

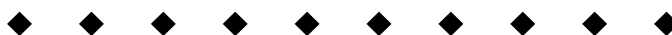
**Products
that maybe
used
for
mosquito
control
treatments**

Selecting the product to use for mosquito control is similar to a doctor determining which prescription should be prescribed to restore or maintain health. The product selected to treat a particular area will depend on the life stage of the mosquito, the genus and species of mosquito, the susceptibility of the mosquito being targeted, water quality, density of vegetation, size of area to be treated, density of mosquito population, water temperature, and weather.

LCMCD Control Compounds, 2012

Adulticide Materials

| Active Ingredient | Trade Name | Reg. No |
|--------------------------|-------------------|----------------|
| Malathion | Fyfanon ULV | 67760-34 |
| Permethrin | Kontrol 30-30 | 73748-5 |
| naled | Dibrom | 5481-480 |
| permethrin | Biomist 31-66 | 8329-43 |
| pyrethrin | Pyrocide 7067 | 1021-1199 |
| sumithrin | Anvil 10 + 10 | 1021-1688-8329 |



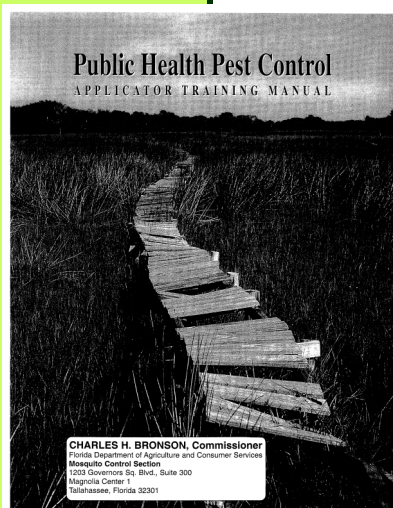
Larvicide Materials

| Active Ingredient | Trade Name | Reg. No. |
|---------------------------|-----------------------|-----------------|
| B. sphaericus | VectoLex WSP | 73049-20 |
| | VectoLex CG | 3049-20 |
| B. sphaericus and B.t.i | Fourstar | 83362-3 |
| | VectoMax CG | 73049-429 |
| | VectoMax WSP | 73049-429 |
| B.t. israelensis | VectoBac 12AS | 73049-38 |
| | VectoBac GS | 73049-10 |
| POE(2) isostearyl alcohol | Agnique MMF | 53263-28 |
| | Arosurf MSF | 8329-74 |
| | Agnique MMF G | 53263-30 |
| methoprene | Altosid XR Briquets | 2724-421 |
| | Altosid SR-20 | 2724-446 |
| | Altosid XRG | 2724-451 |
| | Altosid SBG | 2724-489 |
| petroleum hydrocarbon | Golden Bear GB - 1111 | 8898-16 |
| spinosad | Natular XRT | 8329-84 |
| | Natular G | 8329-80 |
| temephos | Abate 4E | 8329-60 |
| | ProVect Mini-G | 192-213 |
| | ProVect 4E | 769-678 |



Employee Training

| | |
|-------------|--|
| 01/17-19 | Aerial Fly-In |
| 01/30-02/03 | Dodd Plenary Classes |
| 02/03 | Hazardous Material Spill Response |
| 02/23 | Aviation Safety/Helicopter Egress |
| 03/01 | Family Medical Leave Act |
| 03/06 | Family Medical Leave Act |
| 03/09 | Family Medical Leave Act |
| 03/13 | Clarke Mosquito Workshop |
| 03/20 | Family Medical Leave Act |
| 03/26 | Family Medical Leave Act |
| 04/06 | CPR & AED |
| 04/09 | CPR & AED |
| 04/24 | Hazardous Material Spill Response |
| 04/27 | Right-to-Know, Hazardous Communication |
| 06/07-9 | Level V Incident Commander |
| 08/01 | FRS |
| 10/23 | DC-3 Mass Casualty Drill |
| 12/14 | Right-to-Know, Hazardous Communication |



