

**HEADQUARTERS**

**SOUTH WALTON  
COUNTY**



Ben Brewer  
**CONTROL DISTRICT**





# SOUTH WALTON COUNTY MOSQUITO CONTROL DISTRICT

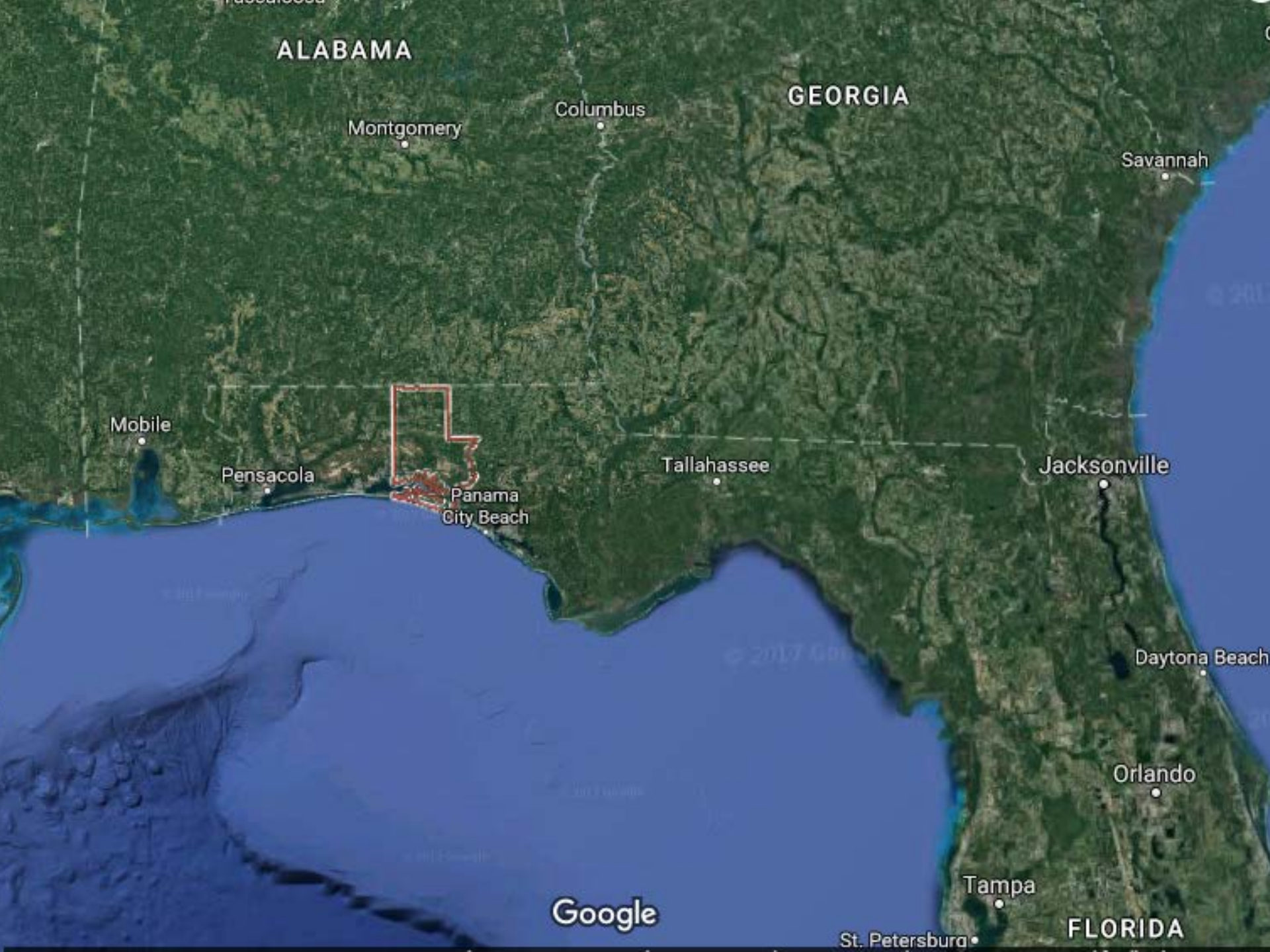
ESTABLISHED MAY 26, 1964

BY REFERENDUM UNDER CHAPTER 388, FLORIDA  
STATUTES, THROUGH THE EFFORTS OF THE  
SOUTH WALTON COUNTY LIONS CLUB AND THE  
WALTON COUNTY CHAMBER OF COMMERCE.

FIRST GOVERNING BOARD OF COMMISSIONERS:

VERNON R. BISHOP,	CHAIRMAN
LOIS G. MAXON,	SECRETARY
EDWIN R. WALLINE,	TREASURER
AUBREY GILBERT, JR.,	DIRECTOR

DEDICATED TO THE CONTROL OF DISEASE-BEARING  
ARTHROPODS AND NUSIANCE INSECTS FOR THE  
BETTERMENT, COMFORT, HEALTH, WELFARE AND  
PROSPERITY OF THE INHABITANTS OF THIS  
BEAUTIFUL AREA OF NORTHWEST FLORIDA.



