



# Indiana State Department of Health

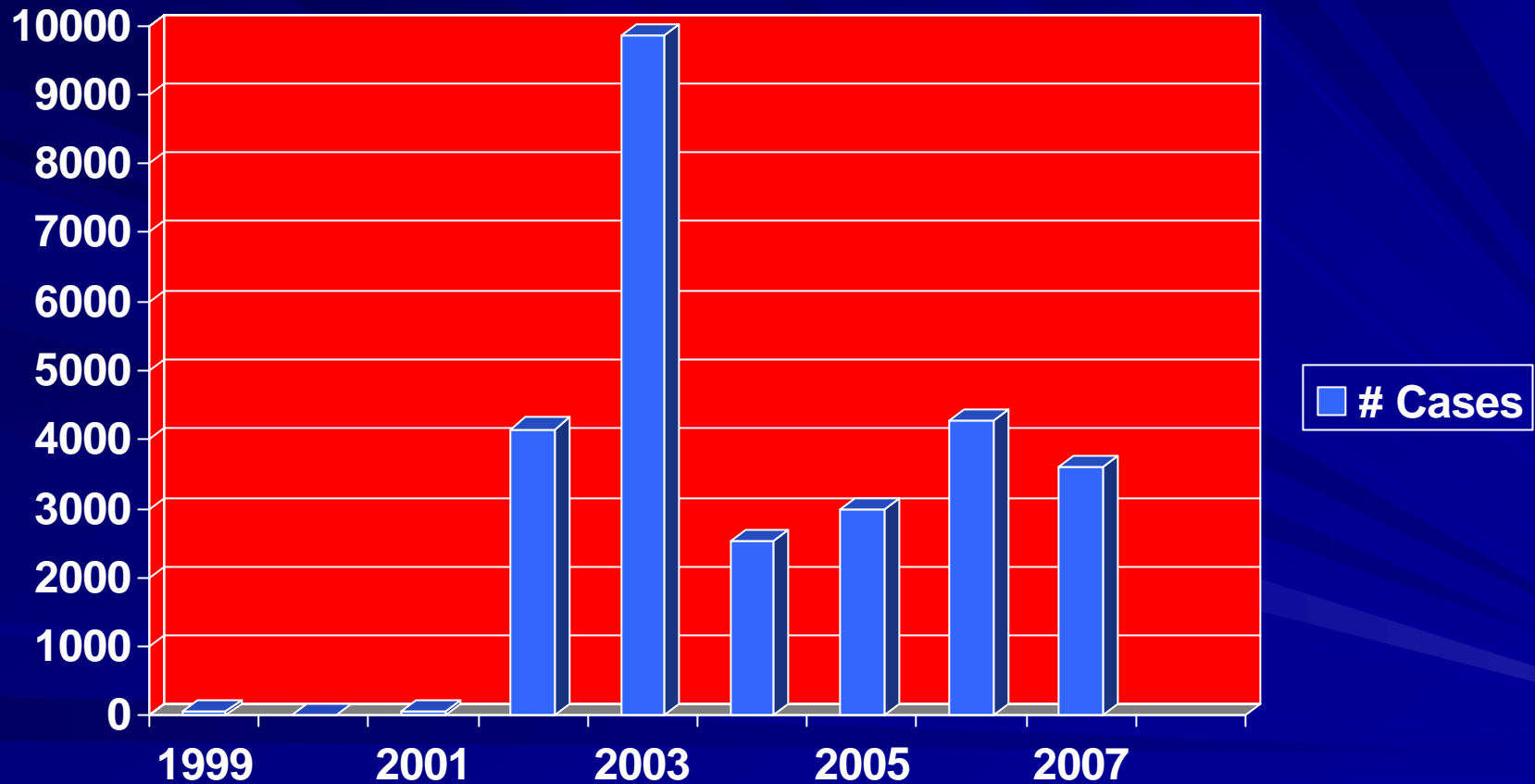
# **West Nile Virus Surveillance in Indiana 2007**

