An Day In The Life of a Director Chatham County Mosquito Henry Lewandowski Control

Introduction

Ideally:

- Director has minimal involvement in routine operations
- Developed programs are pushed to the lowest level possible

Management is then free to:

- √ Work externally
- ✓ Analyze the organization

1. External Liaison - News Media

Savannah Morning News of a mystery, but

Sunday, June 20, 2004 • 155th Year, Issue 156 • www.savannahnow.com • \$1.25

By Bret Bell

912.652.0456 • bret.bell@savannahnow.com

whose moss-draped visage Savannah, are under attack from tiny insects that are turning green their entire life on the live oak - have leaves brown throughout the Historic

City foresters started to notice the Kermes scale outbreak about four live oaks, though they do stunt tree weeks ago, and conditions have steadily deteriorated into the worst

infestation anyone can remember.

Many of the shade trees on Oglethorpe Avenue and Bay Street are now tinged with tan, as are pockets of trees he city's majestic live oaks, throughout downtown.

While most of the leaf die-off has is one of the very symbols of been limited to upper branch tips, Kermes scales - tiny insects that spend feasted on huge swaths of some canopies, giving the trees a diseased look.

Such outbreaks rarely kill mature

see BROWN, page 7A

A graphic explains the life cycle of Kermes scales. Page 7A

Scott Bryant/Savannah Morning News photo

officials have several theories.

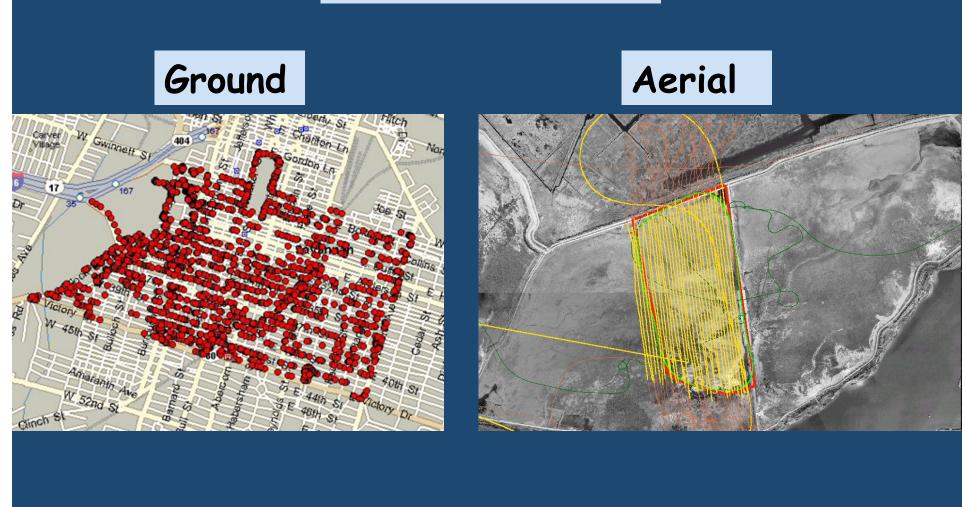
The leading one: Heavy aerial mosquito spraying last year, prompted by the West Nile virus threat.



"To residents, I think trees create the character of Savannah If you took away our squares and trees, we would be like too much of everywhere else in the country."

