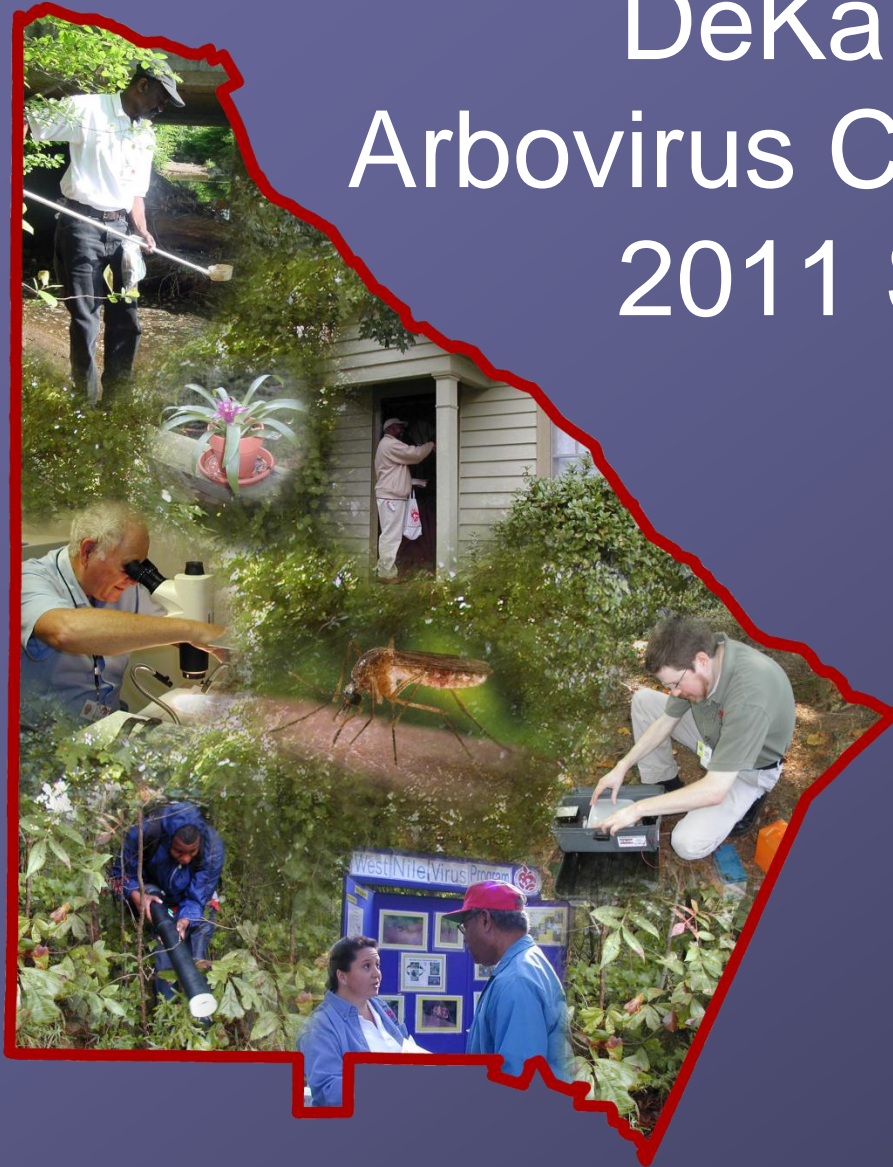


DeKalb County Arbovirus Control Program 2011 Summary



Juanette Willis
Arbovirus Coordinator

Georgia Mosquito Control
Association

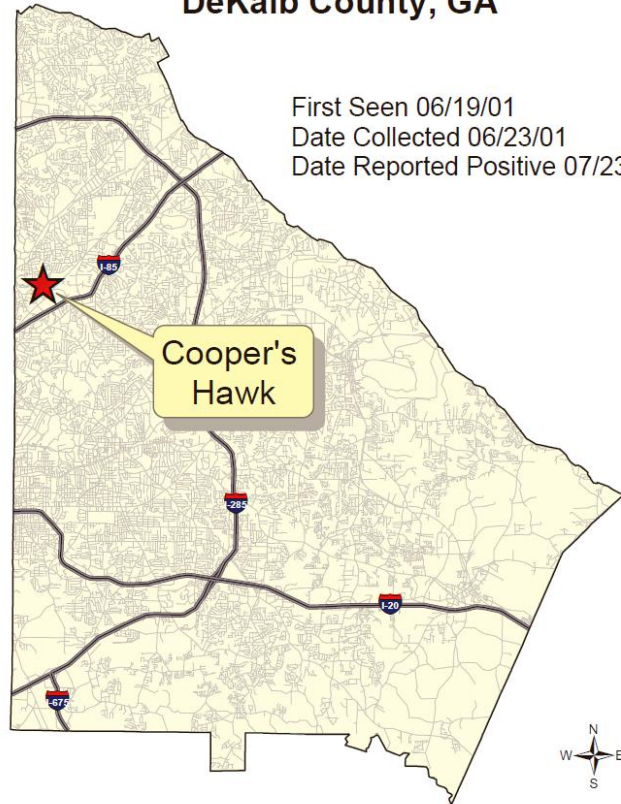
Annual Meeting
October 17, 2012

Setting the Scene

July 23, 2011

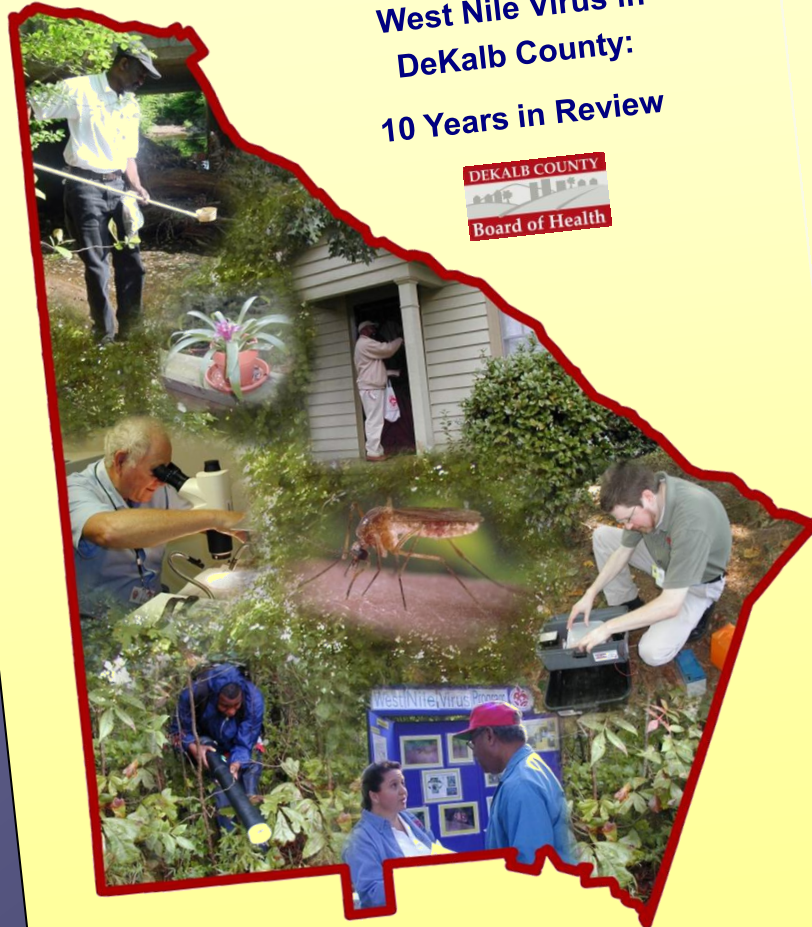


First Positive West Nile Virus Bird Death DeKalb County, GA



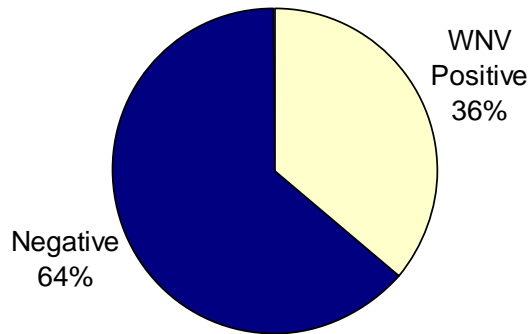
Source: Environmental Health, DeKalb County Board of Health
Projection: GA State Plane West, 1983

