

# Chatham County Mosquito Control: 2021; a year in review

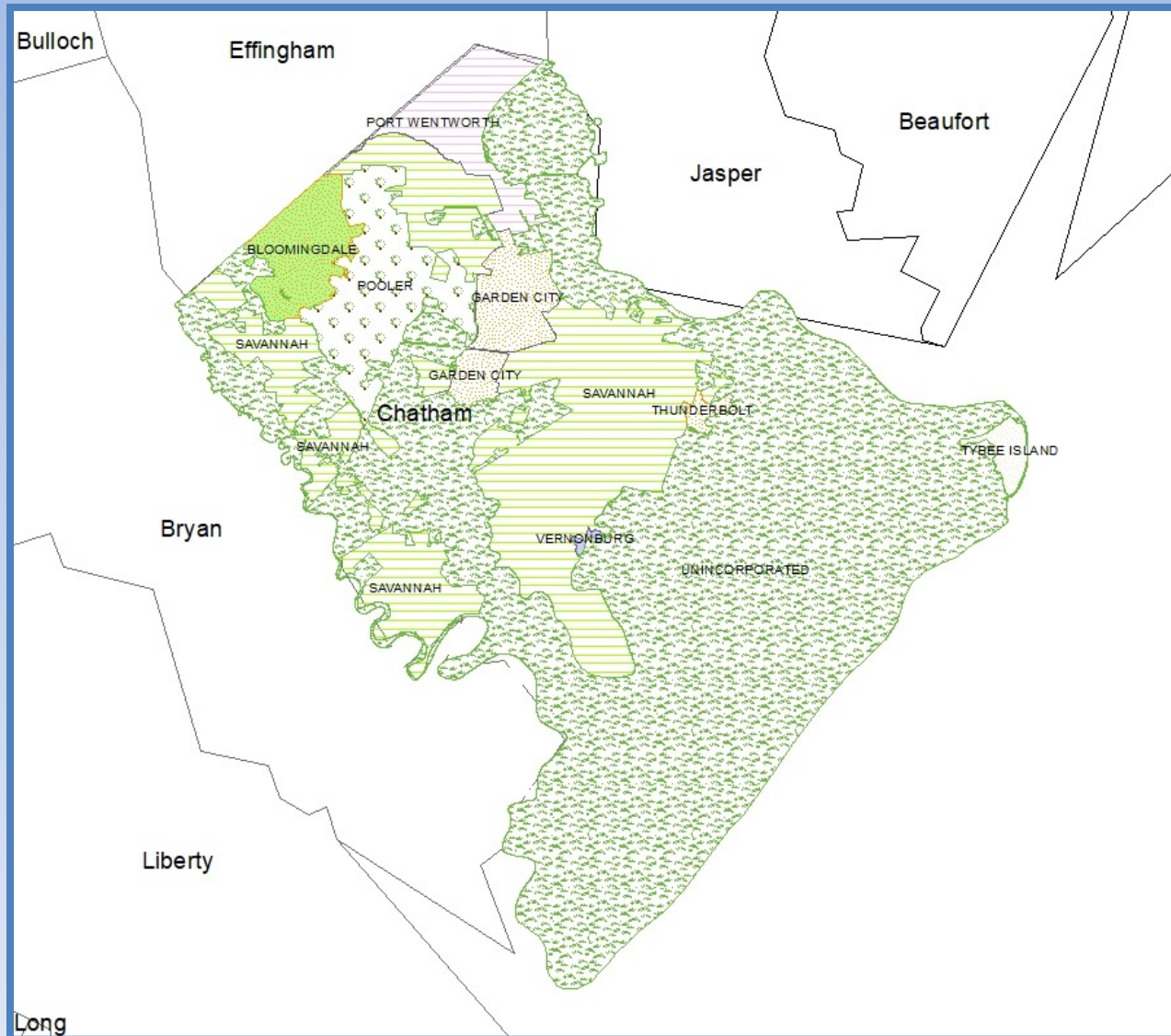


Robert A. Moulis  
Chatham County Mosquito Control

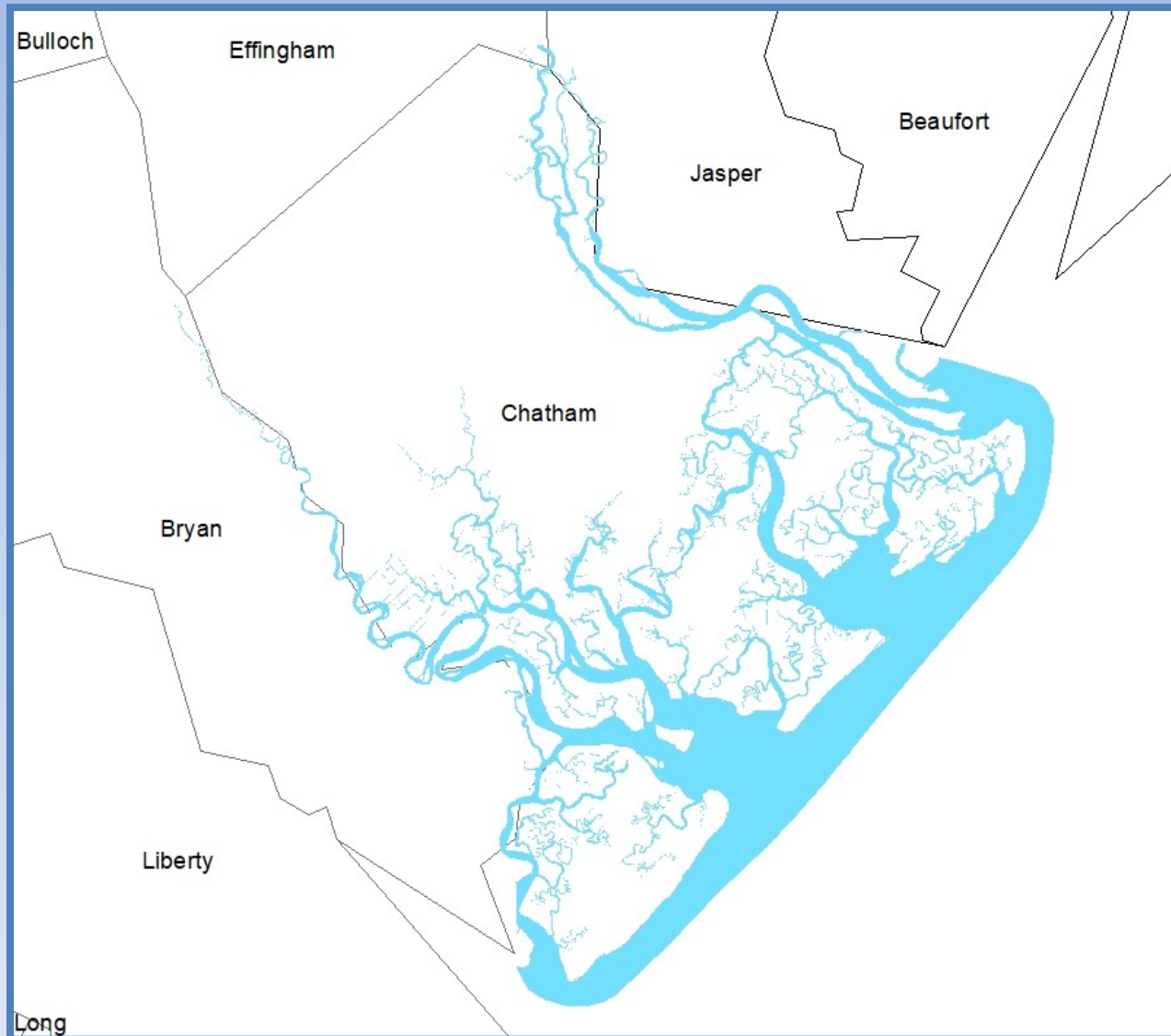
The county is the northern most coastal county in the state



The county includes eight municipalities and a rather large unincorporated area composed of a variety of upland habitat