ALABAMA

GEORGIA

Montgomery

Columbus

Savannah

Mobile

Pensacola

Panama  
City Beach

Tallahassee

Jacksonville

Daytona Beach

Orlando

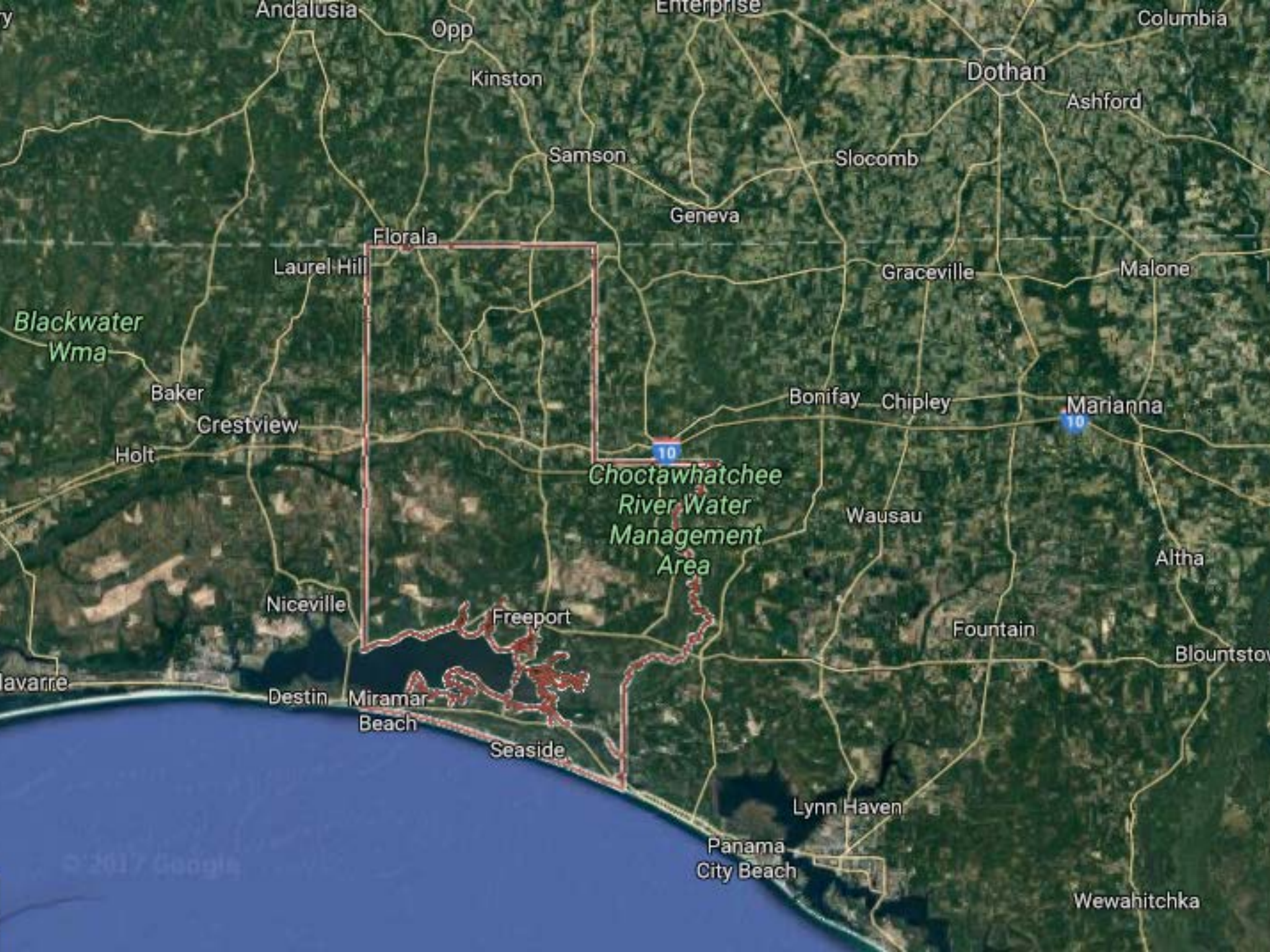
Tampa

St. Petersburg

FLORIDA

Google





Andalusia

Opp

Enterprise

Columbia

Kinston

Dothan

Ashford

Samson

Slocomb

Geneva

Floral

Graceville

Malone

Laurel Hill

Blackwater  
Wma

Baker

Crestview

Bonifay

Chipley

Marianna

Holt

10

Choctawhatchee  
River Water  
Management  
Area

Wausau

Altha

Niceville

Freeport

Fountain

Blountstov

lavarre

Destin

Miramar  
Beach

Seaside

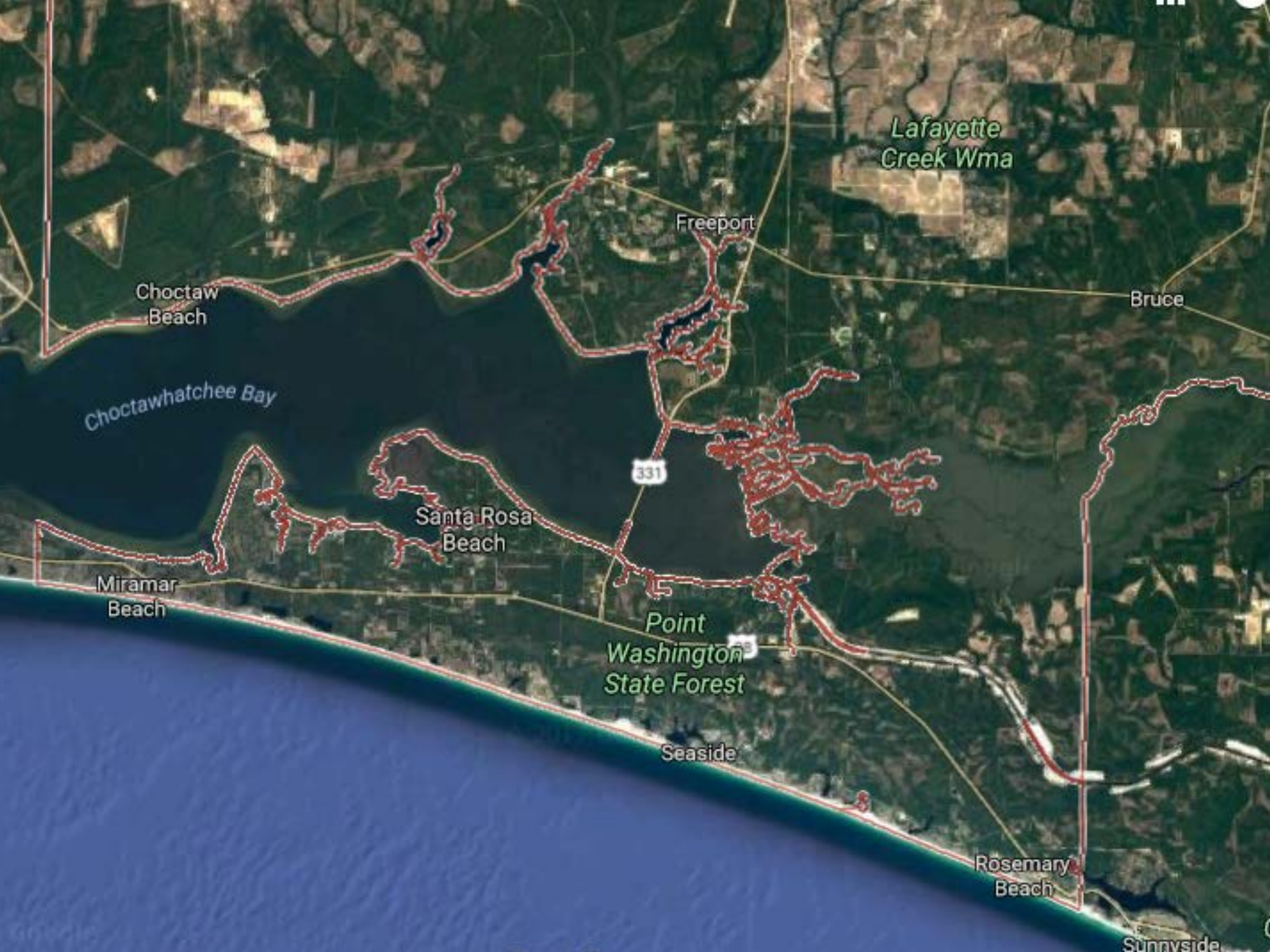
Lynn Haven

Panama  
City Beach

Wewahitchka

© 2017 Google





Lafayette  
Creek Wma

Freeport

Bruce

Choctaw  
Beach

Choctawhatchee Bay

331

Santa Rosa  
Beach

Miramar  
Beach

Point  
Washington  
State Forest

Seaside

Rosemary  
Beach

Sunnyside





FORD

15222











# What we have going for us

Very healthy economy-The budget

Over \$1,000,000,000 growth in taxable value the last two years-----millage rate =.1628 per\$1,000

\$2,200,000 budget and \$1,800,000 Reserves

Support from Constituents

Extremely supportive commissioners

Experienced and caring staff

Relatively small land area

Recent New hires

Mosquito Control Ditches

New data management system



# South Walton County Mosquito Control District

- Population 28,000
- 100,000 plus visitors
- Area 80,000 acres
- 125 square miles
- Established 1964



Walton County Planning and Development Services  
 Project 2010-158; ccs  
 This data is provided with the understanding that the conclusions drawn from such information are solely the responsibilities of the user.  
 The GIS data is not a legal representation of the features depicted, and any assumption of the legal status of this data is  
 hereby disclaimed. Features are approximate, and are not necessarily accurate to mapping, surveying, or engineering standards.  
 Errors or omissions should be reported to the Walton County Planning and Development Services Division 850-267-1555.