**West Nile Virus in
DeKalb County:
10 Years in Review**



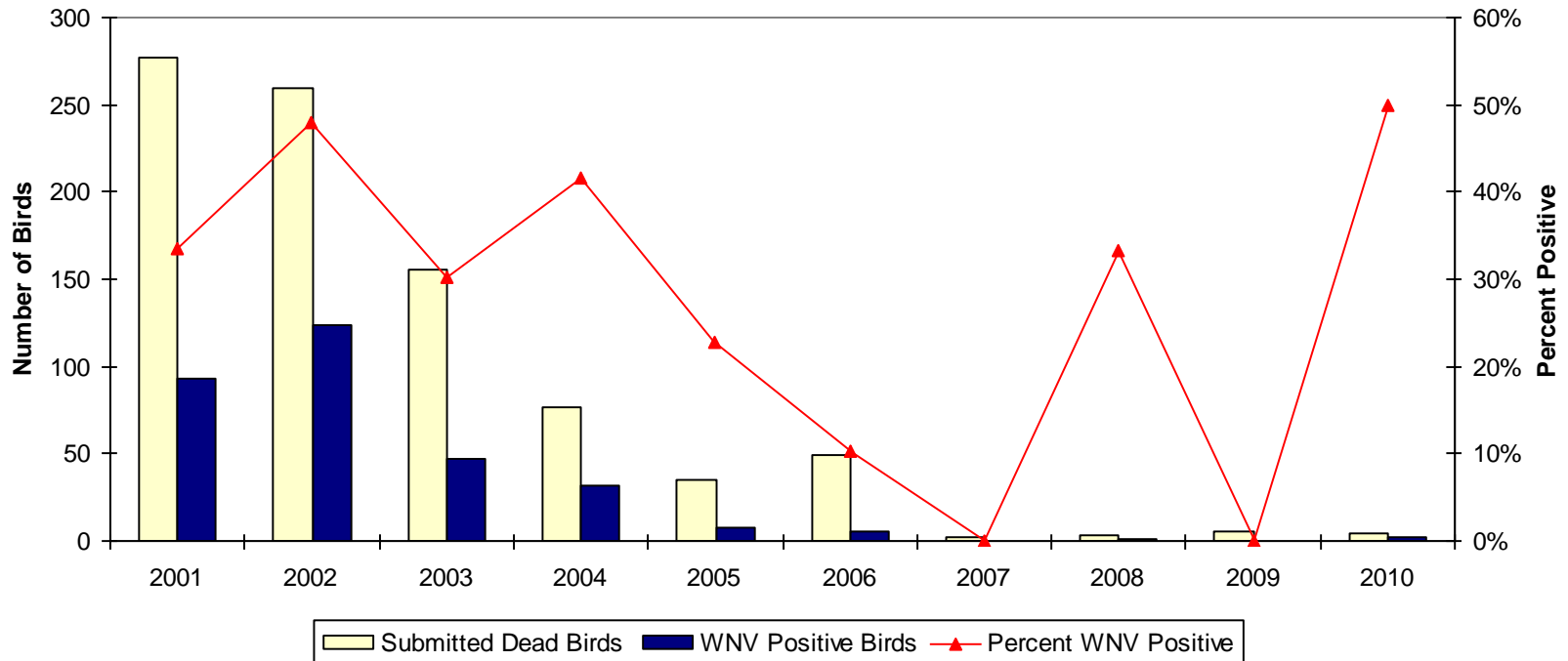
Bird Data

Dead Bird Test Results



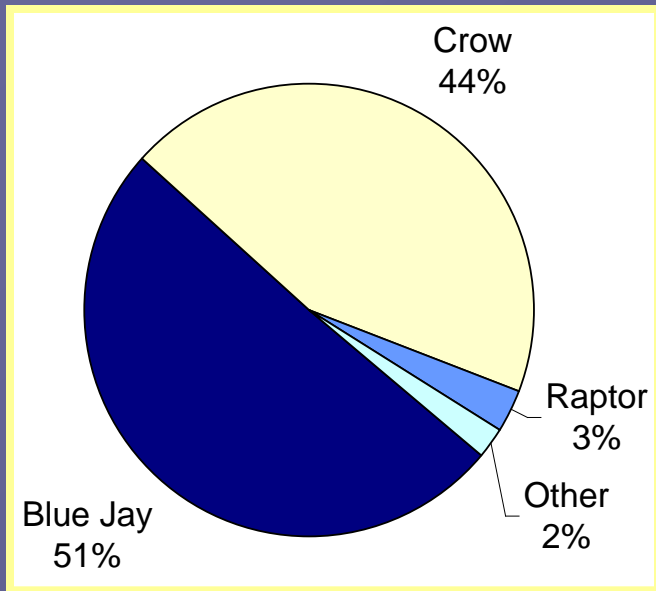
8,486	Dead birds reported
867	Dead birds submitted for testing
312	Dead birds tested positive for WNV

Yearly Submitted Dead Birds



Bird Data

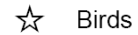
WNV Positive Bird Species



	2001	2002	2003	2004	2005	2006	2008	2010	Grand Total
Blue Jay	47	88	31	18	5	3	1	1	194
Crow	41	35	12	7	3			1	99
Raptor	3	1	1						5
Other	2	2	3	7		2			16
Total	93	124	47	32	8	5	1	2	312