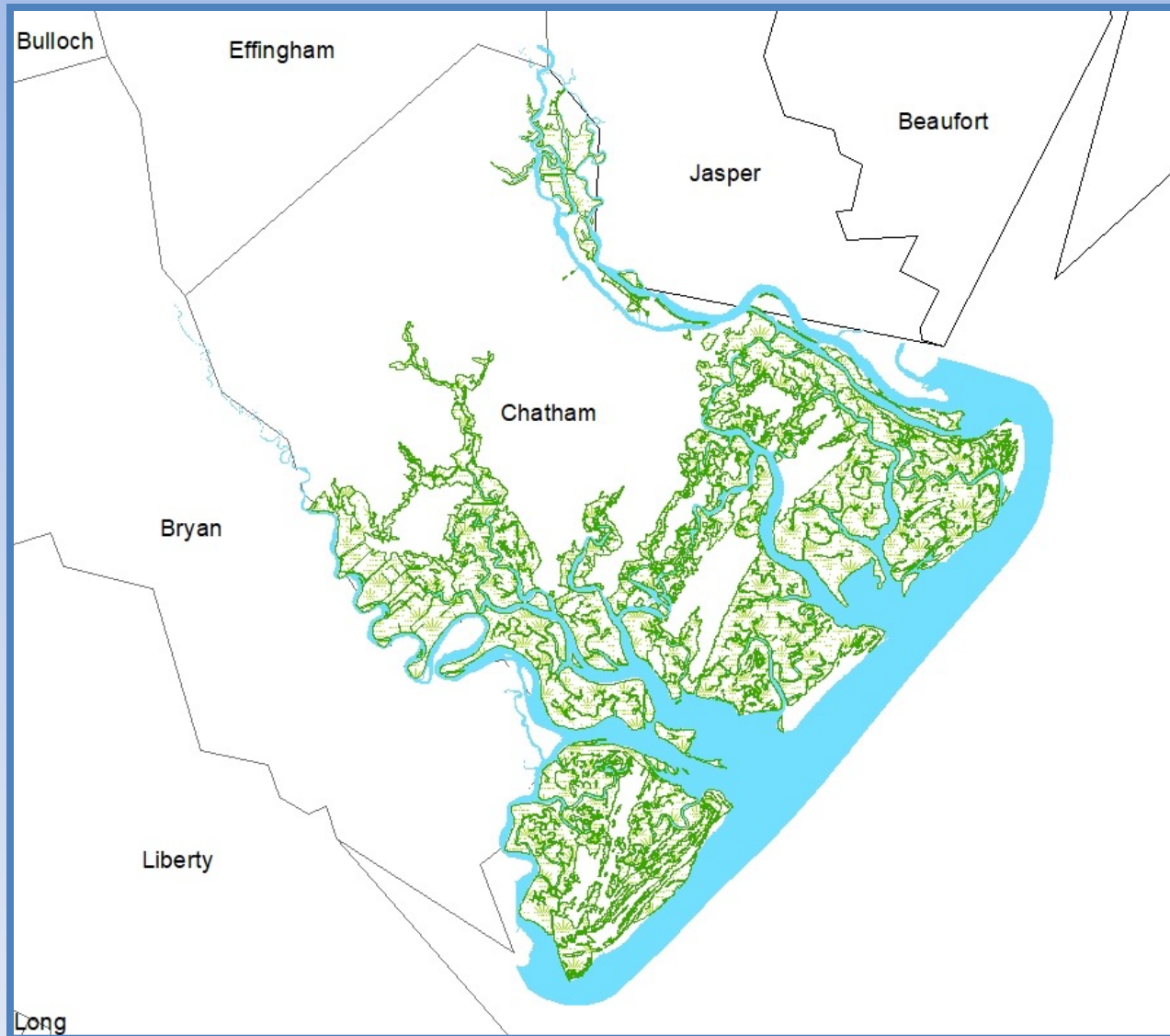


The wetland habitats can be affected by tidal cycles along the coast that may extend well inland.





Much of the county's eastern portion is composed of saltmarsh habitat dominated by cordgrass, *Spartina alterniflora*.



