




**PENNSYLVANIA**  
**STATE REPORT**  
**2006**



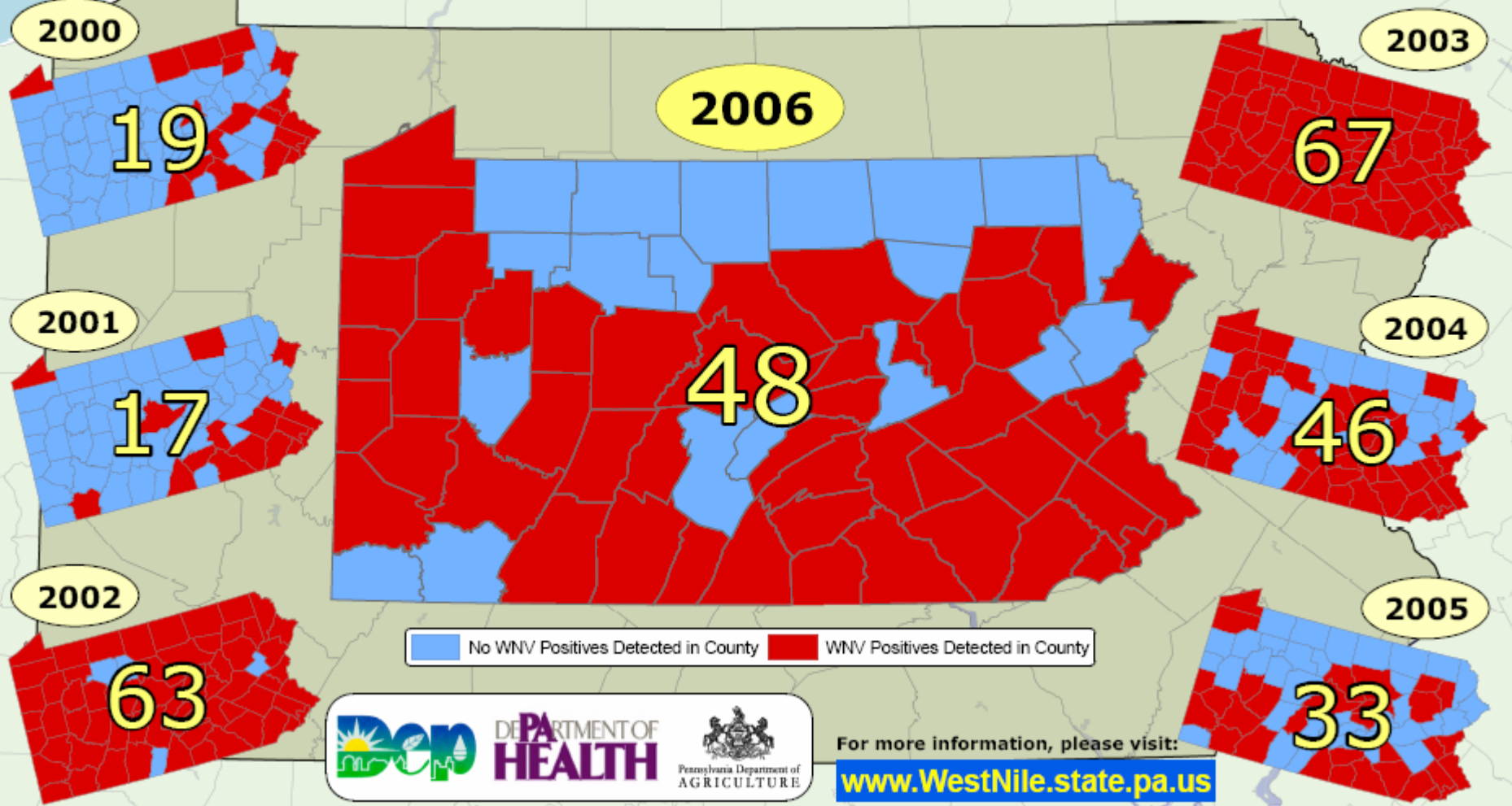


# Overview of Pennsylvania West Nile Virus Program

- DEP, Dept. of Health, Dept. of Ag., Counties
  - DEP distributes funds to participating counties through grants and provides mosquito identification services
  - DOH provides testing services
  - Dept. of Ag. handles sentinel chicken flocks, equine cases and dead bird swabbing
- 



# Pennsylvania West Nile Virus Control Program Positive Counties - 2000 through Present



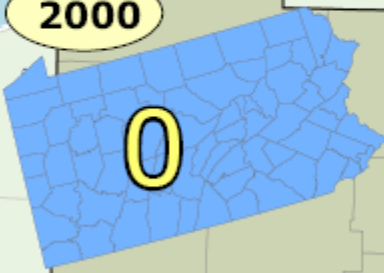
For more information, please visit:  
[www.WestNile.state.pa.us](http://www.WestNile.state.pa.us)



