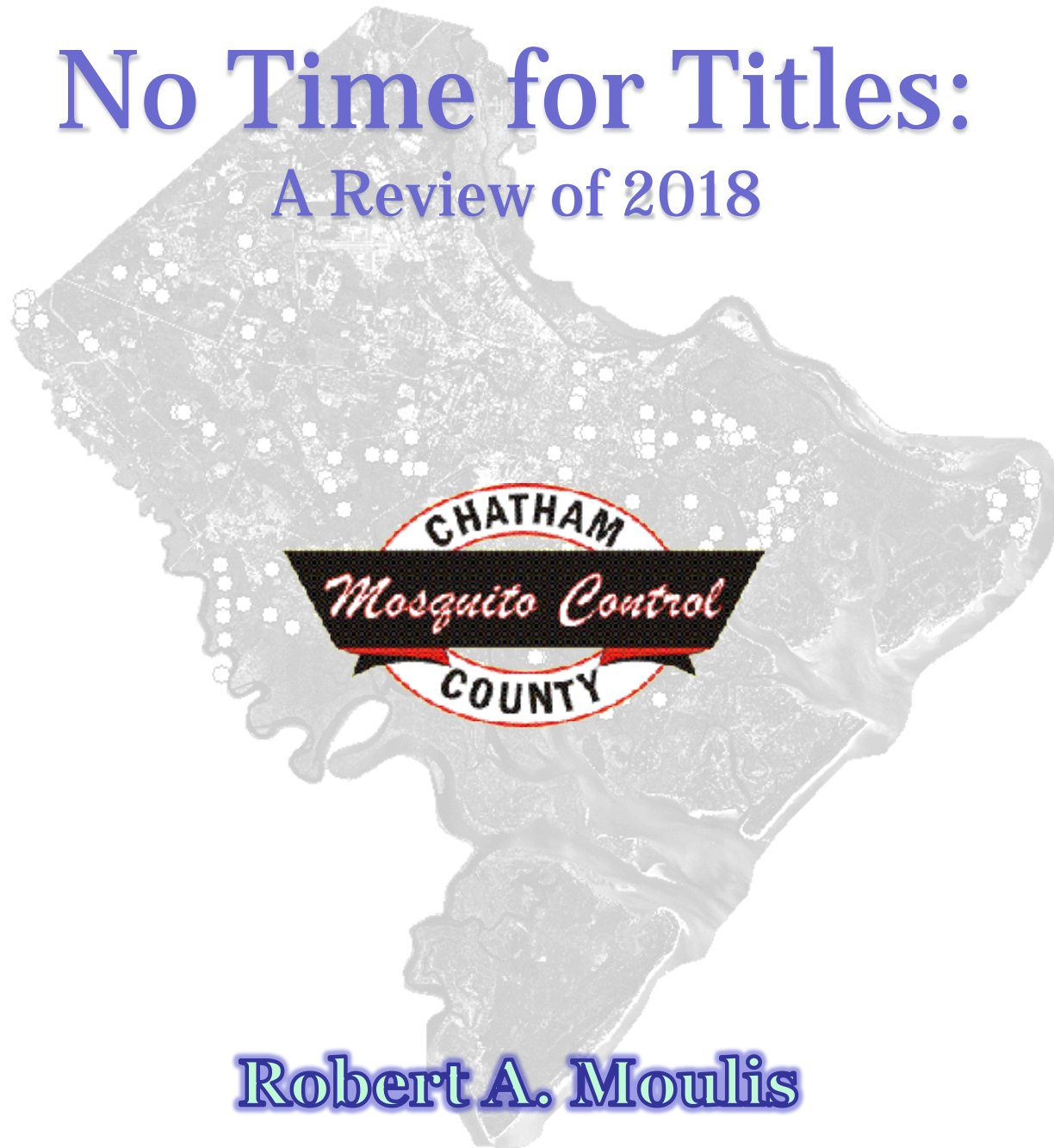


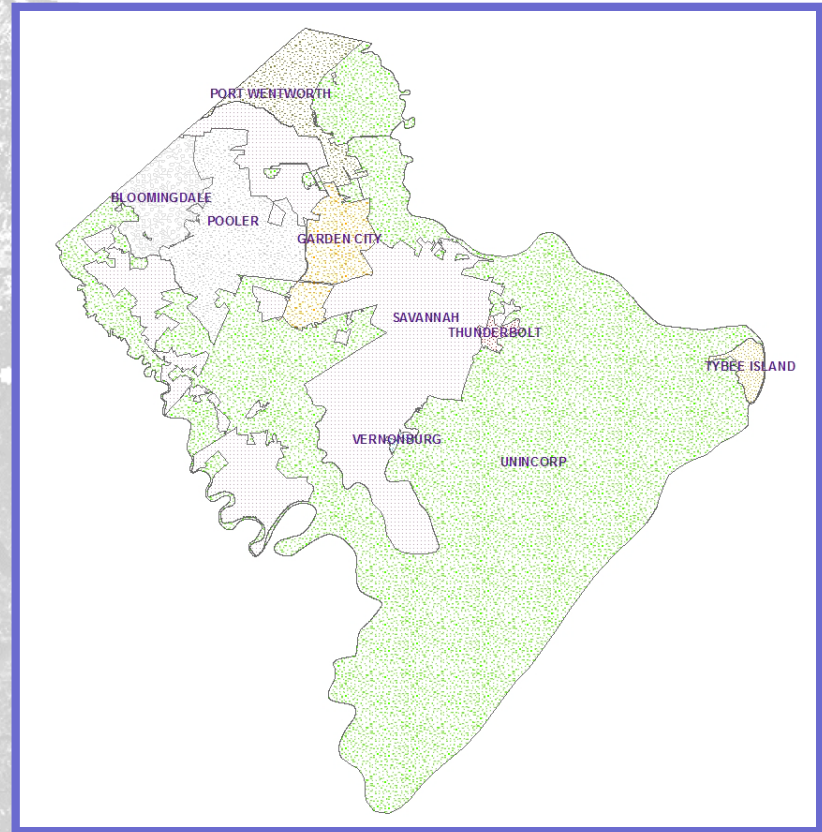
No Time for Titles:

A Review of 2018

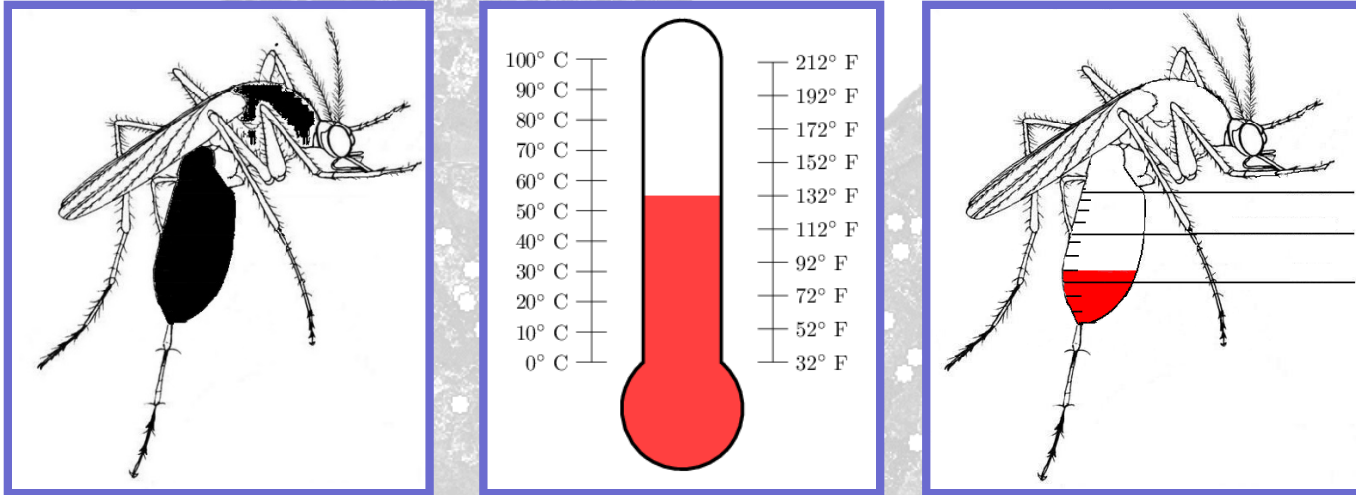


Robert A. Moulis

A Review of 2018: Chatham County: the northern-most coastal county



A Review of 2018: Mosquito Meter

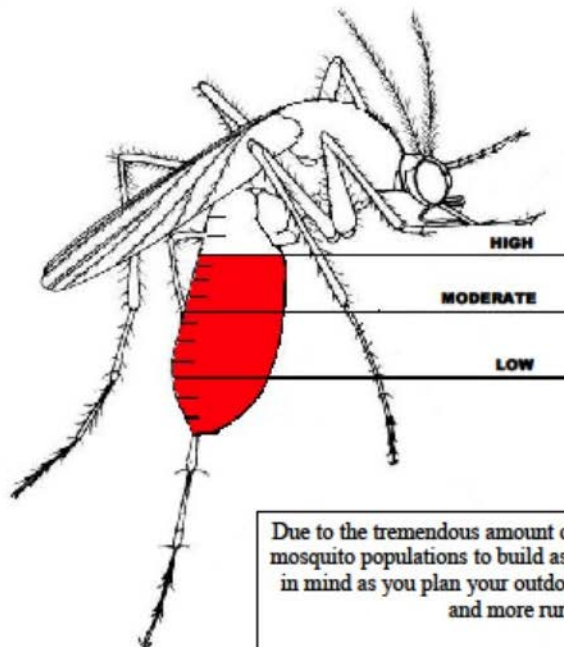


- Originally devised in 2009 for the Savannah Morning News to appear in their website
- Because of differences between what the general public might view as a mosquito problem, two separate scales were used (i.e. nuisance and vector mosquitoes)
- Although both gauges can be considered subjective, they are based on a number of surveillance, administrative, and climatic data
- Currently our meter can be viewed from the county's website: (<http://mosquitocontrol.chathamcounty.org/Portals/MosquitoControl/SkeeterMeter.pdf>)
- The meter is updated on a weekly basis during the mosquito season

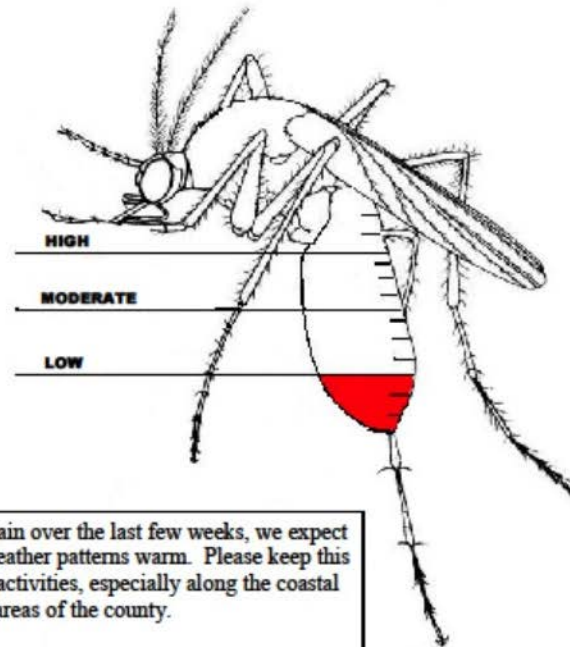
A Review of 2018: Mosquito Meter

Mosquito Forecast

NUISANCE THREAT



DISEASE THREAT



Due to the tremendous amount of rain over the last few weeks, we expect mosquito populations to build as weather patterns warm. Please keep this in mind as you plan your outdoor activities, especially along the coastal and more rural areas of the county.

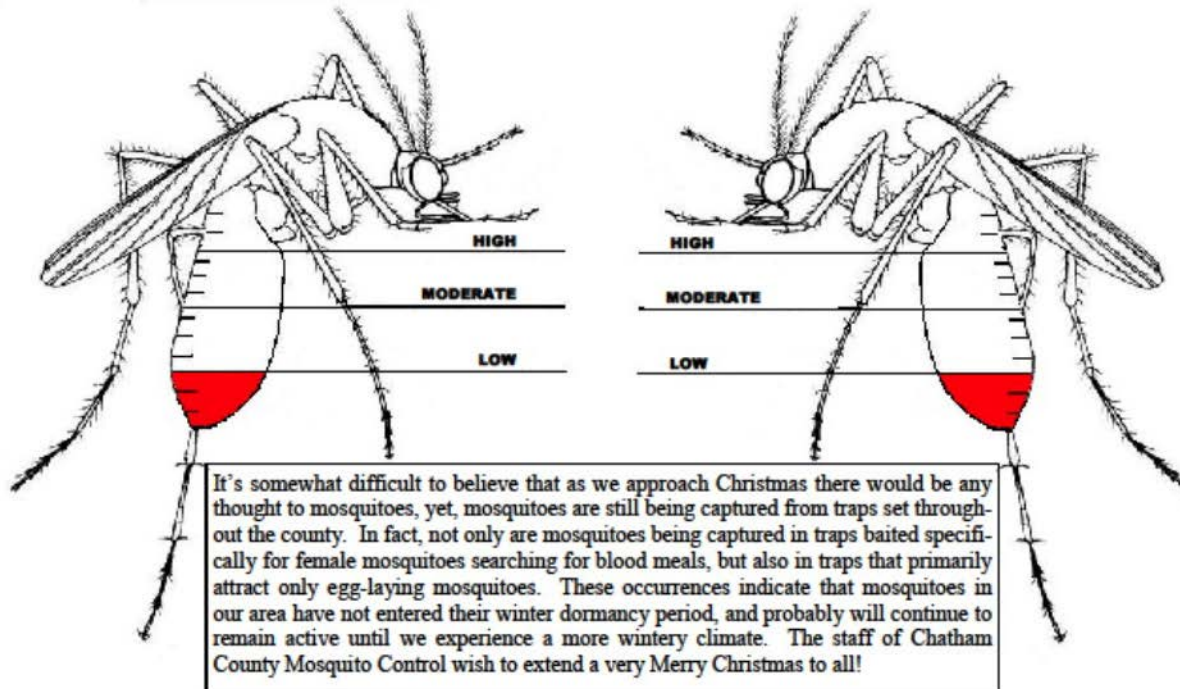
Chatham County Mosquito Control
912-790-2540

A Review of 2018: Mosquito Meter

Mosquito Forecast For the Week of December 18-25

NUISANCE LEVEL

DISEASE THREAT



It's somewhat difficult to believe that as we approach Christmas there would be any thought to mosquitoes, yet, mosquitoes are still being captured from traps set throughout the county. In fact, not only are mosquitoes being captured in traps baited specifically for female mosquitoes searching for blood meals, but also in traps that primarily attract only egg-laying mosquitoes. These occurrences indicate that mosquitoes in our area have not entered their winter dormancy period, and probably will continue to remain active until we experience a more wintery climate. The staff of Chatham County Mosquito Control wish to extend a very Merry Christmas to all!