West Nile Virus Positive Activity 2001 - 2008

Type of WNV Positive Activity



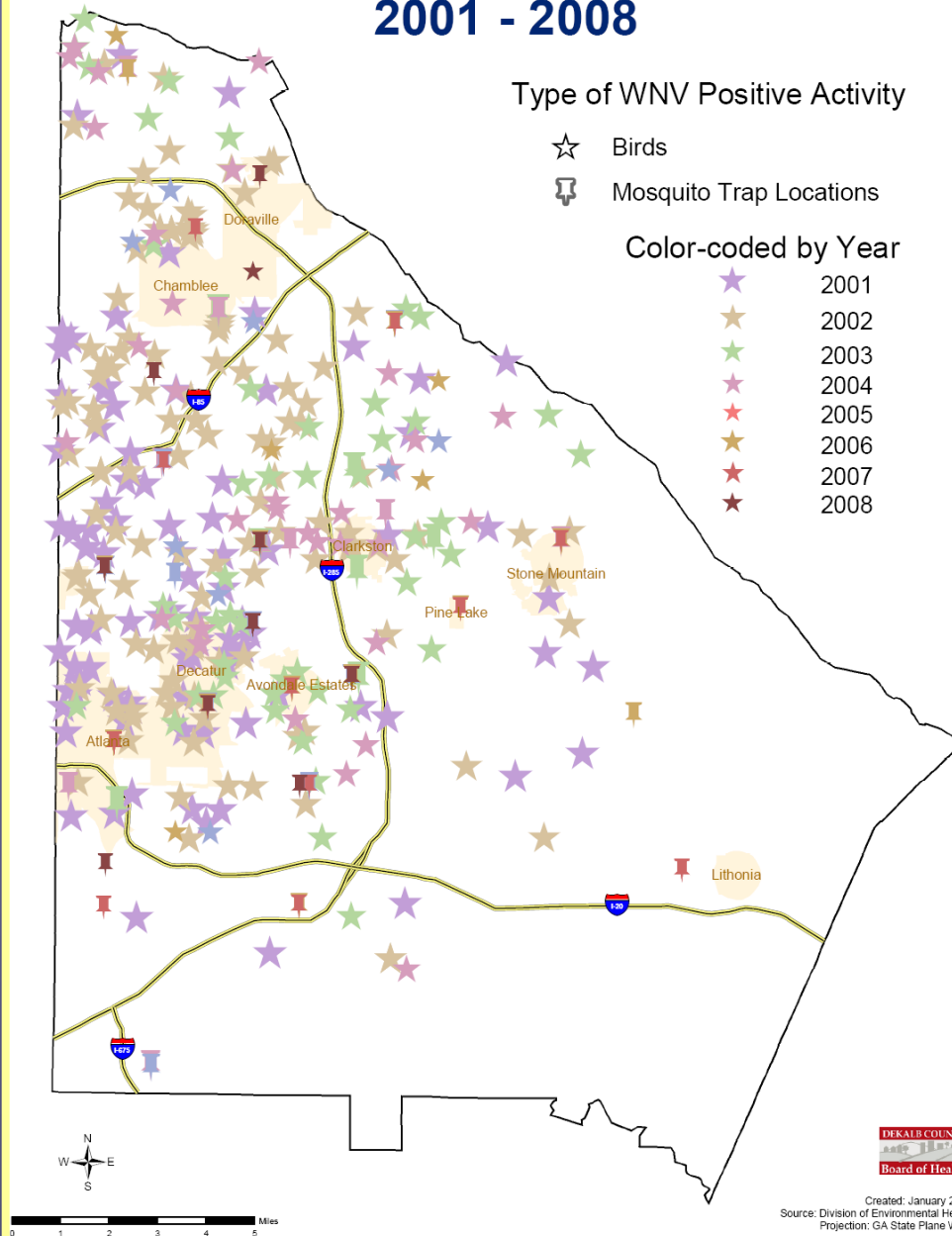
Birds



Mosquito Trap Locations

Color-coded by Year

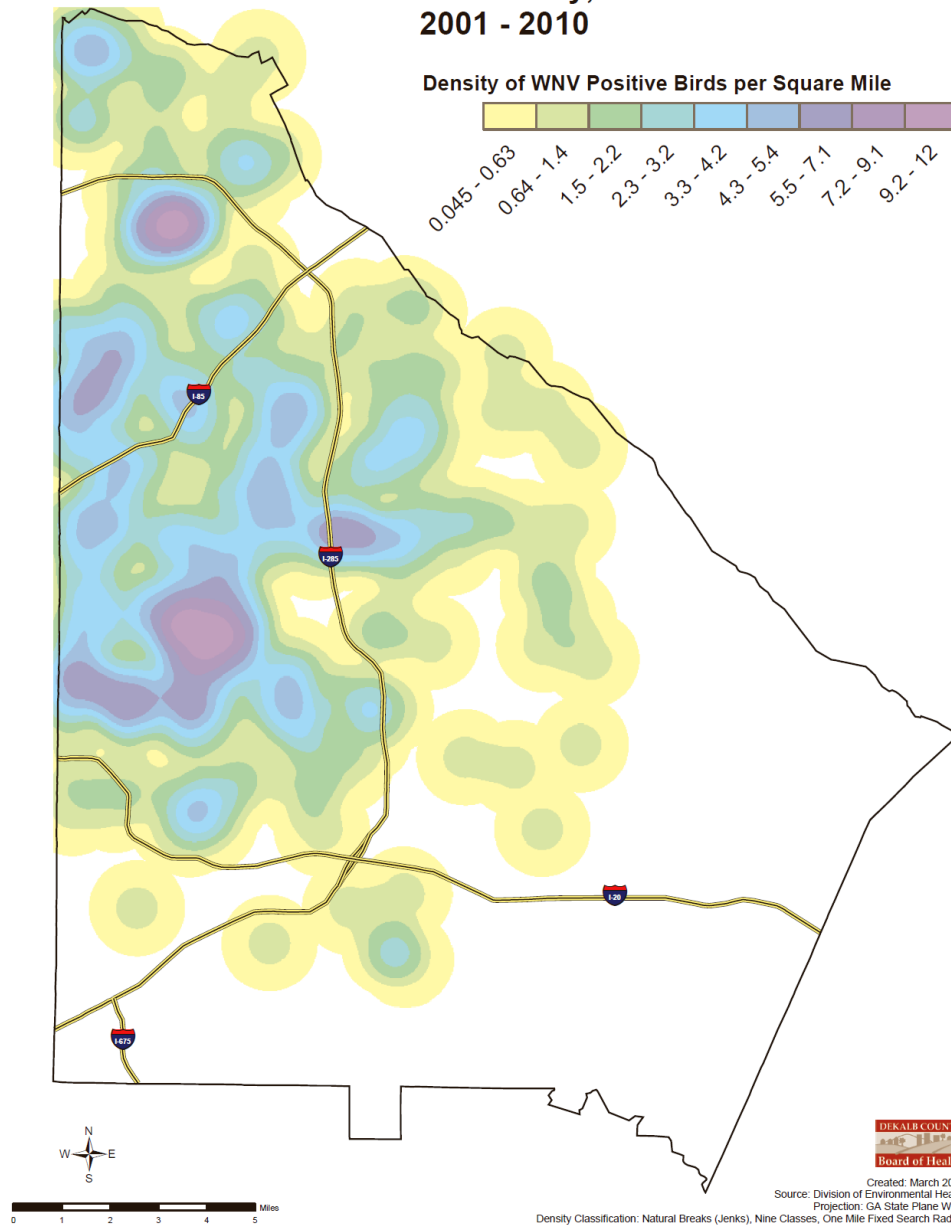
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008



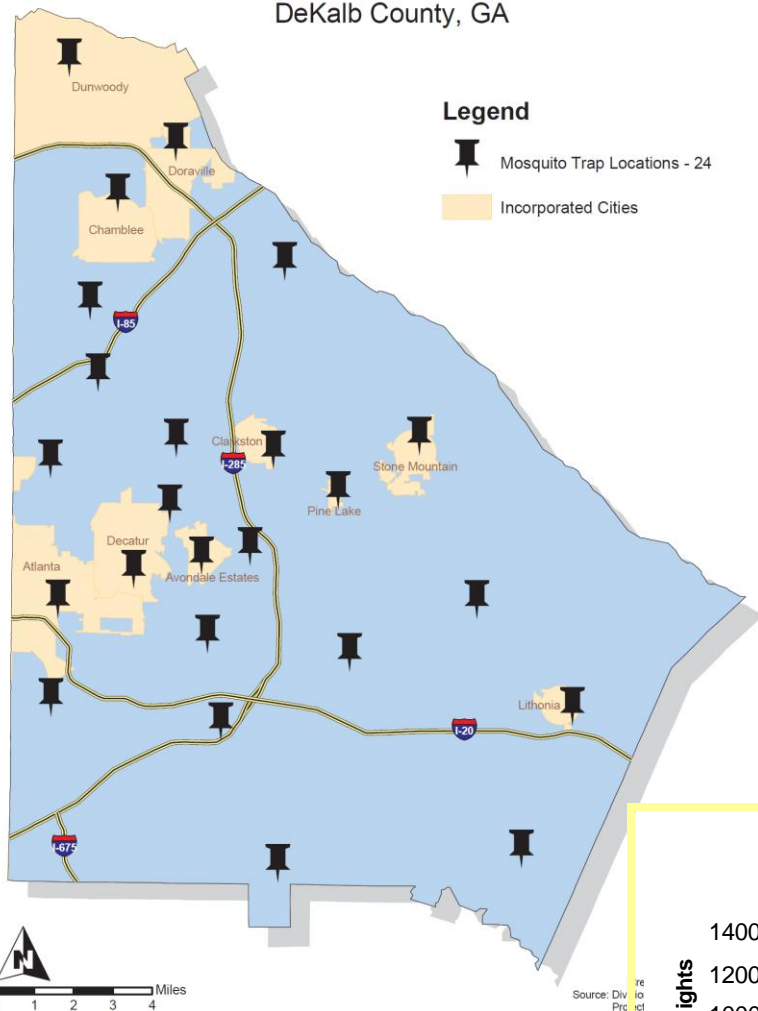
DEKALB COUNTY
Board of Health

Created: January 2009
Source: Division of Environmental Health
Projection: GA State Plane West

West Nile Virus Positive Birds DeKalb County, GA 2001 - 2010



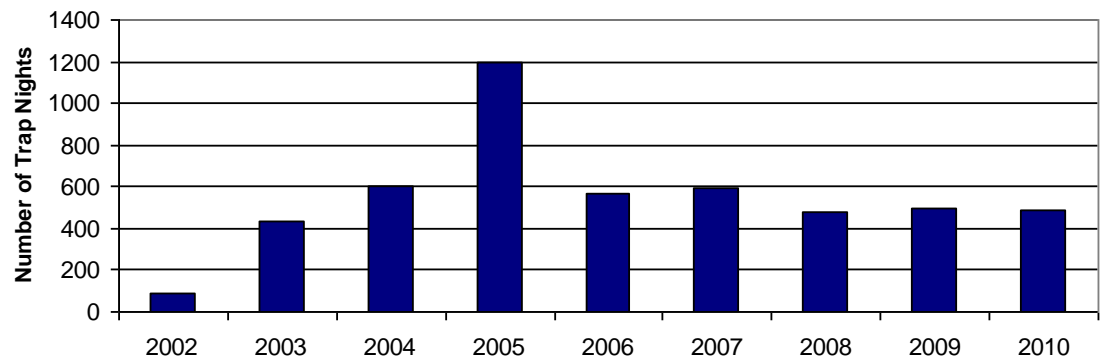
Mosquito Surveillance, 2010 DeKalb County, GA



Mosquito Data

4,424	Mosquito trap nights
93,100	Mosquitoes examined and sorted by species and gender
5,055	Mosquito collections submitted for arbovirus testing
191	Mosquito collections tested positive for WNV
26	Mosquito species collected