Aerial Training

Every employee of the District, from the receptionist to the Director, must obtain and maintain a license in General Standards and Public Health Pest Control through the State of Florida, Department of Agriculture and Consumer Services (FDACS). This insures every District employee has a basic knowledge of pesticides and the biology of mosquitoes. The Director and pilots have additional licensing requirements. To maintain a Public Health Pest Control license each employee must renew their license by earning 16 continuing educational units through classes approved by FDACS within a 4-year period. There are additional mandated training requirements outside of the licensing for pesticide application, such as Right-to-Know and Hazardous Communication. The District strives to have knowledgeable employees that utilize the best management practices for the mosquito control industry.



Media Interviews & Publications

The Education and Communication Department strives to be an available resource for the general public and media.

| | |
|-------|--|
| 04/03 | Wink—How heat effects mosquitoes |
| 04/23 | News Press— |
| 04/24 | NBC-2, Joe Rhodes |
| 04/26 | Fox News |
| 05/22 | Today Show |
| 05/23 | Today Show |
| 05/23 | Wink |
| 05/29 | Naples Daily News |
| 06/01 | Shell Point Village Media, Fly Boys |
| 06/06 | NBC-2 |
| 06/06 | News Press |
| 06/07 | Wink |
| 07/01 | CBS Sunday Morning, Waging a losing war against mosquitoes |
| 07/13 | Boca Beacon: Liza Stroud, With rain comes mosquitoes |
| 07/18 | Gasparilla Gazette: Terry O'Conner, Rain and mosquitoes |
| 07/26 | Gasparilla Gazette: Terry O'Conner, The mosquitoes are back |
| 08/13 | Wink: Lois Thome, West Nile Virus |
| 08/14 | NBC-2: Josh Segal: West Nile Virus |
| 08/20 | Naples Daily News: Liza Freeman, West Nile Virus |
| 08/22 | USA Today: Elizabeth Weise, US Health officials brace for spike in West Nile Virus Cases |
| 08/24 | News Press: Kevin Lollar, Mosquito control fighting bloodsuckers |
| 08/24 | News Press: Kevin Lollar, West Nile Virus |
| 08/27 | News Press: Kevin Lollar, Mosquito borne disease surveillance |
| 09/03 | NBC-2: Mosquito borne disease monitoring in Lee County |
| 09/04 | NBC-2, Influence of Hurricane Issac on mosquitoes |
| 09/17 | Pine Island Eagle: Announcement of Pine Island Garden Club meeting with MC speaker and overview of mosquito operations |
| 09/17 | News Press: Frank Gluck, West Nile Virus |
| 09/26 | Wink, How MC determines where to spray |
| 11/02 | News Press: Kevin Lollar, SWFL fighting mosquitoes thanks to rainy October |
| 11/05 | Naples Daily News: Tim Aten—Why do we elect mosquito commissioners |
| 11/05 | News Press: Kevin Lollar, Recent rains have produced mosquitoes |
| 12/04 | News Press: Kevin Lollar, Mosquito update |



NBC-2 West Nile Story



Filming Today Show Segment



Tours & Presentations

The District provided over 43 tours and or presentations during 2012, with many individual tours not listed.