**Michael J. Sinsko, Ph.D.  
Indiana State Department of Health**

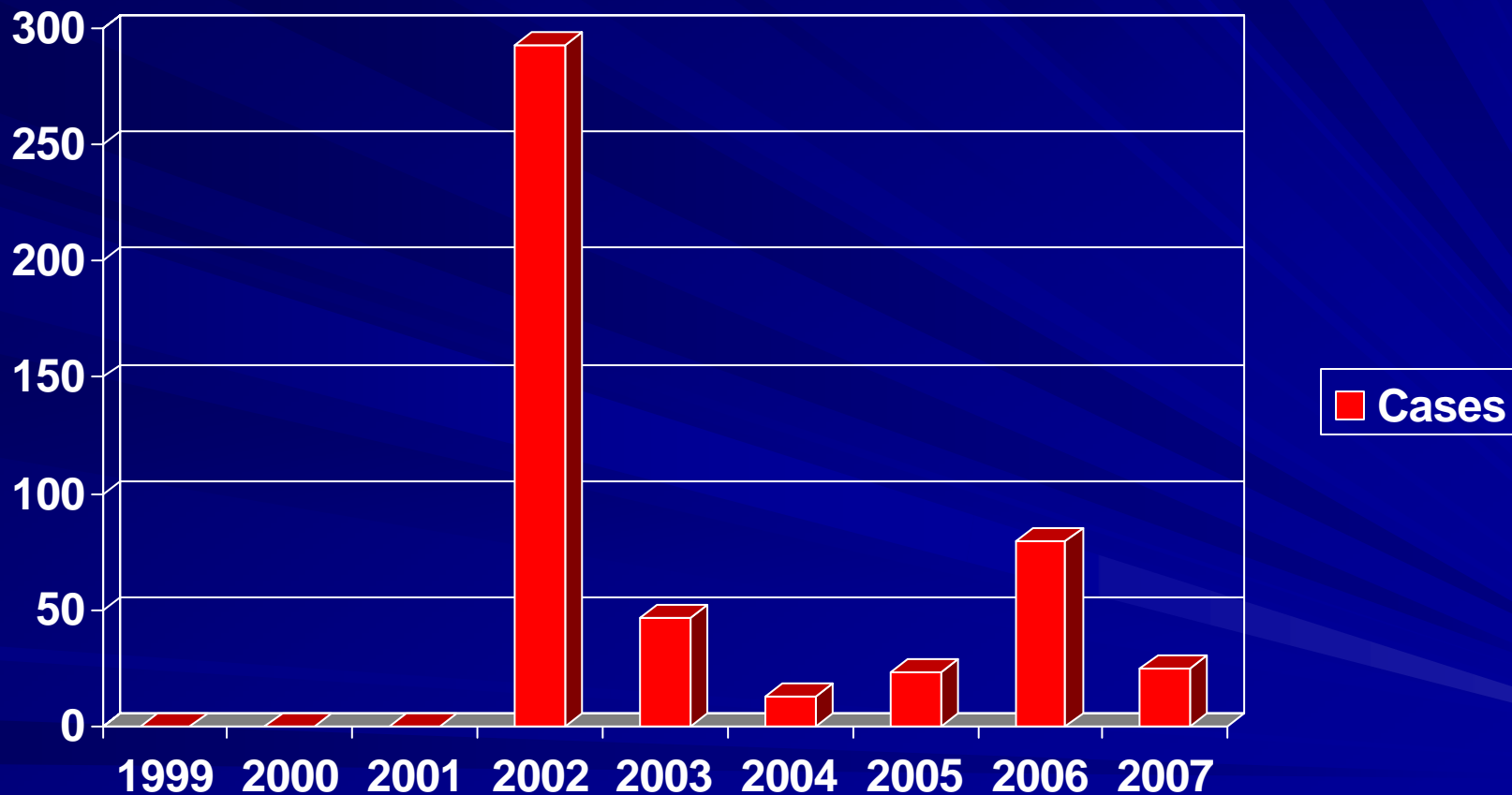
# Human Cases of WNV

<b>1999</b>	<b>62 Cases (7 Deaths)</b>
<b>2000</b>	<b>21 Cases (2 Deaths)</b>
<b>2001</b>	<b>66 Cases (9 Deaths)</b>
<b>2002</b>	<b>4,156 Cases (284 Deaths)</b>
<b>2003</b>	<b>9,862 Cases (264 Deaths)</b>
<b>2004</b>	<b>2,539 Cases (100 Deaths)</b>
<b>2005</b>	<b>3,000 Cases (119 Deaths)</b>
<b>2006</b>	<b>4,269 Cases (177 Deaths)</b>
<b>2007</b>	<b>3,598 Cases (121 Deaths)</b>