## Streets

### Road Surface

- Dirt
- Paved

County Outline

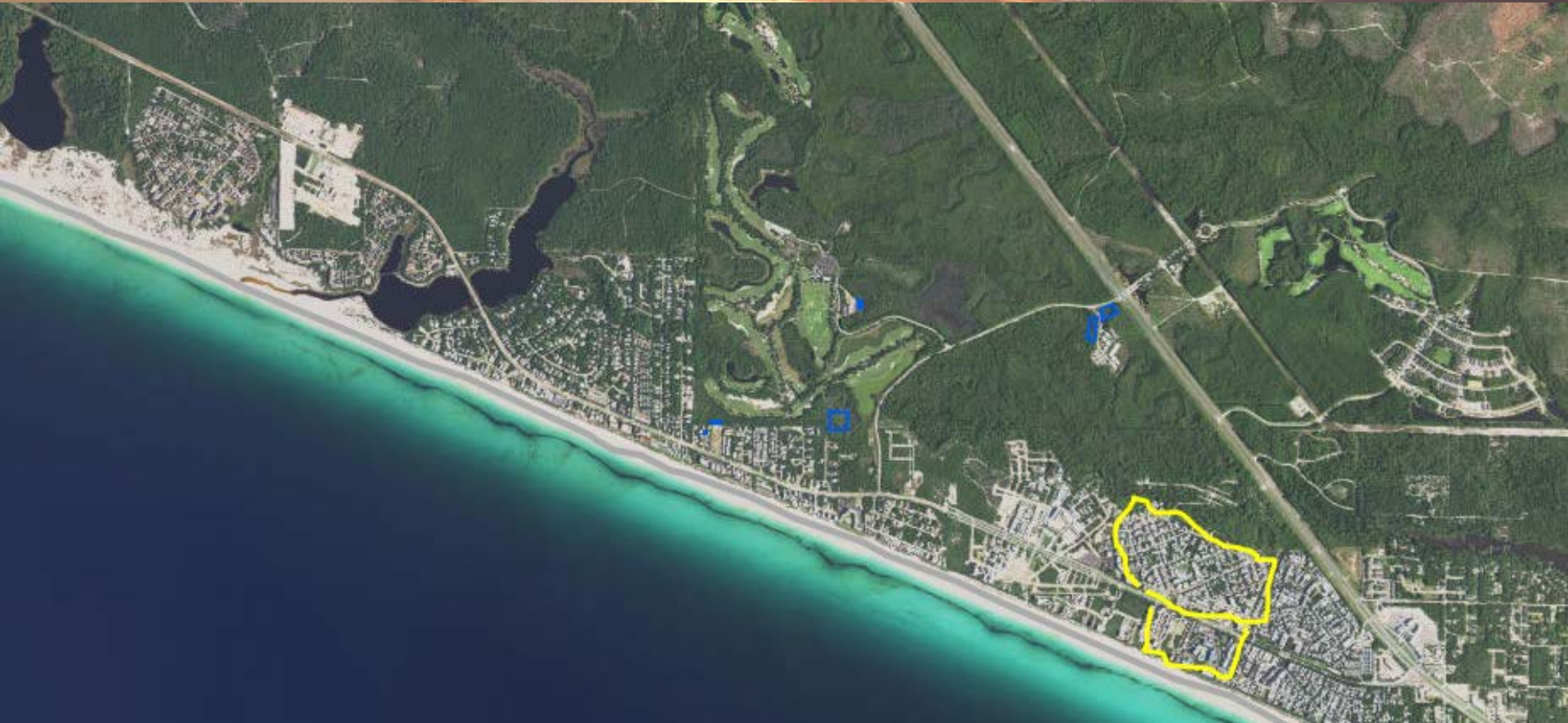
South Walton Mosquito Control District



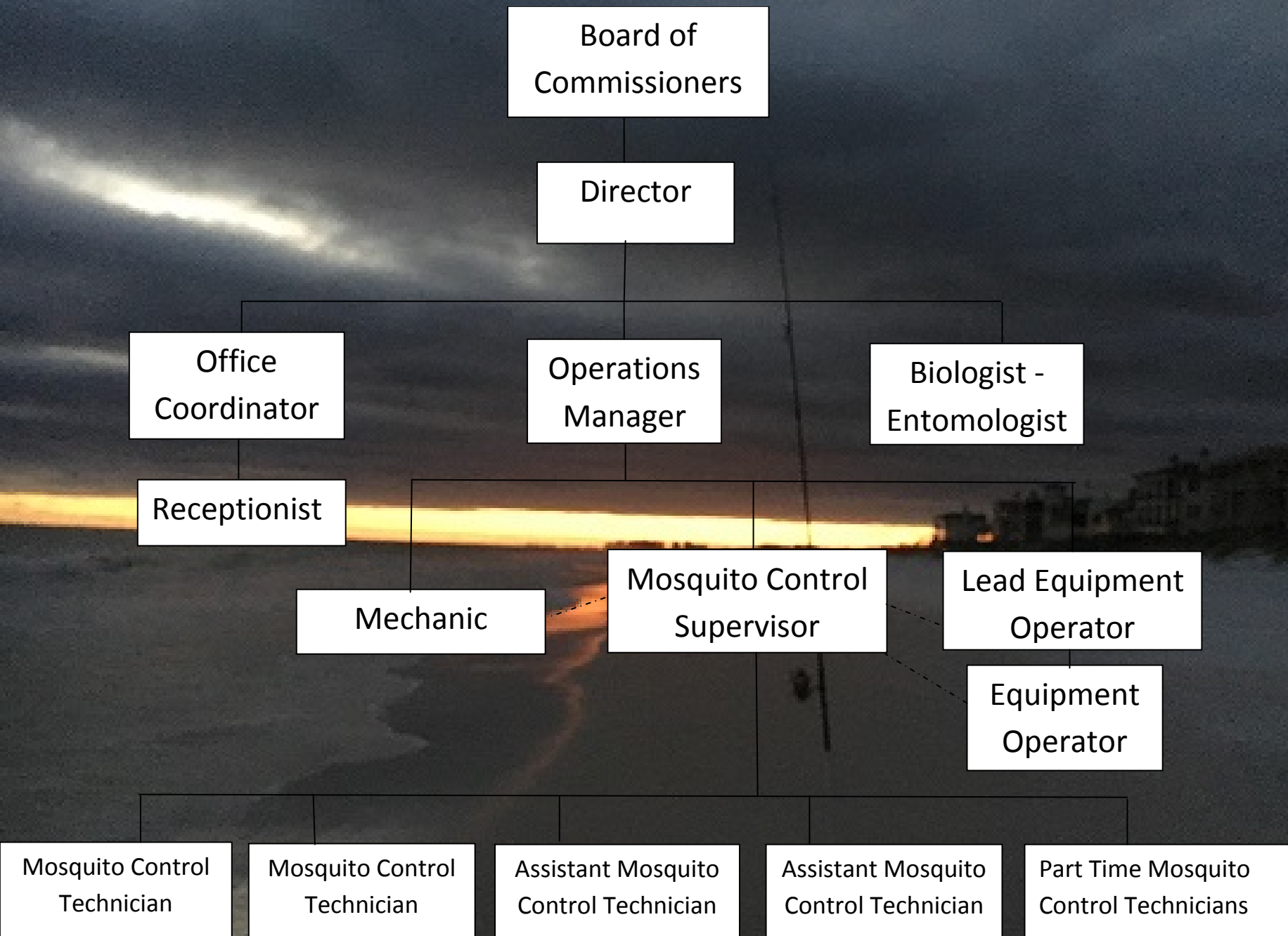
0 1 2 4 Miles



Economy-Tourism-Retirement 25 miles of  
sugar sand beaches and clear emerald  
green water with high price real estate