1. External Liaison - EPA Report

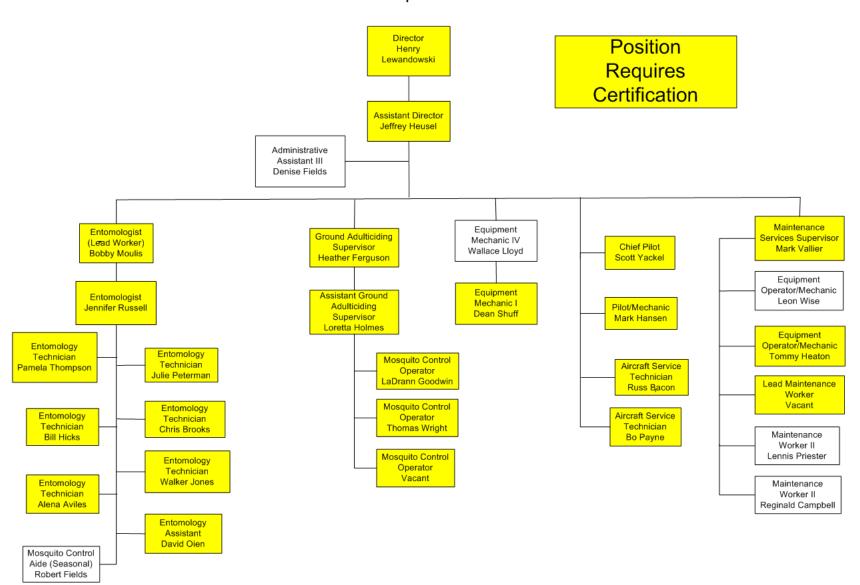
Targeting



EPA Report

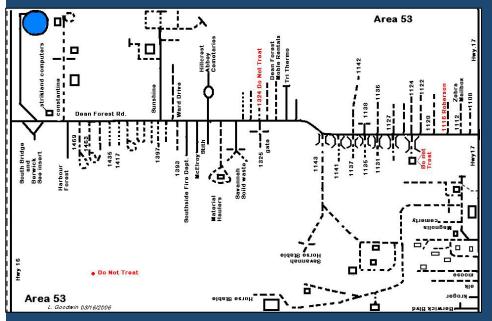


Chatham County Mosquito Control
Organization Chart
September 2008



Ground Control Protocols





AREA 53 SPECIAL INSTRUCTIONS Do not treat: Within 100 feet of fish bearing areas 1324 Dean Forest Road. (L.M. 6/85) Be sure to treat: 1116 Dean Forest Road (J. Constantine) 5608 Silk Hope Road so they can give you directions to their house. City of Savannah Horse Stable located on Dean Forest Road at sharp curve. (Key) 1131 Dean forest Road (It is ok to drive in the yard.)

RESTRICTED USE CLASSIFICATION
Due to Acute Fish Toxicity
For retail sale and use only by Certified Applicators or persons
under their direct supervision and only for those uses covered by
the Certified Applicators Certification.



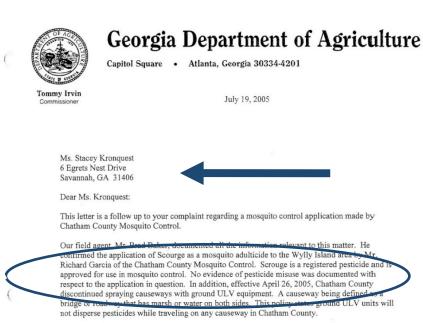
SCOURGE® INSECTICIDE
with RESMETHRIN/PIPERONYL BUTOXIDE 4% + 12% MF FORMULA

Specimen Label

PURPOSE: To Prevent Reoccurrence	Page 1 of 3
This report involves: (select one "x")	
Personal Injury	Vehicle Accident
Damage occurred to: (select one "X")	
County equipment	County property Other
Employee name:	
Department / Section:	Vehicle #:
Date of Accident / Injury:	Report date:
Day of week occurred:	Time of accident:

Records

Helo Aerial Missions	 ULV SUPERVISOR'S REPORT											
D ate	Wind DirectionSpeed				Γ	ate: Aug	ust 2	26, 20	004			
■ N102 CQ ■ N241JH E. Scott Yackel 25111246	Malathion Altosand Trumpet Golden Bear				Supe	rvisor: H	eath	ner Fei	rgus	son		
Hobbs Stop	Aqua-Reslin 🔲 XR-G		n:	omiat 4	±4 = 1 ·	98 oz./acre		Can		_ 1 0	8 oz./ac	wa.
Hobbs Start	Other:		DI	omist 4		Time	:	500	urge	- 1.9	o oz./ac	re
Aurice warrest montage in the resemble of the contract of	Amount Used	Unit #	Driver	Area		Out B	iomis	st Sco	urge	Con	npleted	Comments
	C Police FtPulaski DOT USFW		Heather Ferguson	38	1900		\boxtimes		Ī		<u> </u>	
ther:	<u> </u>		Loretta Holmes	42	1800		\boxtimes					
asks Accomplished: Inspec	tion Photos Larviciding Adulticiding		Richard Garcia	49	1800			<u> </u>	_			
ther:		2301	Thomas Wright	36	1900		\bowtie		┙			704 River Road was not treated because of soft sand
												Also Huckleberry was not
												treated because police had
												area blocked off.
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		Specia Comm Equip Vehicle	ment Failures:					-		ŕ		annen Drive
		2303 A/C work only on high setting.										
	1											
												
Air Crew	Flight Time SDB											
	County Mngr											
	DOT [
		Remai Ladrai	rks: nn Goodwin out o	n fam	ily sick	leave.						



approved for use in mosquito control. No evidence of pesticide misuse was documented with respect to the application in question. In addition, effective April 26, 2005, Chatham County

If you have any questions, please feel free to contact us.

