

# **FLORIDA MOSQUITO CONTROL ASSOCIATION**

## **2012 LEGISLATIVE PRIORITIES**

### **Restore State Aid for Mosquito Control to FY 2010-11 Level**

The Florida Mosquito Control Association (FMCA) requests that the Legislature provide State Aid funding for mosquito control at the historic level of \$2.16 million. These funds are provided from the Waste Tire Trust Fund, administered by FDACS and are critical in maintaining an effective, coordinated statewide mosquito control effort. During the current fiscal year, this funding was reduced to \$1.29M at a time when mosquito-transmitted diseases (dengue, West Nile virus, St. Louis encephalitis) are increasingly prevalent in our state. Providing funding at \$2.16M can more effectively support small mosquito control programs, provide educational opportunities for mosquito control workers statewide, enhance the research program and better position mosquito control for Florida's future.

***THE FMCA REQUESTS THAT FOR FY 2012-13, THE LEGISLATURE FUND THE STATE AID MOSQUITO CONTROL PROGRAM AT \$2.16 MILLION.***

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### **HB 7021 (Crisafulli)/SB 1254 (Siplin) - Changes to F.S. Chapter 388**

The FMCA supports the revisions to mosquito control legislation in Chapter 388 as submitted in HB 721/SB 1254. These changes revise outdated language thus better clarifying mosquito control's role for Florida's future.

***THE FMCA SUPPORTS HB 7021/SB 1254 AS THEY RELATE TO MODIFICATIONS TO F.S. CHAPTER 388.***

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### **HB 107 (Caldwell)/SB 192 (Bennett) – Special Districts**

These bills give the public a voice in local government by requiring that before an independent special district can be involuntarily dissolved or merged, the residents of the affected areas must approve the merger or dissolution at referendum.

***FMCA SUPPORTS HB 107/SB 192.***

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### **Important Role of Independent Mosquito Control Districts**

All independent mosquito control districts in Florida have elected Commissioners which represent a form of government most close to the constituency. The FMCA supports maintaining the integrity of independent mosquito control districts as a sound means of implementing environmentally sound mosquito control practices which are essential to the health and well-being of Florida's residents and visitors.

***THE FMCA SUPPORTS MAINTAINING THE INTEGRITY OF INDEPENDENT MOSQUITO CONTROL DISTRICTS.***

***PLEASE CALL CHRIS LYON OR LORI KILLINGER AT 850-222-5702 FOR MORE INFORMATION***



## FMCA 2012 Legislative Days January 24 - 25, 2012

**Cabot Lodge – Thomasville Road  
1653 Raymond Diehl Road  
Tallahassee, FL 32308  
(850) 386-7500**

FMCA Room Block Rate \$109.00/night  
Cutoff date: January 10, 2012  
Call direct and make reservations

### **AGENDA**

#### **Tuesday, January 24, 2012**

6:30 pm Dinner and briefing at Georgio's, 2971 Apalachee Parkway

#### **Wednesday, January 25, 2012**

Complimentary hot breakfast - Hotel Checkout by 12:00 Noon

7:30 am - 8:00 am Briefing at Cabot Lodge – Chris Lyon

8:30 am -12:00 noon Meetings with Legislators

12:00 noon -1:00pm Group Meeting and Lunch  
Hospitality Square (Clock Building)  
200 West College, 2<sup>nd</sup> Floor

1:00 pm - 5:00 pm Meetings with Legislators

*Lewis, Longman & Walker, P.A.  
(850) 222-5702  
Chris Lyon – (850) 566-1713*

# Tallahassee Day 2012

## Team assignments

TL = Team Leader

### Team 1

Doug Carlson - TL	Indian River Mosquito Control District
Judy Avril	Indian River Mosquito Control District
Diane Richards	Indian River Mosquito Control District
Don Shroyer	Indian River Mosquito Control District

### Team 2

Walter J. Tabachnick - TL	FMCA, Vero Beach, FL
Jorge R. Rey	FMCA, Vero Beach, FL
Jon Day	FMCA, Vero Beach, FL
Barry Alto	FMCA, Vero Beach, FL

### Team 3

Joel Jacobson - TL	Citrus County Mosquito Control District
Robert Milan	Citrus County Mosquito Control District, Commissioner
Jeffrey Grow	Citrus County Mosquito Control District, Commissioner
Steve Watkins	Citrus County Mosquito Control District
Alan Fellows	Citrus County Mosquito Control District