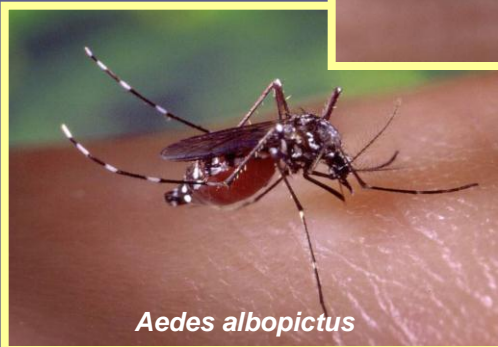
Yearly Mosquito Trap Nights



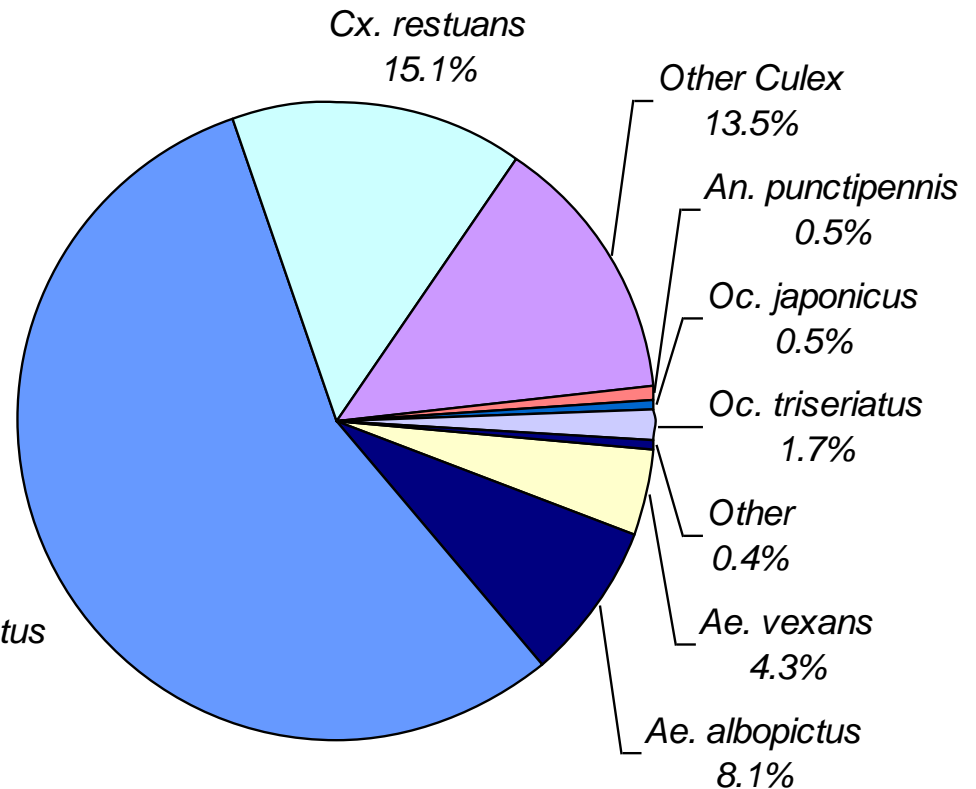
Mosquito Data



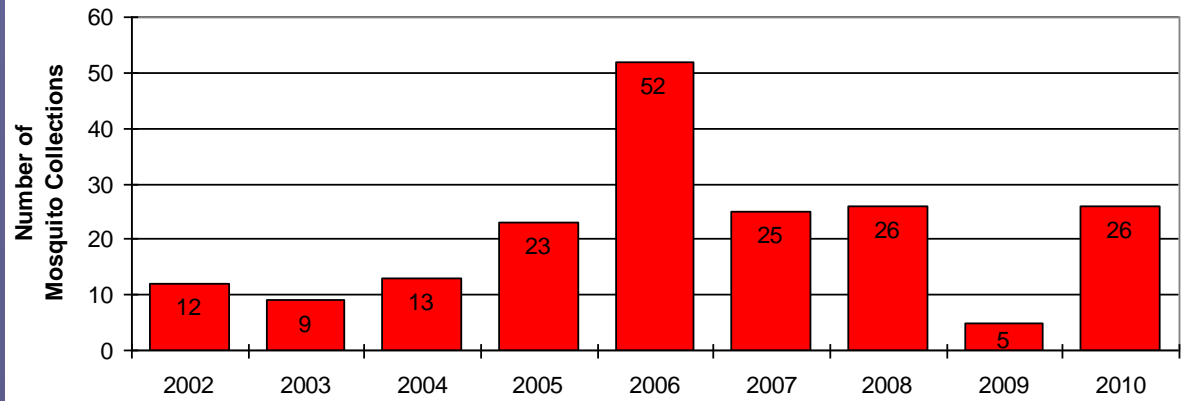
Species of Mosquitoes Collected in DeKalb County, GA 2002-2010