Sincerely,

Tommy Gray
Ag Division Director
Pesticide Section

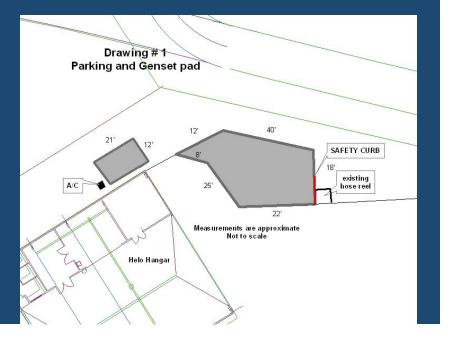
Cc: Mr. Brad Baker
Mr. Henry Lewandowski

1. External Liaison - Board of Commissioners









External Liaison - Health Department



24 Oglethorpe Professional Blvd. (31406) P.O. Box 15879 www.gachd.org Phone: 912-644-5217

W. Douglas Skelton, MD District Health Director

NEWS RELEASE August 24, 2007

Contact: Ginger Heidel Director of Public Relations 912.644.5217

Third Location Tests Positive for West Nile Virus Activity in Mosquitoes

All Chatham County Residents Encouraged to Prevent Mosquito Bites

CHATHAM CO., GA— A pool of mosquitoes collected from a third Chatham County

Chatham County Mosquito Control will continue spraying mosquitoes throughout the county, and residents can expect to see the agency's bright yellow, low-flying aircraft in the skies frequently.

> West Nile Virus is a potentially serious illness usually spread by the bite of an infected mosquito. Many people who become infected will have no symptoms, but severe cases can include high fever, headache, neck stiffness, disorientation, coma, and paralysis. No humans or animals have tested positive for West Nile Virus in Chatham County this year. There have been 6 human cases in Georgia. Nationwide, there have been 576 human cases this year, with 19

Chatham County Mosquito Control will continue spraying mosquitoes throughout the county, and residents can expect to see the agency's bright yellow, low-flying aircraft in the

The Health Departs w the 5 D's of prevention against mosquito bites:

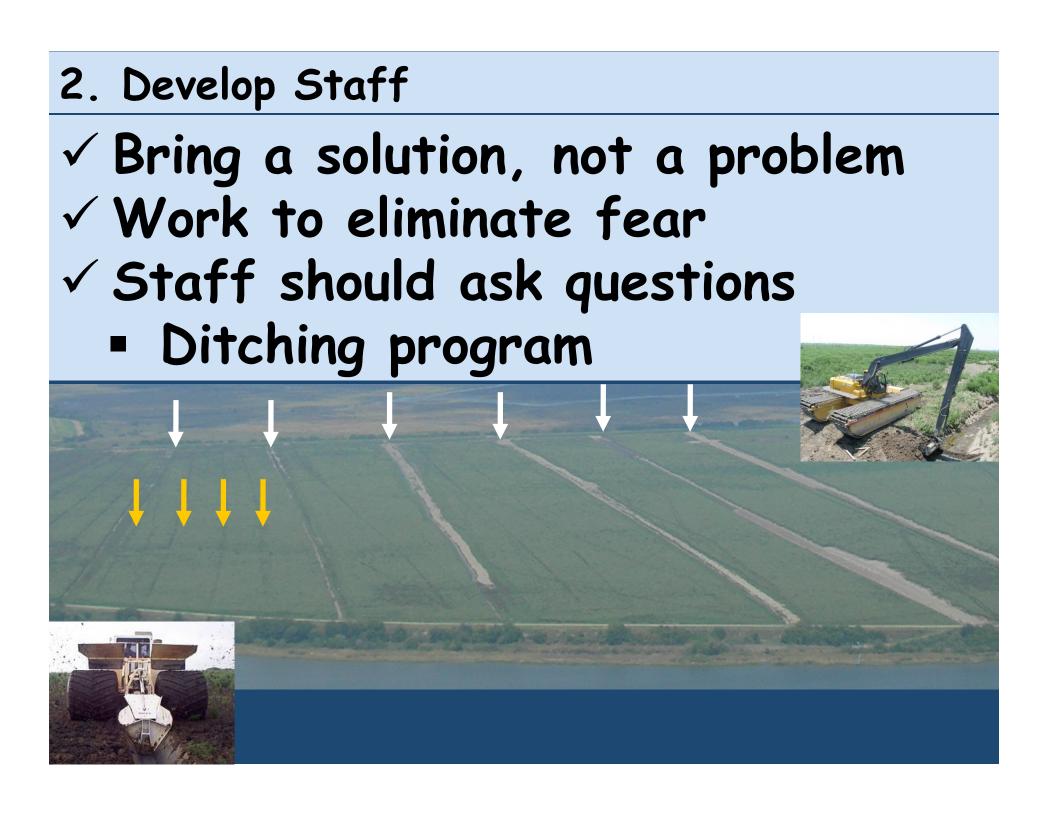
- Dusk Mosquitoes carrying West Nile Virus usually bite at dusk and dawn (see below)-
- Dawn Avoid outdoor activity at dusk and dawn if possible. If you must be outside, be sure to protect yourself from bites.
- Dress Wear long-sleeved shirts and pants to reduce the amount of exposed skin.
- DEET Cover exposed skin with a repellant containing the chemical DEET, which is the most effective against mosquito bites.
- Drain Empty any containers holding standing water, because they can be excellent breeding grounds for virus-carrying mosquitoes.