# Human Cases of WNV in U.S.



# Human Cases of West Nile Virus Infection in Indiana 1999 - 2007



# **HUMAN SURVEILLANCE**

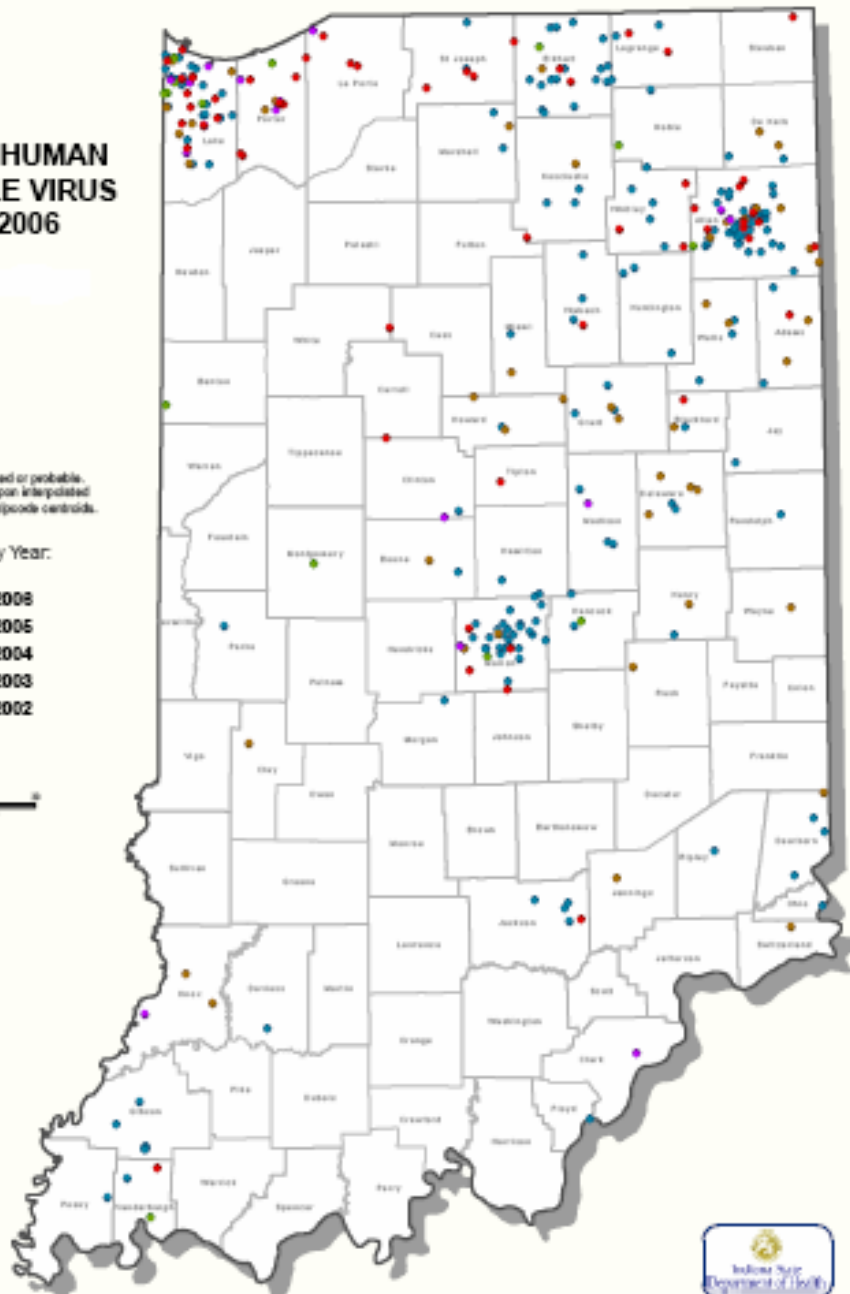


# INDIANA HUMAN WEST NILE VIRUS 2002-2006

Cases are confirmed or probable.  
Points are based upon interpolated  
street addresses or zipcode centroids.