Edison Day of Discovery



Royal Palm Yacht Club



Great Outdoor Adventure Day

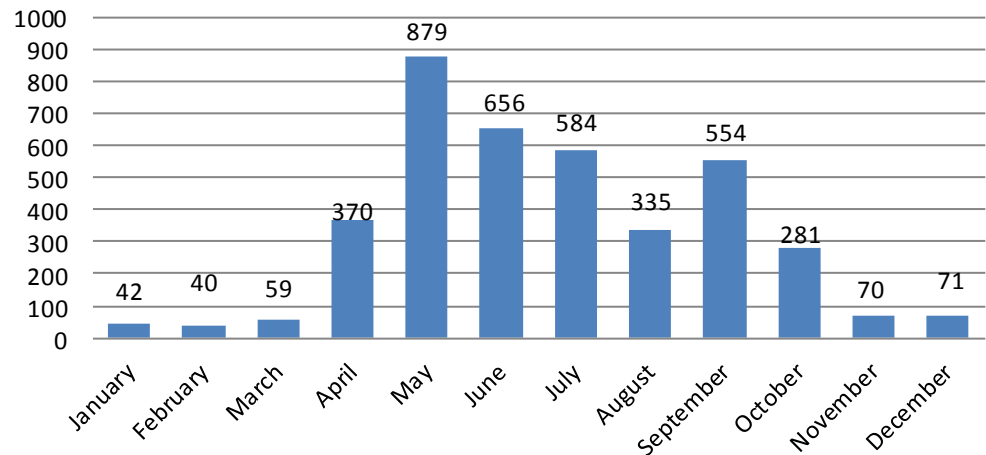
- 01/14 Edison, Day of Discovery
- 02/20 Royal Palm Yacht Club Tour
- 02/21 Green Thumb Garden Club Tour
- 03/10 Wings Over Water Booth and Presentation
- 03/12 British Visitors Tour
- 03/15 McGregor Baptist Church Tour
- 03/16 McGregor Baptist Church Tour
- 03/23 EPA Regulatory Tour
- 03/28 Arbovirus Surveillance and Mosquito Control Workshop
- 03/31 STEMtastic Showcase
- 04/11 USFWS
- 04/13 Lehigh Sr. High School Student Tour
- 04/16 White House Summit on Environmental Education
- 04/17 Fort Myers Downtown Rotary Club
- 04/25 ECHO Presentation and Training
- 05/04 Caloosa Rare Fruit Exchange
- 05/05 League of Women Voters
- 05/10 Representative Aubuchon
- 05/15 Department of Environmental Protection
- 06/08 Florida Beekeepers Association Annual Meeting
- 06/25 Lee County Health Department
- 08/19-24 Navy Entomologists
- 08/21 Middle School Science Teachers
- 08/22 Subcommittee on Managed Marshes
- 08/28 CDC
- 09/14 Community Helper Day
- 09/17 Church of God Youth Group
- 09/17 FGCU 50th Celebration of Rachel Carson's Book *Silent Spring*
- 09/20 Pine Island Garden Club
- 10/01 National Active & Retired Federal Employee's Assc.
- 10/02 Representative Cauldwell
- 10/14 Ding Darling Days
- 10/25 Leadership Cape Coral
- 10/26 River Hall Elementary
- 10/26 Hector Cafferata Elementary
- 11/02 South West Christian Academy
- 11/03 Aviation Days
- 11/03 3rd Annual Super Science Saturday
- 11/06 Sanibel/Captiva Kiwanis
- 11/29 Lee County School Board Science Coaches
- 11/30 FGCU Foundations Community Engagement Project Showcase
- 12/06 Great Outdoor Adventure Day at Lover's Key State Park