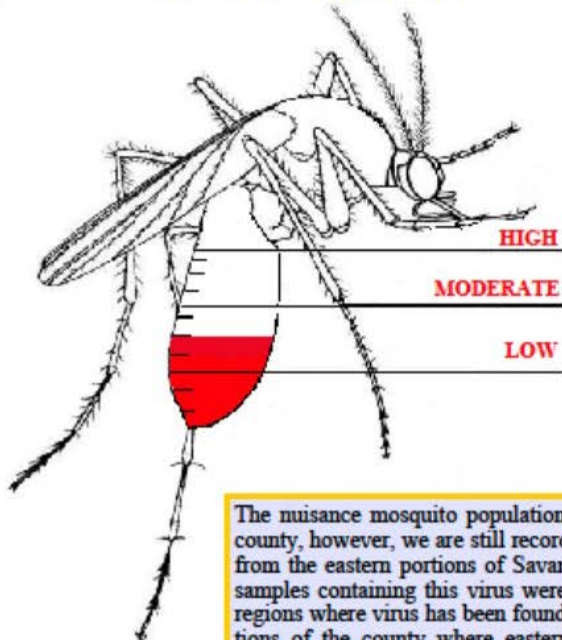
Chatham County Mosquito Control
790-2540

A Review of 2018: Mosquito Meter

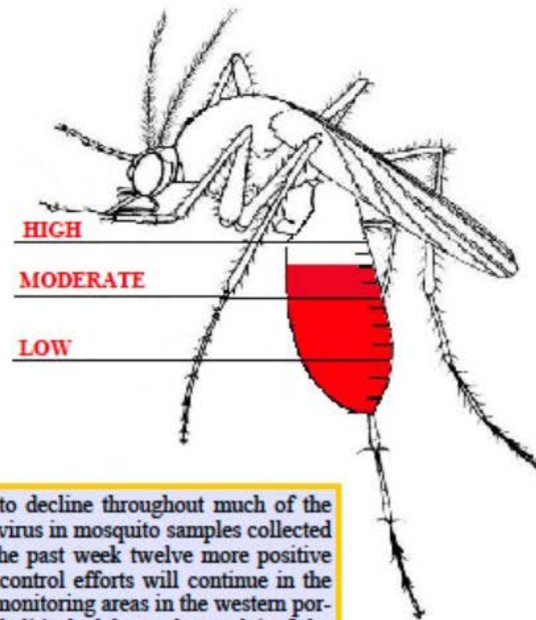
Mosquito Forecast

For the Week of August 5 - 11

NUISANCE LEVEL



DISEASE THREAT



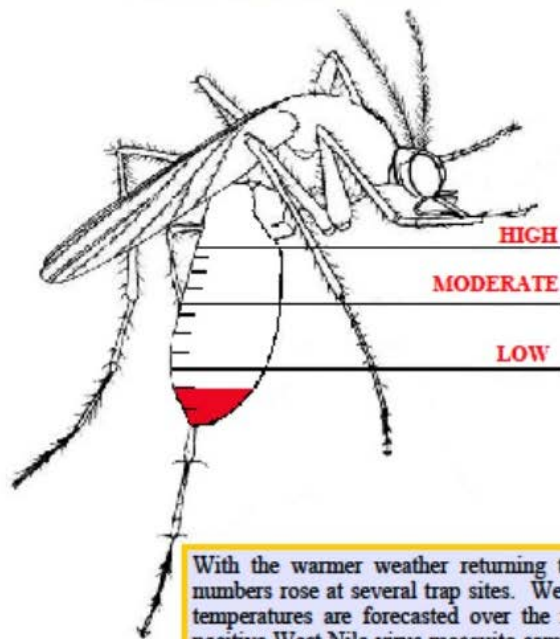
The nuisance mosquito populations have started to decline throughout much of the county, however, we are still recording West Nile virus in mosquito samples collected from the eastern portions of Savannah. During the past week twelve more positive samples containing this virus were detected, and control efforts will continue in the regions where virus has been found. We are also monitoring areas in the western portions of the county where eastern equine encephalitis had been detected in July. Please call Mosquito Control if you have any concerns about mosquitoes in your area.

Chatham County Mosquito Control
912-790-2540

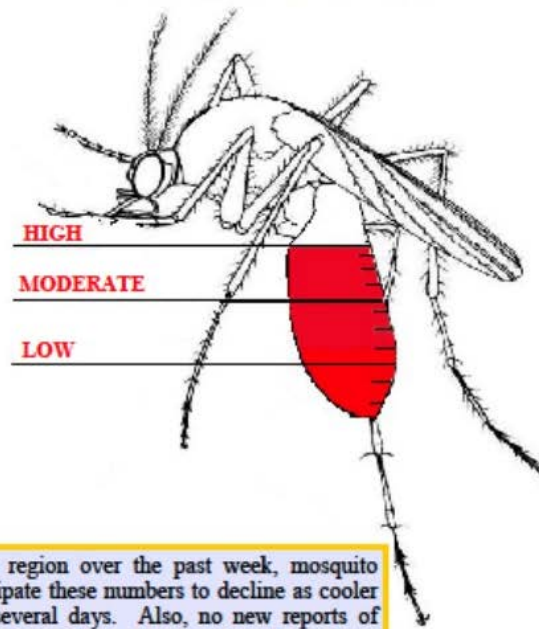
A Review of 2018: Mosquito Meter

Mosquito Forecast For the Week of November 11-17

NUISANCE LEVEL



DISEASE THREAT



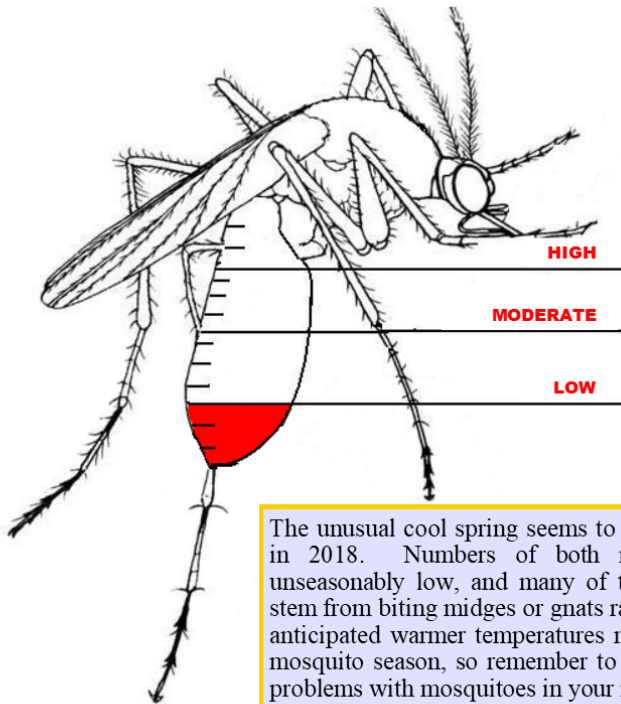
With the warmer weather returning to the region over the past week, mosquito numbers rose at several trap sites. We anticipate these numbers to decline as cooler temperatures are forecasted over the next several days. Also, no new reports of positive West Nile virus mosquito samples were made for the second week in a row. However, despite these encouraging signs, the disease threat still remains high as both species of mosquitoes that have been found positive for West Nile virus in 2017 continue to be seen in a number of sites throughout the county. Please call Mosquito Control should you have any mosquito related problems in your area.

Chatham County Mosquito Control
912-790-2540

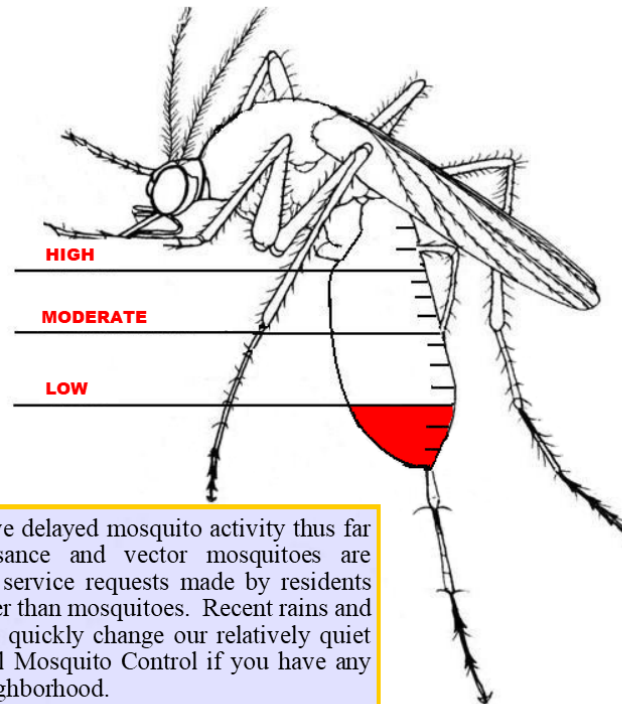
A Review of 2018: Mosquito Meter

Mosquito Forecast For the Week of April 21-27

NUISANCE LEVEL



DISEASE THREAT



The unusual cool spring seems to have delayed mosquito activity thus far in 2018. Numbers of both nuisance and vector mosquitoes are unseasonably low, and many of the service requests made by residents stem from biting midges or gnats rather than mosquitoes. Recent rains and anticipated warmer temperatures may quickly change our relatively quiet mosquito season, so remember to call Mosquito Control if you have any problems with mosquitoes in your neighborhood.

