

Utilizing ArcGIS Survey123

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Disclaimers

Is it worth it?







Paper

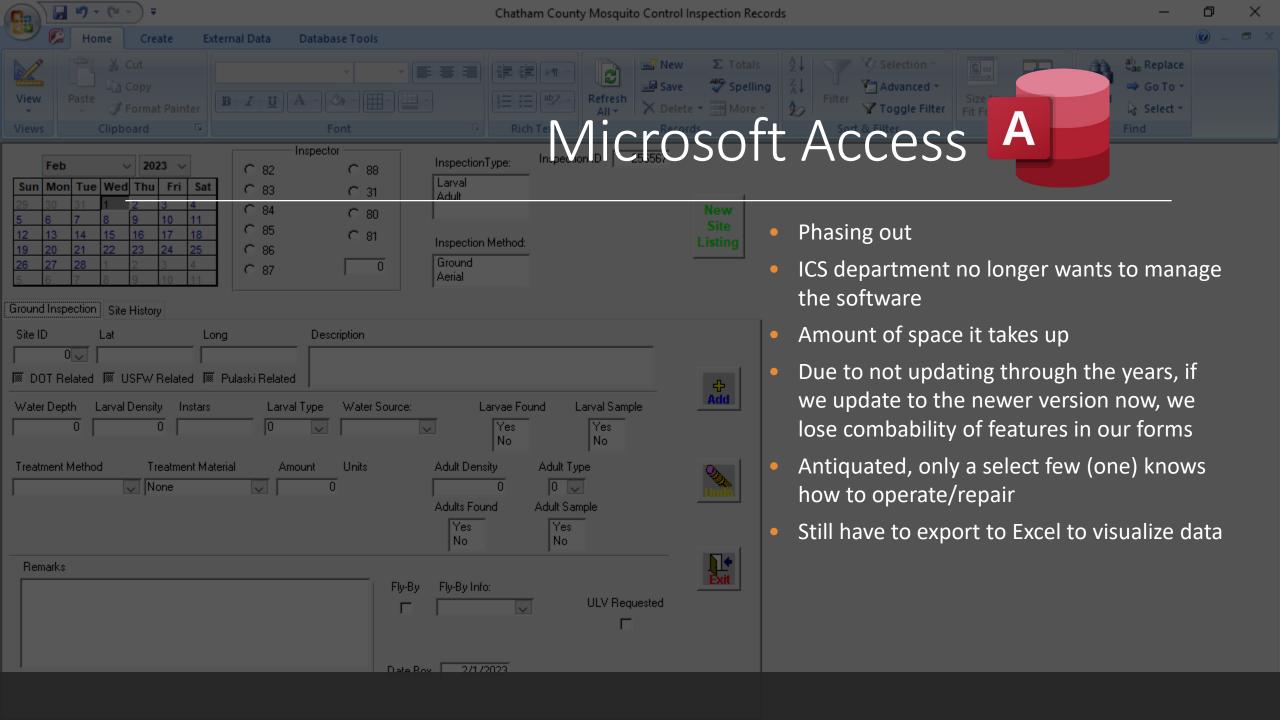
Display

Cost

Lost, damaged, time to enter in database,

Ability to see the data visually, transparency among staff

Startup and maintenance



Paper Records

Inspector:	Chatham County Mosquito Control Daily Sheets											202	
	Altosid Briqu Al: (S)-Methop EPA Reg No. 272	rene	AI: (Altosid P35 S)-Methop eg No. 894	rene	Al: Ba	VectoBac G cillus thuring Reg No. 730	giensis	AI: Bo	ectoLex FG cillus sphae	ericus	Coco	bear Mosquito Larvicide Oil Al: Mineral Oil EPA Reg No. 8329-93
Date & Time	Site /Inspection	Mosquit o Larvae (Y/N)	Mosquit o Adults (Y/N)	Water Depth	Larval Density	Instars	Treatme nt Area (ft²/acre)	Altosid Briquets	Altosid P35 (lbs)	VectoBac (lbs)	VectoLex (lbs)	Cocobear Oil (oz/gal)	Remarks

- Lost, damaged
- Dependent upon staff to enter immediately after being in the field
 - What if staff were unexpectedly off work?
 - An emergency?
- Time constraints
- Texting/calling in targets that needed to be larvicided
- Creating maps for targets upon return to the office

Column1	Column 2	Column 3	Column 4
City, State, Zip	City	State	Zip
First Last Name	First Name	Last Name	Middle?
Jan 1, 2023	January 1, 2023	01/01/2023	01/01
Street Avenue Road	St Ave Rd	St. Ave. Rd.	
Godley Street	Godley St	Godley St.	Godley
Aedes albopictus	Aedes albo or al	Ae. albo. or al.	Aedes / albopictus

Data Standardization

Creating a table in ArcGIS is the backbone of any map

- How you store the data matters field type, length, format
- Sharing data
- Clean, complete, & verified









What we already had:

ARCGIS MAP DESKTOP

What we needed: User Types (license levels)



GIS Department

FOR CHATHAM COUNTY THIS GROUP FELL UNDER OUR ENGINEERING DEPARTMENT.

