


Aerial Mosquito Control Operations

The background of the slide is a photograph of an aerial mosquito control aircraft in flight at sunset. The sun is low on the horizon, creating a bright orange and yellow glow. The aircraft is white with a dark stripe along the fuselage. In the upper left corner, there is a circular graphic containing a mosquito silhouette, overlaid on a grid of crosshairs.

Malcom Williams Chief pilot AVCS
ADAPCO Vector Control Services
(VDCI-Vector Disease Control, Inc.)
950 N. Broadway, Suite B
Greenville, MS 38701
USA

Our Fleet of Aircraft

- *Piper Aztec PA23-250 (N76SR)*
- *Piper Aztec PA23-250 (N415CC)*
- *Piper Aztec PA23-250 (N2468M)*
- *Cessna 402 (N215RC)*
- Each aircraft capable of treating 30,000 - 60,000 acres in one evening
- Certified by the Federal Aviation Administration (FAA)
- Equipped with the Wingman™ GX aerial spray guidance system and Micronair rotary Atomizers.
- Equipped with the AIMMS-20 Weather monitoring system



Pilots

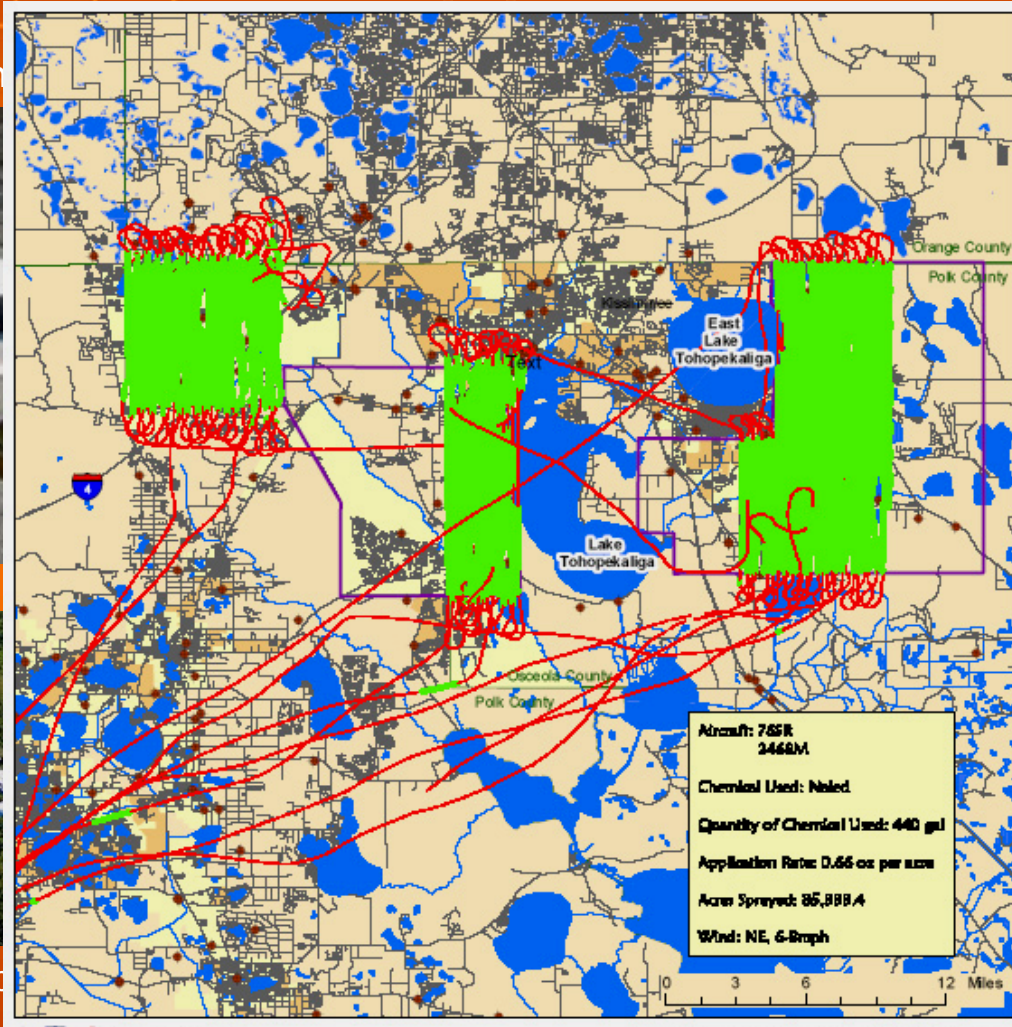
- All our pilots and Co pilots are full time Mosquito pilots.
- All are on straight salaries and not performance based.
- All together our pilots have Over 25 years and 15,000 hrs of aerial mosquito control experience.

