VOLUSIA COUNTY
Public Works Department
Mosquito Control Division

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Agenda

• Introduce Volusia County Mosquito Control (VCMC).
• Briefly discuss VCMC’s historical background.
• Provide an overview of our Integrated Pest Management Program (IPM).
• Address current events, issues and trends.

VCMC Core Mission

• Supported by 23 full time personnel
• Special Workers – two to four, Intern Program - six
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.

WPA workers dig miles of ditches by hand. 1940’s/1950’s: draglines and dynamite used. District purchased its first aircraft in 1949.

Early 1960’s: still using fixed wing aircraft for surveillance and treatment. DDT phased out in the mid 1960’s.
Integrated Pest Management Program (IPM)

- 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 – Nuisance Surveillance

- Light Traps
IPM – Nuisance Surveillance

• Service Requests - http://volusia.org/mosquito/

IPM – Source Reduction

➢ Salt marsh management and restoration.

IPM – Nuisance Surveillance

• Service Requests - http://volusia.org/mosquito/

IPM - Source Reduction

➢ Restoration partners.
IPM - Source Reduction

- Hand Ditch Maintenance.

- “Tip and/or Toss”.

- “Flush”

Integrated Pest Management Program

- Larval surveillance and larviciding.

- Utilizes:
  - Insect Growth Regulators
  - Biorationals
  - Biologicals
Integrated Pest Management Program

- Adult surveillance and ULV adulticiding.

ULV = Ultra Low Volume
Typically, < 1 oz/AC or
"a shot glass over a football field"

Current Events, Issues and Trends

• 2012 West Nile situation.
• Container mosquito production.
• Increased regulation – NPDES Pesticide permit.
• Increased use of biorationals.
• Increased cost of control formulations.
• Digital tools to expanding communication with our residents and enhance efficiency via the web.