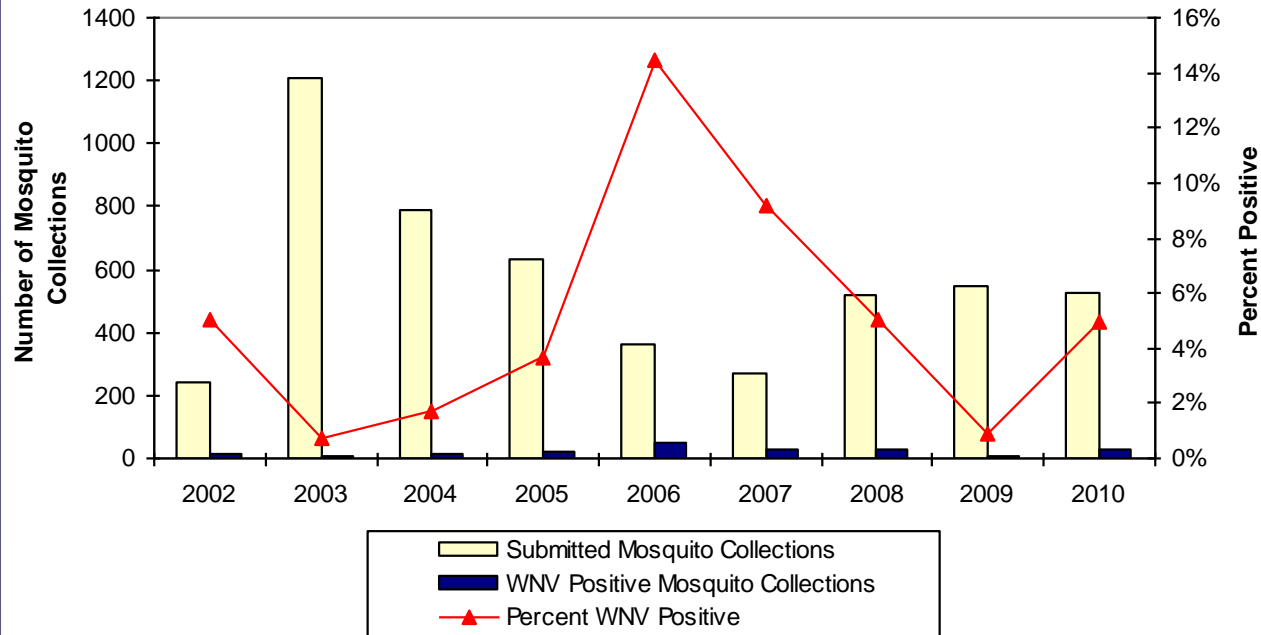
Cx.
quinquefasciatus
55.9%



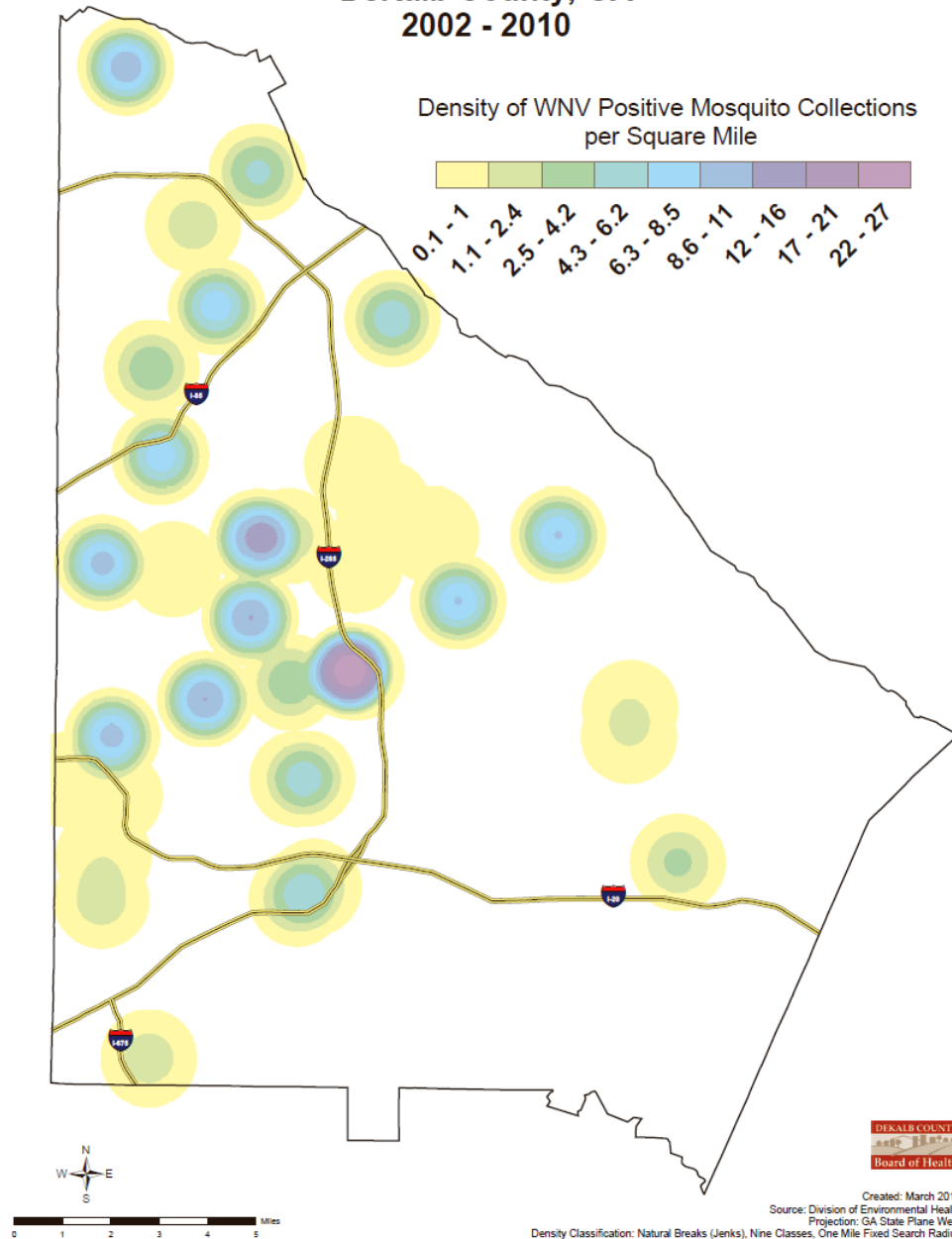
Yearly WNV Positive Mosquito Collections



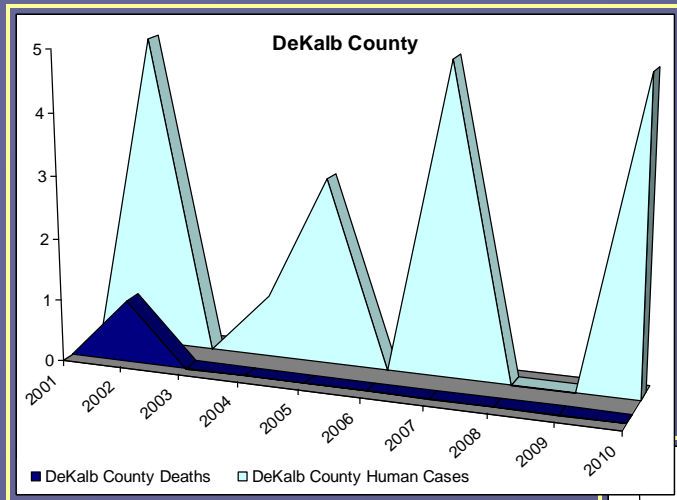
Yearly Submitted Mosquito Collections



West Nile Virus Positive Mosquito Collections DeKalb County, GA 2002 - 2010

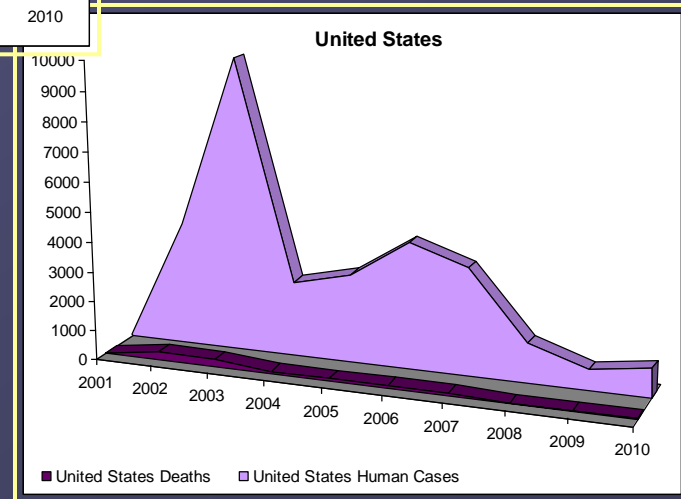
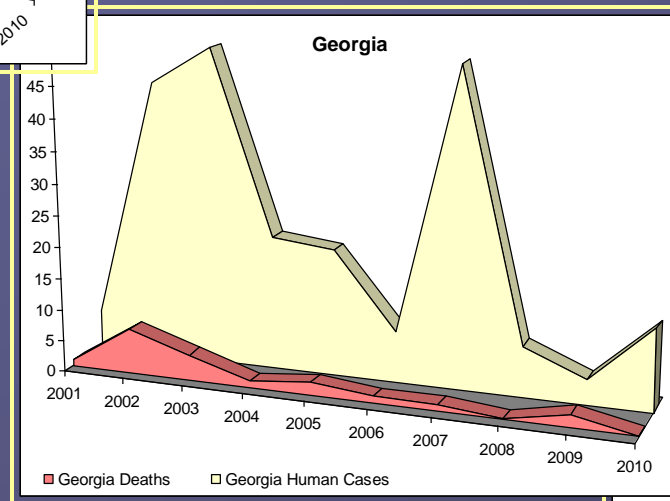


Human Infection Data

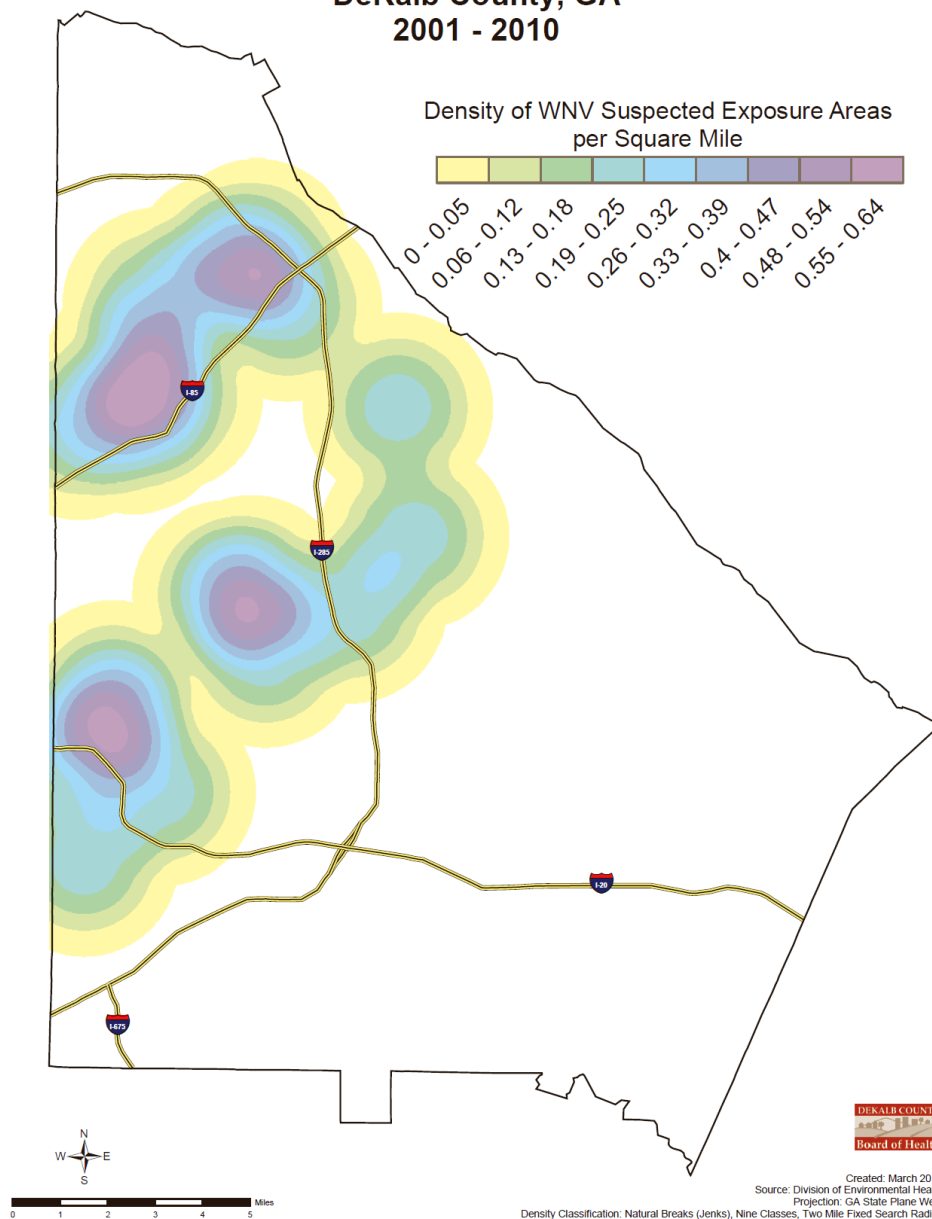


DeKalb 2001 - 2011

- 21 residents WNV +
 - 2 blood donors
- Age range: 15 – 87
- Median age: 49 years
- 58% male
- 63% hospitalized
- 89% onset August or September