Aircraft

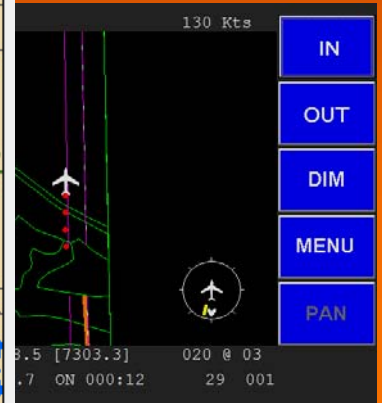
- All of our planes are certified by the FAA to meet or exceed FAA requirements for single engine performance over congested areas.
- This has been demonstrated to the FAA for each aircraft.
- Our planes are set up for aerial mosquito control only.

Technology Allows for a High Level of Application Accuracy

AIMMS-20 Weather



GPS Guided System



Ensures precise app



ary Atomizers

Real-Time Weather

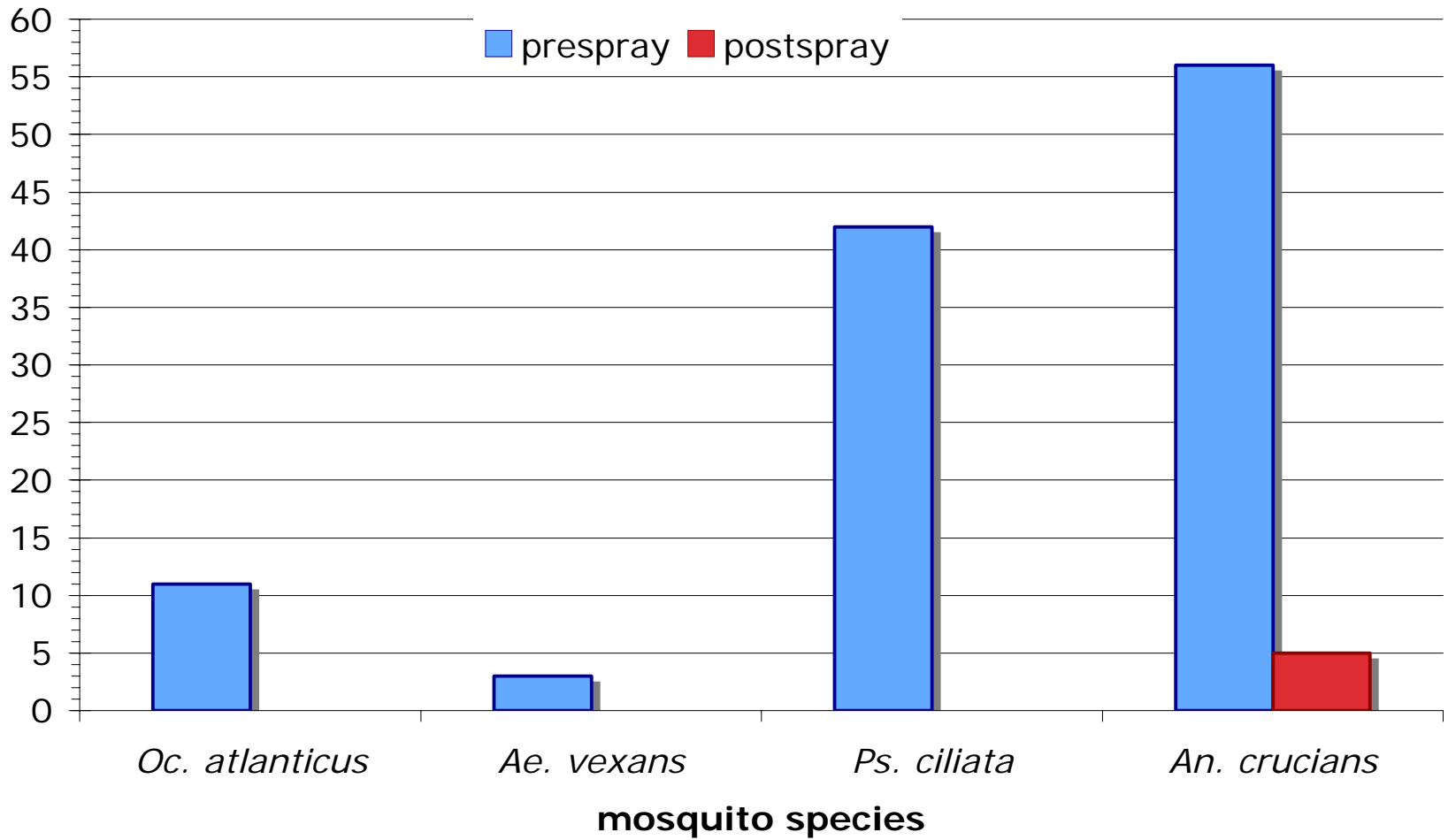
Data On-Board GPS Systems

Integrated Mapping Technology

AVCS Experience

- ADAPCO pioneered the Optimization drift technology to be used for mosquito control.
- Uses the USDA AG Disp. Optimization model.
- AVCS has been using this technology for around five years.
- This has given us the experience to work out the bugs and perfect the process.

Ware County Surveillance



Why have contingency contracts

- Many waivers and permits have to be in place before an application takes place. This takes time to implement.
- All preparations for facilities are put in place.
- Insurance certificates are put in place.
- GIS mapping of proposed areas are done.
- Gives a level of protection and another tool to be used in your program.

FAA Low Level Waivers And Congested Area Flight Plan

- Low Level Waiver maintained for all 48 Contiguous States
- Congested Area Flight Plans for Specific Contracts
 - Equipment Used
 - Application Method
 - Emergency Facilities
 - Pilot Qualifications
 - Maps of Possible Spray Areas

No certificate may be issued unless a completed application form has been received. (14 C.F.R. § 1.101, and 101)

US Department of Transportation
Federal Aviation Administration

APPLICATION FOR
CERTIFICATE OF WAIVER
OR AUTHORIZATION

Form Approved: O.M.B. No. 2120-0027
APPLICANTS - DO NOT USE THESE SPACES