Such areas display a dramatic difference between tides





Particularly during “spring” tides, which often floods high marsh areas



These flooding events often cause large explosions of salt marsh mosquitoes

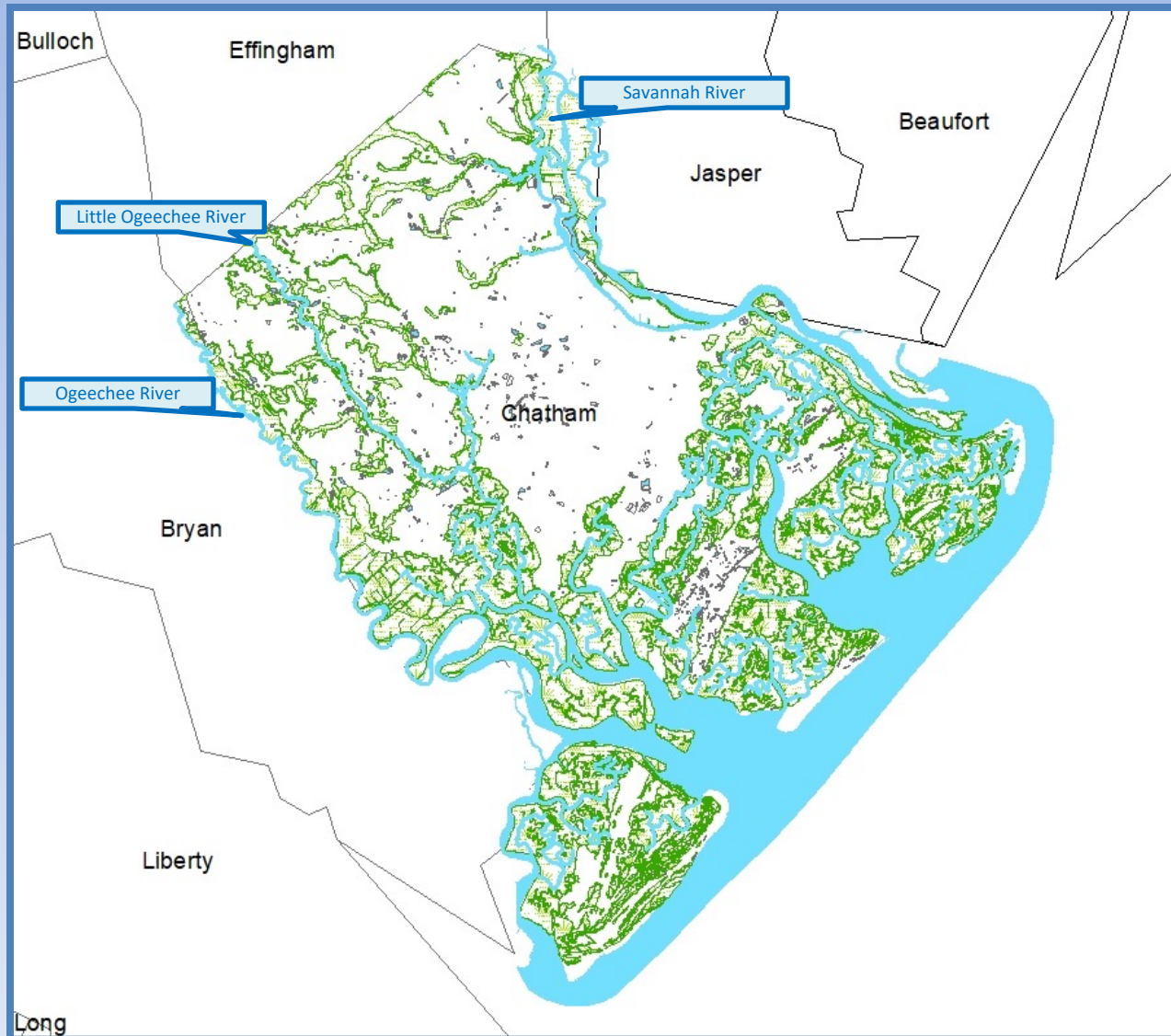




These flooding events often cause large explosions of salt marsh mosquitoes

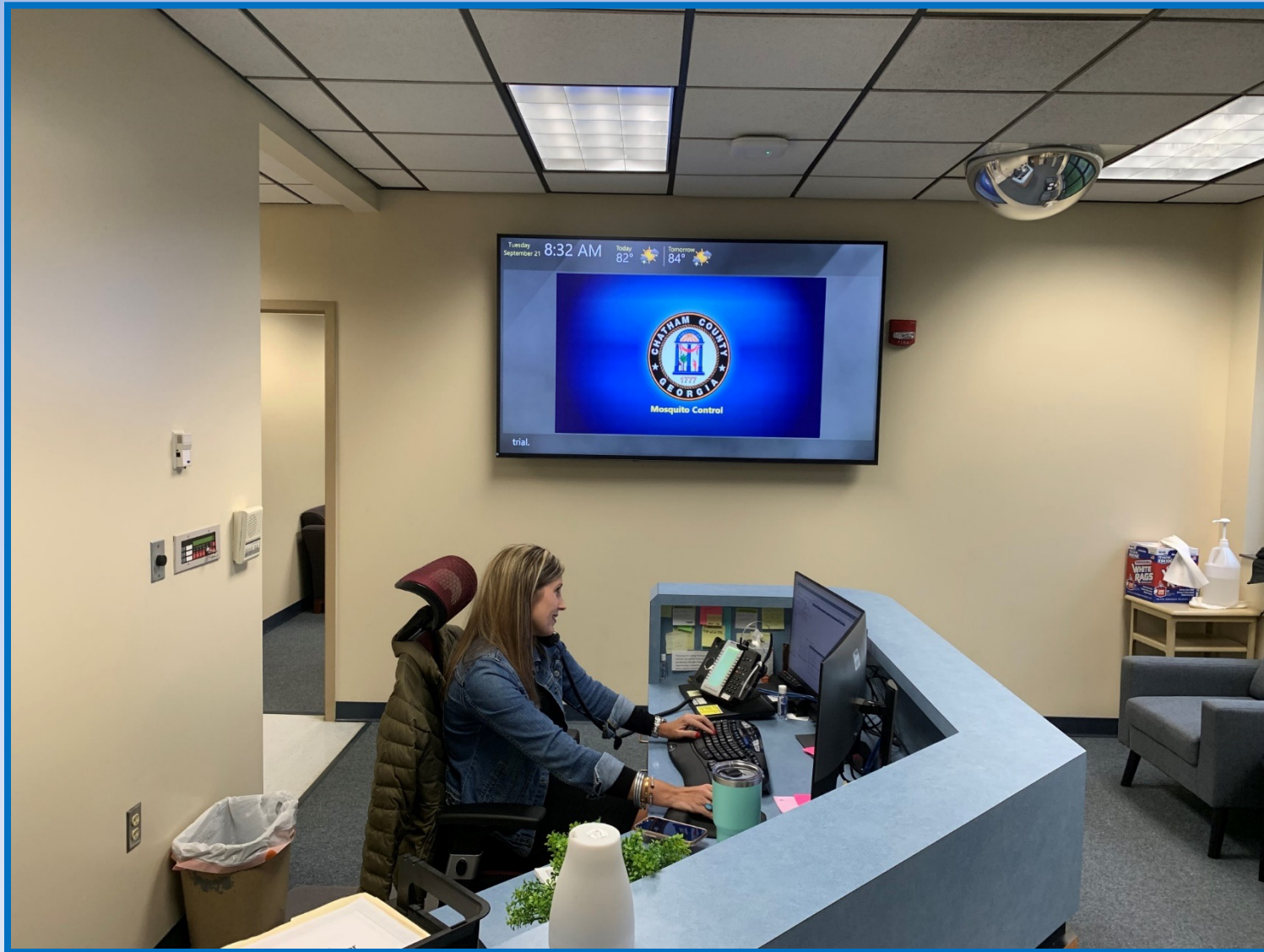


Inland areas of the county are drained primarily by three river systems  
(the Savannah, Ogeechee, and Little Ogeechee rivers)

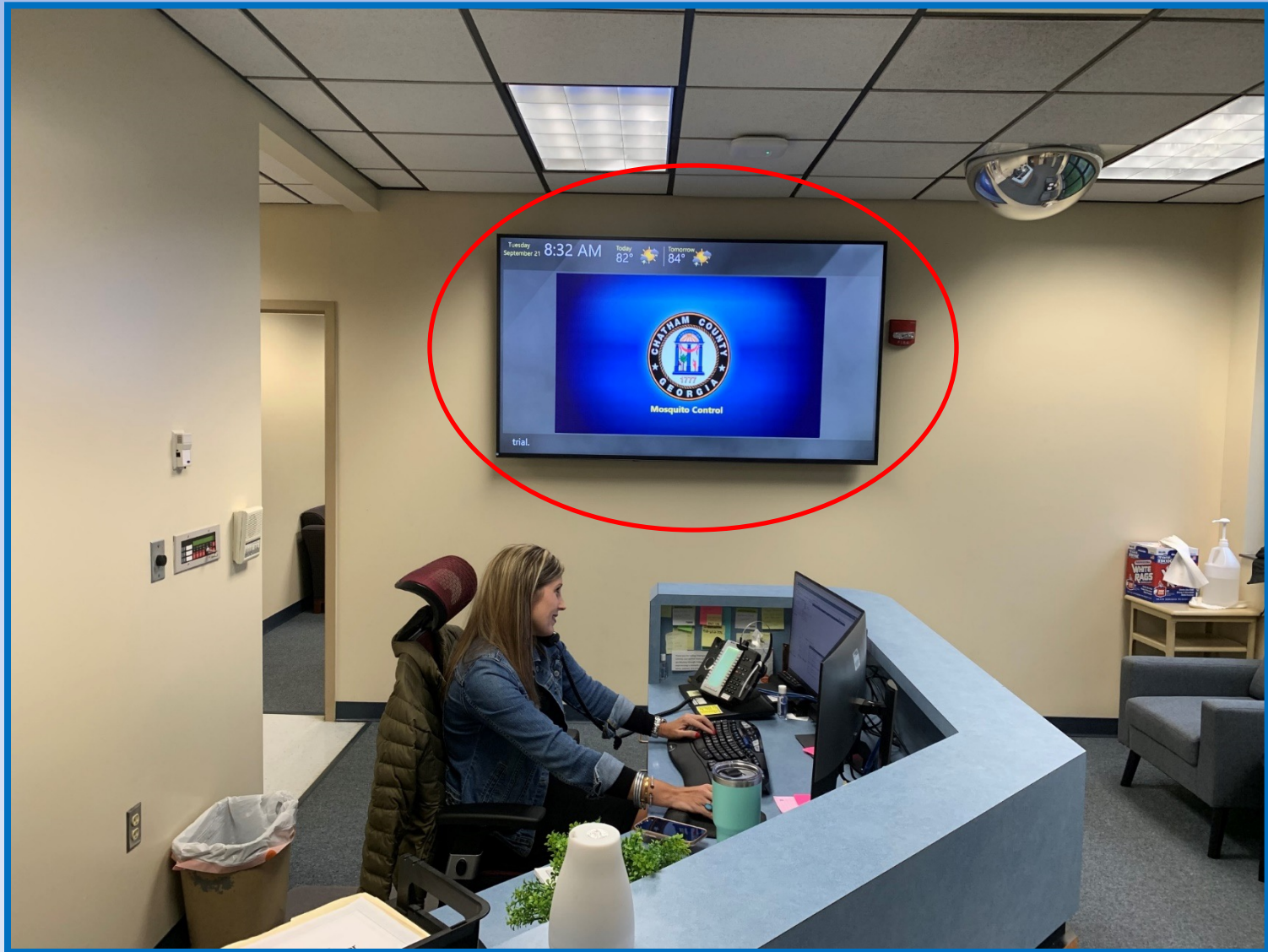




The public can report a mosquito problem in a number of ways:  
Direct Contact



The public can report a mosquito problem in a number of ways:  
Direct Contact



The public can report a mosquito problem in a number of ways:  
On-line





# Requests for service can also be placed on-line

QAlert

chathamcountyga.qscend.com/qalert/

Call CenterService RequestsMapsReportingQAlert Administration

Bobby Moulis

HelpContact SupportAcademy

New RequestSaveSave + CloseSave + Add

Service Request Details

ID: N/ACreated: N/A

Priority: 2District: N/A

Dept: N/AStatus: OpenOrigin: Call Center

WhoWhatWhereMore (0)Manage & History (0)

Find submitter...