Chatham County Mosquito Control
790-2540

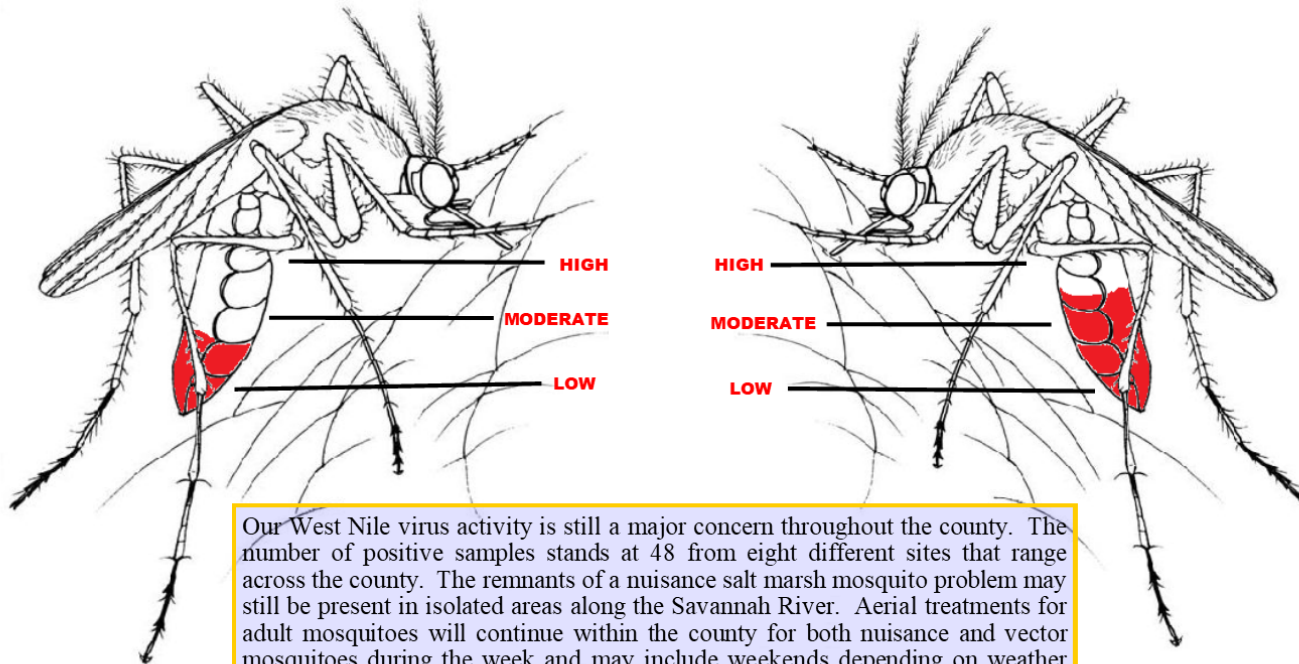
A Review of 2018: Mosquito Meter

Mosquito Forecast

For the Week of August 4 – 10, 2018

NUISANCE LEVEL

DISEASE THREAT



Our West Nile virus activity is still a major concern throughout the county. The number of positive samples stands at 48 from eight different sites that range across the county. The remnants of a nuisance salt marsh mosquito problem may still be present in isolated areas along the Savannah River. Aerial treatments for adult mosquitoes will continue within the county for both nuisance and vector mosquitoes during the week and may include weekends depending on weather conditions. Please call Mosquito Control if you have any questions or concerns about mosquitoes in your area.

Chatham County Mosquito Control
(912) 790-2540

A Review of 2018: New equipment for Source Reduction Team



A Review of 2018: New equipment for Source Reduction Team



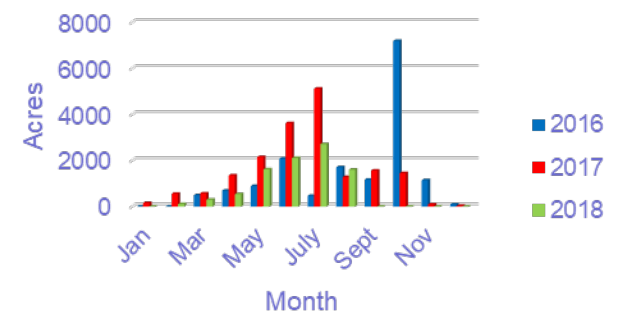
A Review of 2018: Source Reduction Team assist in beaver lodge removal



A Review of 2018: All ULV trucks equipped with Guardian ULV sprayers and GeoTracker/Monitor 4 systems



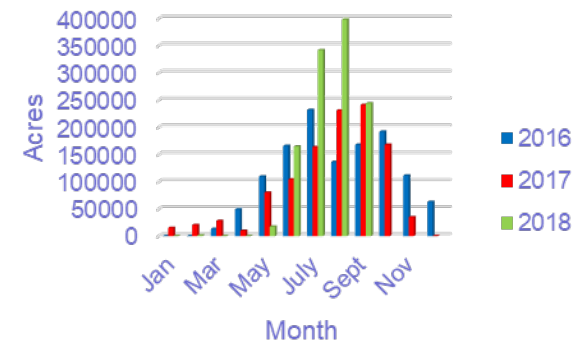
Acres treated by ULV trucks,
2016-18



A Review of 2018: CCMC welcomed a new helicopter to our fleet



Acres treated by aerial ULV,
2016-18



A Review of 2018:
Another species of mosquito found



Psorophora mathesoni

A Review of 2018: Another species of mosquito found

Date	Ps mathesoni	Site	Latitude	Longitude
9/20/2017	4	Hutchinson east of driving range	32.08757	-81.07642
6/4/2018	2	Newport	32.19442	-81.20595
6/4/2018	2	56 Godley Park Way	32.18465	-81.23709
6/4/2018	2	Burton Road curve	32.00646	-81.23086
6/5/2018	2	Huckleberry - CDC	32.09012	-81.38224
6/5/2018	1	Basin Road Park	31.986877	-81.2884
6/11/2018	1	Newport	32.19442	-81.20595
6/11/2018	1	Bloomingtondale Nursery-CDC	32.14044	-81.32699
6/12/2018	8	Bloomingtondale - CDC	32.10987	-81.32208
6/12/2018	2	Chevis Rd	31.96252	-81.24048
6/12/2018	1	Huckleberry - Exit	32.09012	-81.38224
6/12/2018	1	Bloomingtondale - Exit	32.10987	-81.32208
6/12/2018	1	Huckleberry - CDC	32.09012	-81.38224
6/19/2018	2	Bloomingtondale - CDC	32.10987	-81.32208
6/19/2018	1	Chevis Rd	31.96252	-81.24048
6/26/2018	1	Bloomingtondale - CDC	32.10987	-81.32208
8/7/2018	1	Huckleberry - Exit	32.09012	-81.38224
8/14/2018	1	Bloomingtondale - CDC	32.10987	-81.32208
8/21/2018	1	Huckleberry - Exit	32.09012	-81.38224