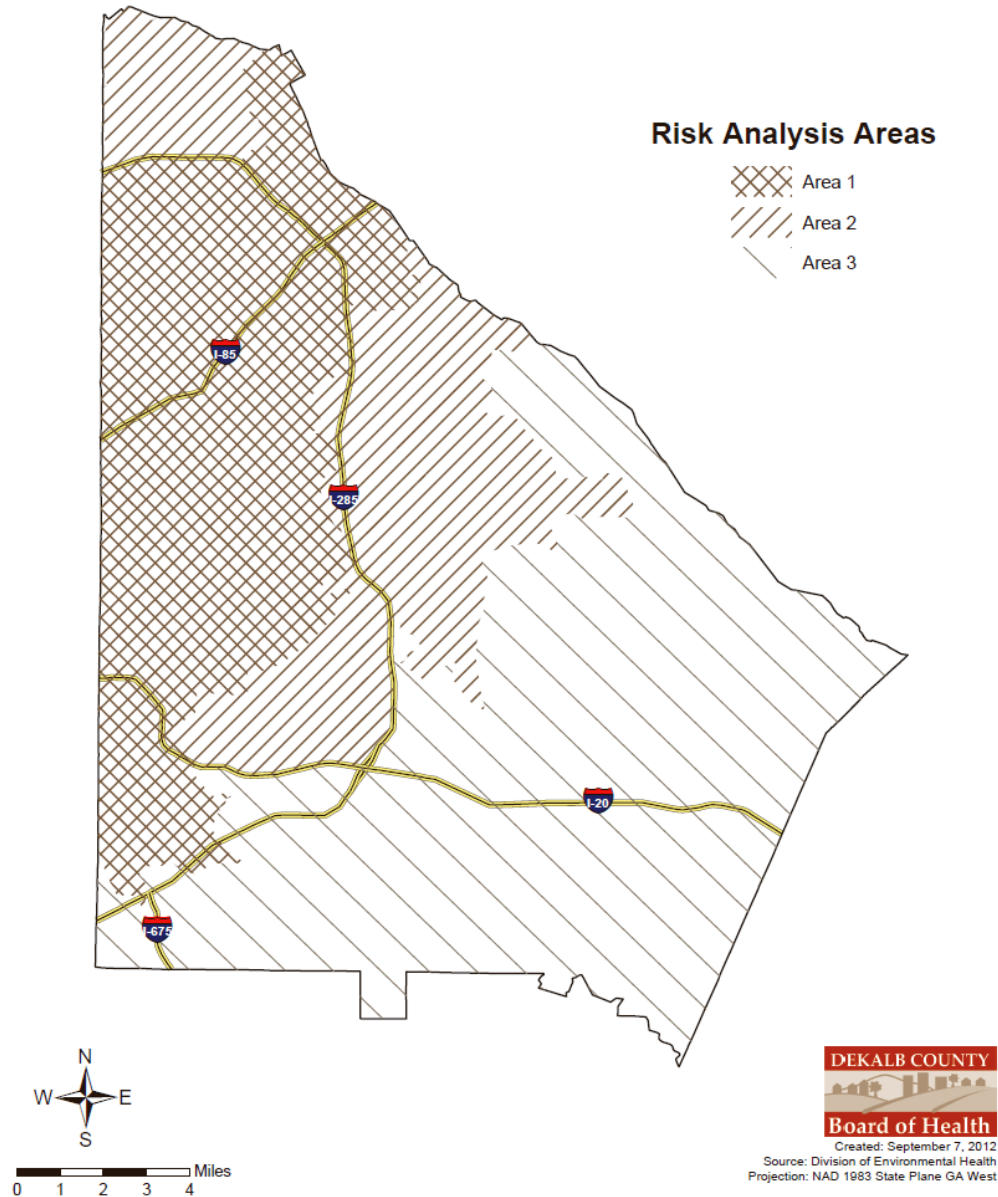


West Nile Virus Human Case Suspected Exposure Areas DeKalb County, GA 2001 - 2010

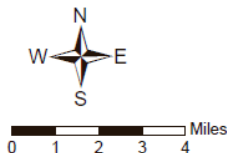
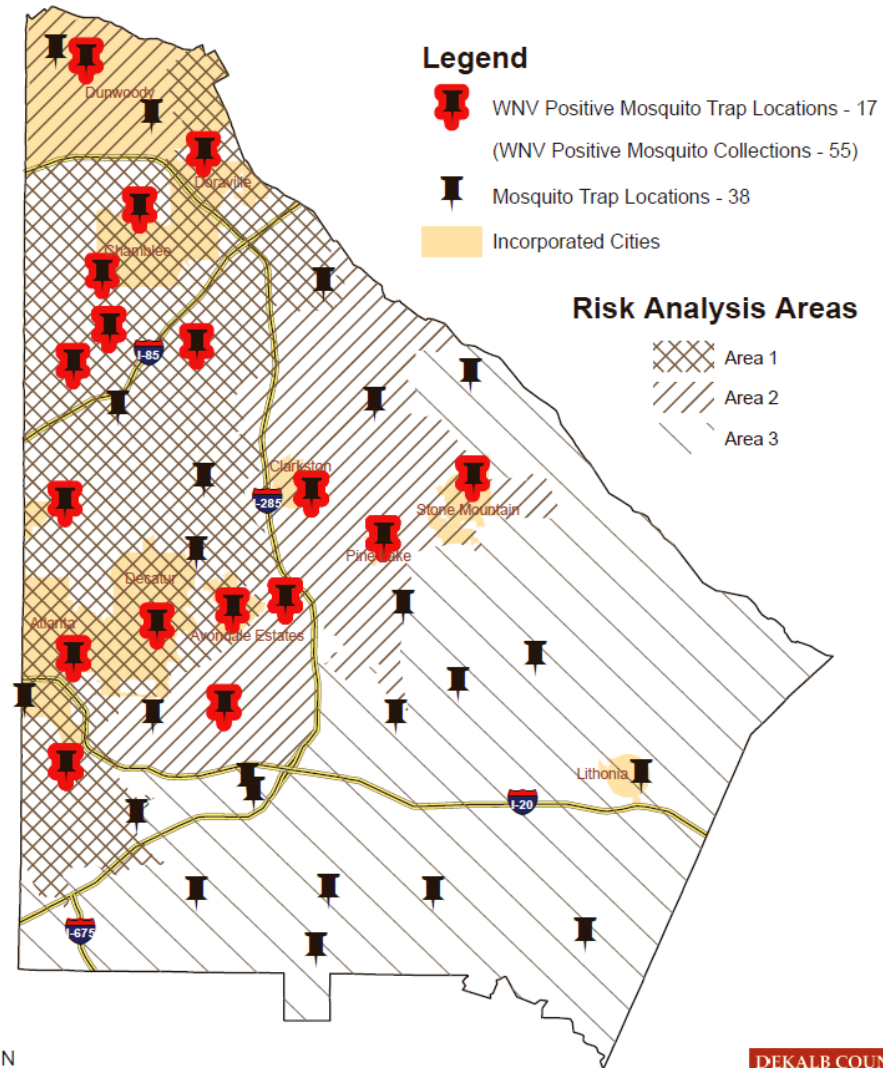


Where to now?