Service Requests

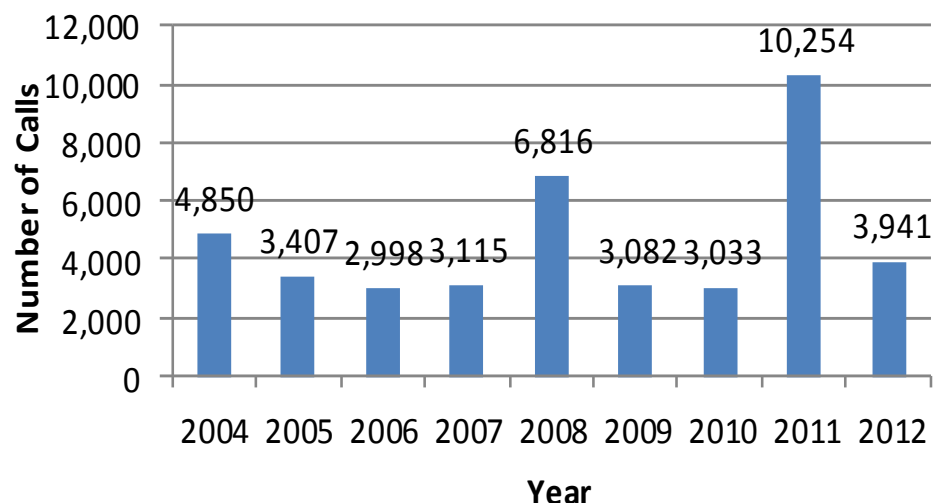


Number of Service Calls in 2012 by Month



The central life line for the District is communications. All calls are answered by a live person. If a service request comes in outside of regular working hours, an answering service will take the request. When residents call to report a mosquito problem, the receptionist logs the caller's name, phone number, whether the individual has a dog on the property and address. Once the call is logged, the request will be sent to an inspector to evaluate the severity of the problem. Service requests can also be logged any day and any time using the District website: www.lcmcd.org and clicking on Make a Service Request. The individual using this site to report a mosquito problem is prompted to give an email address, name, address, phone number, whether the individual has a dog on the property and any details the requester would like to report. Information on dog ownership is asked in order to protect our staff responding to the service request.

Service Request Calls



Environmental
Resource
Teachers

Eric Jackson

Brian Murphy



Florida Gulf Coast
University
Instructor

Neil Wilkinson



Aquatic Systems/Mosquito Education

Aquatic Systems/Mosquito Education

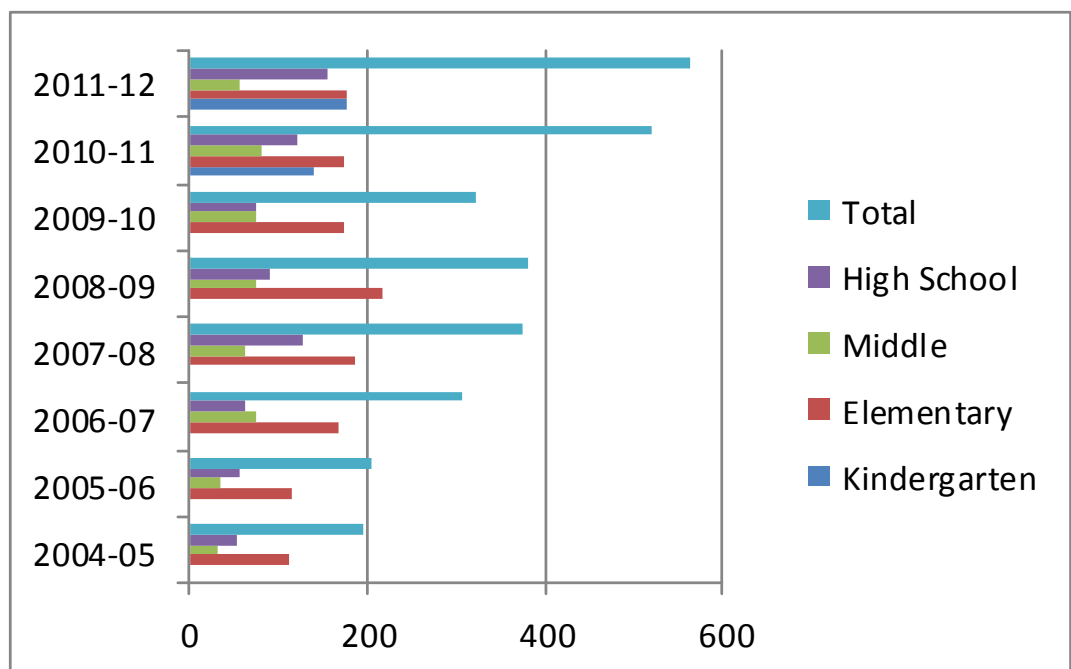


Mission Statement

To enhance the scientific and environmental literacy of the younger citizens of Lee County to augment their lifetime understanding of the science related to mosquito control.