### Team 4

Dennis Moore - TL	Pasco County Mosquito Control District
Chris Lesser	Manatee County Mosquito Control District
Dr. Eric T. Schreiber	Sarasota County Mosquito Management Services
Candace Royals	Valent Biosciences, Tampa, FL (1/2 day)

### Team 5

Larry Hribar - TL	Florida Keys Mosquito Control District
Steve Smith	Florida Keys Mosquito Control District
Michael Doyle	Florida Keys Mosquito Control District

### Team 6

Bob Betts - TL	Escambia County Mosquito Control
Cliff Rooker	Escambia County Mosquito Control
John Smith	Beach Mosquito Control District, Commissioner
James F. Clauson	Beach Mosquito Control District

### Team 7

Richard Smith - TL	Jacksonville Mosquito Control
James McNelly	Volusia County Mosquito Control
Donnie Powers	Adapco, Sanford, FL
Johnny Hunter	Charlotte County Pest Management

**Team 8**

Ms. J. Bequette - TL  
Dr. Rui-De Xue - TL  
Mrs. C. Brandhorst  
Jessica Phillips

Anastasia Mosquito Control District, Commissioner  
Anastasia Mosquito Control District  
Anastasia Mosquito Control District, Commissioner  
Anastasia Mosquito Control District

**Team 9**

Wayne Gale - TL  
Pat Mann  
Mike Ellis  
Katie Heggemeier

Lee County Mosquito Control District  
Lee County Mosquito Control District, Commissioner  
Lee County Mosquito Control District, Commissioner  
Lee County Mosquito Control District

**Team 10**

Jeff Stivers - TL  
Frank Van Essen  
Shelly Redovan  
Neil Wilkinson  
Joanna Semmer

Collier Mosquito Control District  
Collier Mosquito Control District  
Lee County Mosquito Control District  
Lee County Mosquito Control District  
Fort Myers Beach Mosquito Control District, Commissioner

**Team 11**

Mark Cothran -TL  
Glen Pourciau  
Earl Wise  
Leonard Padgett  
Ben Brewer

Gulf County Mosquito Control  
Leon County Mosquito Control  
Escambia County Mosquito Control  
Escambia County Mosquito Control  
South Walton County Mosquito Control District

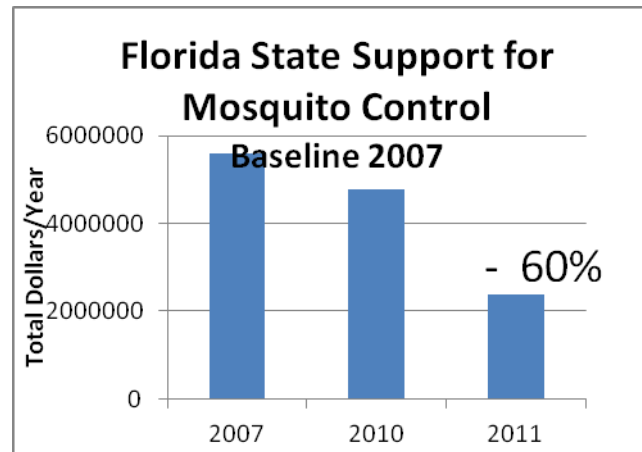
# The Status of Florida State Funds in Support of Mosquito Control

Since 2007 Florida has severely reduced the state funds that were essential to protect Florida's citizens from mosquitoes and mosquito-borne diseases. Florida's state support once provided the following essential components of Florida's capability to effectively control mosquitoes and mosquito-borne diseases:

- State Aid for Mosquito Control (incl. state mosquito control research program)
- Florida Medical Entomology Laboratory (Univ. Florida – IFAS)
- Public Health Entomology Research and Education Center (FAMU)
- Florida Dept. of Health Lab for Mosquito Borne Disease Surveillance
- State Supported Dog Fly Control Program (terminated in 2008)

The erosion of state support for mosquito control in Florida represents a loss of ca. 60% in this support since the baseline funds of 2007 (FIGURE 1).