Areas of West Nile Virus (WNV) Risk Analysis
DeKalb County, Georgia
2012



West Nile Virus (WNV) Positive Activity
DeKalb County, Georgia
September 19, 2012

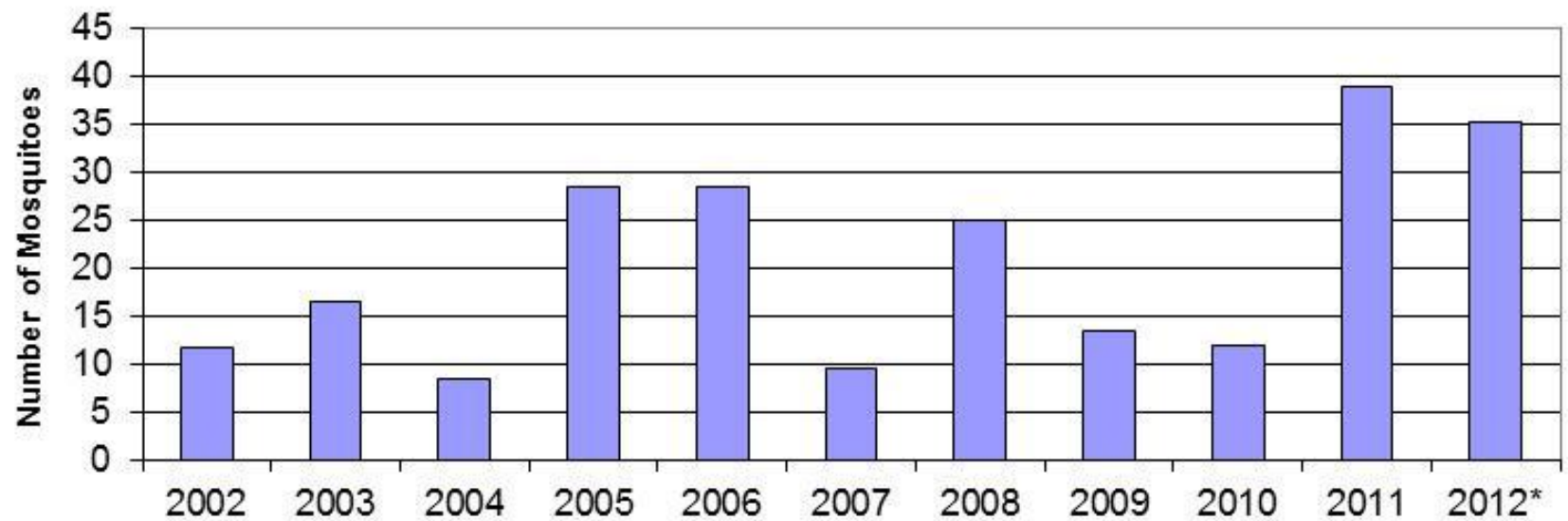


Created: September 19, 2012
Source: Division of Environmental Health
Projection: NAD 1983 State Plane GA West

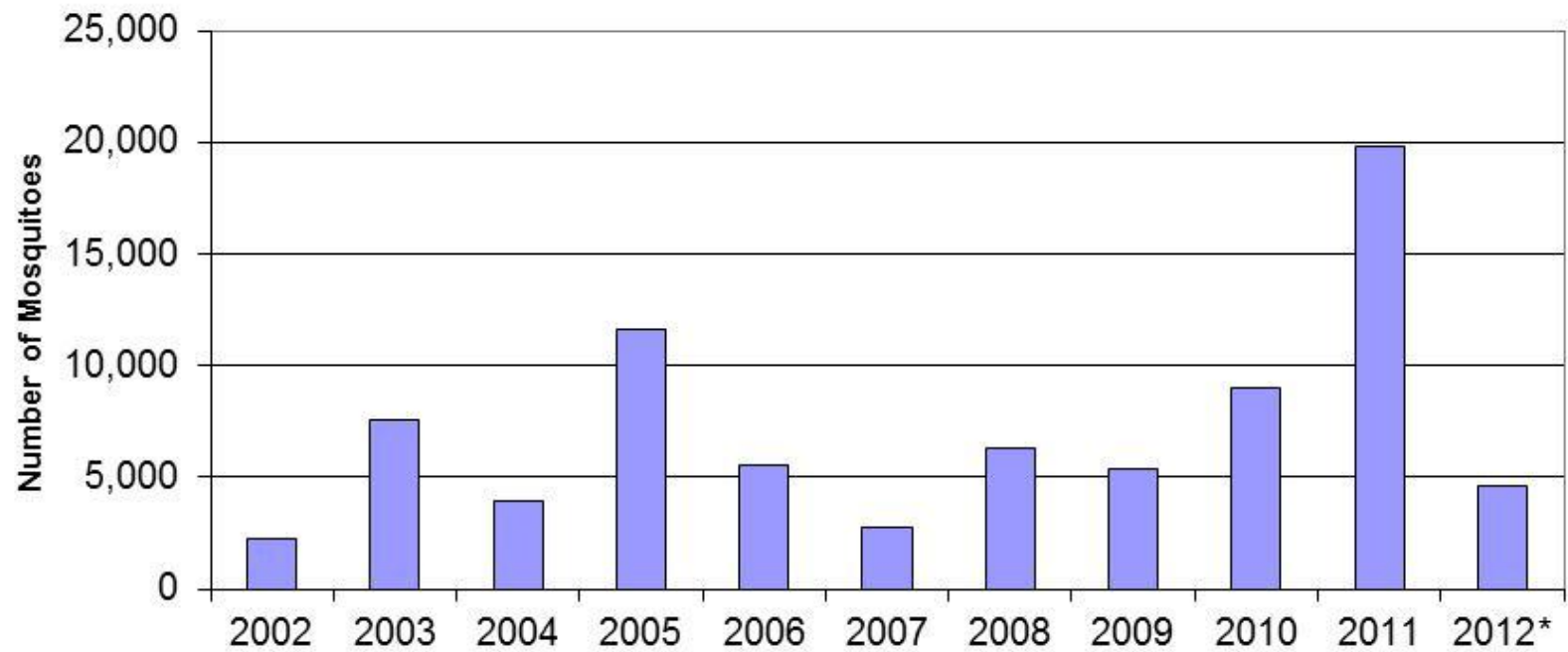
And the latest data...

(*2012 data only through October 15, 2012)