# Three Elected Commissioners



John Magee

Tim Norris

Ronnie Faulk

Chairman changes each year







## A couple of our issues

1. Low elevation
2. No overall development plan
3. Thousands of acres of protected Land
4. Wetlands spread throughout
5. EEE and WNV prevalent
6. 23,000+ *Culiseta melanura* trapped in 2017
7. Mosquito Control Ditches
8. No aerial capabilities
9. Roadside ditches not maintained
10. New citizens moving all the time



# Our Program

## Source Reduction

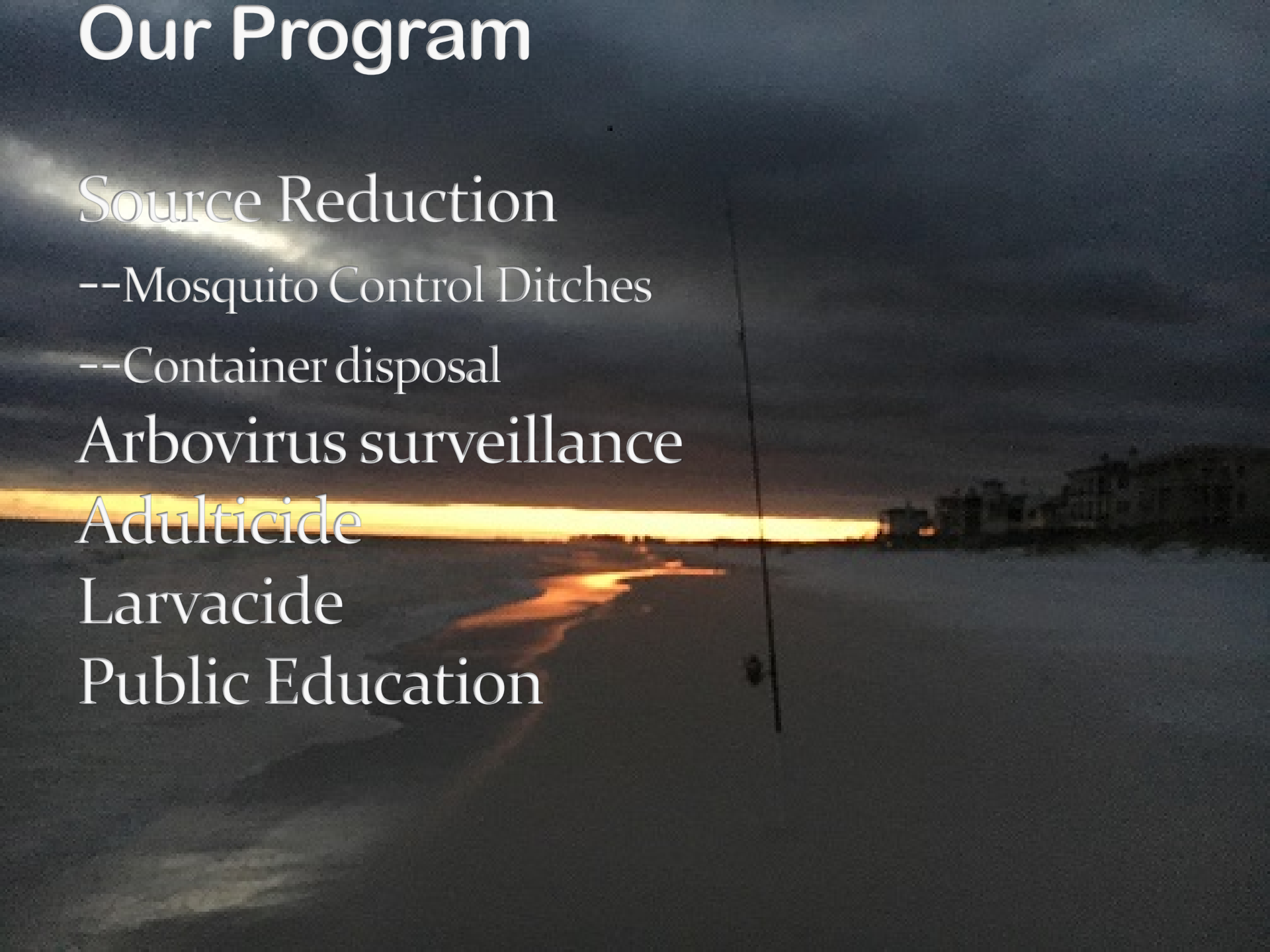
- Mosquito Control Ditches
- Container disposal

