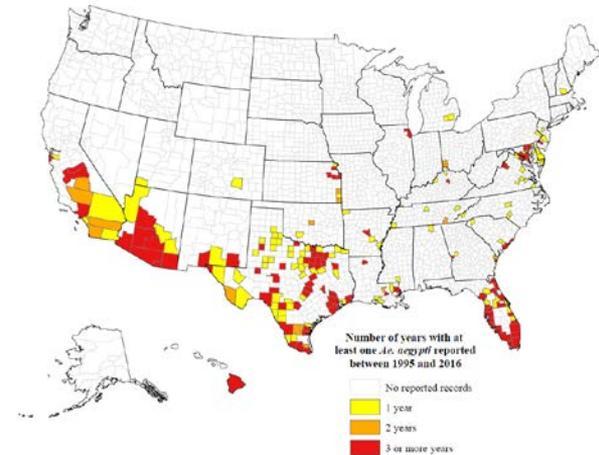
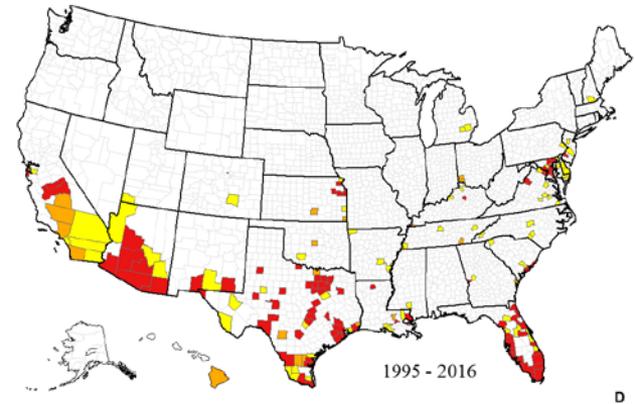
- ELC funds were distributed to develop or enhance mosquito vector surveillance and insecticide resistance testing
- Data compiled will be used to:
  - Develop more accurate knowledge of where and during what time of the year *Ae. aegypti* and *Ae. albopictus* occur in the United States and are most abundant
  - Define the extent of insecticide resistance of Zika virus mosquito vectors throughout the United States



Source: [www.cdc.gov/zika/vector/control.html](http://www.cdc.gov/zika/vector/control.html)

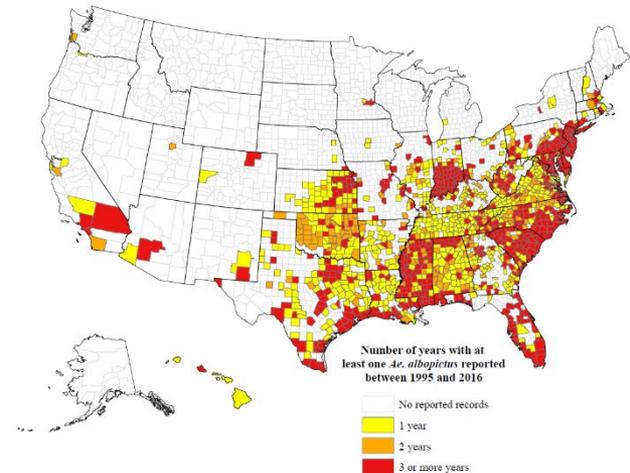
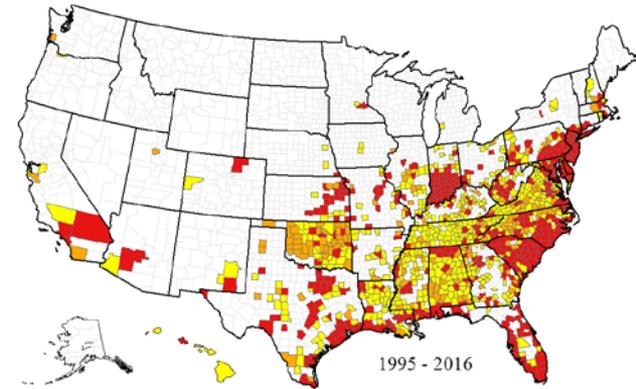
# *Aedes aegypti*

- 38 new county records since spring survey, primarily from Texas
- Illinois and Alabama added their first county records
- Represents a 21% increase in reported counties
- 40 counties added additional year records



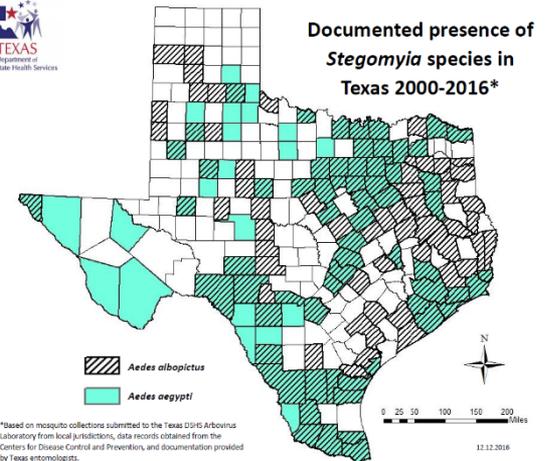
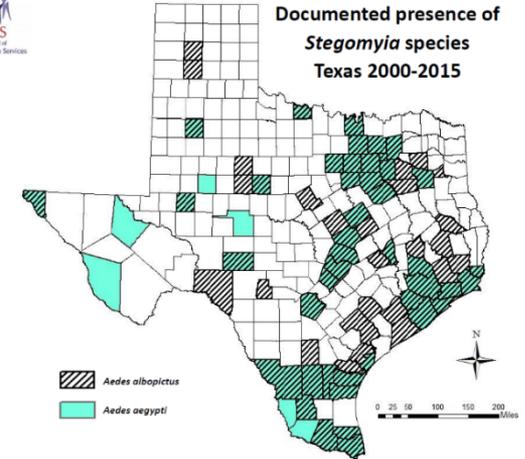
# *Aedes albopictus*

- 127 new counties since spring survey, primarily from Kansas, Texas, Mississippi, Arkansas
- Represents a 10% increase
- 183 counties have added additional year data.