The Lee County Mosquito Control District takes great pride in an educational program designed to teach our school age children about mosquitoes and the role that mosquito control plays in the local community. Our classroom programs are conducted in collaboration with classroom teachers. Programs are designed for grades five, seven, and high school chemistry and biology classes and support Florida's Sunshine State Standards in a variety of areas. Films, readings, slide/Powerpoint programs, discussions, art activities and lab experiences are utilized to teach the objectives of each five-day unit. These hands-on learning experiences are being offered county-wide to public and private schools. Students learn to identify different kinds of mosquitoes, their habitats and life cycles, and are familiarized with the techniques currently being used to control mosquitoes. Our public school outreach program reached approximately 10,000 students in over 350 classes for grade five, seventh grade science, and high school biology and chemistry classes. Each class participated in a week-long (5 periods) environmental science interdisciplinary unit relating the biology and ecology of mosquitoes to their disease carrying behavior and resulting human impacts and responses. In addition, instructors are active with local, state and national committees devoted to mosquito control and environmental education.

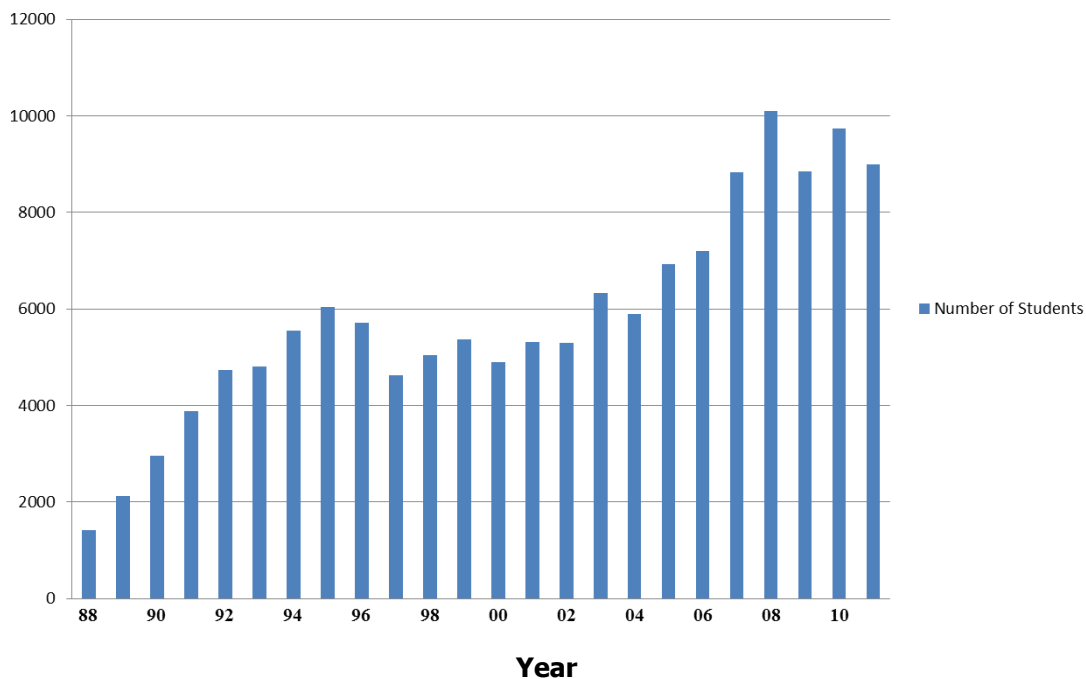
Number of Classes Taught



Aquatic Systems/Mosquito Education



Student Numbers



Welcome to Aquatic Systems Mosquito Education!