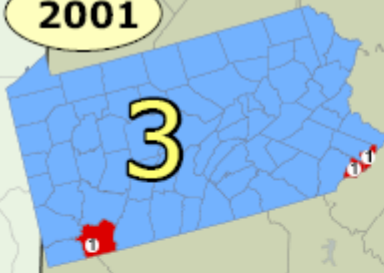
# Pennsylvania West Nile Virus Control Program Positive Human Cases - 2000 through Present



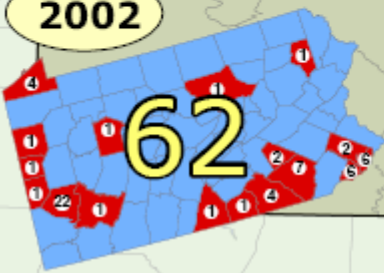
2000



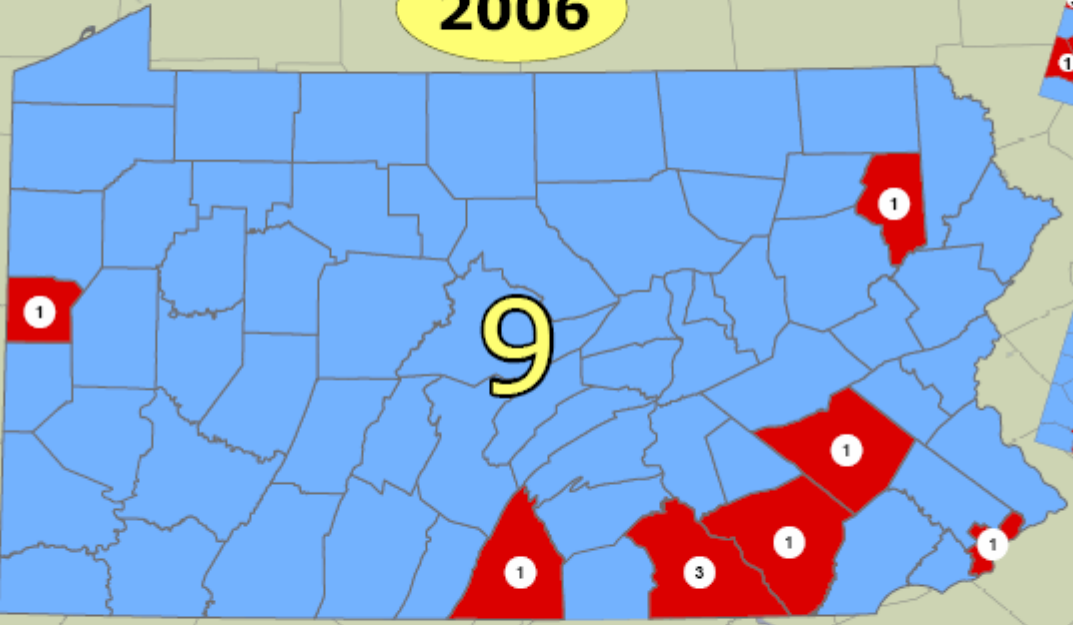
2001



2002



2006



2003



2004



2005



■ No Human WNV Cases in County   
 ■ Human WNV Case in County




For more information, please visit:  
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# Mosquitoes

- Counties and regional biologists send mosquito samples to DEP lab for identification and preparation for virus testing
- DEP lab processed 20,000 adult samples and 6,500 larval samples (all bar-coded)
- A few counties identify their own larval samples
- Tested 509,000 specimens from 26,000 pools






# Mosquitoes

- 271 positive pools (257 PCR, 14 RAMP)

<u>Species</u>	<u>Aug-Sept MIR</u>
123 <i>Cx. restuans</i>	1.54
105 <i>Cx. pipiens</i>	2.43
41 <i>Cx. spp.</i>	2.58
1 <i>Cx. salinarius</i>	0.10
1 <i>Oc. japonicus</i>	0.21



# Mosquito Testing Guidelines


Species	WNV	EEE	La Crosse
<i>Aedes albopictus</i>	5		5
<i>Culex erraticus</i>	3		
<i>Culex pipiens</i>	3		
<i>Culex restuans</i>	3		
<i>Culex salinarius</i>	3		
<i>Culex spp.</i>	3		
<i>Culiseta melanura</i>	3	3	
<i>Ochlerotatus japonicus</i>	5		5
<i>Ochlerotatus triseriatus</i>	5		5
All other species	25 (from positive municipalities)		