Submitter stats

No stats to display

Address

# Street

Suite, Apt, etc

SavannahGAZip

Contact Info

Email

PhoneExt

Alt PhoneExt

Additional Information

Notification Preferences (0 selected)

Related Information

Related Request ListMap View

Selected Request Type Only

ID	Priority	Address	Last Action	Request Type	Submitter
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Search

SearchReset

Submitter

Request ID

Request Type

Keywords

Date Range

9/7/2021 - 9/21/2021

Priority Range

1 - 3

City

Street

Street # Range

Geographic Areas

Status

☒ Open☒ In Progress☒ Closed☒ On Hold

Search Results

List ViewMap View

ID	Priority	Address	Last Action	Request Type	Submitter
4625	2	1 Al Henderson Dr, Savannah	9/21/2021 8:58A	Canal maintenance	PEARL STRAW
4624	2	529 Quarterman Dr, Savannah	9/21/2021 8:31A	Ditch Maintenance	David Scogin
4623	2	160 Lansing Ave, Savannah	9/21/2021 8:25A	Drainage problems	Trent Broxton
4622	2	1 Diana Dr, Savannah	9/21/2021 8:18A	Drainage problems	Wallace Milling
4580	2	182 Mills Run Dr, Savannah	9/21/2021 7:34A	Ditch Maintenance	Lavon Shuman
4583	2	Savannah	9/20/2021 3:20P	Road Sign Repair	Jennifer Rachlin
4531	2	132 Blue Gill Ln, Pooler	9/20/2021 2:28P	Flooding Concerns - Drainag	Sonja Walton
4553	2	2 Brandle Cove, Savannah	9/20/2021 2:26P	Ditch Maintenance	Thurnell Griffen
4559	2	Grove Point Rd, Savannah	9/20/2021 2:24P	Drainage problems	Keith Glover
4574	2	1 Brighton Way, Savannah	9/20/2021 2:21P	Canal maintenance	Frankie Sowell

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\* - Master Service Request with Linked Service Requests

“QAlert” allows all sorts of problems to be reported, those of a mosquito-nature are filtered to Mosquito Control

The screenshot displays the QAlert web application interface. The top navigation bar includes links for Call Center, Service Requests, Maps, Reporting, and QAlert Administration. The left sidebar shows a list of service request categories: My Service Requests, Open and In Progress, Escalating Soon, Closed, and On Hold. The main content area displays a table of service requests. The request with ID 4619, titled 'Mosquito Spray Request', is circled in blue. The table columns include ID, Request Type, Address, Create Date, Last Action, Submitter, and Priority.

ID	Request Type	Address	Create Date	Last Action	Submitter	Priority
603	Speeding	22 Rose Ave Savannah	7/2/2020 11:04a	9/21/2021 9:50a	JOE WILSON	2
4626	Street Cleaning Issues	15 Island Dr Savannah	9/21/2021 9:49a	9/21/2021 9:50a	Rebel Jackson	2
4619	Mosquito Spray Request	2125 Iowa St Savannah	9/17/2021 5:59p	9/21/2021 9:42a	Josh Walters	2
4625	Canal maintenance	1 Al Henderson Dr Savannah	9/21/2021 8:58a	9/21/2021 8:58a	PEARL STRAW	2
4624	Ditch Maintenance	529 Quarterman Dr Savannah	9/21/2021 8:31a	9/21/2021 8:31a	David Scogin	2
4623	Drainage problems	160 Lansing Ave Savannah	9/21/2021 8:24a	9/21/2021 8:25a	Trent Broxton	2
4622	Drainage problems	1 Diana Dr Savannah	9/21/2021 8:18a	9/21/2021 8:18a	Wallace Milling	2
4467	Roadside Maintenance	5 Possum Point Savannah	8/30/2021 1:10p	9/21/2021 8:16a	Ray Marchant	2
4469	Roadside Maintenance	298 Cushing Dr Savannah	8/30/2021 1:17p	9/21/2021 8:16a	Claud Shore	2
4416	Cut Overgrown Grass/Weeds/Trees	5915 Acl Blvd Savannah	8/24/2021 10:56a	9/21/2021 8:06a	James Sheuman	2
4461	Cut Overgrown Grass/Weeds/Trees	7301 Tropical Way Savannah	8/30/2021 8:58a	9/21/2021 8:06a	Ginger Paul	2
4580	Ditch Maintenance	182 Mills Run Dr Savannah	9/13/2021 2:28p	9/21/2021 7:34a	Lavon Shuman	2
4583	Road Sign Repair	Savannah	9/13/2021 3:09p	9/20/2021 3:20p	Jennifer Rachlin	2
4531	Flooding Concerns - Drainage Problem	132 Blue Gill Ln Pooler	9/7/2021 1:27p	9/20/2021 2:28p	Sonja Walton	2

163 requests found

# Several options are available for Mosquito Control

**QAlert**  
chathamcountyga.qscend.com/qalert/

**Call Center** Service Requests Maps Reporting QAlert Administration Bobby Moulis

+ New Request Save Save + Close Save + Add Help Contact Support Academy

### Service Request Details

ID: N/A Created: N/A Dept: N/A Status: **Open**  
Priority: 2 District: N/A Origin: Call Center

Who What Where More (0) Manage & History (0)

Type: mosquito

**Search results**

- Mosquito Control
- Mosquito Spray Request
- Educational Event
- Excessive Mosquitoes
- Mosquito Fish Request
- Mosquito Inspection
- Standing Water

Request is not linked

**Files** Add

Drag and drop files here to upload

### Related Information

Related Request List Map View ☒ Selected Request Type Only

ID	Priority	Address	Last Action	Request Type	Submitter
4822	1	5210 Garrard Ave, Savannah	10/7/2021 3:08P	Pothole in Road	Michael Cade
4831	2	23 Doe Tail Ct, Savannah	10/8/2021 2:21P	Street Cleaning Issues	David Pennell
4830	2	219 Executive Park Dr, Savannah	10/8/2021 11:48A	Ditch Maintenance	Sandra Grant
4737	2	149 Old River Rd, Bloomingda	10/8/2021 10:08A	Ditch Maintenance	Edna Youngblo
4739	2	29 Waite Dr, Savannah	10/8/2021 10:05A	Storm Drain Issue	Terri LeDoux
4829	2	1825 Grove Point Rd, Savanna	10/8/2021 9:43A	Abandoned/Nondrivable vel	Patricia Humme
4828	2	5802 Edison Ave, Savannah	10/8/2021 7:36A	Mosquito Spray Request	Carol Scholl
4761	2	175 Penrose Dr, Savannah	10/8/2021 3:10A	Mosquito Spray Request	Catherinr Allen
4825	2	258 Hinesville Rd, Savannah	10/7/2021 5:11P	Mosquito Spray Request	JACKIE WARREN
4818	2	127 Wimbledon Dr, Savannah	10/7/2021 2:24P	Excessive Mosquitoes	Ozzy Lighthorse

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### Search

Search Reset

Submitter: Request ID: Request Type: Keywords: Date Range: 9/24/2021 - 10/8/2021 Priority Range: 1 - 3

City: Street: Street # Range: Geographic Areas: Status: ☒ Open ☒ In Progress ☒ Closed ☒ On Hold

### Search Results

List View Map View


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\* - Master Service Request with linked Service Requests



Chatham County transitioned to a new notification system which gives interested citizens information of pending aerial sprays

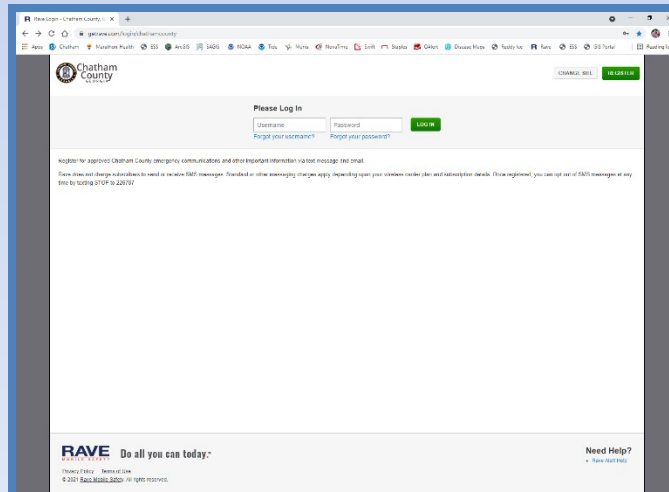


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# Rave Alert

Rave Alert is the leading **FedRAMP-authorized** mass notification system enabling governments, organizations, institutions and schools to quickly and reliably send messages, including desktop notifications, in just three clicks.