Fig. 1

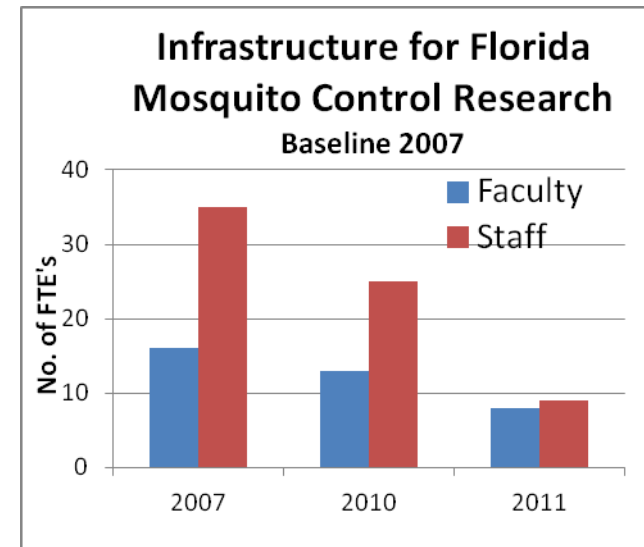


Florida has reduced state aid for mosquito control by ca. 60% and ca. 50% of Florida's mosquito control research infrastructure that has sustained Florida mosquito control for the past 50 years has been lost.

Figure 2 shows the impact of the budget reductions on the Florida research infrastructure in particular in lost FTE's of both faculty and staff. Since the baseline year of 2007 there has been a loss of 50% in faculty and 77% in staff to Florida's mosquito control and mosquito-borne disease infrastructure.

**Florida's ability to provide efficient, effective and environmentally proper mosquito control vital to Florida's future health and well-being has been jeopardized.**

Fig. 2



**The situation is dire. Florida's mosquito control capability to protect its citizens from mosquitoes and the diseases they transmit has been sharply and drastically reduced. This must be corrected by restoring the recent losses in state aid and reprioritizing the use of these funds so they address the highest priorities facing Florida mosquito controls efforts against mosquito-borne disease like dengue, West Nile, malaria, chikungunya and Rift Valley fever.**

## FMCA RECOMMENDATIONS

Restore ca. \$1,000,000 in lost state aid to:

- Increase the Florida mosquito control research program commensurate with the new challenges from mosquito-borne diseases in Florida.
- Provide support for the UF IFAS mosquito control research laboratory to meet the needs of mosquito control in Florida.
- Provide support for the Florida state testing laboratory for Florida's mosquito-borne disease surveillance program.
- Restore state aid funds to improve local mosquito control in Florida.

### SUMMARY:

- **Florida must restore and reprioritize state aid for mosquito control funds.**
- **State Aid to mosquito control is essential to develop new mosquito control products, to maintain disease surveillance, to reduce mosquitoes and mosquito-borne disease throughout Florida.**



A laboratory at the Univ. of Florida IFAS Florida Medical Entomology Laboratory.



Main laboratory building at the Univ. of Florida, Florida Medical Entomology Laboratory in Vero Beach.

**PROTECT FLORIDA'S FUTURE  
SUPPORT EFFECTIVE MOSQUITO  
CONTROL**

**CONTACT: FLORIDA MOSQUITO  
CONTROL ASSOCIATION**

**<http://www.floridamosquito.org/>  
Executive Director: Shelly Redovan  
Tel. 855-OUR-FMCA**



**RECOMMENDATIONS  
TO MAINTAIN FLORIDA  
MOSQUITO CONTROL**

**MOVING FLORIDA TO A BRIGHTER  
FUTURE THROUGH EFFICIENT,  
EFFECTIVE AND  
ENVIRONMENTALLY PROPER  
MOSQUITO CONTROL**

## **Florida Mosquito Control Research Program**

The Florida Mosquito Control Research Program (FMCRP), administered by the Florida Dept of Agriculture & Consumer Services is essential to maintain and improve mosquito control effectiveness throughout Florida.

**In 2010 and 2011 the Florida Coordinating Council on Mosquito Control (FCCMC), responsible for ensuring efficient, effective and environmentally proper Florida mosquito control, unanimously recommended no reductions to this essential Florida program.**

The FCCMC includes representatives from:  
Audubon Society  
FL Fish & Wildlife Conserv. Comm.  
FL Dept. Environmental Protection  
Florida Defenders of the Environment  
FL Dept. of Agric. & Consumer Serv.  
Florida Mosquito Control Programs  
FL Dept. of Health  
University of Florida  
USDA  
U. S. Fish and Wildlife Service

### **The Need for Florida Mosquito Control Research**

- Mosquito-Borne Disease Epidemics Threats to Florida
  - **Dengue**
  - **Eastern Equine Enceph.**
  - **St. Louis Encephalitis**
  - **West Nile Encephalitis**
  - **Others: Chikungunya, Malaria, Rift Valley**
- Bioterrorists Could Use Infected Mosquitoes to Cause Disease in Florida
- Control of Mosquitoes in Growing Urban Centers Is Needed.
- New Environmentally Friendly Mosquito Control Products, Methods, Strategies Are Needed.
- Global Warming Will Impact Mosquitoes and Mosquito-Borne Disease in Florida.