Our classroom programs are conducted in collaboration with classroom teachers. Programs are designed for grades five, seven, and high school chemistry and biology classes and support Florida's Sunshine State Standards in a variety of areas. Films, readings, slide programs, discussions, art activities and lab experiences are utilized to teach the objectives of each five-day unit. In addition, instructors are active with local, state and national committees devoted to mosquito control and environmental education.

Latest News

Latest News

Check out the new Aquatic Systems Mosquito Education site! Thanks to the creativity of [Think Tank Solutions](#), we have a fresh new look on the web! [Read More](#)



The AS/ME Website: www.mosquitoed.org

Florida Gulf Coast University Intern Program

Aquatic Systems/Mosquito Education



The Kindergarten Mosquito Program was presented to 15 elementary schools with 94 classrooms participating (roughly 1,700 students). The program survey results continue to come in and the feedback has been very positive.

The Aquatic Systems/Mosquito Education (AS/ME) intern program was initiated at FGCU in 2008. The District has continued to support this valuable program. Students are able to earn Service Learning hours needed for FGCU graduation. The interns assist with classroom teaching, maintaining equipment, collecting specimens for lab work, production of materials for student use and public outreach. Interns play a critical role in the Kindergarten curriculum offered. This year, the program sponsored 2 graduate assistants, 2 undergraduate interns, 8 mosquito education interns, 2 mosquito lead education interns, and 25 Kindergarten mosquito program interns. This has provided over 1200 intern hours working toward mosquito education in Lee County.



Lover's Key State Park

AQUATIC SYSTEMS MOSQUITO EDUCATION Internship Program

Exciting Opportunity
Seeking students interested in gaining real teaching, lab and field experience.

Applicants must be FGCU students in good academic standing. Space is limited so apply today!

Great Benefits

- Earn Competitive Pay
- Earn Service Learning Hours
- Apply for Short or Long Term Positions
- Flexible Hours
- Gain Real Classroom Skills and Knowledge
- Improve Your Communication Skills
- Gain Field Experience in Local Environments
- Join an Innovative, Dedicated, and Energetic Team

More Information
Internship Director
Courtney Dwyer Sarkozi
csarkozi@fgcu.edu

"Internship Positions are available in the field or in the classroom."

REQUIREMENTS:
Applicants must be FGCU students in good academic standing. The internship program is for Education, Science, Communication and Marketing majors. An on-site interview and application will be required to select to a background check (Richard Dwyer policy). For more details, please contact Courtney Dwyer Sarkozi at csarkozi@fgcu.edu or 941-7261.