Submit this Standard Form Approved - Explain under "Remarks"

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
CERTIFICATE OF WAIVER

ISSUED TO: VECTOR DISEASE CONTROL, INC.

ADDRESS: 286 FIFTH AVENUE
GREENVILLE, MS 38701

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED:
Mosquito abatement procedures in accordance with the special provisions attached to this waiver to be used only by Vector Disease Control, Inc., employees and personnel.

This Certificate of Waiver is only applicable for the cities, towns and settlements on file in this office. All other additional cities, towns, settlements will require prior approval to determine if additional special provisions will be needed.

For out of state operations please refer to paragraph 2 of the Special Provisions

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE: 91.119(b), 91.119(c)

STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE: This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any state law or local ordinance.

SPECIAL PROVISIONS

Special Provisions Nos. 1 to 24, inclusive, is set forth on the attached pages.

This certificate is effective from 03-10-2001, 1 hour after sunset to, 1 hour after sunrise 02-28-2003, but not excluding daylight operations as necessary, and is subject to cancellation at any time upon notice by the Administrator or his authorized representative.

BY DIRECTION OF THE ADMINISTRATOR
Ronnie W. Russum
ACTING MANAGER, JAN FSDO

SOUTHERN REGION
MARCH 19, 2001

FAA Form 7711-1 (7-74) DISTRIBUTION: Applicant, JAN FSDO, Florida FSDO-11, FSDO-18, FSDO-3K, Arkansas FSDO SWH1, Louisiana FSDO SW803 COORDINATION:

Advance Preparations

Contingency Plans

- Arrangements made with local airports
 - Fuel
 - Parking
 - Chemical Storage
- Expedited delivery of pesticides is planned
- FAA requests for
 - Low Level Waiver
 - Congested Area Plans