# Mosquito Surveillance in Texas – a ELC Funding at Work

- Based on data from 2000-2016, 141 counties in Texas have documented the presence of one or both *Stegomyia* species (*Ae. aegypti* and *Ae. albopictus*):
  - 65 counties have documented the presence of both species
  - 55 counties have documented the presence of *Ae. albopictus* only
  - 21 counties have documented the presence of *Ae. aegypti* only
- *Stegomyia* surveillance project participants added species documentation to 56 counties in 2016.

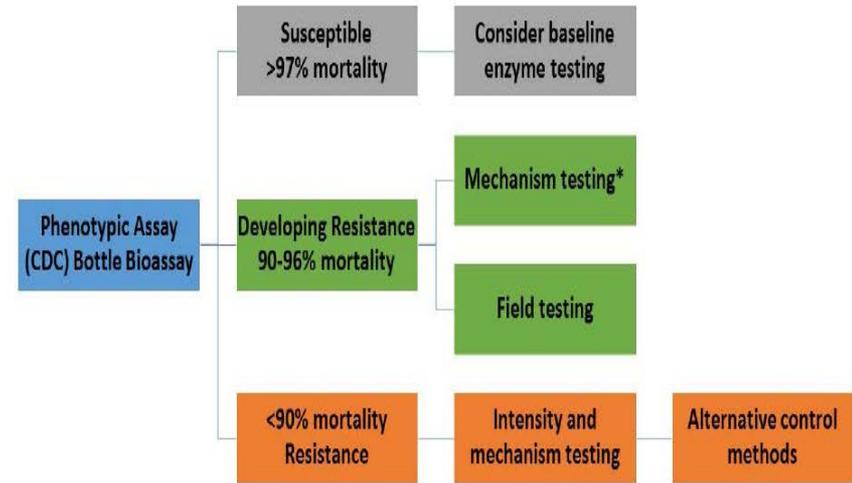


\*Based on mosquito collections submitted to the Texas DSHS Arbovirus Laboratory from local jurisdictions; data records obtained from the Centers for Disease Control and Prevention, and documentation provided by Texas entomologists.

12.12.2016

# Insecticide Resistance

- **Widespread but focal problem**
- **Not well documented across United States**
- **Starting with easiest, most basic test for mosquito control districts to adopt: CDC bottle bioassay**



\*Mechanism testing options: enzymes, molecular assays, bottle bioassay with inhibitors

# Vector Control Activities

- **Trap and equipment purchases**
- **Chemical purchases**
- **Supplemental contracts**
- **Entomologic expertise**



Photos courtesy of Ed Freytag, City of New Orleans Mosquito & Termite Control Board

# Questions/Discussion

# Closing Remarks

TELECONFERENCE OVERVIEW	DATE/TIME/LOCATION
<b>Laboratory Task Force</b> <b>Eddie Ades, Robert Lanciotti, Christy Ottendorfer</b>	Wed 3/15/2017 / 2pm–3pm EDT - Domestic Wed 3/15/2017 / 5 pm–6 pm EDT - Islands Bridge Line: 1(888)972-6716/ Passcode: 6721430
<b>Joint Information Center/Communications</b> <b>Cathy Young</b>	Wed 3/22/2017 / 2pm–3pm / Rm 5116  Bridge Line: 1(888)972-6716/ Passcode: 6721430
<b>Epidemiology Task Force</b> <b>Carolyn Gould, Michael Johansson</b>	Thurs 3/23/2017 / 2pm–3pm / Rm 5116 Bridge Line: 1(888)972-6716/ Passcode: 6721430
<b>Vector Issues Team</b> <b>Janet McAllister</b>	Tues 3/28/2017 / 2pm–3pm / Rm 5116  Bridge Line: 1(888)972-6716/ Passcode: 6721430
<b>Policy and Partnerships</b> <b>Melody Stevens</b>	Wed 3/29/2017 / 1:30pm–2:30pm / Rm 5116  Bridge Line: 1(888)972-6716/ Passcode: 6721430
<b>Pregnancy and Birth Defects Task Force (including surveillance)</b> <b>Dana Meaney-Delman</b>	Wed 3/29/2017 / 3pm–4pm / Rm 5116  Bridge Line: 1(888)972-6716/ Passcode: 6721430
<b>Blood Safety Task Force</b> <b>Sustainment Strategy Discussions</b> <b>Koo Chung, Matt Kuhnert, Craig Hooper</b>	Thurs 3/30/2017 / 2pm–3pm / Rm 5116  Bridge Line: 1(888)972-6716/ Passcode: 6721430
<b>Medical Investigations Team</b> <b>Sustainment Strategy Discussions</b> <b>Maleeka Glover</b>	Thurs 3/30/2017 / 3:30pm–4:30pm / Rm 5116  Bridge Line: 1(888)972-6716/ Passcode: 6721430

# Thank You!

For more information, contact CDC  
1-800-CDC-INFO (232-4636)  
TTY: 1-888-232-6348 [www.cdc.gov](http://www.cdc.gov)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