Psorophora mathesoni

A Review of 2018:
Another species of mosquito found



Psorophora mathesoni

**A Review of 2018:
Another species of mosquito found**



Aedes japonicus

A Review of 2018: Another species of mosquito found



Date	Number of <i>Ae japonicus</i>	Site Name	Latitude	Longitude
6/13/2018	1	W. Hutch (gravid)	32.09681	-81.0974

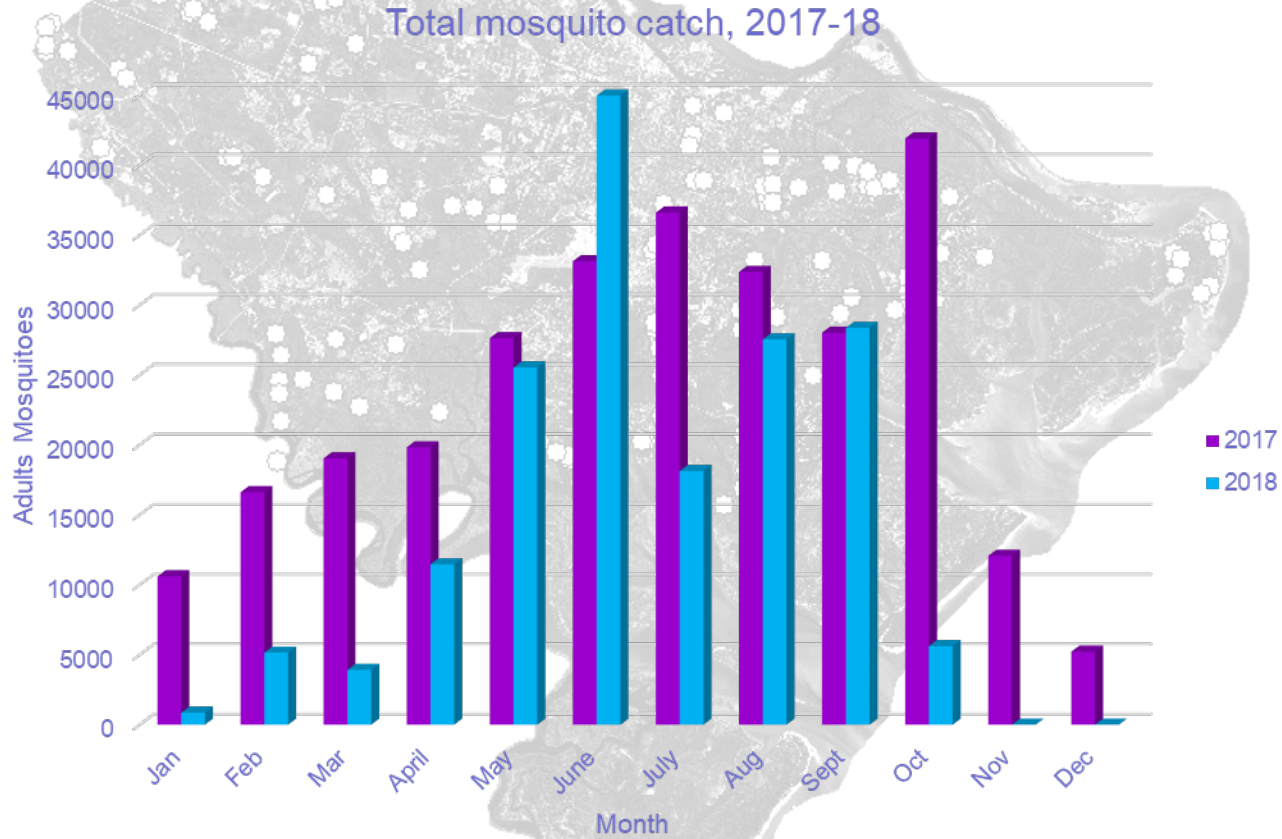
Aedes japonicus

A Review of 2018:
Another species of mosquito found



Aedes japonicus

A Review of 2018: Surveillance



A Review of 2018: West Nile virus came a calling

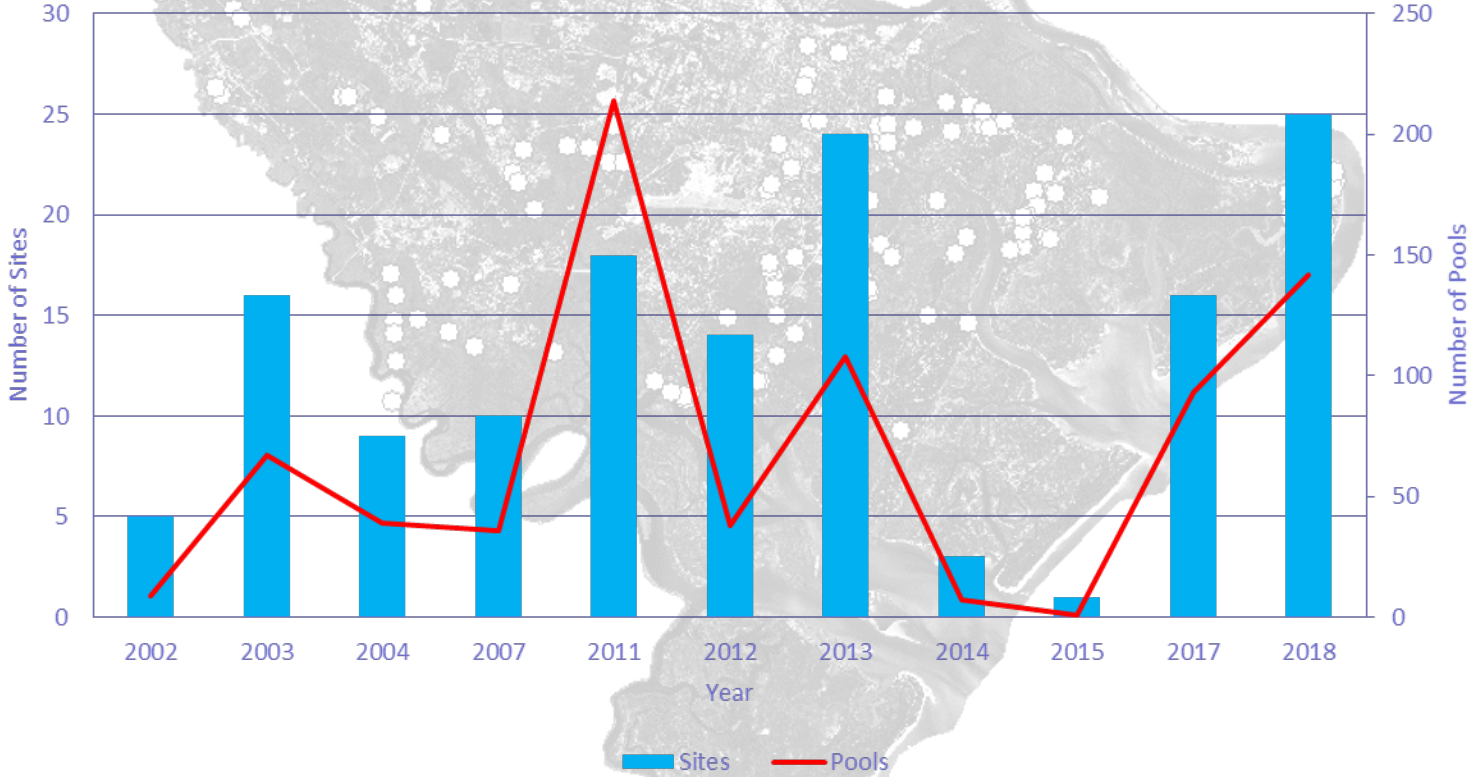
Table 1. Occurrence of West Nile Virus in Chatham County

Sample Type	Year																	
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018*
Mosquito Pools	-	9	67	39	-	-	36	-	-	-	214	38	108	7	1	-	93	139
Wild Birds	5	24	27	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Sentinel Chickens	-	-	6	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3
Horses	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Humans	-	-	9	1	-	1	-	-	-	-	10	1	1	-	-	-	6	1
Human Fatalities	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-