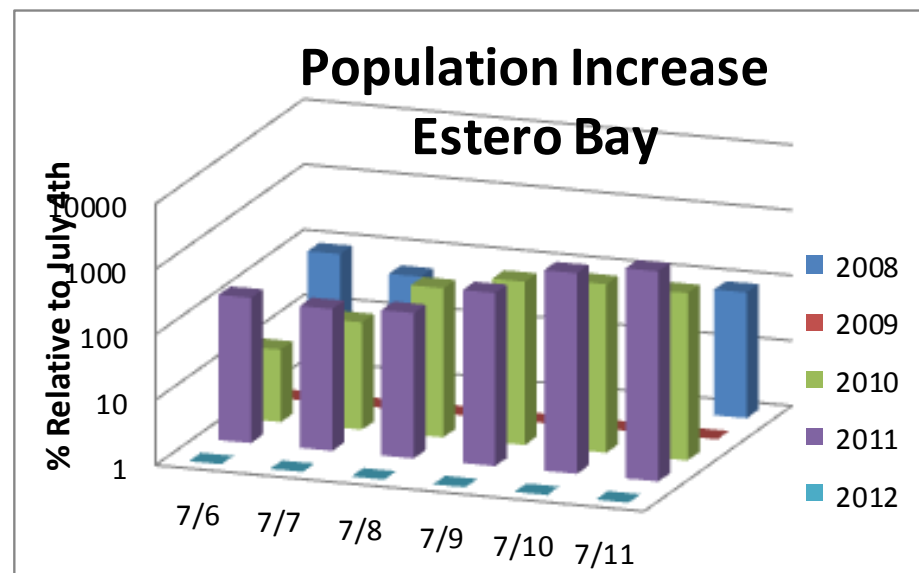
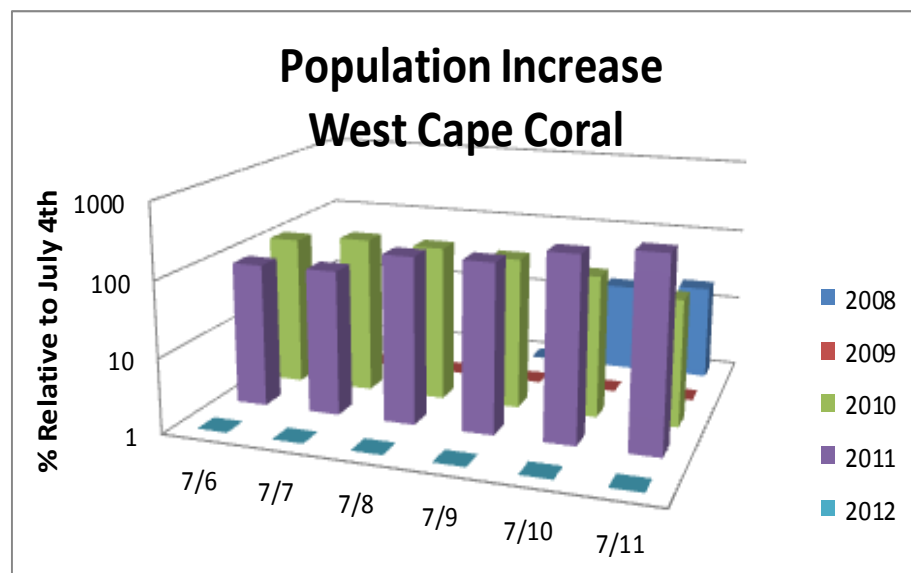
Design by Think Tank Solutions | www.ThinkTank360.com | (941) 457-7261



Tropical Storm Debby

Tropical Storm Debby provided an opportunity to treat State owned land for adult mosquitoes. It also allowed the District to evaluate the effect of adult mosquito control of State land to reduce adult mosquito re-infestation of bordering private property. Using truck trap collections from West Cape Coral and the Estero Bay areas, the District looked at 4 years of data around July 4th. Each year except 2009, the District had treated West Cape Coral and the areas surrounding Estero Bay to knock down the adult mosquito population for July 4th. The graphs below show how quickly the areas were re-infested by mosquitoes from State land. In 2012, one treatment of State lands was successful and did not require additional treatments of surrounding property for a much longer period of time.

The District hopes to convince the Florida Department of Environmental Protection that by allowing a minimum number of adulticide treatments to State lands, overall adulticide treatments can be reduced.



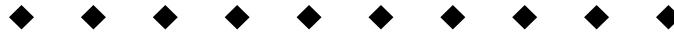
Milestones

Milestones

Five Years of Service



John Mullins, Carmen McKinney, Pat Ferrara,
Keith Lowe, Judy Thomas and Deborah Newton



Ten Years of Service



Tom Peters, Lenore Bishop, Jim McKeever, and Jake Sluski



Milestones

Milestones

Fifteen Years of Service



Richard Daugherty, Gary Bonnough, Bill Colon and Commissioner Mann



Twenty Years of Service



Robert Hedrick



Milestones

Milestones

**Twenty
Five
Years
of
Service**



Fred Schudel and Neil Wilkinson



**Thirty
Years
of
Service**



Mike Nichols and John White



Milestones

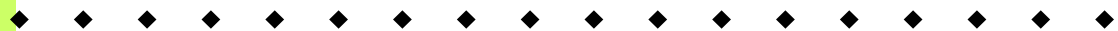
New Employees



Mike Vigus was hired March 12 as a pilot.