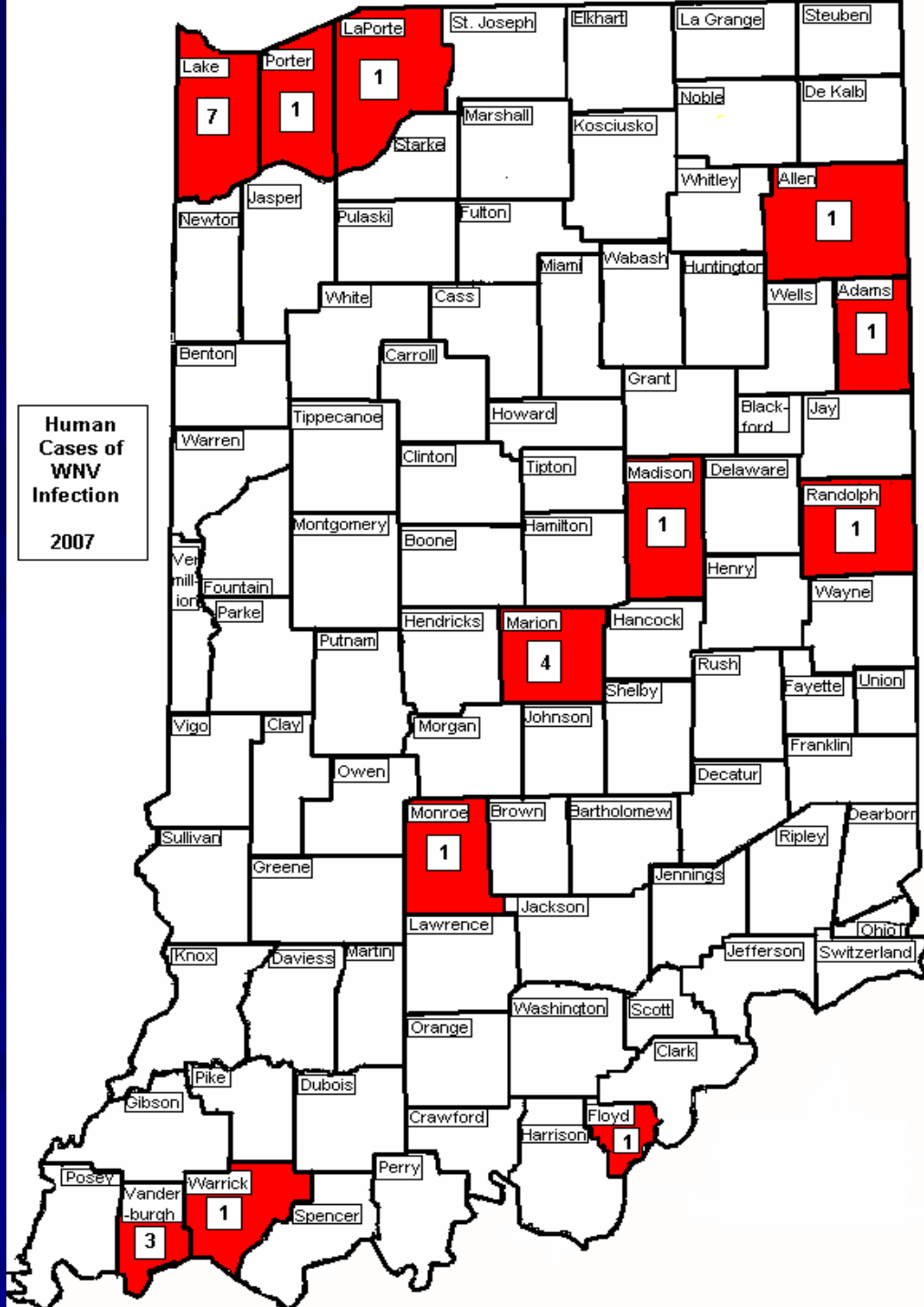
Cases by Year:

- 2008
- 2005
- 2004
- 2003
- 2002





**Human  
Cases of  
WNV  
Infection  
2007**



# Dead Bird Surveillance





**Blue Jay**

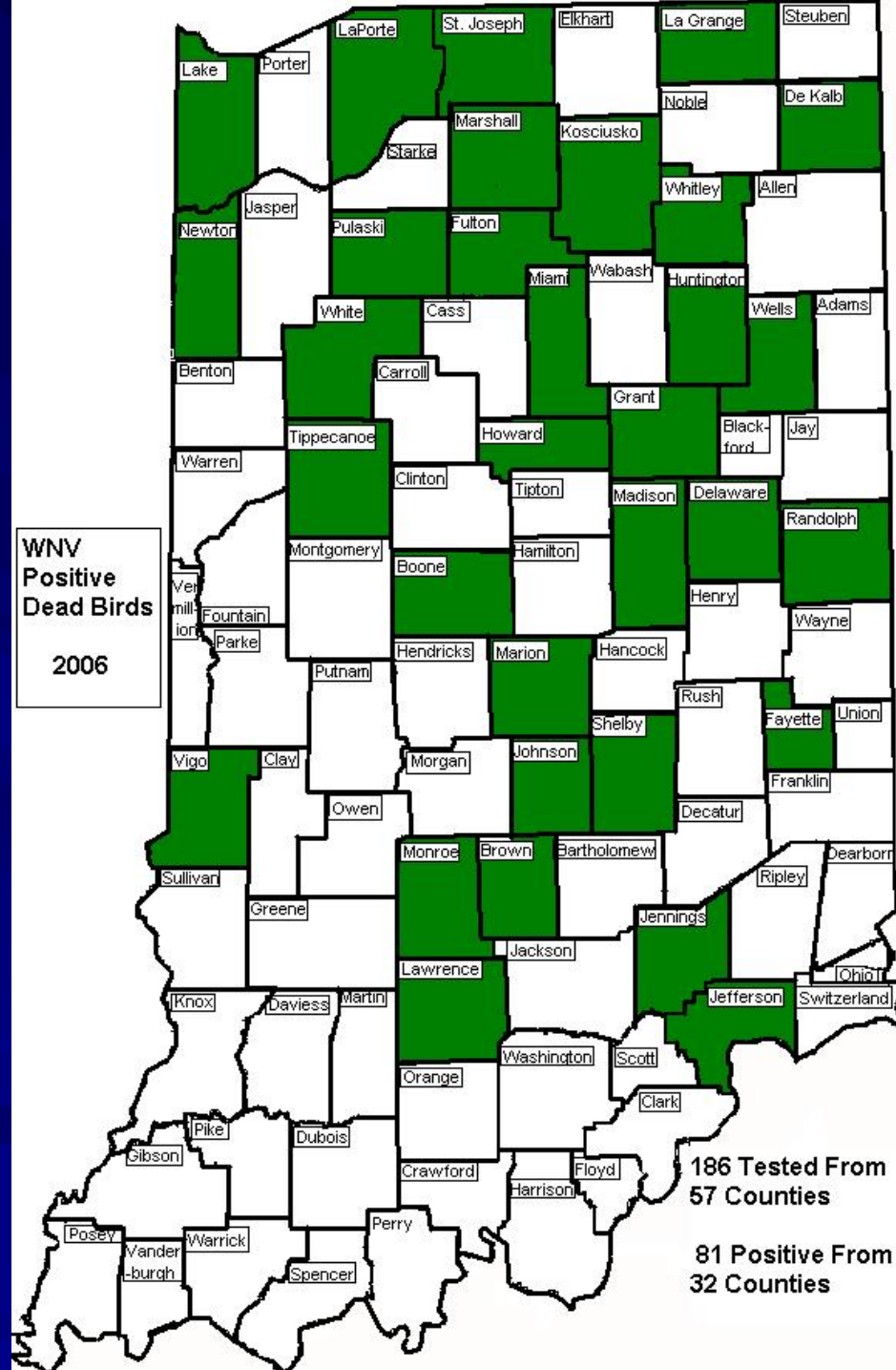


Live Crow