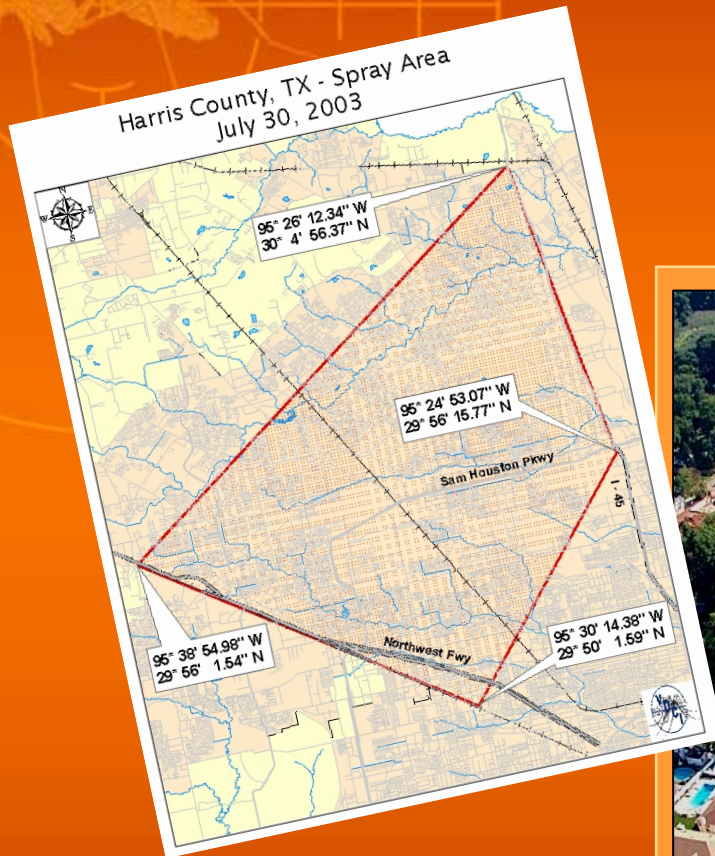
Contingency Contracts – 24 to 48 Hour Response Time

- Pre-Flight Aircraft
- Prepare Ground Support
- Relocate Aircraft
- Prepare GPS Spray Blocks

- Coordinate with Contracting Agency On-Site
- Site Surveillance
- Final Weather Test
- Pre-Flight Briefing



Spray Blocks Created and Site Surveillance Initiated



Aircraft and Application Equipment are Inspected



Systems are Calibrated

Micronair
nozzles



AIMMS unit

Consistently produces
20–50 micron sized droplets

Press Coverage and the Media



Ada County will spray to kill mosquitoes spreading West Nile (See a map of where the county plans to spray)

By Kathleen Kreller and Heath Druzin
Idaho Statesman

The Idaho Statesman | Edition Date: 08-18-2006

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[Printer Friendly Page](#)

Two small airplanes will buzz 300 feet over parts of Ada County on Monday and Tuesday nights, spraying an insecticide officials hope will help stem the "epidemic" of West Nile virus.

Ada County commissioners declared an emergency last week and on Thursday approved a plan to spray the insecticide Dibrom over about 50,000 acres of the county to kill adult mosquitoes. Aerial spraying is the "prescription" that's required to treat the West Nile problem, they said.

Two Idahoans have died from West Nile, and the virus was a contributing factor in the death of a third person Wednesday. John Shaw, a 66-year-old Elmore County man, died Wednesday night. He suffered from other conditions as well, officials said.

Idaho's tally of confirmed human cases of West Nile virus stood at 299 on Thursday; 35 of them are serious neuroinvasive infections.

"The mosquitoes are starting to get the upper hand," said Brian Wilbur, director of Ada County's pest control district.

Related Media

[Click here to see where the county plans to spray mosquitoes \(PDF - 127 kB\)](#)

Related Stories

[West Nile virus may be killing our squirrels](#)

Related Links

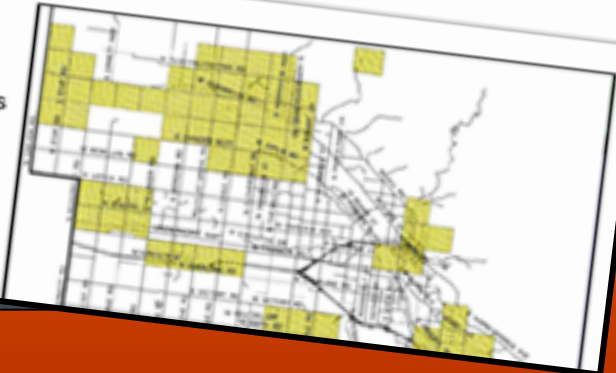
[Ada County - West Nile Virus Surveillance Program](#)

[Idaho Department of Health & Welfare - West Nile Virus](#)