What can you do with ArcGIS Enterprise?



Make maps and apps

Use industry-leading software to create professional, device-friendly maps and apps.

- Visualize, analyze, and embed 2D and 3D data in web mans
- · Create apps without writing code with app templates
- · Build custom apps with the built-in Web AppBuilder



Manage data

Support the data needs for your entire organization.

- Manage geospatial data at the database level.
- Create a secure GIS content management system for your organization
- . Easily scale up your data storage capacity
- · Assess and report data quality
- · Input data from your existing cloud stores



Share and collaborate

Make your data, maps, apps, and tools accessible to any device, anywhere, at any time.

- · Use layers, maps, and tools shared from ArcGIS Pro
- Make your content accessible to members of your organization
- · Set up trusted sharing between portals
- Share maps and layers between ArcGIS Enterprise and ArcGIS Online



Perform analysis

Distribute powerful server-based analytics and transform data to intelligence.

- · Use standard analysis tools
- · Perform raster analysis
- Perform big data analytics
- · Connect to and analyze real-time data
- Author ArcGIS Notebooks
- Manage and script analytical workflows with the ArcGIS API for Python





Secure and monitor your system

Provide secure access to your Web GIS and protect your deployment from cyber threats.

- Discover the ArcGIS Enterprise security model
- · Configure encryption
- Authenticate users and secure access to your system
- Use ArcGIS Monitor to audit the health of your system



Architect your deployment Plan your deployment and create a reliable and

- Choose a pattern for your base deployment
- · Scale your base deployment

resilient system.

· Expand beyond your base deployment



Automate your setup

Streamline and standardize your deployment setup and system upgrades.

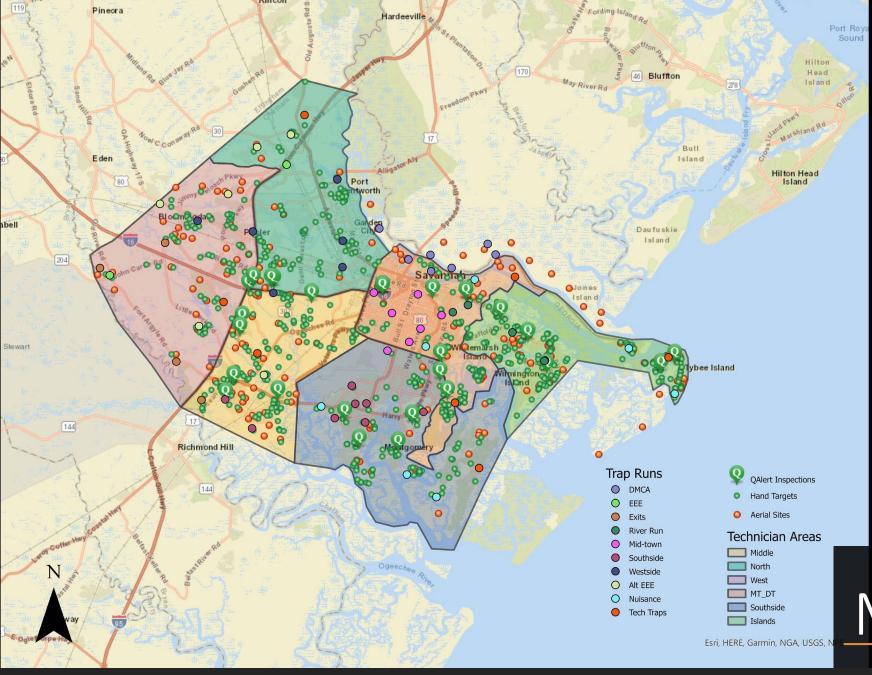
- Create a single machine deployment with ArcGIS Enterprise Builder
- Use Chef to automate the setup of custom deployments



Deploy in the cloud

Use the cloud to host your deployment, store data, and run analysis.

- · Deploy quickly and easily in the cloud
- Deploy ArcGIS Enterprise on Amazon Web Services (AWS)
- . Deploy ArcGIS Enterprise on Microsoft Azure



Moscon Portal

Survey123

- Quick/efficient
- Out in the field
- Smart phones (county provides each employee with a phone for official business)
- Visualize data on demand
- No need to move to Excel

Survey123

- Customer/residential inspections
- County has an internet-based system for residents to input requests
- No way to record pesticide usage, other than in a text box



Survey123

- Different style office based survey
- Trap counts were only recorded in Access, but they were always exported to Excel to see the trends
- This information is recorded in just a table currently, eventually it will be visually displayed on the portal
- Quick turn around to those in the office and out in the field

Things to come:

- DIRECT TARGET DROP TO AVIATION UNIT
- TREND MAPPING
- TRUCK AND AERIAL SPRAY MISSION LAYERS
- TRANSPARENCY ACROSS THE ENTIRE DEPARTMENT



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