Georgia Department of Human Resources • Division of Public Health

Bryan County Camden County Chatham County Effingham County Glynn County Liberty County Long County

2. Develop Staff

- √ Listen
- √ Discuss plans, results, problems
- ✓ Small errors are great learning tools
- ✓ Learn to let go TQM principals



2. Develop Staff

- ✓ Training programs are a reward
- Encourage participation in meetings and symposiums
- ✓ Professional meetings stimulate personal growth

3. Develop and Control the Budget

✓ Provide tools to get the job done

Budget Meeting August 13, 2008

✓ Spend According to the plan

2008 Priority

Delete

,	FY 2008-2009 End of Year Priori		C1-4'
	Items	Amount	Cumulative
	Scourge Adulticide	\$98,065	\$98,065
	LCD Projector for Conference Room	\$1,700	\$103,365
	Computer for Conference Room	\$2,500	\$115,065
	Misc Projects	\$4,000	\$112,565
	XRG Larvicide	\$22,804	\$137,869
	Facilities Maintenance Software	\$2,500	\$101,665
	Replace Hallway/ULV carpet area	\$5,200	\$108,565
	Truck Mounted ULV Spray System	\$28,000	
	DODD Training	\$5,420	\$171,289
10	Shop Mechanic Training	\$2,170	
11	Semi Rental	\$1,275	
12	County Vehicle Maint Parts/Labor-Fleet	\$2,000	\$176,734
	GMCA Training	\$2,000	
14	Sentinel Chicken Testing	\$10,000	\$188,734
15	Benchmark Trip to Florida	\$1,195	\$189,929
16	MAMCA Planning	\$500	\$190,429
17	Fast Battery Charger	\$1,100	
18	Breakroom Cabinets (expended FY 2007/2008)	\$5,500	\$195,929
19	Paint Stain Coop	\$2,500	\$198,429
20	Illuminate Flag Pole	\$4,500	\$202,92
21	Relocate Admin Generator	\$40,000	\$242,929
Exp	enditures		
Begi	nning Deficit		\$158,000
Unle	eaded		\$15,000
Dies	el	The State of the S	\$10,00
Jet A	1		\$30,00
Avg	as		\$2,00
Γrun	mpet		\$20,00
Tota			\$235,00
Reci	uperated funds		\$242,92
	1'.		0227.00
Expe	enditures		\$235,00





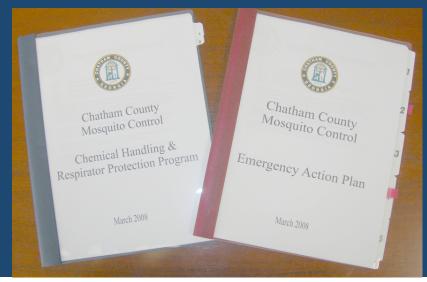
- a. Hire
 - ✓ Interview Teams & Questions, Objective Process
- b. Fix or Fire
 - ✓ Fix or Fire, Consult with Human Resources!

- c. Become Indispensible to Tax Payers, Elected Officials, County Manager, w/o growing in size
 - 1. Maintenance/Safety