## Arbovirus surveillance

## Adulticide

## Larvacide

## Public Education









# Mosquito Control Ditches











04.27.2012 13:16



# Source Reduction-MC ditches

















# Cleaning the ditch



04.26.2012 08:26



04.26.2012 09:48





# Building neighborhoods around MC Ditches





# Source Reduction

## Hazmat Day November 12, 2016

8:00-12:00

Tires, electronics, and white goods—reduce number of containers

2012/11/11 13:09





# 16 Sentinel Chicken coop Sites<sub>Rain gauge</sub>

# Test birds for signs of virus

## Adult trap counts/species count

# Landing rate count and rain data



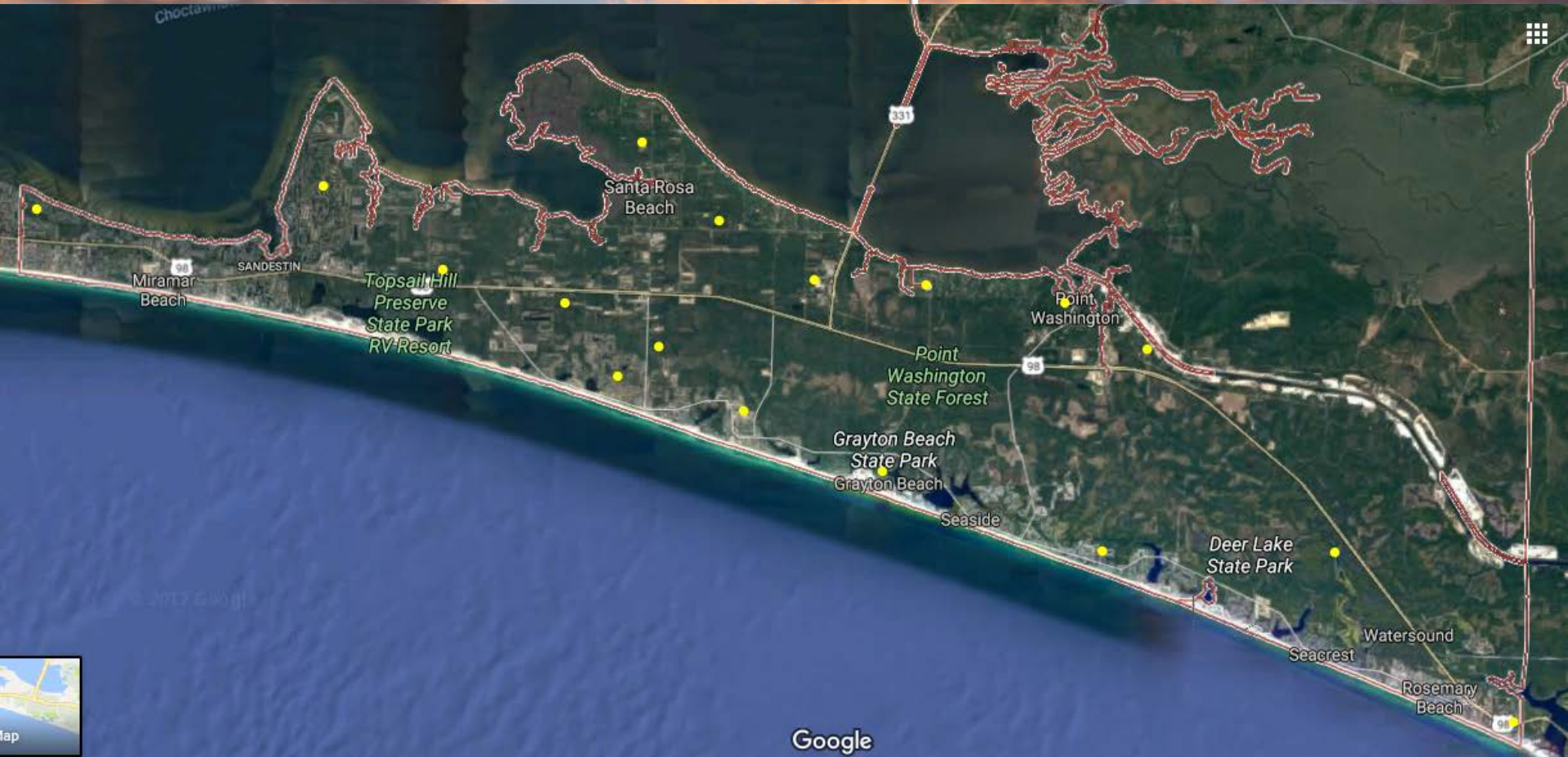


A metal chicken coop with six compartments, each with a wire mesh door. The coop is elevated on a metal frame. To the right, a metal hanging feeder is attached to the frame. The coop is situated in a wooded area with sunlight filtering through the trees.

Six chickens instead of four.  
Less pests.  
Look Better?  
Easy cleaning.



# Sentinel Chicken Coop Site locations





**Confirmed Sentinel Chickens (WNV, EEEV, & SLEV):**

<b>Current Week</b>			
<b>County</b>	<b>Arbovirus</b>	<b>Collection Date (#)</b>	<b># Positive</b>
S. Walton	EEE	12/10	2
N. Walton	WNV	12/4	1
Bay	WNV	11/27	1

<b>Year to Date</b>			
<b>County</b>	<b>Arbovirus</b>	<b>Collection Date</b>	<b># Positive</b>
Walton	WNV	4/9, 4/23, 4/30, 7/2, 7/3, 7/9, 7/10, 7/16, 7/23, 7/30, 8/7, 8/13, 8/20, 8/21, 9/6, 9/10, 9/17, 9/18, 9/24, 10/1, 10/8, 10/15, 10/22, 10/29, 11/5, 11/26, 12/4	123
Bay	WNV	7/24(2), 7/31(2), 8/1(2), 8/7, 8/14, 8/21(2), 9/4(3), 9/11, 9/18, 10/2, 10/23, 10/30, 11/14, 11/27	24
Leon	WNV	9/17, 9/22, 10/2, 10/15, 10/22, 10/29, 11/5, 11/13	35
Walton	EEE	6/4(2), 6/18(3), 6/25, 7/2(5), 7/30, 9/6, 9/10, 10/15, 11/19, 11/26, 12/10	19
Leon	EEE	8/13, 8/28, 9/22, 10/22, 10/29, 11/5, 11/13, 11/26	10



# 21 New Jersey Traps: 16 with coops

Route #	ID for Collection Location	City	Type of Collection Site	Date	Rain	Aedes albopictus	Aedes vexans	Anopheles crucians	Anopheles quadrimaculatus	Culex quinquefasciatus	Culex restuans	Culex nigripalpus	Culex salinarius	Culiseta melanura	Culiseta inornata	Coquellitia peruviana	Aedes atlanticus
2	San Destin - B2B	Destin	Golf Course	6/19/2017	0.30	0	0	0	0	0	0	4	0	1	0	0	0
3	Goldsby Road - B13B	Santa Rosa Beach	Business	6/19/2017	0.25	46	0	34	0	21	0	0	0	53	0	7	2
4	Hogans Hardwood - B3B	Santa Rosa Beach	Rural	6/19/2017	0.20	2	0	2	0	0	0	1	0	2	0	0	0
5	2524 North Hwy 393- SW11	Santa Rosa Beach	Rural	6/19/2017	0.90	2	0	5	0	0	0	1	0	0	0	0	0
10B	Substation - B7B	Santa Rosa Beach	Industrial	6/19/2017	0.55	0	0	37	0	50	0	77	0	100	0	98	7
11A	St Joe - B22B	Watersound	Construction Site	6/19/2017	0.30	0	0	46	0	0	0	5	0	5	0	2	0
11C	County Line - B11B	Panama City Beach	Rural	6/19/2017	0.65	0	0	60	0	51	0	19	0	0	67	0	0
1A	Walton Way - SW18	Miramar Beach	Residential	6/19/2017	0.10	0	0	25	0	0	0	0	0	0	0	1	0
1B	4 Mile Village	Santa Rosa Beach	Rural	6/19/2017	0.20	0	0	15	0	0	0	2	0	1	0	0	0
1BB	Stock Trade	Destin	Business	6/19/2017	0.10	0	0	0	0	0	0	0	0	0	0	0	0
5B	Patronis	Santa Rosa Beach	Rural	6/19/2017	0.90	0	0	15	1	0	0	0	0	0	0	0	0
6A	Colt Road - B19B	Santa Rosa Beach	Rural	6/19/2017	0.72	4	0	15	0	0	0	42	0	12	0	43	0
6B	District 5 - B6B	Santa Rosa Beach	Rural	6/19/2017	0.08	1	0	6	0	0	0	12	0	26	0	0	1
7A	Eden State Park - SW13	Santa Rosa Beach	Rural	6/19/2017	0.31	0	0	2	0	0	0	16	0	21	0	0	0
7B	Christian International - B14B	Santa Rosa Beach	Residential	6/19/2017	0.13	12	0	20	0	0	0	240	0	944	0	4	7
7C	Bay Drive - B20B	Santa Rosa Beach	Residential	6/19/2017	0.10	2	1	4	0	0	0	26	0	28	0	0	1
7D	Serenoa Windows	Santa Rosa Beach	Rural	6/19/2017	0.10	0	2	2	0	0	0	2	0	4	0	0	1
8A	SRB Golf Course - SW15	Santa Rosa Beach	Golf Course	6/19/2017	0.10	0	0	7	0	0	0	9	0	5	0	6	0
8B	393 South - SW17	Santa Rosa Beach	Rural	6/19/2017	0.30	0	0	13	0	0	0	24	0	9	0	0	0
9A	Grayton Park - B9B	Grayton	Rural	6/19/2017	0.63	0	0	179	0	0	0	18	0	5	0	0	0
9B	Mathews - B21B	Santa Rosa Beach	Residential	6/19/2017	0.40	4	0	9	0	0	0	12	0	12	0	11	0



# State looking into report of West Nile virus in Walton



COMMENT



Recommend

145

1



DEVON RAVINE | Daily News

Ben Brewer, director of the South Walton County Mosquito Control District, checks on one of the district's "sentinel" chickens at a site in South Walton County. The chickens, which are located at 16 sites around South Walton County, are regularly checked by district workers for the presence of west nile virus and eastern equine encephalitis.