* Updated to Oct 11, 2018

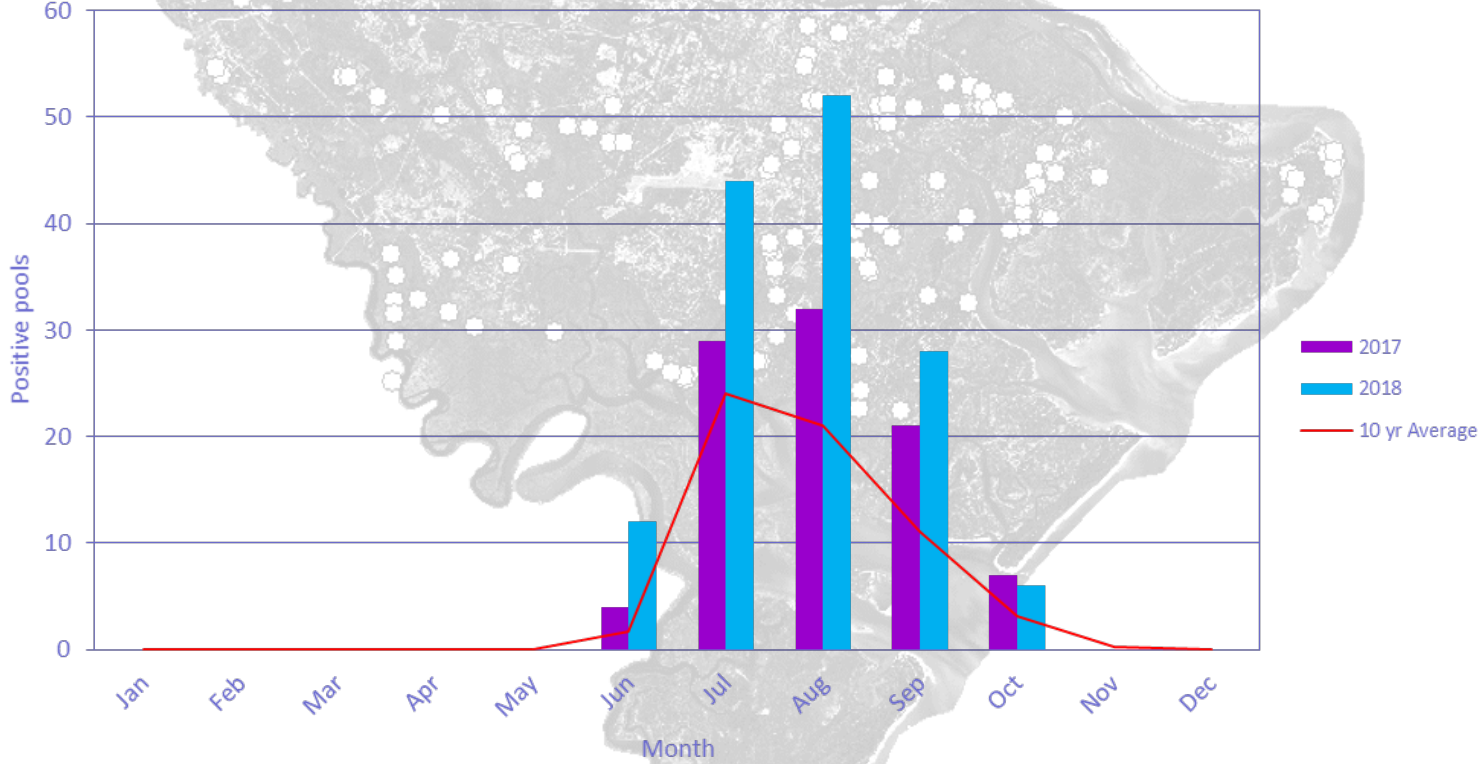
A Review of 2018: West Nile virus came a calling

Comparison of number of WNV sites with number of WNV pools by years



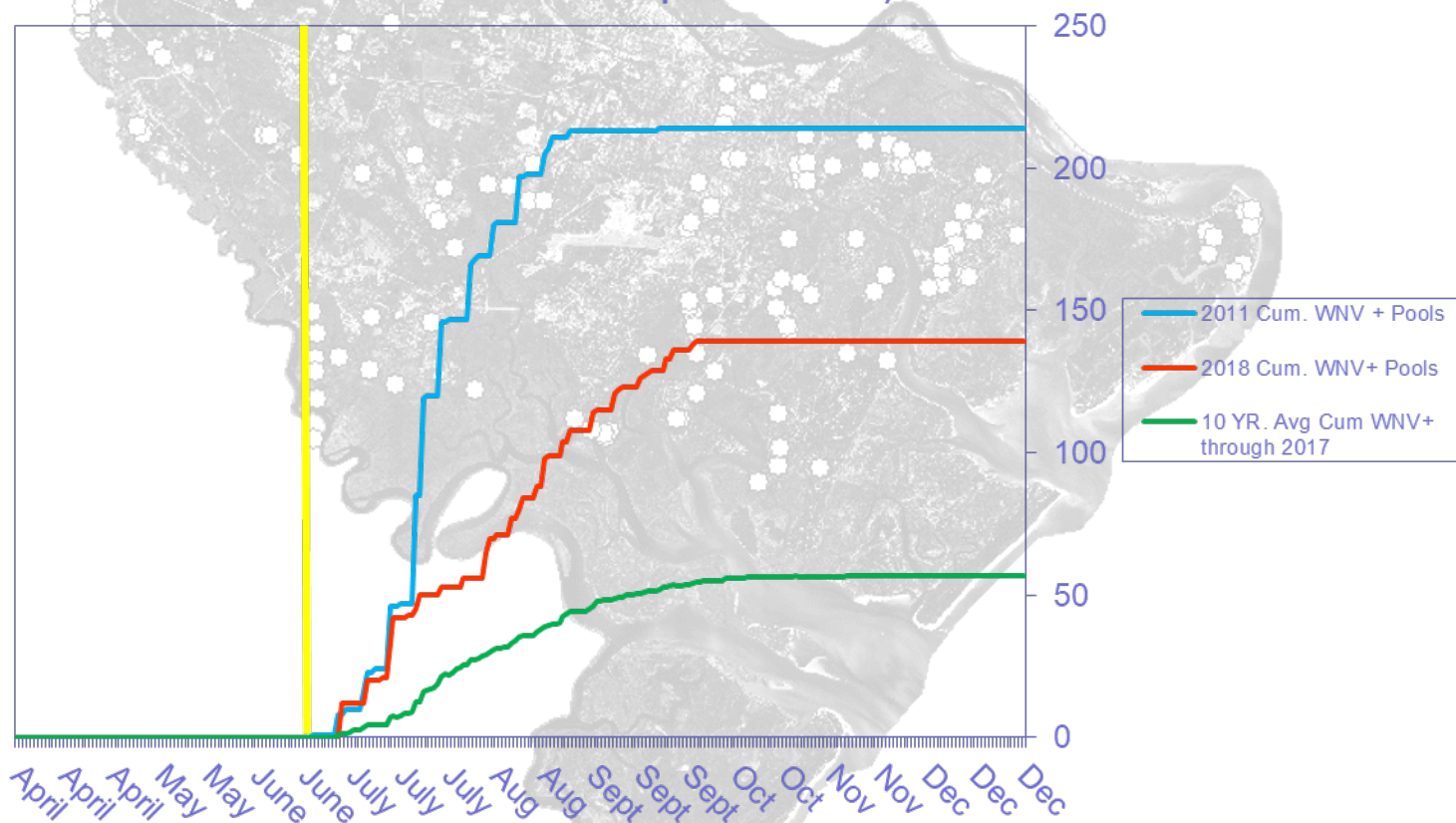
A Review of 2018: West Nile virus came a calling