# Dead Birds!



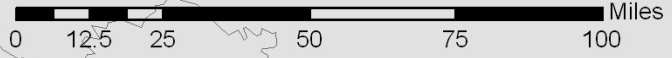
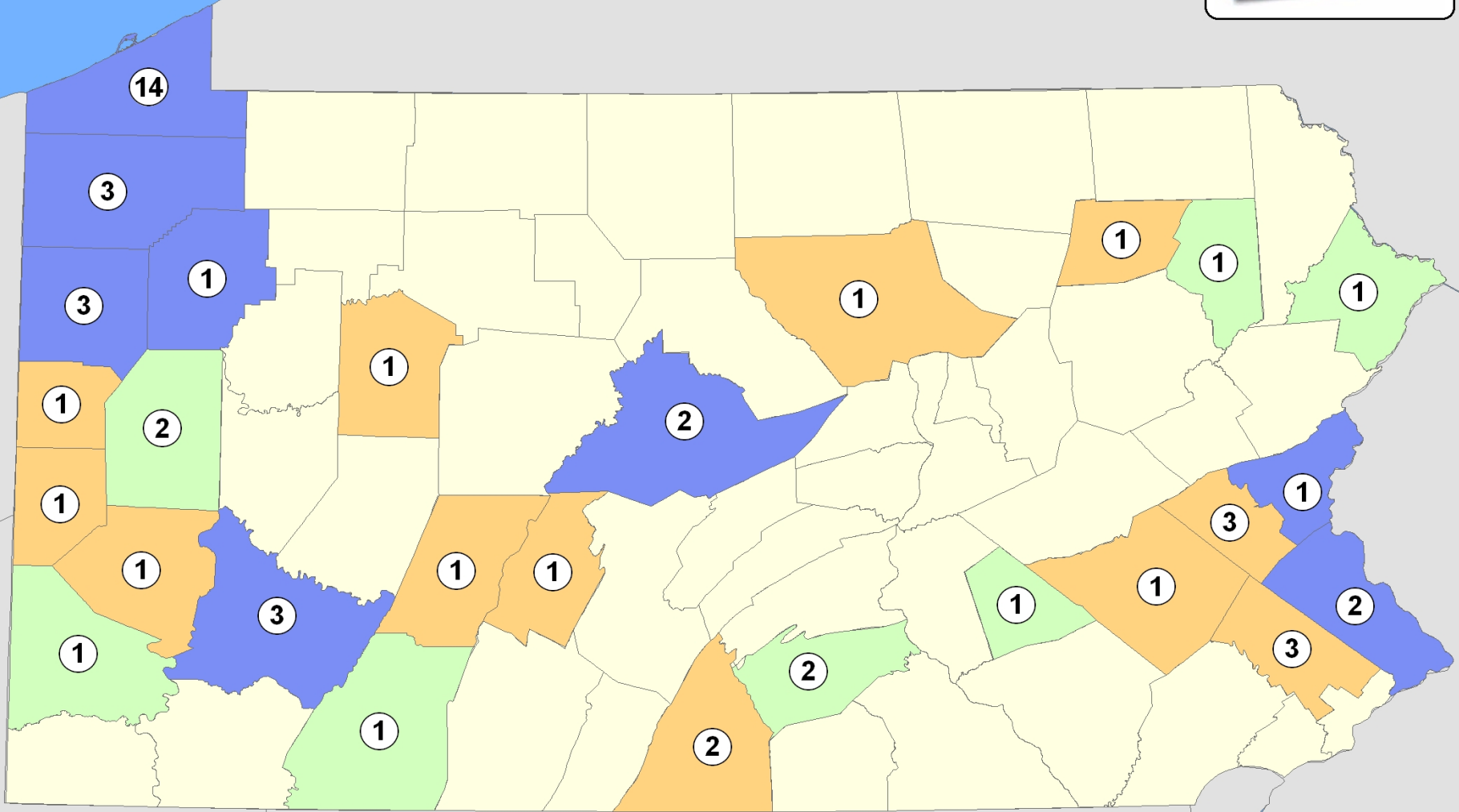


# Dead Bird Counts

- Opened up testing to all species in 2006
  - 2493 Dead bird sightings
  - 683 Shipped
  - 626 Tested from 69 species (160 were Corvids)
  - 55 Positives
    - 42 Crows
    - 4 Jays
    - 9 Other [Grackle (2), Finch (2), GH owl (2), Cedar Waxing, House sparrow, Red-tailed hawk]
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# Pennsylvania West Nile Virus Control Program 2006 - Counties with Avian Positives




Avian Pos Only    Avian Before Mosq.    Mosq. Before Avian



November 9, 2006



# Sentinel Chickens

- Used 16 flocks with 6 birds each distributed throughout the state
  - Bled once per week from July through October
  - 4 WNV positives
  - Will cut back to 4 flocks in 2007
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# 2006 Complaints & Control

- 4,436 Complaints
- 117,811 Treatments
  - 110,918 Catch Basins
  - 6,087 Larval Events
  - 806 Adult Events
  - 653 Truck Miles (VDCI&DEP)
  - 4,000 Acres Aerially Larvicided
  - 60,000 Acres Aerially Adulticided (much of this was in response to late June flooding)





# Black Fly Program

- *Simulium jenningsi* species group
  - DEP biologists perform routine collections of larvae and adults
  - Specimens sent to lab for identification to confirm target pest species
  - 10,000 samples in 2006
  - 31 counties participated
  - 1,500 miles of streams treated (repeatedly) with liquid *Bti* with helicopter or by hand
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# QUESTIONS???



Thanks to James Haefner for maps and to Matt Helwig and Andy Kyle for help with slides and data