### **FMCRP Accomplishments**

- Florida Sentinel Mosquito-Borne Disease Surveillance Program.
- Florida Mosquito-Borne Disease Forecasting Program.
- Diagnostics to Detect Eastern Equine & St. Louis Encephalitis.

- Detecting West Nile virus in Florida.
- Reducing Non-Target Effects of Pesticides.
- Improved Efficiency of Aerial Adulticiding Spray Systems.
- Reducing Insecticide Resistance in Mosquitoes.
- Assess the Effectiveness of Novel Insecticides.
- New Environmentally Friendly Insecticides – Bti, TMOF.
- Environmentally Sound Mosquito Control in Coastal Wetlands Without Insecticides.

### **Benefits**

- Improved Mosquito-Borne Disease Surveillance.
- Targeted Mosquito Control to Prevent Disease Outbreaks.
- Reduce the Impact of Mosquito Control on the Environment
- Improved Efficiency of Mosquito Control.
- New methods, new products.
- Increased research funding from Federal, international and corporate sources.

Mosquitoes and mosquito-borne disease threaten Florida's citizens and economy. Florida is dependent on efficient, effective and environmentally proper mosquito control.

**The Florida Coordinating Council on Mosquito Control, consisting of Florida's public health and environmental partners, unanimously advised that it was dangerous to reduce state aid for mosquito control that is essential in protecting Florida's health and well-being.**

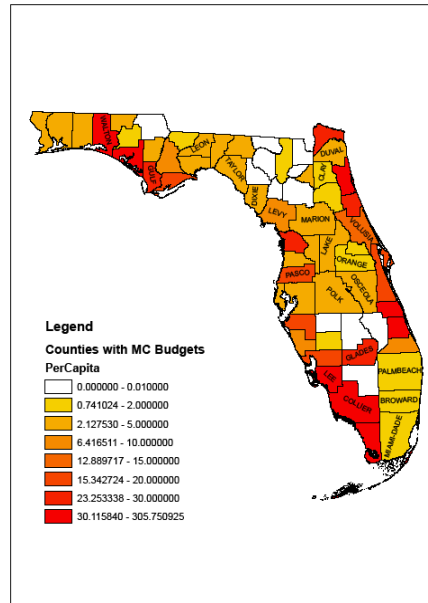
## Mosquitoes and Florida

- Mosquitoes reduce quality of life in Florida.
- Curtails outdoor activities.
- Florida mosquito-borne disease outbreaks impacts tourism and housing industries.
- Florida mosquito borne diseases:
  - ✓ St. Louis encephalitis
  - ✓ West Nile encephalitis
  - ✓ Eastern equine encephalitis
  - ✓ Dengue
  - ✓ Emerging mosquito borne diseases threaten Florida: Chikungunya, Malaria Rift Valley Fever



## Florida Mosquito Control

- 57 organized programs in 55 of Florida's 67 Counties.
- Ca. \$175 million dollars expended annually on mosquito control in Florida.
- 99% of Florida mosquito control is supported with local funds.
- Ca. \$1.2 million is provided by the Florida State Aid (<1% of the total expenditures).
- Florida is recognized world-wide for providing premier mosquito control.



## Benefits of Mosquito Control

- Reduce pest mosquitoes.
- Surveillance for mosquito-borne diseases.
- Reduce mosquito transmitters of disease to protect human health.
- Provide for quality of life to support Florida's housing and tourist industries.
- Provide professional scientifically based efficient, effective and environmentally proper mosquito control.
- Professional mosquito control:
  - ✓ Source reduction.
  - ✓ Minimize environmental impacts.
  - ✓ Comply with State and Federal regulations.
  - ✓ Professional use of approved pesticides.
  - ✓ Monitor to assess effectiveness.
  - ✓ Monitor to assess and mitigate non-target effects.
  - ✓ Provide professional training to employees.
  - ✓ Improve mosquito control through training, education and professional attention to the best science from universities, government and industry.