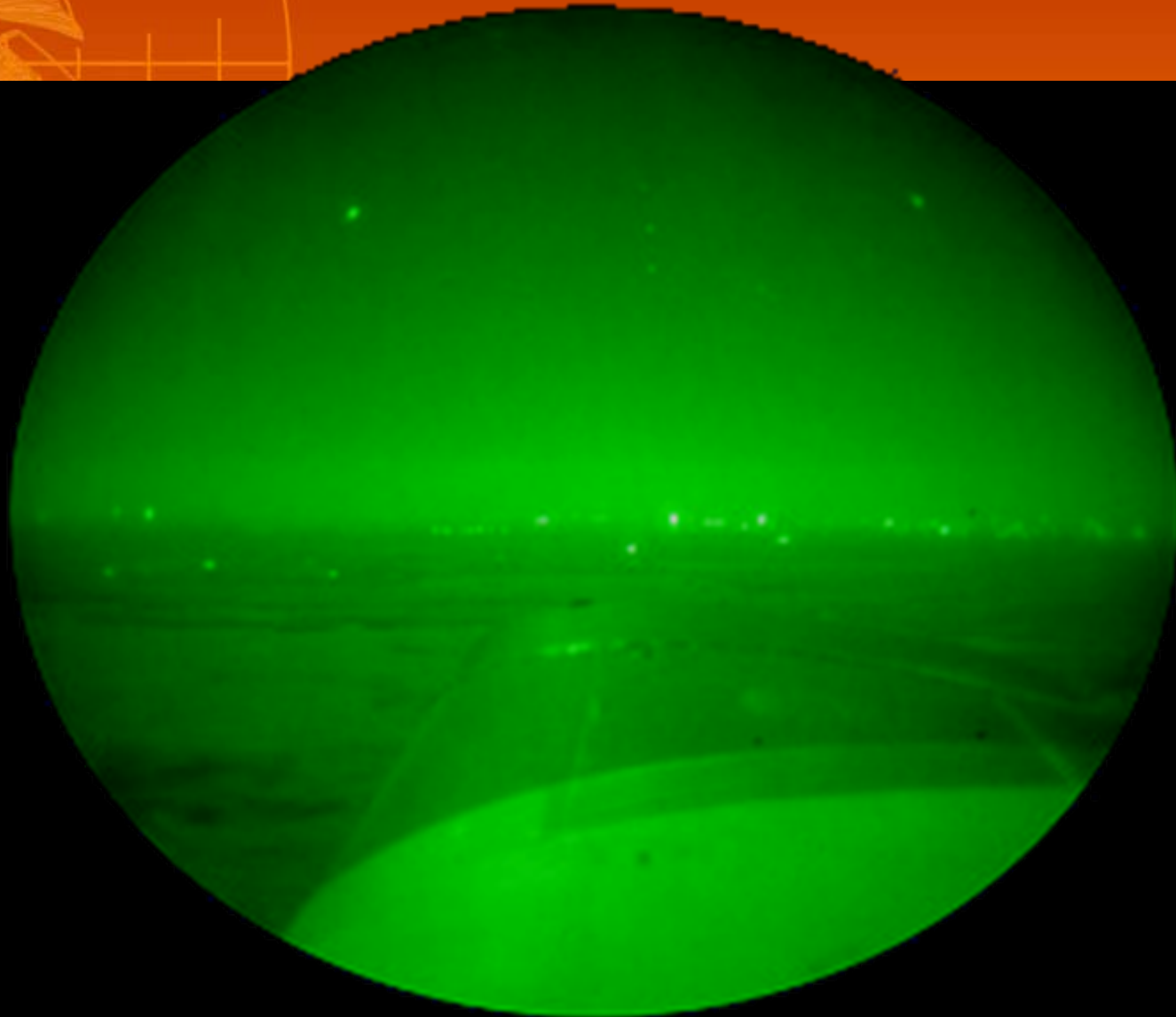
[Idaho Department of Health & Welfare - West Nile Virus](#)

[California West Nile Virus Web site](#)

[Click here for more local news coverage](#)



