

VOLUSIA COUNTY Public Works Department Mosquito Control Division

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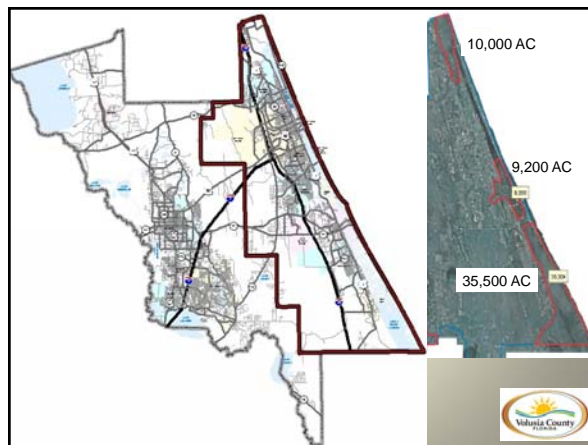
VCMC Core Mission

- Supported by 25 full time personnel.
- Special Workers (seasonals): (9) total; (4) Interns four.



VCMC

- The East Volusia Anti-Mosquito District formed in a local "Lions" club and passed by the State Legislature on June 11, 1937.
- Intent is to contend with massive influxes of salt marsh produced mosquitoes.
- The entire 500+ square mile district was covered with a five (5) man crew.



Mosquito Life Cycle



Mosquito Life Cycle



Time to completion variable.
5-10 days



Integrated Pest Management Program (IPM)

- Surveillance driven as mandated by Florida State Law: Chapter 388, F.S. and FL Administrative Code 5E-13.
- Source Reduction – from “Tip and/or Toss” to salt marsh work with equipment.
- Biological control – fish propagation and “seeding”.
- Larviciding and Adulticiding.
- Community Outreach and Public Education.



IPM – Disease Surveillance



Sentinel Chickens



IPM – Disease Surveillance



IPM – Nuisance Surveillance

- Light Traps



IPM – Source Reduction

- Salt marsh management and restoration.



IPM - Source Reduction

Hand Ditch Maintenance, routine & storm related



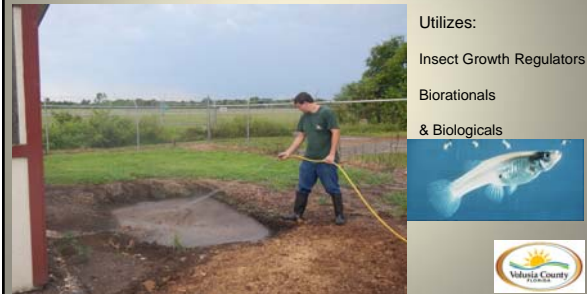
Integrated Pest Management Program

- Larval surveillance and larviciding.



Integrated Pest Management Program

- Larval surveillance and larviciding



Integrated Pest Management Program

- Adult surveillance and ULV aduclticing.

ULV = Ultra Low Volume

Typically, < 1 oz /AC or

"a shot glass over a football field"



IPM – Nuisance Surveillance

- Service Requests - <http://volusia.org/mosquito/>



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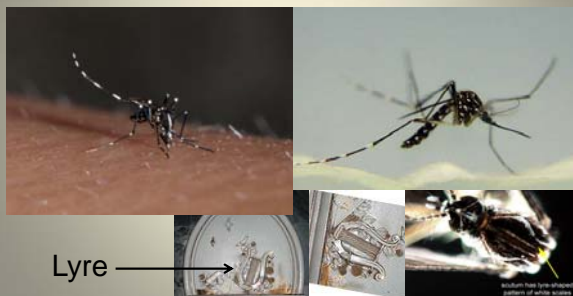
IPM - Source Reduction

- "Tip and/or Toss".



Current Events, Issues and Trends

- *Ae. albopictus* and *Ae. aegypti* ... “ankle biters”.



Lyre



Friday Aug. 9th

Mason
and
Berkshire

How many containers?






Total
containers?

20

17

Producing
mosquitoes

Current Events, Issues and Trends

- Container mosquito production.
- Imported disease – dengue & chikungunya virus.
- West Nile virus
- Increased use of biorationals.
- Increased cost of control formulations.
- Digital tools to enhance operational efficiency and expand communication with our constituents via the web.



Thanks – Questions?