Comparison of West Nile virus positive pools between 2017 and 2018

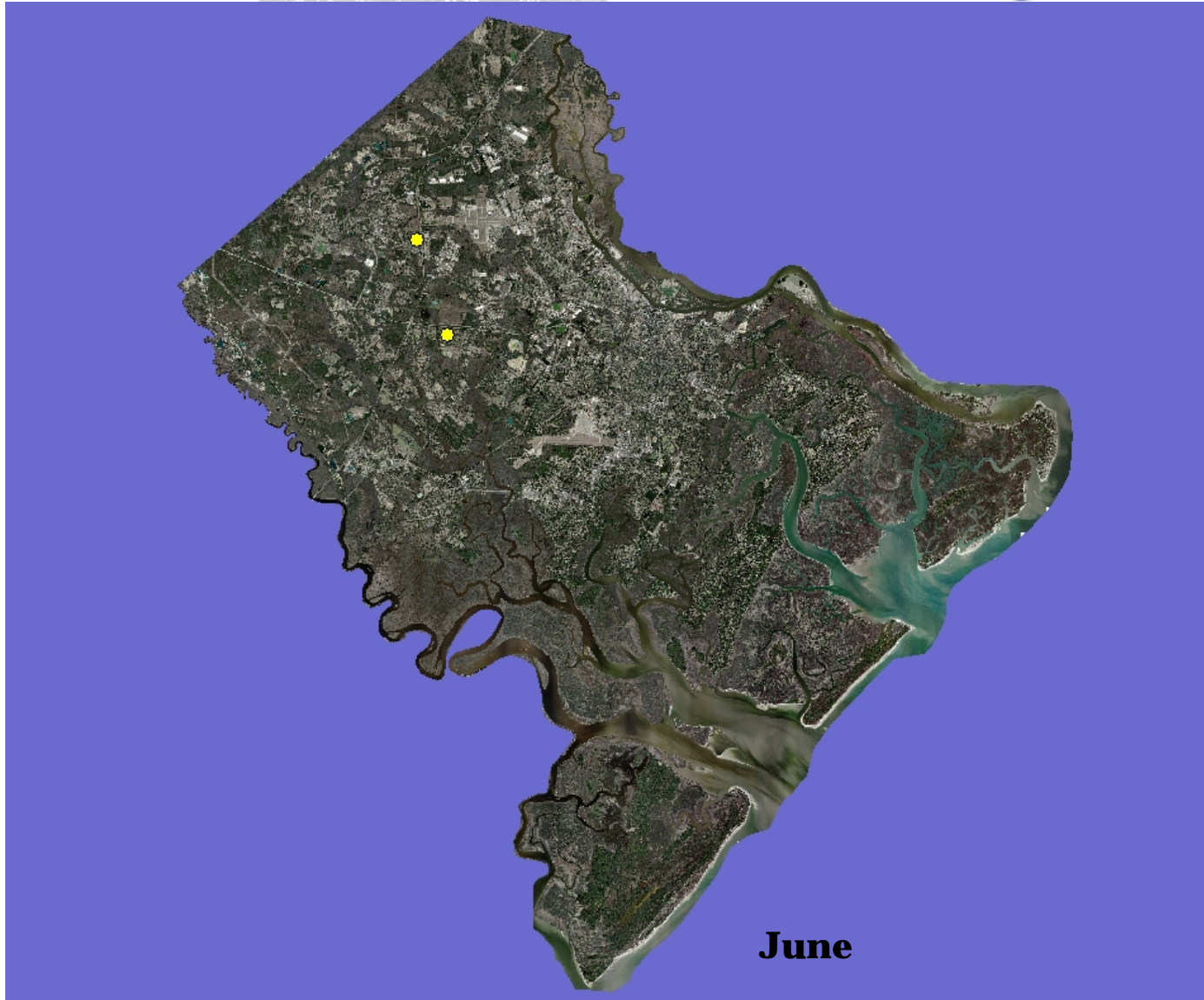


A Review of 2018: West Nile virus came a calling

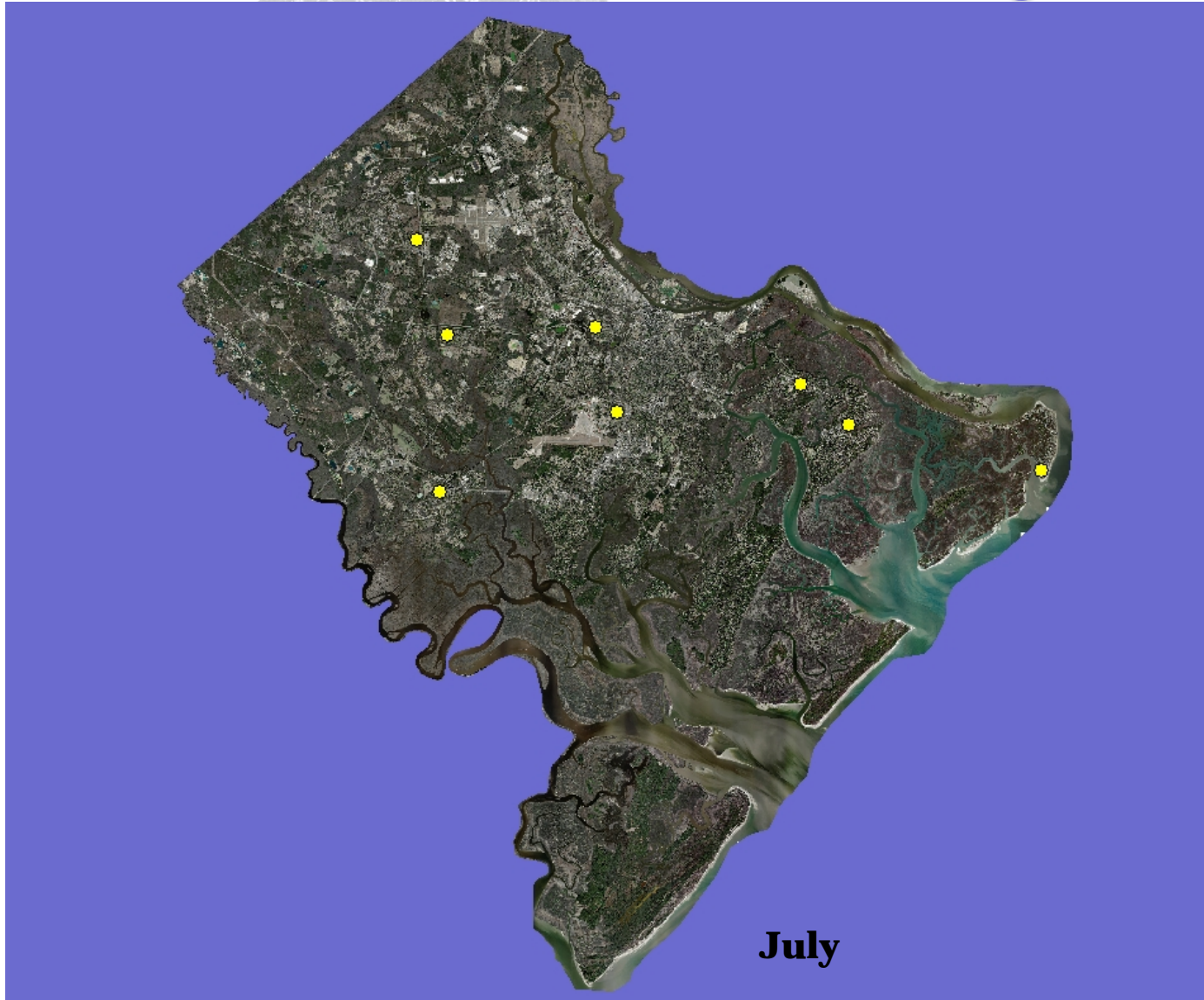
Number of positive WNV pools in Chatham County, Georgia, 2002-18 (yellow line indicates earliest WNV pool on record).