[VIEW DEMO >>](#)



Chatham County

CHANGING WEI 100-000000

Please Log In

Username  Password  [Forgot your username?](#) [Forgot your password?](#) [Log In](#)

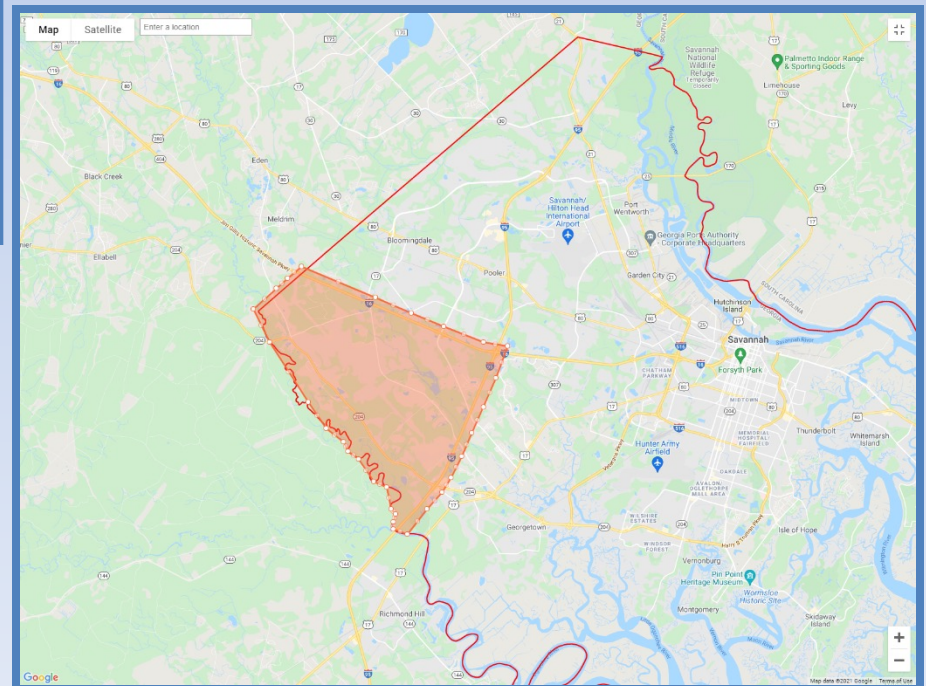
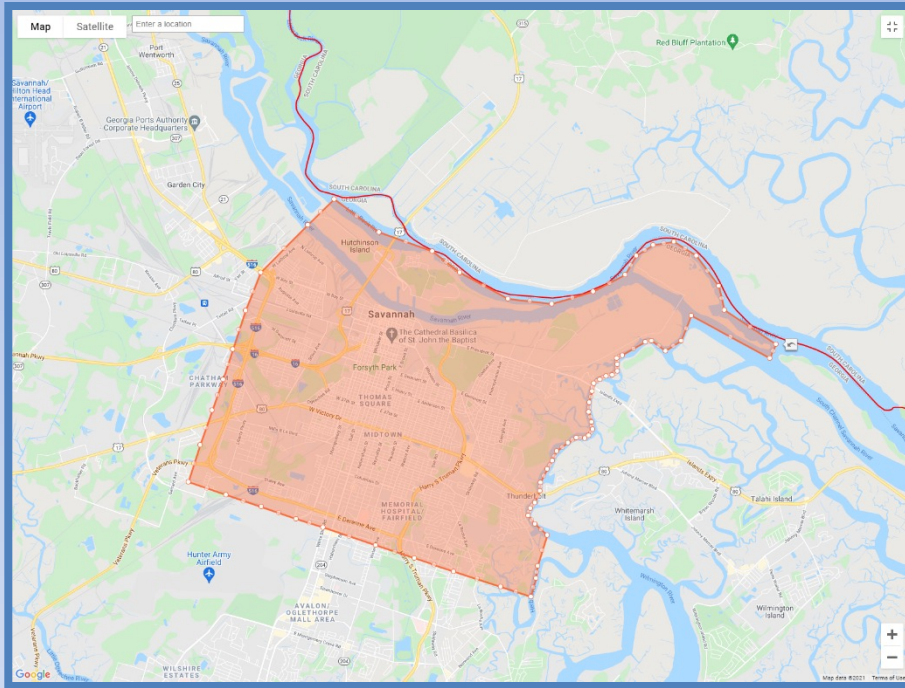
Register for approved Chatham County emergency communications and other important information via text message and email.

Rave Alert has been authorized to send or receive SMS messages. Standard or other emergency charges apply depending upon your wireless carrier (plan and network) details. Please understand, you can opt out of SMS messages at any time by texting 2152 to 220700.

**RAVE** Do all you can today.  
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Need Help?  
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Individuals are geocoded into the system based on their home address, and receive notifications by phone, text, or email



New automatic storm shutters were installed on the Admin building





New automatic storm shutters were installed on the Admin building



## Source reduction projects continue along the Savannah River





## UTV treating roadside ditch for larvae





ULV ground treatments are conducted on a limited basis





A majority of the adult mosquito treatments we conduct are by air



A second “sand hog” used to load helicopters remotely was put into service during 2021





West Nile virus (WNV) was recorded from three samples in Chatham County

YEAR	Adult mosquitoes trapped	Positive Pools	Total Acreage larvicided	Total Acreage Adulticided	Percent by air	Percent by ground
2016	298798	0	8236	1256417	98.84%	1.27%
2017	283026	93	8880	1114124	98.39%	1.61%
2018	229974	148	3154	1396017	99.04%	0.96%
2019	284920	192	2950	806382	97.91%	2.09%
2020	266631	11	7430	648102	97.86%	2.14%
2021	219484	3	7513	566199	97.68%	2.32%

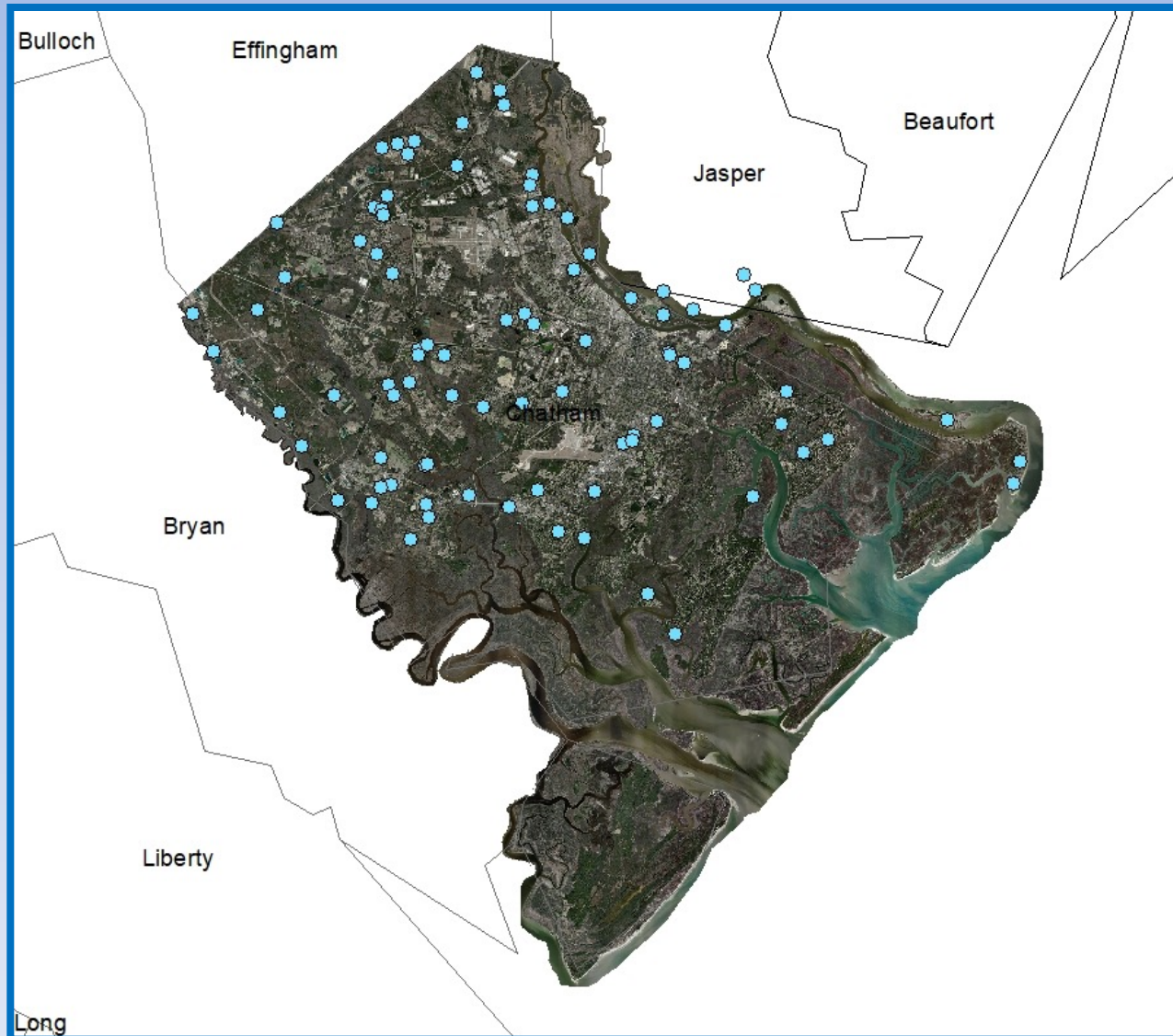


Surveillance traps continue to provide valuable information on adult mosquito populations