Pre-fly Spray Zones



Finally Get Some Flight Time



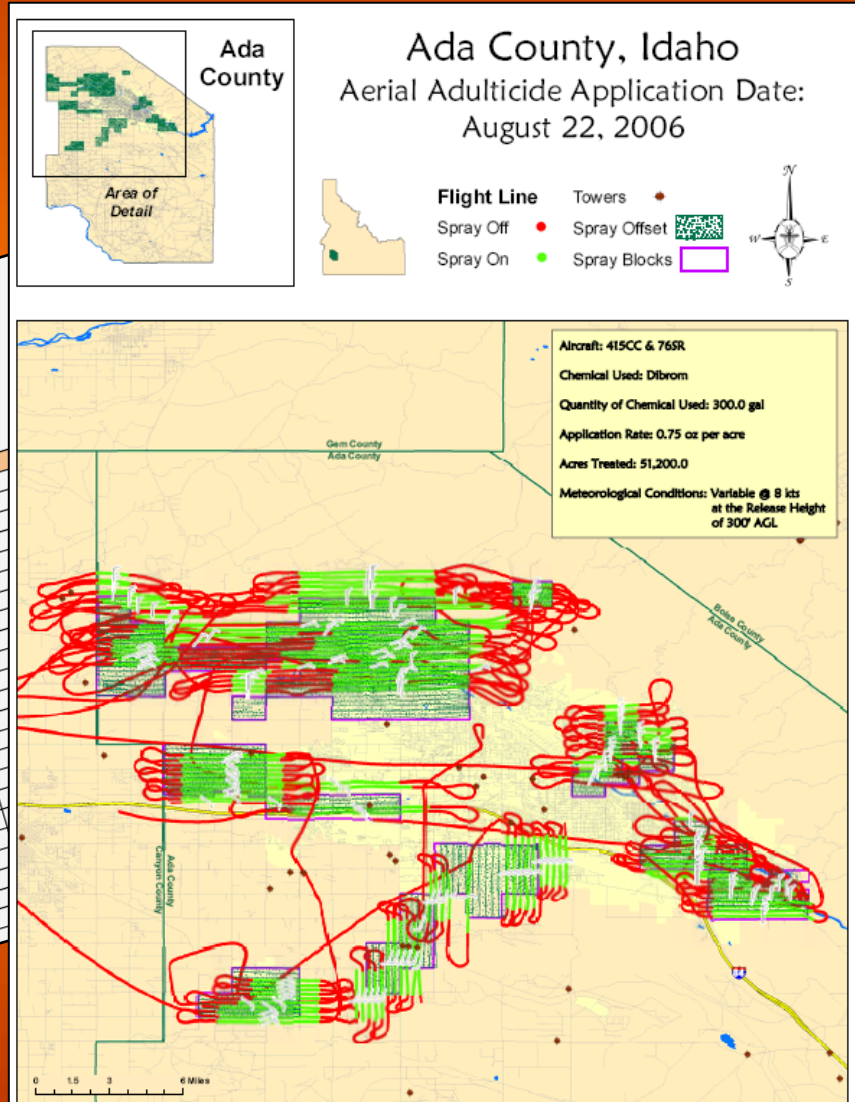
Efficacy Monitoring



Post Application Reporting

Vector Disease Control, Inc.
Post-Application Report

	Zone North	Zone South	Combined Zones
Customer	Ada County MAD	Ada County MAD	Ada County MAD
Date	8/22/2006	8/22/2006	8/22/2006
Type of Aircraft	Piper Aztec	Piper Aztec	Piper Aztec
Registration # of Aircraft	76SR	415CC	76SR & 415CC
Type of Application	Adulticide	Adulticide	Adulticide
Spray Swath Width	1000	1000	1000
Pilot	Malcom Williams	Jason Alred	Williams & Alred
Co-pilot	Roger Acker	Eric Williams	Acker & Williams
Spray Zone treated	Zone North	Zone South	
Quantity (gallons)	150.0	150.0	300.0
Oz/Ac	0.75	0.75	0.75
Acres treated	25,600.0	25,600.0	51,200.0
Time of Application Start	21:00	21:00	21:00
Time of Application End	0:45	1:15	1:15
Aircraft Indicated Speed	130 kts	130 kts	130 kts
Release Altitude	8 kts	300'	300'
Wind speed	70 & 360	8 kts	70 & 360
Wind direction	29C/12	70 & 360	29C/12
Temperature/Dew Pt	20:37	20:37	20:37
Sunrise	6:58	6:58	6:58
Sunset	Clear	Clear	Clear
Sky Condition			
Visibility			





Thank You



MONITOR 4

DESIGNED AND BUILT

BY

ADAPCO, INC.

What is it?