**FLORIDA'S MOSQUITOES - PESTS  
AND DISEASE CARRIERS**



**FLORIDA MUST HAVE  
RESEARCH TO CONTINUE  
THE EFFECTIVENESS AND  
EFFICIENCY OF FLORIDA  
MOSQUITO CONTROL TO  
ENSURE FLORIDA'S  
HEALTH AND WELL-BEING**

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<http://www.floridamosquito.org/>**

**Executive Director: Shelly Redovan:  
Tel. 855-OUR-FMCA**



**FLORIDA EXTENSIVE  
MOSQUITO HABITATS**

## **THE FLORIDA RESEARCH PROGRAM TO IMPROVE FLORIDA MOSQUITO CONTROL**

**EFFICIENT, EFFECTIVE AND  
ENVIRONMENTALLY PROPER  
MOSQUITO CONTROL  
TO PROTECT FLORIDA  
BASED ON QUALITY SCIENCE**

**MOSQUITO CONTROL  
BENEFITS ALL OF FLORIDA**



## State Aid to Florida Mosquito Control Must Be Restored

### Source of State Aid Funds:

- Funds are not General Revenue.
- Funds are from the Solid Waste Management Trust Fund, Chapter 403.709, F.S.
- Support is consistent with the impact of waste tires in increasing mosquito populations.

### Amount of State Aid from Waste Tire Tax:

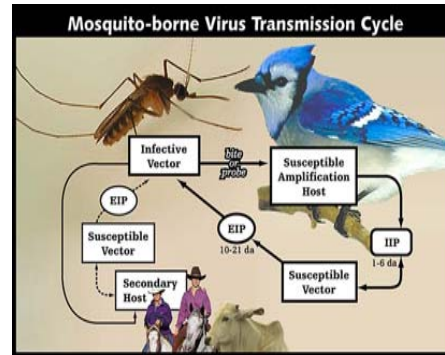
- Current: \$1.26 million reduced from historic: \$2.16 million in 2011.
- Includes \$250,000 for mosquito control research

### Benefits of State Support:

- Provides training for mosquito control personnel not provided locally.
- Provides small programs for minimal mosquito control throughout Florida.
- Supports communications between Districts to share information and resources.
- Funds for State-wide Meetings essential for sharing information and resources.
- Provides for reporting to the State.
- Provides incentives to establish local mosquito control.
- Provides scientific information critical to Florida mosquito control's effectiveness.

### State Support is Critical for:

- Mosquito-borne Disease Surveillance.
- Support to Maintain the State Mosquito Control and Research Infrastructure.
- Emergency mosquito control to mitigate a disease outbreak.



***FMCA urges \$2.16 million to support the Florida Mosquito Control State Aid Program.***

***FLORIDA'S FUTURE IS AT STAKE!!***



**FLORIDA MOSQUITO CONTROL**

**A STATE AND LOCAL PARTNERSHIP**

**PROTECTING FLORIDA'S HEALTH AND WELL-BEING**



## THE NEED TO RESTORE STATE AID FOR FLORIDA MOSQUITO CONTROL TO PROTECT FLORIDA FROM THE THREAT OF EPIDEMIC DENGUE

Florida's rapid growth and prosperity can be attributed largely to efficient interstate transportation, air conditioning, **and the effectiveness of Florida mosquito control**. However, recent reductions in the Florida state budget have reduced Florida's commitment to support Florida mosquito control capabilities precisely at the time when Florida's risk from the devastating consequences of mosquito-borne disease has never been greater.