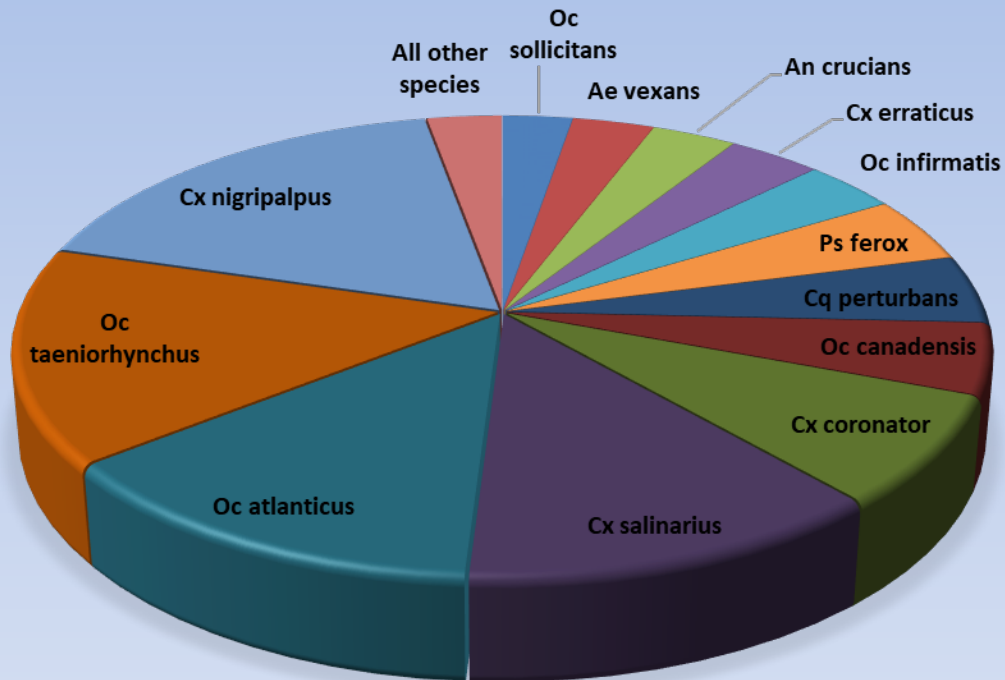
## CDC trap locations in Chatham County





## CDC trap numbers (x=65,576) for Chatham County in 2021

### MOSQUITO SPECIES FROM CDC TRAPS, 2021



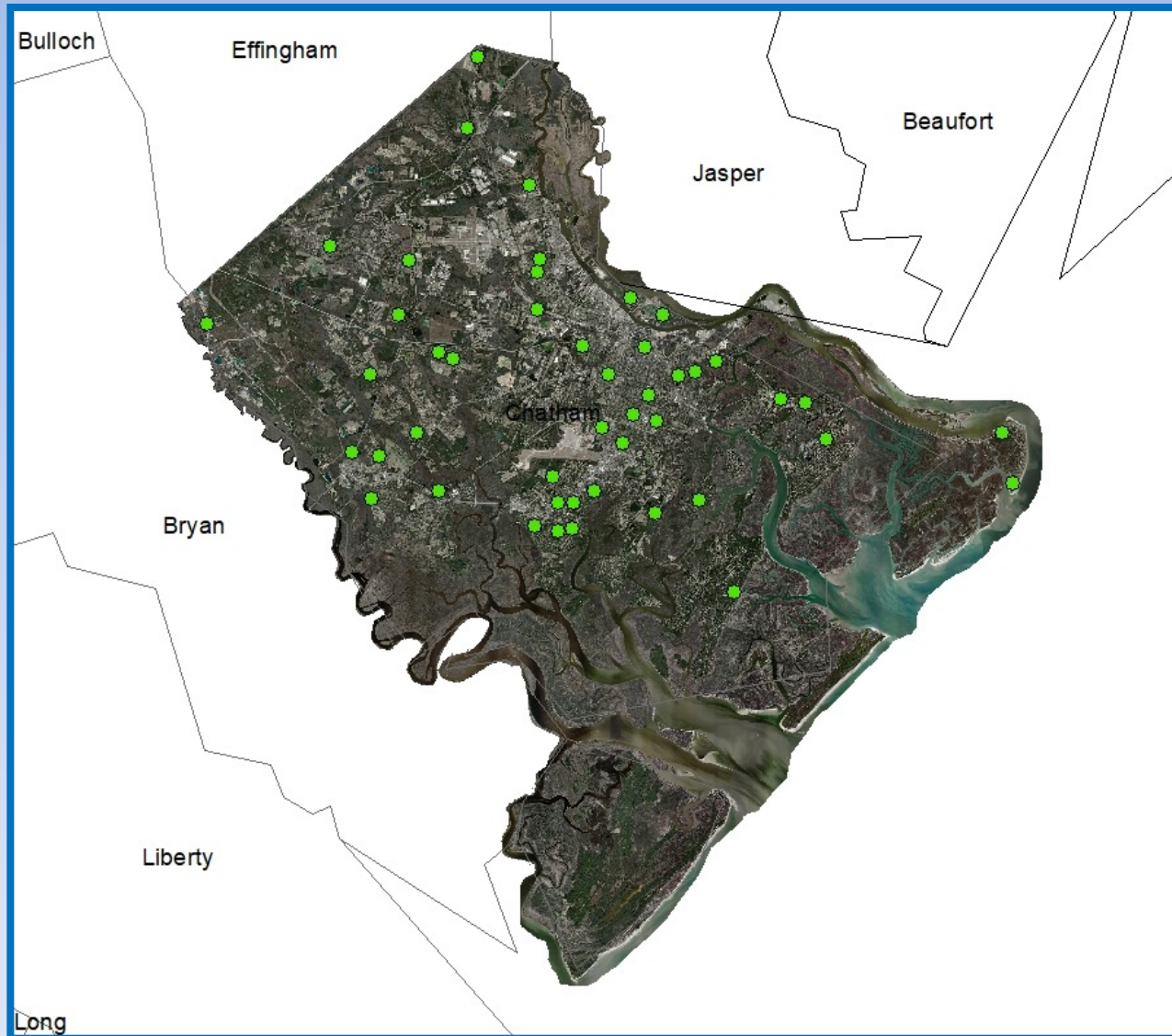
Through Sept 14



Gravid traps provide information on *Culex* mosquitoes, particularly *Culex quinquefasciatus*, our primary West Nile virus vector.