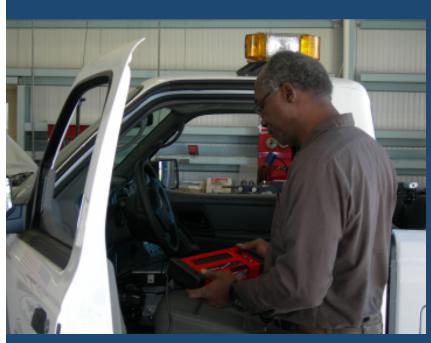








- c. Become Indispensible
 - 2. Vehicles/Equipment



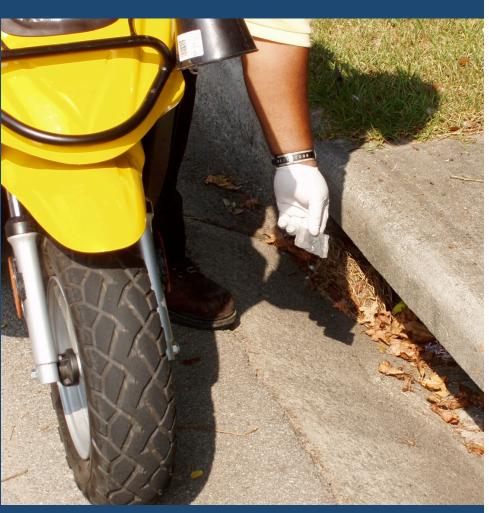






- c. Become Indispensible
 - 3. ULV/Scooters





- c. Become Indispensible
 - 4. Aviation Surveillance/Treatment + Police & Fire











c. Become Indispensible 5. West Nile Virus adaptations

ADAPTATIONS FOR WNV SURVEILLANCE AND CONTROL IN CHATHAM COUNTY

HENRY B. LEWANDOWSKI, JR. AND ROBERT A. MOULIS

Chatham County Mosquito Control, 65 Billy B. Hair Drive, Savannah, GA 31408

I. INTRODUCTION

coastal county in Georgia occupying Health Department staff, the outcome in approximately 438 square miles. The area Chatham County seemed disappointing: 27 includes a variety of aquatic and terrestrial birds, 67 mosquito pools, 6 sentinel chickhabitats, such as coastal barrier islands, ens and I horse tested positive for West Nile urban landscape, and xeric sandhill regions. virus. Nine human cases (one fatal) of West Thirty-nine species of mosquitoes are Nile fever/encephalitis were reported. For known to occur in the county.

in Chatham County in 2001; however, sur-results. A comprehensive review of the West veillance and control program changes to Nile virus surveillance and control program deal with the developing disease threat began in September 2003. began in 1999. As information about West Nile virus epidemiology was acquired, surveillance and control methods were adapted so that the following programs were in place at the start of the 2003 mosquito season. Our sentinel chicken surveillance program, veillance and control program was evaluoriginally intended to detect Eastern ated. In order to test for pesticide Equine Encephalitis virus in limited rural resistance, our review began by contacting areas of the county, was expanded to moni- Dr. William Brogdon at the Centers for Distor West Nile virus activity county-wide espe- ease Control and Prevention. Culex quinquecially the urban area of Savannah. Mosquito fasciatus egg rafts were shipped and surveillance was accomplished primarily pesticide resistance tests were conducted on with gravid traps that were placed at twelve two local populations of this species. Analyfixed locations around the county. Addissis of the two populations showed 64% and tional gravid traps were temporarily 74% less susceptibility to malathion, and deployed that year in neighborhoods where 20% and 40% less susceptibility to perinfected birds and mosquitoes were col- methrin when compared with a known lected. In urban Savannah, catch basins insecticide-susceptible population of Cx. were treated with 150 day Altosid® Briquets quinquefasciatus. because these habitats are known or are potential larval developmental areas for virus activity, including infected birds, mos-Culex mosquitoes in other locations of the quitoes, and sentinel chickens that tested United States (Covell and Resh 1971, Hal- positive for the virus proved to be very usezelrigg and Pelsue 1980, Pfunter 1978). ful for our program. It showed a concentra-Ground and aerial spray operations specifi- tion of transmission activity in the main cally targeted Culex quinquefasciatus Say, but urban area of Savannah including the

and mosquitoes was the primary indicator used to initiate treatment. In spite of a mas-Chatham County is the most northern sive effort by Mosquito Control and District the effort expended, staff members were West Nile virus activity was first detected not satisfied with the West Nile virus control

II. COMPREHENSIVE PROGRAM REVIEW-2003

Every aspect of our West Nile virus sur-

Mapping known indicators of West Nile the finding of West Nile virus infected birds Downtown, Victorian, and historic districts,

d. Protocols & Policies

- √ General Policies
 - How many is too many
- ✓ Children, Bicycles & Guns
- ✓ Spray Protocol, Need vs. Demand

- e. Don't get complacent
 - ✓ Correspondence, Content and Appearance
 - ✓ Presentations
 - ✓ Don't give residents (our real boss) the runaround

5. Lead by Example

✓ Be on time

- ✓ Account for your time
- √ County vehicle use

6. Develop Mission/Operational Goals

No Disease Minimal Nuisance

Five Year Goals
Routine Operations

7. You are the Community

- Encourage Participation in Public Events



Hurricane Expo



School Career Days

- √Student Internships
- √SCAD Film Documentary

8. Most Important Responsibility

PICK UP THE CHECKS!



Thank You!

Questions?