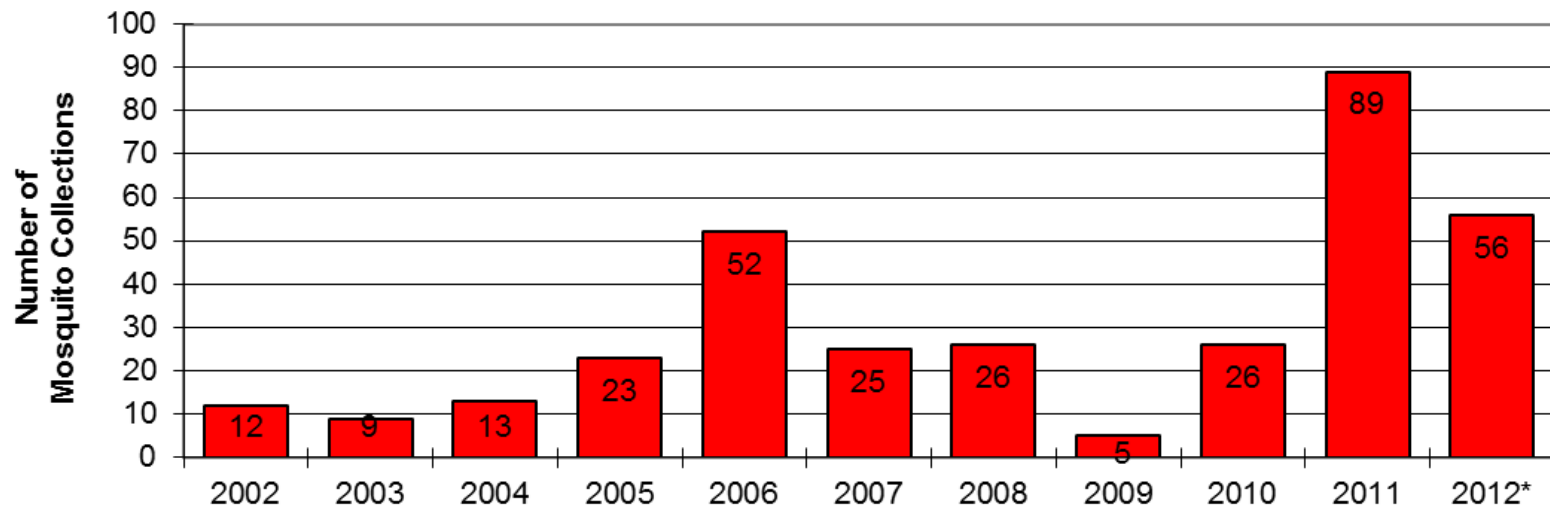
Mosquitoes Collected per Trap Night



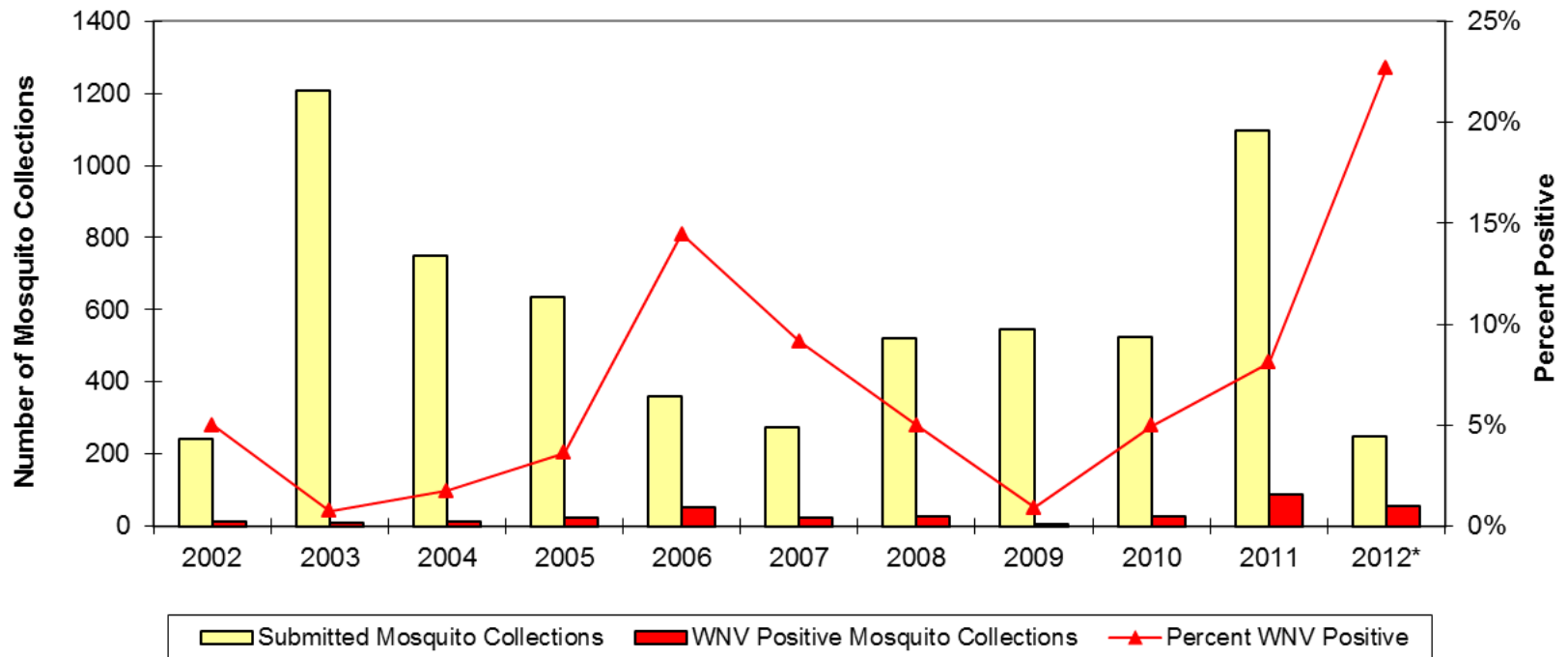
Number of Mosquitoes Submitted for Testing



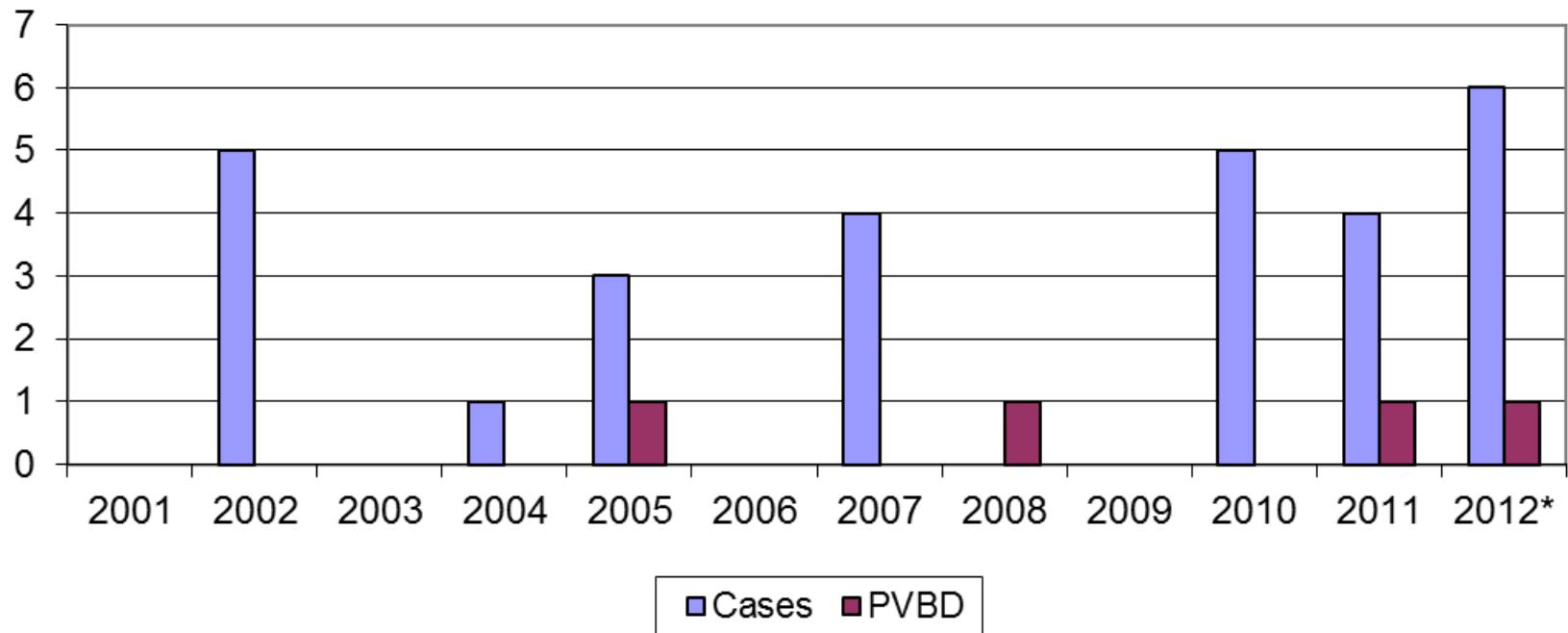
Yearly WNV Positive Mosquito Collections



Yearly Submitted Mosquito Collections



West Nile Virus Cases and Presumptive Viremic Blood Donors



Door-to-door



2001 -2010	31,000+ doors
2011	9588 doors
2012	7287 doors

West Nile Virus: One Decatur Man's Story

Decatur resident Devin Lenz talks about his battle with West Nile virus

By Kelly Marie George

<http://decatur.patch.com/articles/west-nile-virus-one-decatur-mans-story>

The West Nile virus has already been detected in mosquitoes during routine collections in DeKalb County.

It's important to take precautions, such as wearing bug repellent, to keep mosquitoes from spreading the virus to you.

According to the Centers for Disease Control, the majority of people who become infected won't become ill. However, about one in 150 will develop severe illness, even paralysis.

Unfortunately, that's what happened to Decatur resident, Devin Lenz.

"Thinking back it's fuzzy," the 40-year-old husband and father of two said about last August 23.

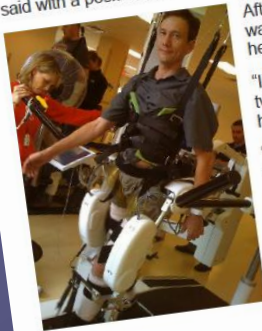
Lenz was sitting at an outdoor café when his back started to hurt. Things spiraled fast from there. That night he woke up and couldn't move his legs. His wife, six months pregnant at the time, called 9-1-1. He was rushed to DeKalb Medical and later transferred to Emory.

While doctors ran multiple tests and waited for results, Lenz suffered respiratory failure and was hooked up to a respirator. It wasn't until a week after his first symptoms started, that doctors discovered Lenz was infected with West Nile Virus.

There's no way of knowing exactly when or where Lenz was bitten. The development of symptoms starts between three and 14 days after infection.

The diagnosis was somewhat surprising, since Lenz was in good health and the virus typically is severe in the elderly, the young and others with weaker immune systems.

"We all know that life is full of surprises and unexpected things should be expected in a weird way," Lenz said with a positive attitude now.



After recovering from the virus and learning he would be a paraplegic, Lenz was depressed. However, six weeks into his stay at the Shepherd Center, he started to look at life differently.

"I'm super fortunate that I have a great spouse, a huge support system and two great kids." While Lenz lost the motor function of his lower body, he still has his sensory skills of which he says he is grateful.

"I get irritated bumping into things in my wheelchair, but the hardest thing to deal with emotionally is as a dad, there are a lot of 'dad things' I am not able to do."

Next month a year will have gone by since Lenz contracted West Nile Virus, changing his whole world.

"I've learned to be open to change. Change is difficult but if we embrace it we can do anything. We can make do with anything thrown at us."



One Decatur Man's Story

- 39-year-old
- Healthy
- Paralysis

<http://157.166.224.238/video/2012/08/24/west-nile-virus-victim-devin-lenz>

Questions?

Juanette Willis

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