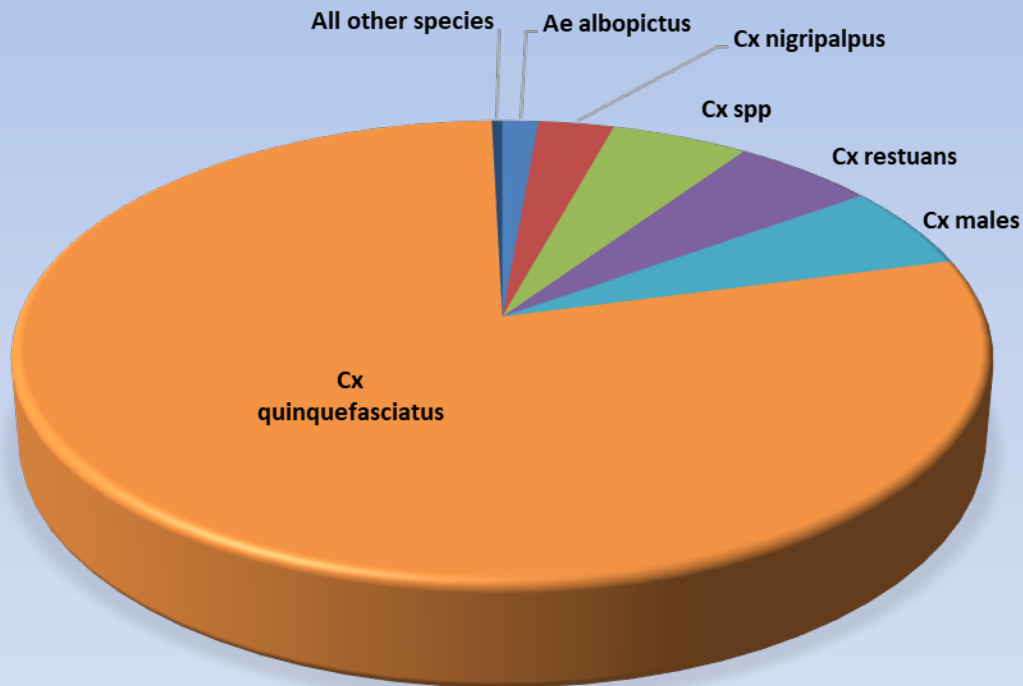
## Gravid trap locations in Chatham County





## Gravid trap numbers (x=155,220) for Chatham County in 2021

### MOSQUITO SPECIES FROM GRAVID TRAPS, 2021



Through Sept 14



Our sentinel chicken program places a bird overnight in an elevated container, the color of the container alternates between white and black

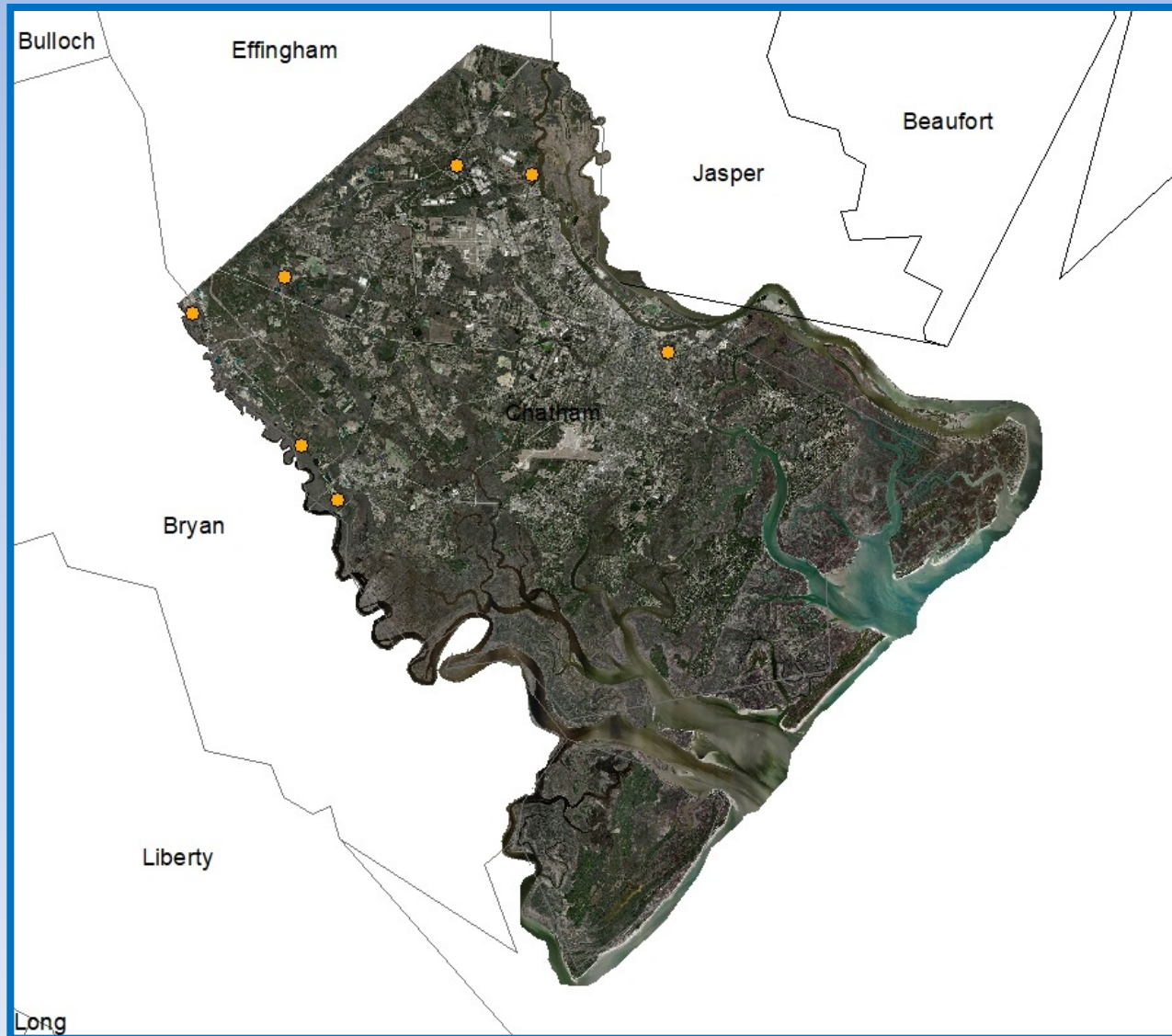


Exit traps attached to the tops of the sentinel cages provide information concerning which species feed upon the sentinels, and also supplement mosquito species available for testing.