# Adulticiding

- ULV truck mounted spraying
- 13 spray routes
- 3-4 hours to drive
- Can spray between 3-21mph
- Can't spray in the rain when temp is <60 or the winds are stronger than 10 mph
- Variable flow system using speed to adjust flow
- Maps of each spray mission recorded by our tracking system that show location, speed, time, and whether or not it was spraying





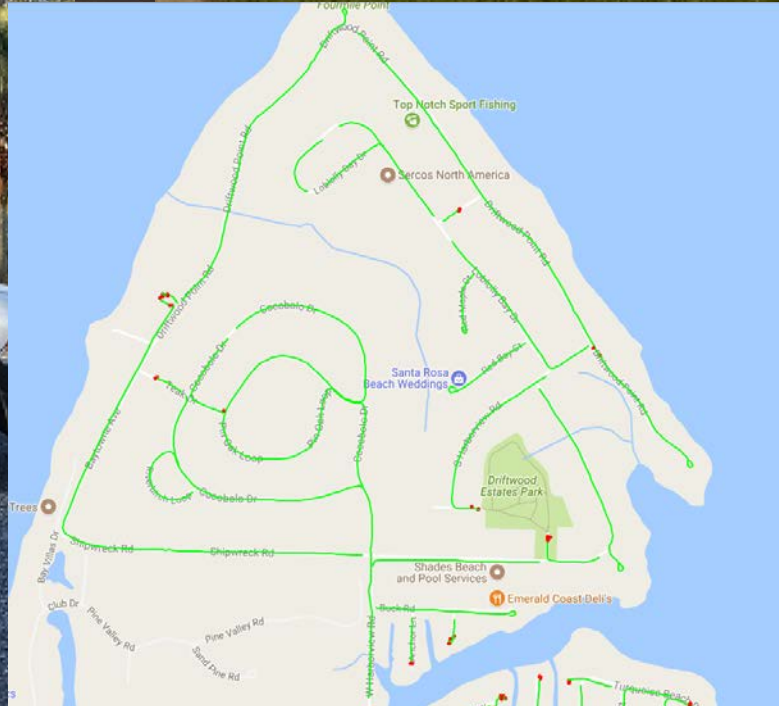
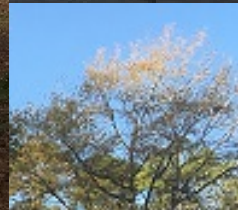














Adulticide based on  
numbers of mosquitoes





# Storm Drains

Locations  
7,000+





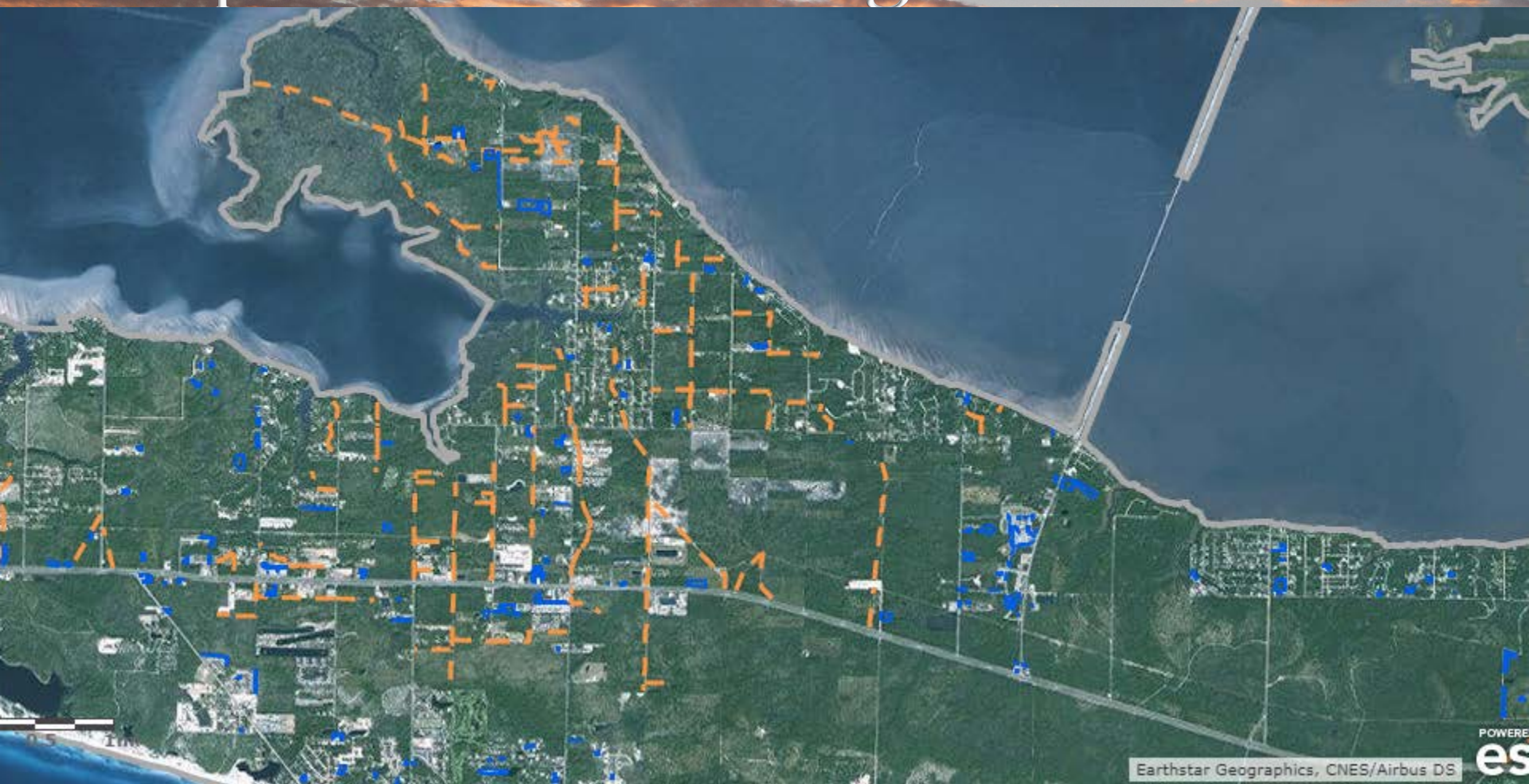
Ground  
Larviciding using  
Vectolex WDG at  
a rate of one  
lb/100gal/acre





# Source Sites

New GovClarity product by Digital  
Map Products-coming soon





50 Elementary classrooms last year  
Moving into the middle schools this year







After SWCMCD's second visit to the school.



Students working on their projects.



SWCMCD representative Cynthia Dye about the children's projects.



SWCMCD representative Cynthia Dye talking to the students.

# SWCMCD personnel visit Van R. Butler second graders

Story and photos by ALFREY POWELL  
 In an effort to teach young people about proper mosquito prevention practices, Van R. Butler second graders were visited by SWCMCD personnel on March 1. The visit was led by SWCMCD representative Cynthia Dye, who was joined by a group of SWCMCD staff members. The group spent time with the children, discussing the importance of mosquito prevention and the dangers of mosquito-borne diseases. They also conducted a hands-on activity where the children learned how to identify mosquito life stages. The children were very engaged and enjoyed the visit. The SWCMCD staff members were impressed by the children's knowledge and enthusiasm for learning about mosquito prevention.



Students show their mosquito activity books.