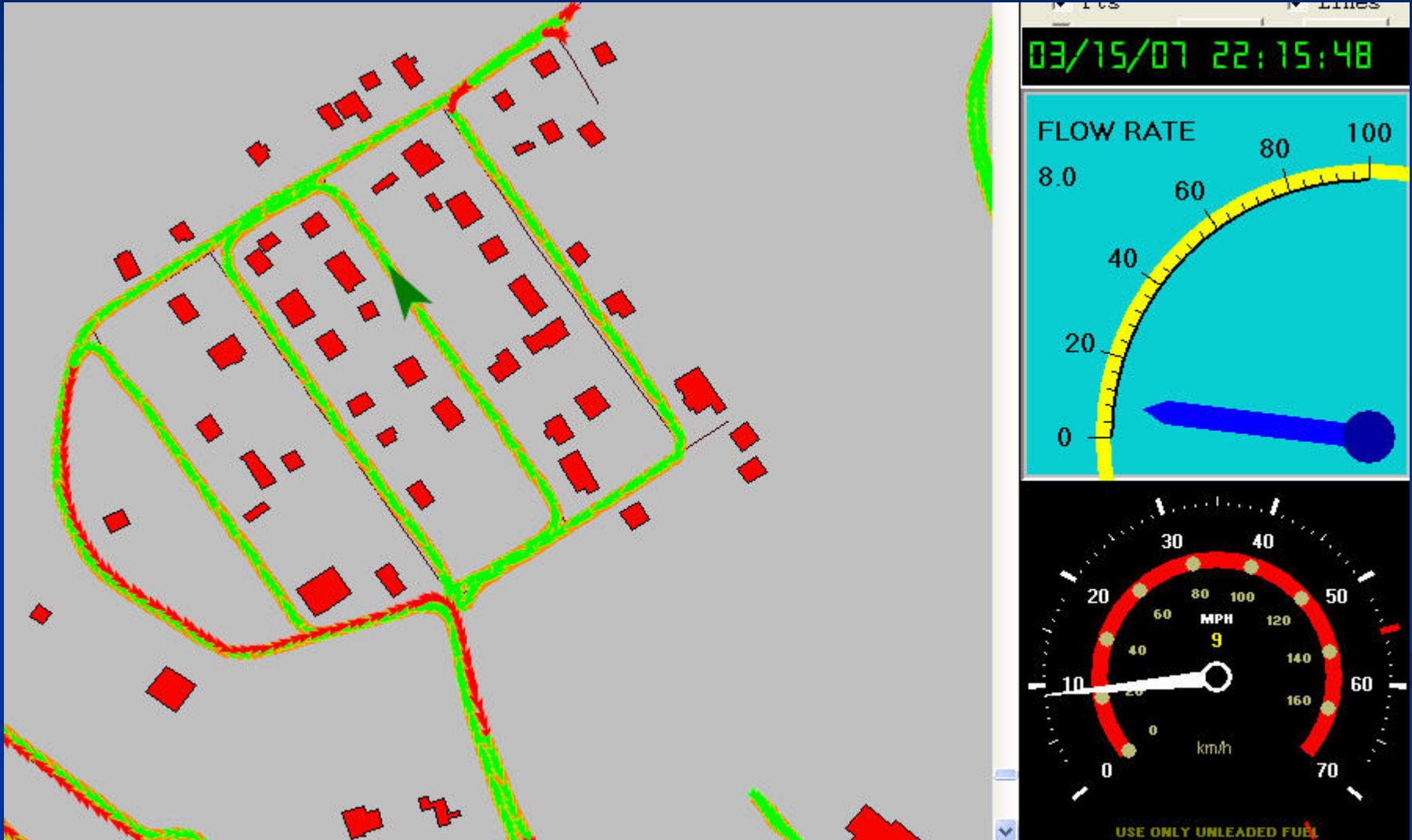
- Variable Flow Control
 - Allows chemical to be applied proportionate to ground speed
 - Ensures a consistent and economical application
- Uses GPS for flow control and recording of trip information



Making your life easier...

- Accountability of drivers
 - Records speed, flow rate, date and time of applications, etc.
- Easily recall past missions with GeoTracker to prove/disprove spray locations
- Ability to give drivers certain spray privileges

GeoTracker – Cayman Islands



Downloading Options

- Removable Compact Flash card
- “Parking-lot download” option
- “Real-Time Tracking” option



Come by the booth and
check it out!