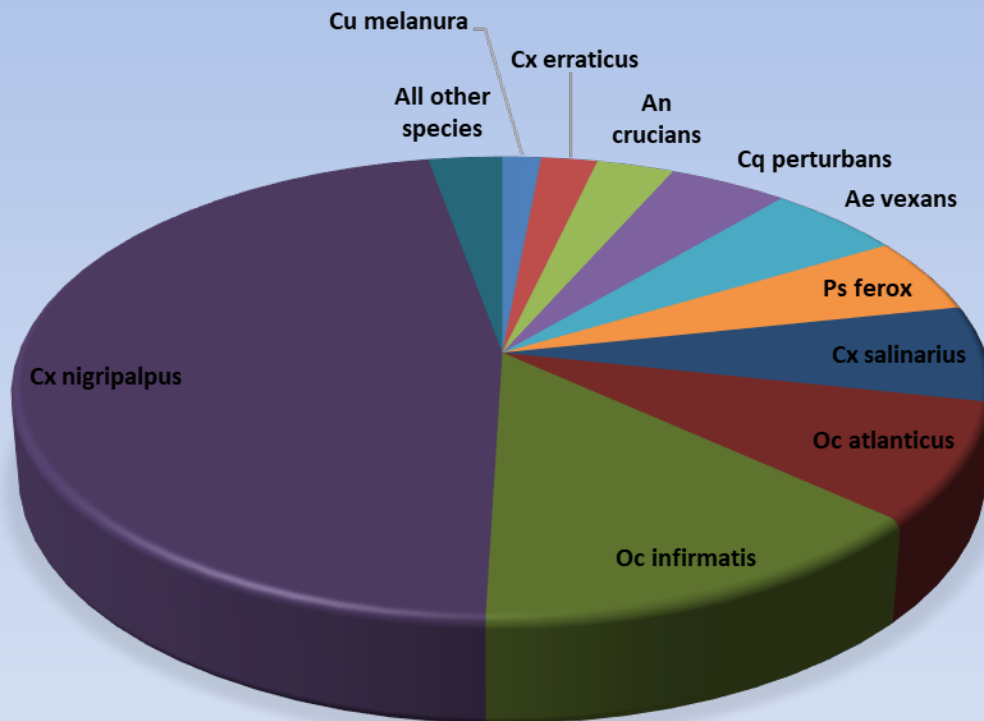


## Exit trap/sentinel chicken sites in Chatham County



## Exit trap numbers (x=743) for Chatham County in 2021

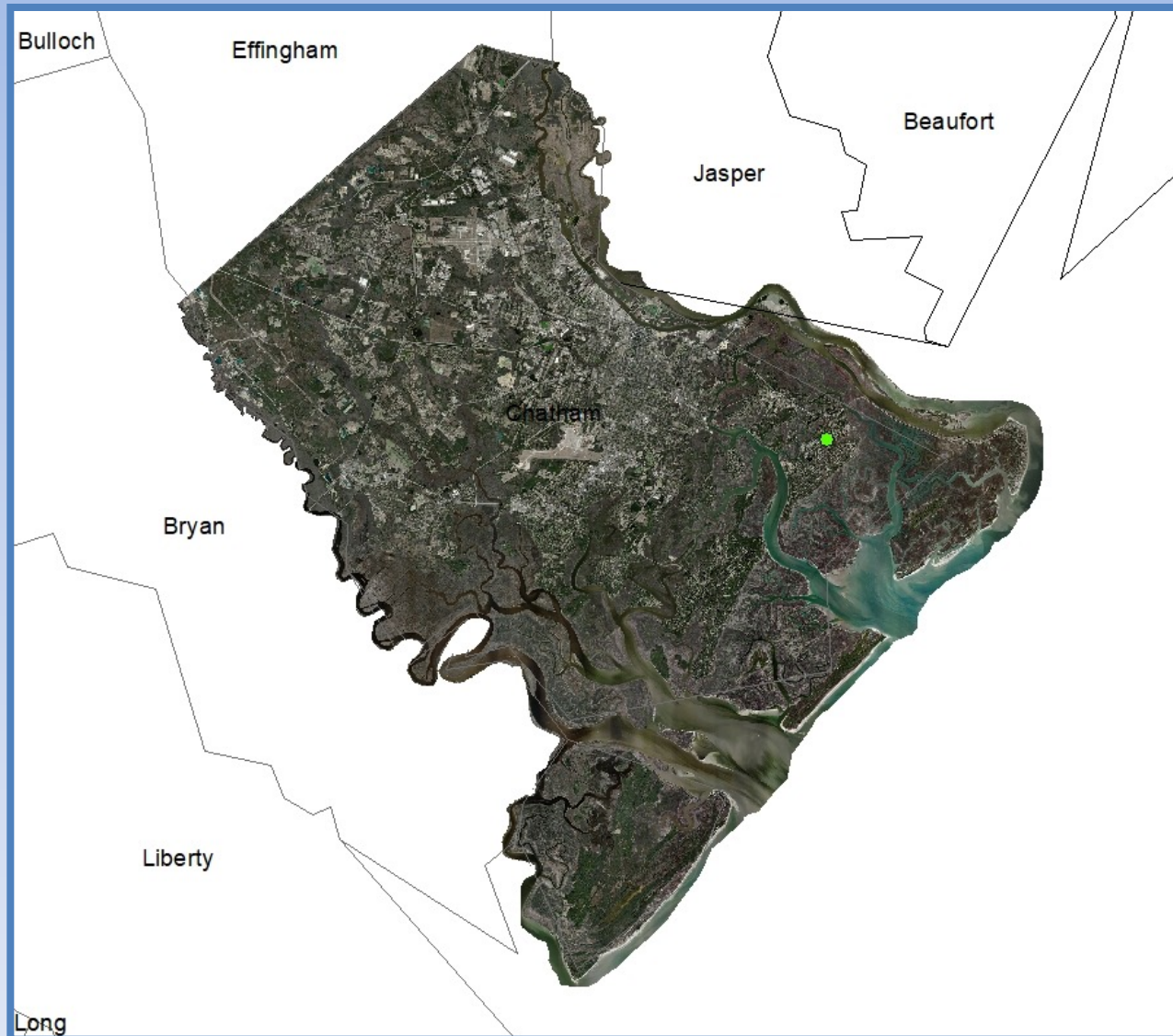
### MOSQUITO SPECIES FROM EXIT TRAPS, 2021



Through Sept 14



In 2021, West Nile virus (WNV) was recorded from one site in Chatham County

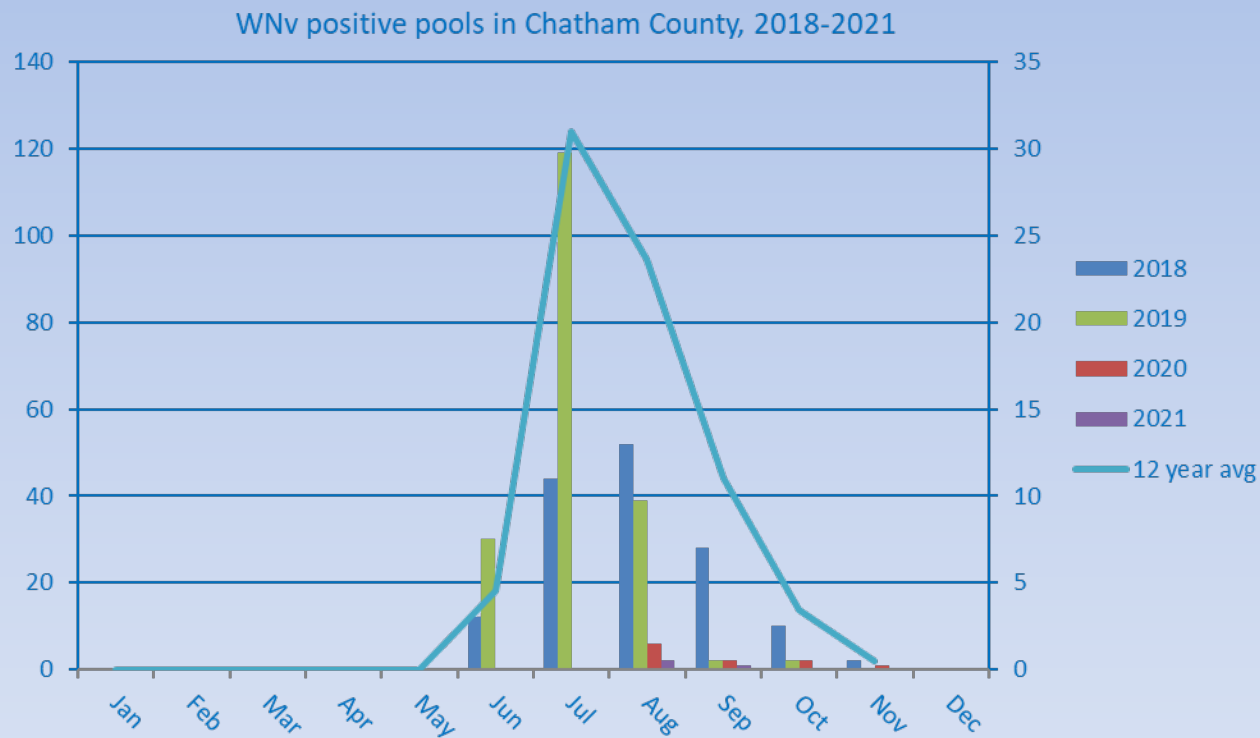




In 2021, West Nile virus (WNV) was recorded from three samples in Chatham County

DATE	ID	Species of mosquito involved	Number of Mosquitoes in sample	MIR
8/18/21	CHC-21-1925	<i>Culex quinquefasciatus</i>	25	2.59
8/18/21	CHC-21-1944	<i>Culex quinquefasciatus</i>	25	2.59
9/8/21	CHC-21-2387	<i>Culex quinquefasciatus</i>	25	3.39

2021 marked the second consecutive year of a decline in positive pools



West Nile virus (WNV) was recorded from three samples in Chatham County

YEAR	Total Mosquitoes Pooled	Total Pools	Positive Pools	Overall MIR
2001	1459	137	0	0.00
2002	11308	669	9	0.80
2003	28961	2142	67	2.31
2004	40235	4144	39	0.97
2005	62288	6260	0	0.00
2006	26335	2078	0	0.00
2007	58005	2981	36	0.62
2008	53882	3042	0	0.00
2009	20961	1010	0	0.00
2010	41111	2123	0	0.00
2011	66368	4257	214	3.22
2012	50328	3513	38	0.76
2013	79524	5327	108	1.36
2014	59337	2779	7	0.12
2015	41543	1987	1	0.02
2016	53005	2772	0	0.00
2017	46163	2710	93	2.01
2018	30926	1530	148	2.49
2019	50408	2590	192	3.81
2020	65884	3320	11	0.17
2021	57157	2547	3	0.05



Thank You



Questions?