Angel Monges, Jr. was hired March 19
as a Supply Coordinator.



Edward Balletta was hired July 11
as a Transport Operator.



Retired Employees

Milestones Milestones



Robert A. Harper

"Hoop" retired on Jan 20, 2012 after serving over 31 years as an aviation mechanic.



Bob and Bob

Robert L. Harper

Bob retired on December 31, 2011 after serving 8 years as an aviation mechanic. He returned in 2012 to celebrate his retirement with fellow employees.



Milestones Milestones



Newly elected Commissioner Melissa Dortch participated in her first meeting as the District One representative at the December Board meeting. District One encompasses the areas of Lehigh Acres and Alva. Commissioner Dortch is eager to start learning more about mosquito and aquatic weed control and to get involved in representing her District. We welcome Commissioner Dortch to the Board.



Commissioner Sarah Larsen resigned from her position as District Two representative on the Board of Lee County Mosquito and Hyacinth Control Districts on December 14th in order to take a full-time position with State Representative Matt Hudson in Naples. The remaining two years of her term will be filled by an appointee of the Governor. We wish Sarah all the best in her new endeavor.



Noteworthy Events



Joan and Gary Heggemeier and Kelly Gaylord generously donated their time and talents to create an exceptional work of art in the form of a wall mural for the Education/Training Center for Lee County Mosquito and Hyacinth Control Districts. The many hours of time and effort used to plan and complete such a significantly large and highly valuable mural were given selflessly for the benefit of the Districts.

The mural dramatically captures the natural flora and fauna found in Lee County, Florida and provides a vivid reminder of the ecological richness of southwest Florida to all who enter the facility. The mural will be used as a tool to provide public education for students and other visitors to the Districts about the natural ecology of Lee County, and the missions of the Districts in controlling mosquitoes and aquatic weeds.

The Districts' Board of Commissioners presented a resolution to the artists thanking them for their generosity, immeasurable talent and diligence in providing this amazing gift. In the photo from left to right are Commissioner Pat Mann, Board Chair Sarah Larsen, Joan Heggemeier, Gary Heggemeier, Commissioner Mike Ellis, Kelly Gaylord, and Commissioner Larry Murphy.



Noteworthy Events



The first White House Summit on Environmental Education took place on April 16th. One hundred environmental education leaders and practitioners were invited for a series of panel discussions and workshops. Lisa Jackson, Administrator for the EPA and Arne Duncan, Secretary for the U.S. Dept. of Education welcomed guests. Participants had the opportunity to promote their successes and promote ideas. LCMCD & FGCU was represented by Neil Wilkinson, Environmental Education Instructor. Wilkinson took the opportunity to highlight FGCU's Environmental Mission and commitment to graduating ecologically literate students, their focus on Service and Civic Engagement and the many partnerships with local organizations and agencies that support FGCU's commitment to environmental stewardship.



At the 2011 Florida Mosquito Control Association (FMCA) Annual Meeting, Neil Wilkinson was elected to the Vice-President position on the Executive Board. At the 2012 FMCA Annual Meeting, Neil moved to the President-Elect position. James Burgess was elected to serve as the Southwest Regional Representative on the FMCA Board of Directors and Shelly Redovan was awarded a Presidential Citation in recognition of continued support of programs benefitting the whole mosquito control community.



LEE MEMORIAL HEALTH SYSTEM



District employees wanted to give back to the community and earn a mosquito t-shirt from the Blood Center. On August 2, employees got to give blood without having to travel or take off work. The Blood Mobile set up in the Quadrangle at the District.



Noteworthy Events

Removing old Guard Shack



The District upgraded the old Guard Shack to a Security Center for two key reasons. First, the Security Center is ADA compliant and secondly, the new building accommodates the increased security systems of the compound.



Aviation Updates

King Air C90



In August, the District bought a used 1978 Beechcraft King Air C90 twin turbo-prop from Hillsborough County Mosquito Control.