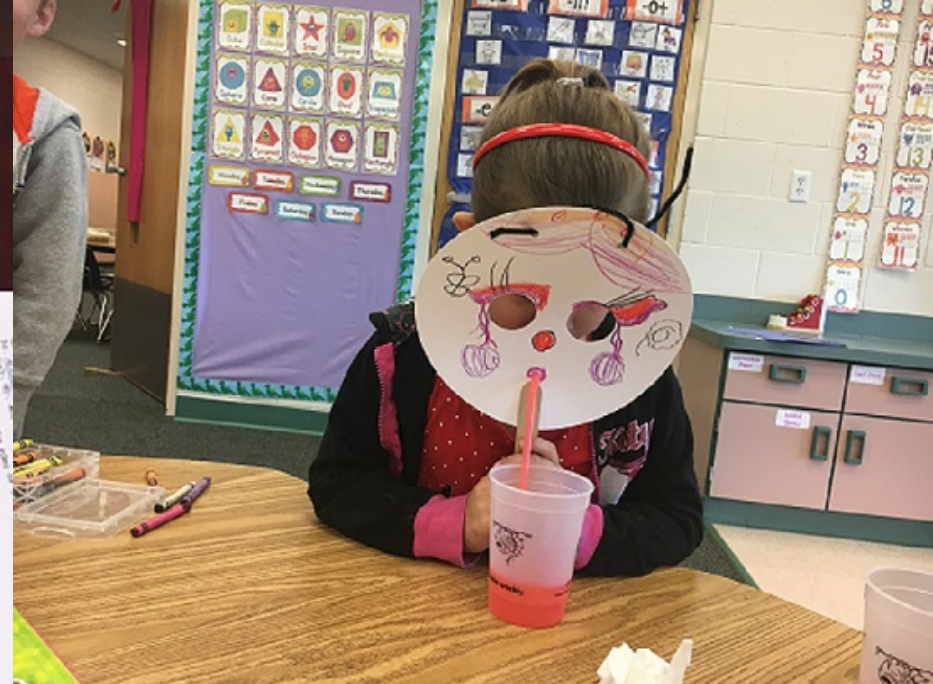


SWCMCD representative Cynthia Dye poses and interacts with the class.

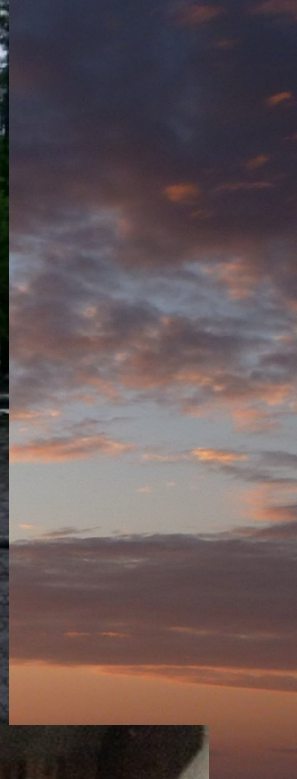


**MARK DOUGLASS**  
 Cartoons and Cartoons

Cartoonist and author of the popular cartoon series "The Adventures of Mark Douglass". His work has been featured in numerous publications and is highly praised for its humor and creativity. Contact: 1-800-555-1234









- We will call before we spray
- Enter your name

Too windy. No routes sprayed today.

Service Request Sign Up

*Click Here to Submit a*  
**SERVICE REQUEST**

Spray Notification Sign Up

**Sign Up**

NOTE: You will receive an email that will be used to confirm your email address. Please make sure that you respond to that email as instructed by clicking on the link in the body of the email. You will then receive an email confirming that your subscription

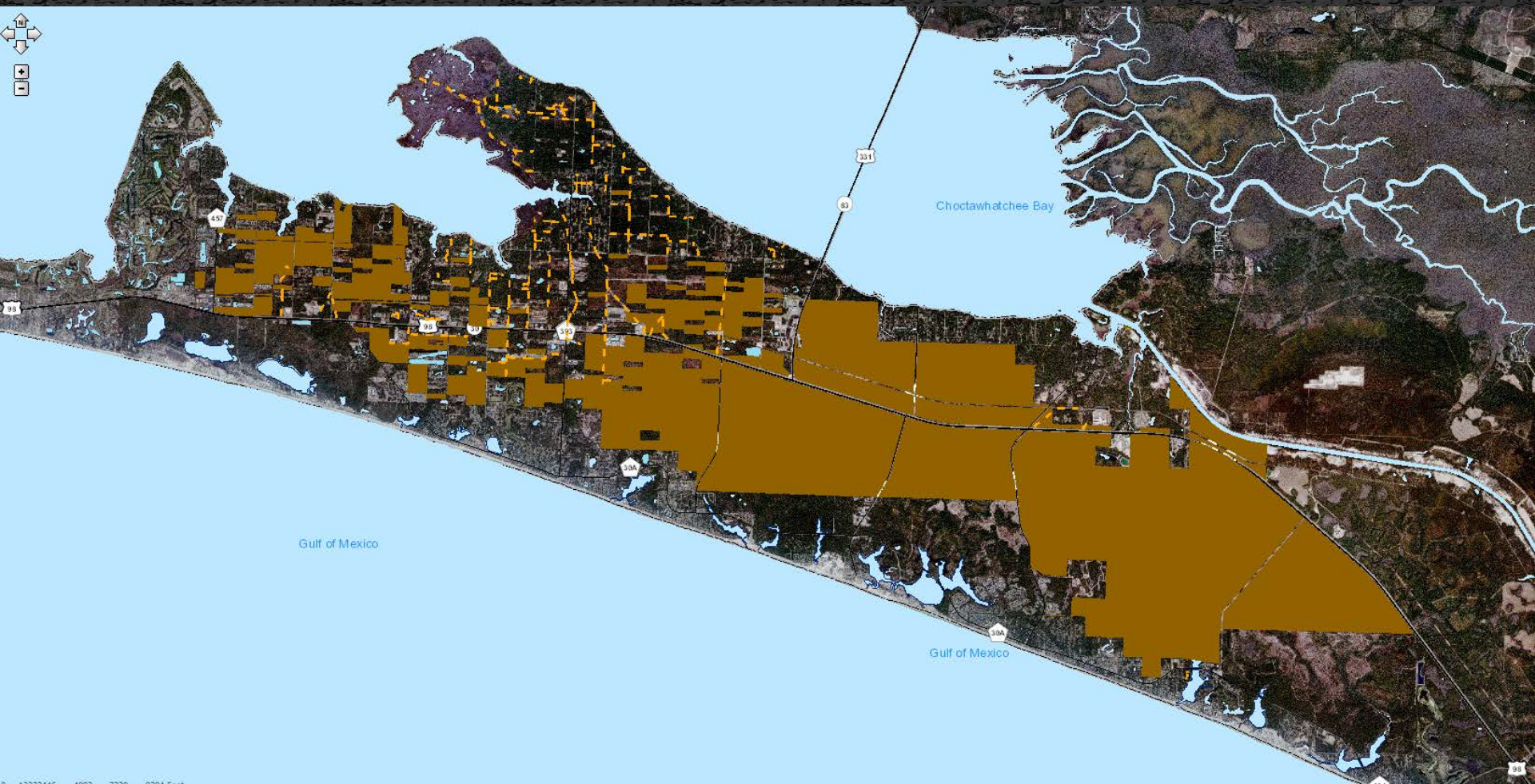
## Call System

Will call at certain time every evening

Anyone living within inside the spray routes scheduled to be sprayed that evening will be notified by email or phone call.