### FLORIDA AND EPIDEMIC DENGUE

- Dengue is a dangerous mosquito-borne virus causing human disease throughout the tropics and subtropics. Worldwide there are more than 50 million cases of dengue annually.
- Symptoms:
  - 4 Dengue serotypes are found worldwide – DENV 1, 2, 3, 4
  - a. Symptoms occur 5-6 days after infection, last 6-8 days.
  - b. high fever, severe headache pain behind the eyes, joint, muscle pain, nausea vomiting skin rash. Milder symptoms can be mistaken for a flu or other viral infection.
  - c. Dengue hemorrhagic fever: potentially fatal, more likely after secondary infection with a different serotype
    - i. Symptoms: high fever, damage to lymph and blood vessels, bleeding from the nose, gums, and from under the skin, enlargement of the liver, and circulatory failure. May progress to massive bleeding, shock and death (dengue shock syndrome -DSS)
- Mosquito transmission of dengue in Florida had not occurred in nearly 50 years.
- In 2009 and 2010 Key West had mosquito-transmitted dengue largely in the Old Town section with 22 cases (2009) and 63 cases in 2010.
- **THIS REPRESENTS A VERY HIGH INCIDENCE OF 300 CASES/100,000 PEOPLE MAKING THE RISK OF DENGUE HIGHER IN KEY WEST THEN IN SINGAPORE!**
- Dengue transmission also occurred with single isolated reported cases in 2010 and 2011 in Martin, Broward, Miami Dade (SOUTHEAST FLORIDA) and Hillsborough counties showing the wide spread occurrence and potential in Florida.
- If the same incidence of dengue (300/100,000) that occurred in Key West occurred in the Southeast Florida Metropolitan Area (population 5 million) there would be 15,000 cases of dengue and ca. 750,000 infected people.
- **THIS WOULD BE A CASTROPHE. HOSPITALS WOULD BE OVERWHELMED. TOURISM WOULD CRASH. SHOULD MULTIPLE DENGUE SEROTYPES (FORMS OF THE VIRUS) BE PRESENT CASES WOULD INCREASE AND THERE WOULD BE DEATHS.**
- Facts about dengue transmission in Florida since 2009.
  - Dengue transmission has occurred in South Florida.
  - Multiple dengue serotypes have been detected.

- Vectors *Aedes aegypti* and *Aedes albopictus* are present, ubiquitous, and have been very difficult to control.
- There has been transmission in large urban areas with the potential for large numbers of cases.
- Mosquito Control capabilities must address:
  - Urban domestic mosquitoes that are difficult to control.
  - The need to target resources quickly and devise control strategies for domestic mosquitoes not commonly or historically targeted.
  - Need to galvanize the entire community to actively participate in control efforts to be successful.
  - Need to increase capabilities through assistance from state level, other mosquito control districts through networking and research agencies
- **ONLY FLORIDA MOSQUITO CONTROL IS AVAILABLE TO MITIGATE OR PREVENT EPIDEMIC DENGUE.**

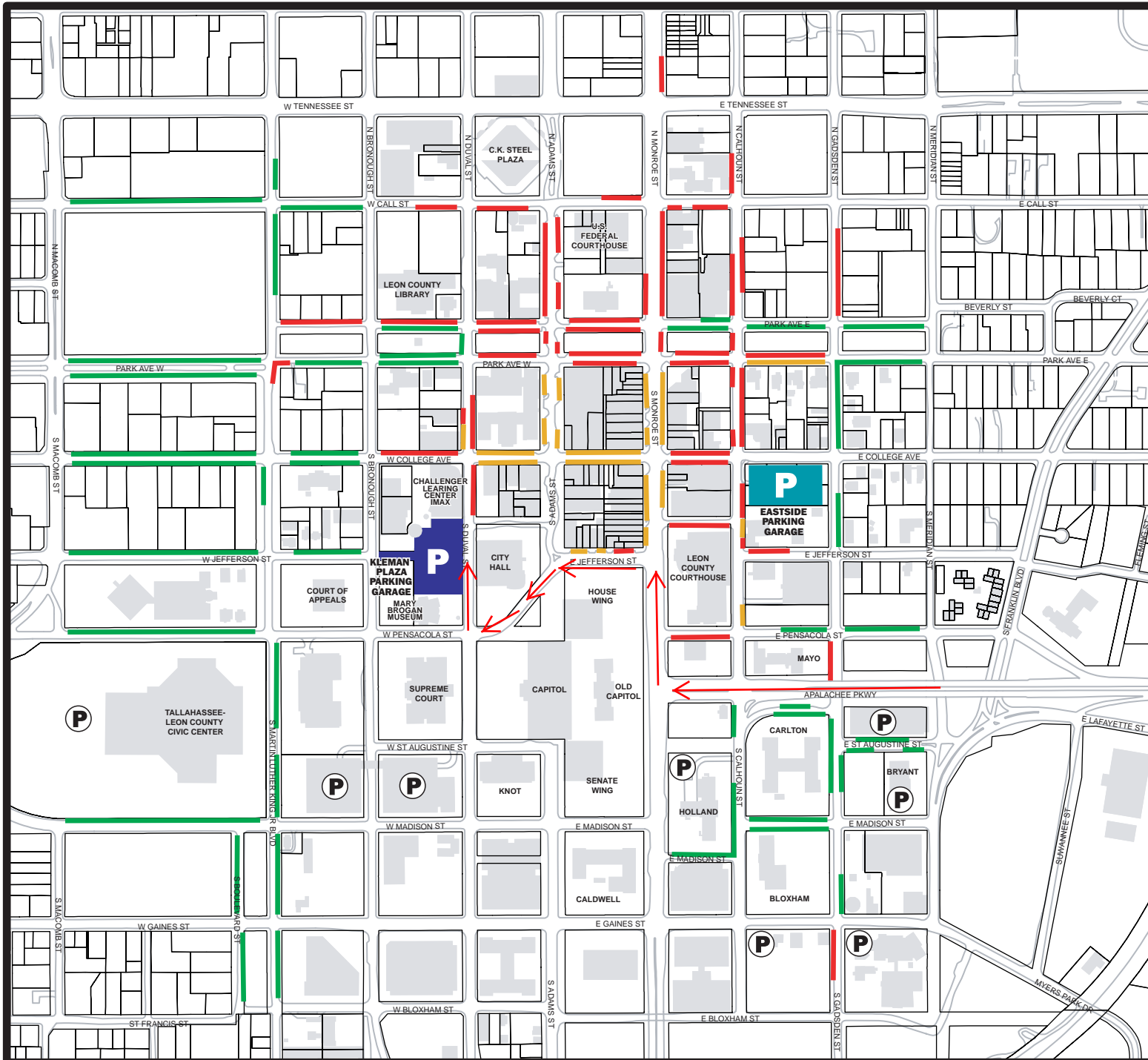
## **FLORIDA STATE SUPPORT FOR MOSQUITO CONTROL**