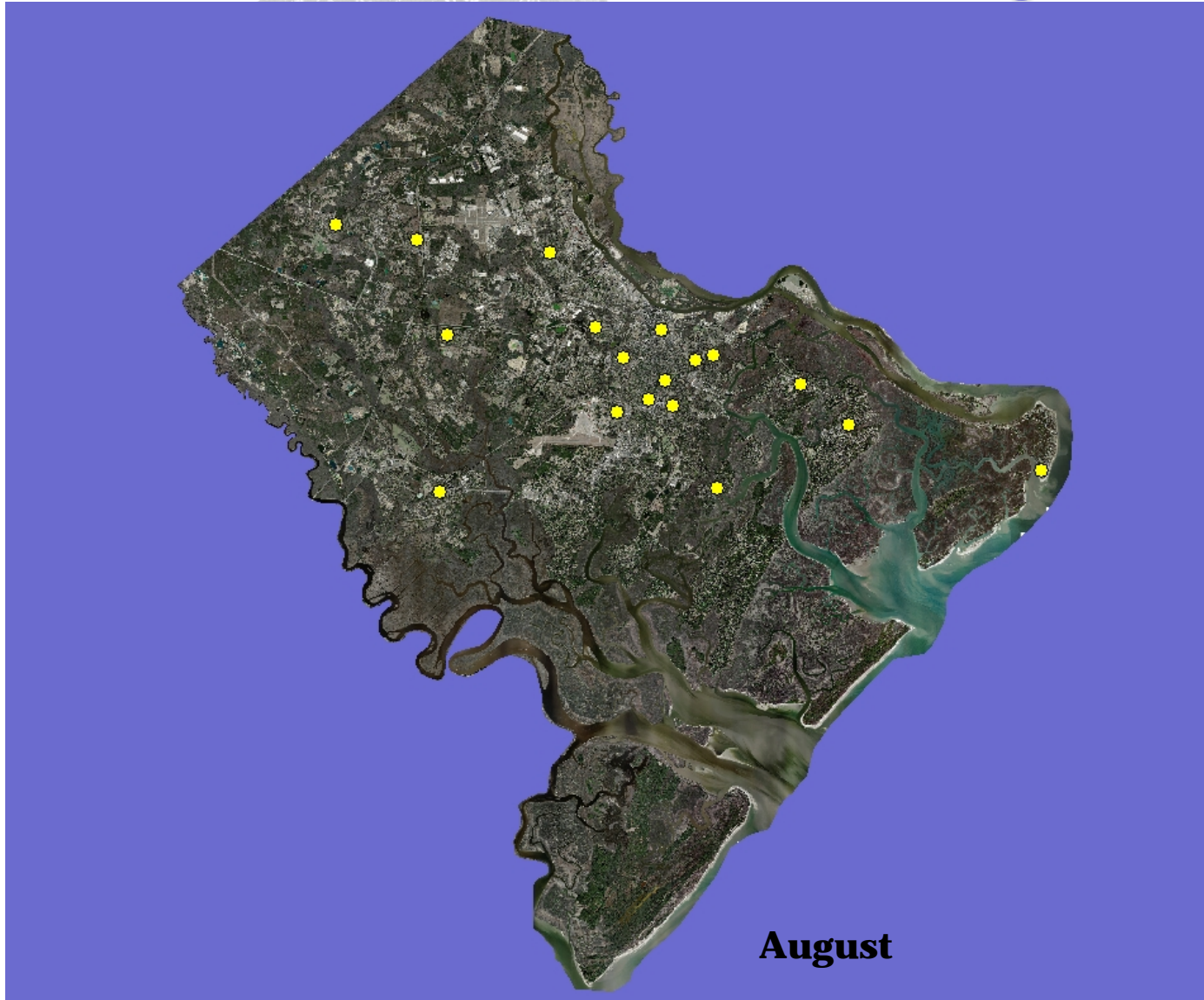
A Review of 2018: West Nile virus came a calling



A Review of 2018: West Nile virus came a calling



A Review of 2018: West Nile virus came a calling



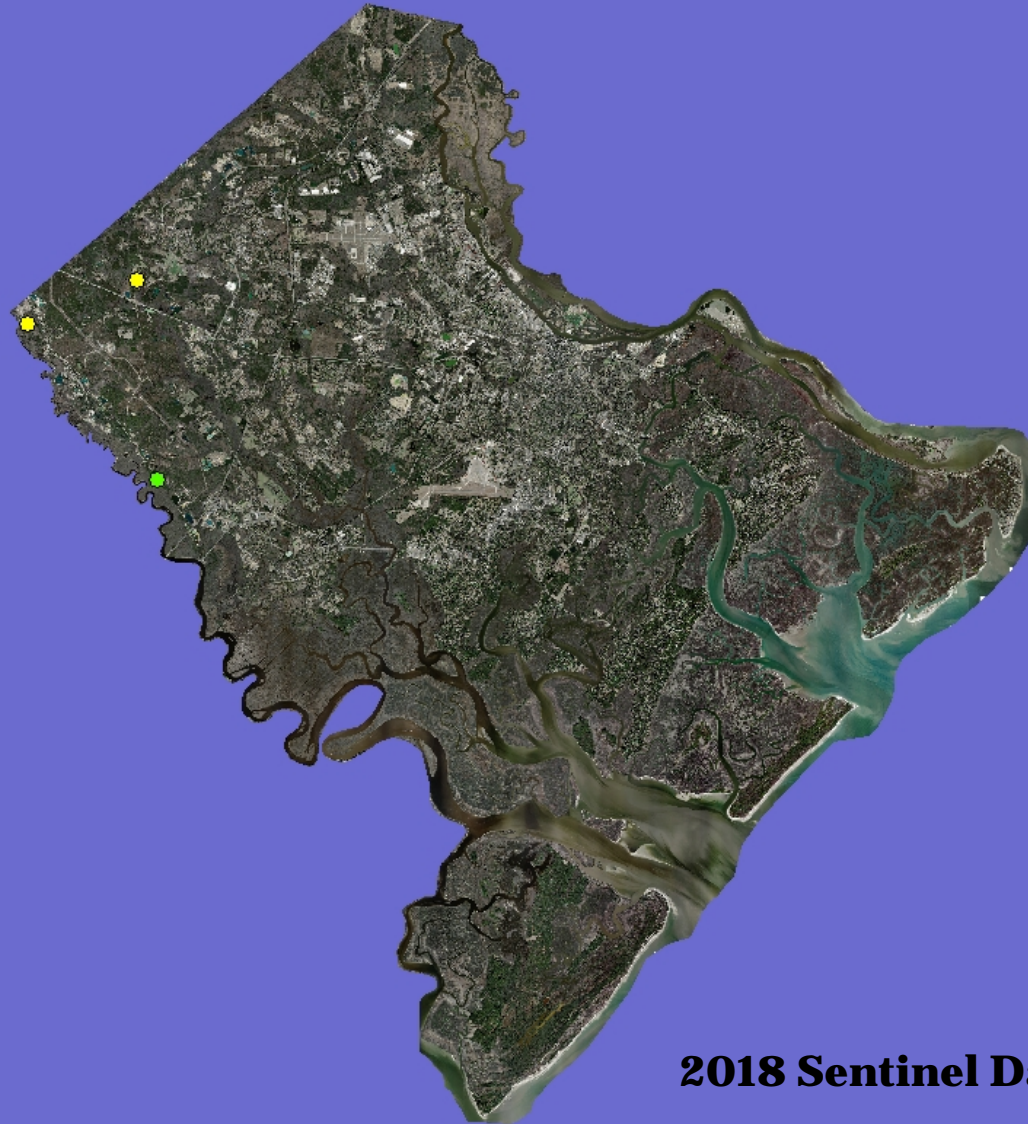
A Review of 2018: West Nile virus came a calling



A Review of 2018: West Nile virus came a calling



A Review of 2018: West Nile virus came a calling



2018 Sentinel Data

A Review of 2018: West Nile virus came a calling



THANK YOU



THE



END