# Point Washington State Forest “Environmentally Sensitive and Biologically Productive”









Reply after first submittal of Arthropod Control Plan on 2/ 18/16

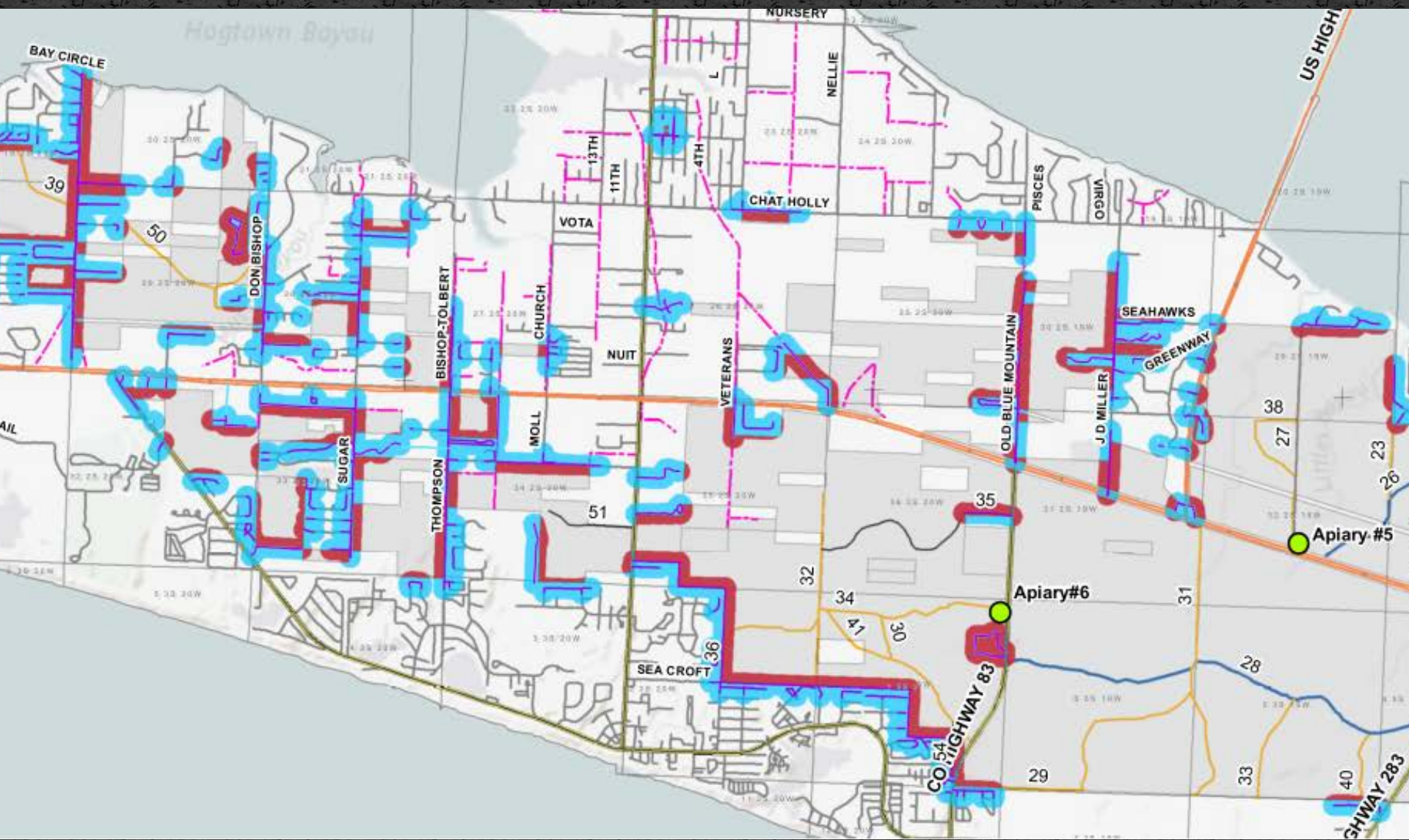
Any control on the State Forest utilizing adulticides must comply with the Florida Department of Agriculture guidelines. Any adulticiding on Point Washington State Forest may be done only in the event of a public health emergency and/or bioterrorism as ordered by the Florida Public Health Service, the Florida Department of Agriculture, and/or the Florida Forest Service

### Final Draft of Arthropod Control Plan

5. Ground-based adulticide is approved utilizing the listed chemicals. However, adulticide may ONLY be applied on state forest property in the areas indicated on the attached maps. Specifically, ground adulticide may only be applied in the WUI around inhabited and/or permanent structures. Adulticide drift into the forest from these identified areas is limited to a maximum distance of 300 feet.

Future housing adjacent to the forest that is not on the preapproved map may be treated using adulticide pending the drift would not enter more than the maximum distance of 300 feet of the State Forest boundary. Any other use of adulticide outside of the areas on the attached map(s), including the interior of the forest, is prohibited. If an adulticide application is requested by the SWCMCD that is not on the preapproved maps, the FFS must have the notification at least 48 hours in advance of any planned use.









Florida Mosquito Control Association  
Tallahassee Days



# Yellow Flies



## South Walton County Mosquito Control District



### Black Sticky Ball Instructions

- Purchase a beach ball or use an empty gallon milk or bleach container.
- Paint the beach ball or container black.
- Purchase Insect Trap Coating also called Sticky Stuff from a local hardware store.
- Coat the ball or container with the insect trap coating.
- Hang the ball or container in the shade, 3 to 4 feet off the ground, so it will swing & pets cannot touch it.
- Re-coat as needed.

Yellow flies are attracted by the sphere shape, the black color and the swinging movement.





# Black Balls-Yellow Flies





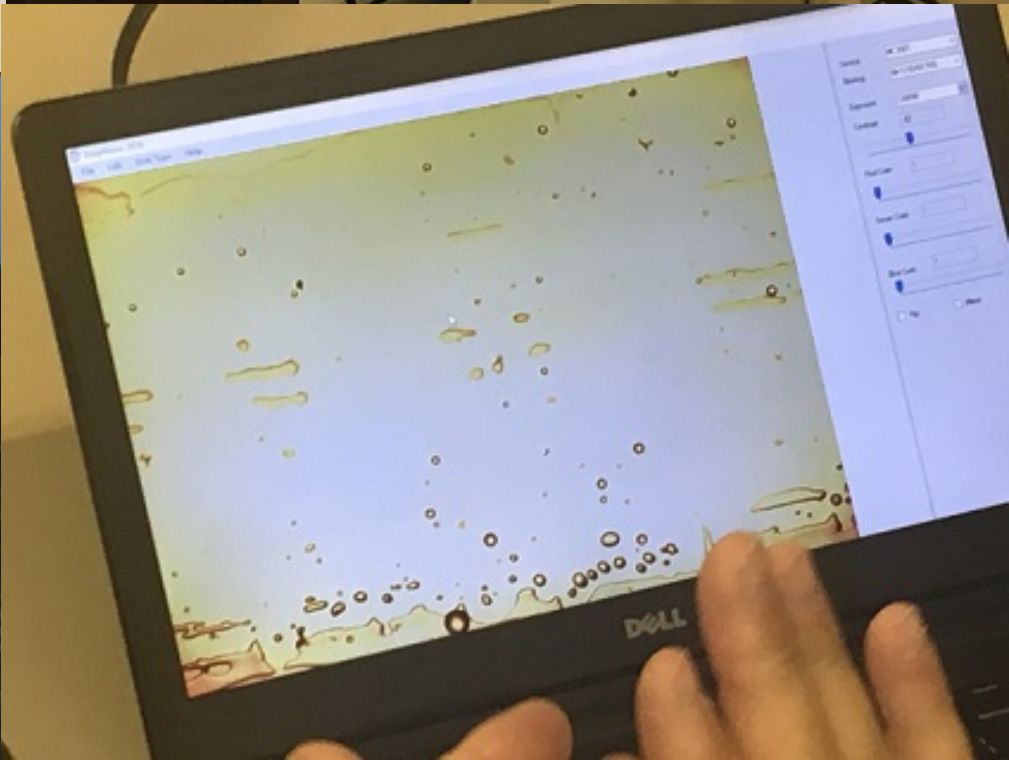








# Adulticide Trials









# Questions-See me after the metting



## STINKY'S POMPANO TOUR

April 1st  May 15th

ry Lebakke	4.49	Youth:
ott Brothert	4.13	Aggregate:
ake	79	Most Days:
ott	42	Most Fish:
Y		Bag Limit:

ERMATE MARKER OR SHARPS