- In 2007 Florida provided ca. \$5.5 million annually to support different needs.
- By 2011 Florida reduced this support by ca. 60% by reducing state aid to mosquito control by 40%, Florida A&M University closed the mosquito pesticide research laboratory, faculty conducting mosquito research at the University of Florida's Medical Entomology Laboratory was reduced 20% with 50% loss in support staff.

## **ASSESSMENT**

- **THIS IS NOT THE TIME FOR FLORIDA TO DECREASE FLORIDA'S MOSQUITO CONTROL CAPABILITIES.**
  - **STATE AID TO LOCAL MOSQUITO CONTROL PROVIDES FOR THE NETWORKING THAT COORDINATES LOCAL MOSQUITO CONTROL INTO A STATEWIDE NETWORK.**
  - **MOSQUITO-BORNE DISEASES DO NOT RESPECT COUNTY LINES.**
  - **FLORIDA MOSQUITO CONTROL MUST HAVE NEW PRODUCTS, NEW METHODS TO COMBAT A NEW FLORIDA MOSQUITO-BORNE DISEASE LIKE DENGUE.**
  - **REDUCING FLORIDA'S MOSQUITO CONTROL NETWORK CAPACITY AND RESEARCH CAPACITY TO ADDRESS THE CHALLENGES ARE SHORT SIGHTED AND DANGEROUS.**
- **THE REDUCTIONS IN STATE SUPPORT WILL CONTRIBUTE TO THE LOOMING CATASTROPHE THAT AWAITS FLORIDA DUE TO MOSQUITO-BORNE DISEASES LIKE DENGUE.**
- **FLORIDA MUST RESTORE ITS CAPACITY TO MITIGATE SUCH AN EPIDEMIC NOW.**

# DOWNTOWN PUBLIC PARKING



- ON STREET METERS**
- ONE HOUR OR LESS
  - TWO HOURS
  - FOUR HOURS

## CITY OF TALLAHASSEE PUBLIC PARKING GARAGES

**P** **EASTSIDE PARKING GARAGE** (Enter on Calhoun)

**P** **KLEMAN PLAZA PARKING GARAGE** (Enter on Bronough or Duval)  
FIRST 30 MINUTES FREE

**P** **PUBLIC LOTS/SPACES**



For More Information  
Economic Development Department  
(850) 891-8886



Tallahassee  
Downtown  
Improvement  
Authority

Downtown Improvement Authority  
(850) 224-3252