**Red-Tailed Hawk**

**WNV  
Positive  
Dead Birds**  
  
2006



**186 Tested From  
57 Counties**

**81 Positive From  
32 Counties**



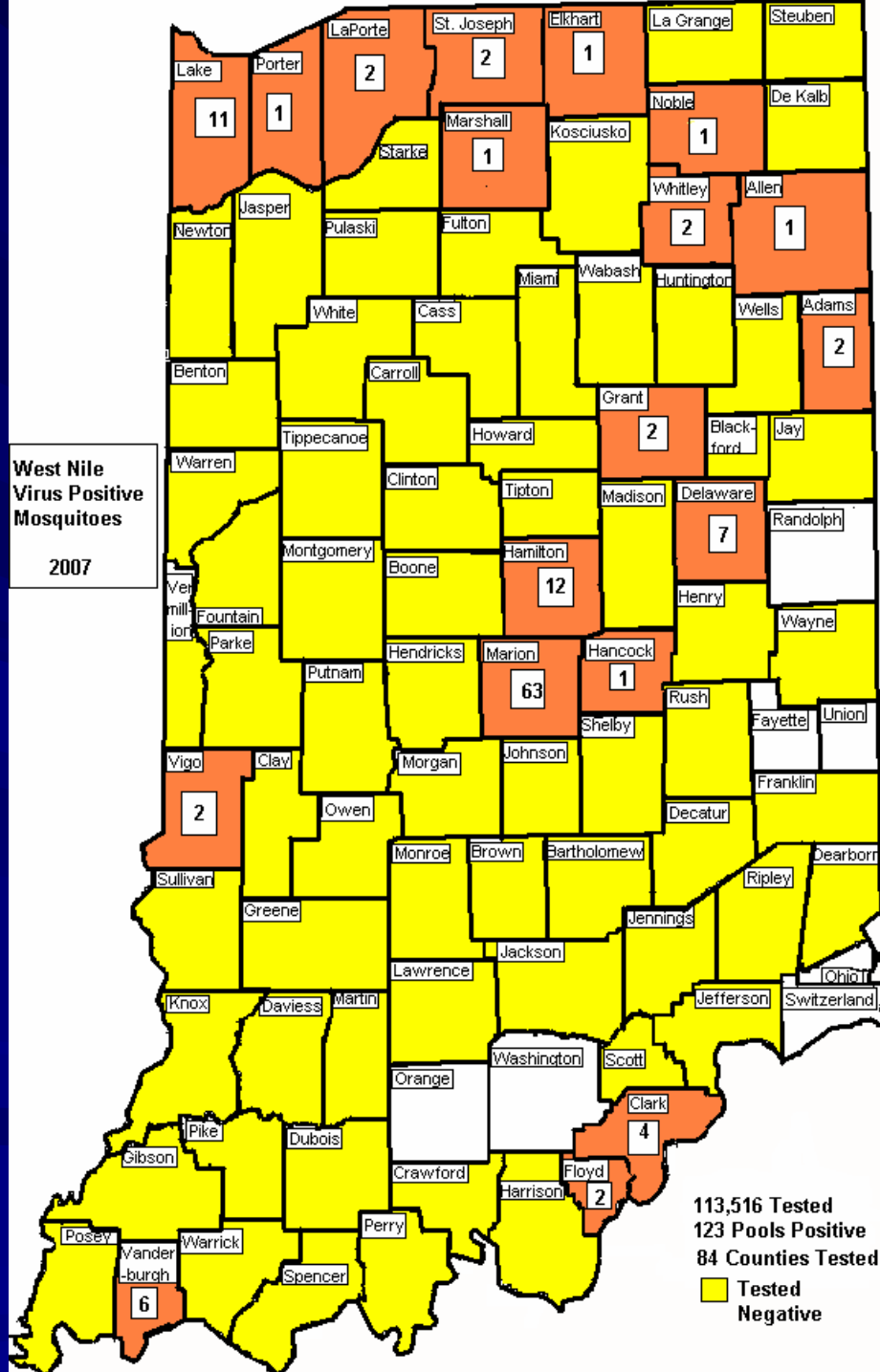
# Mosquito Surveillance



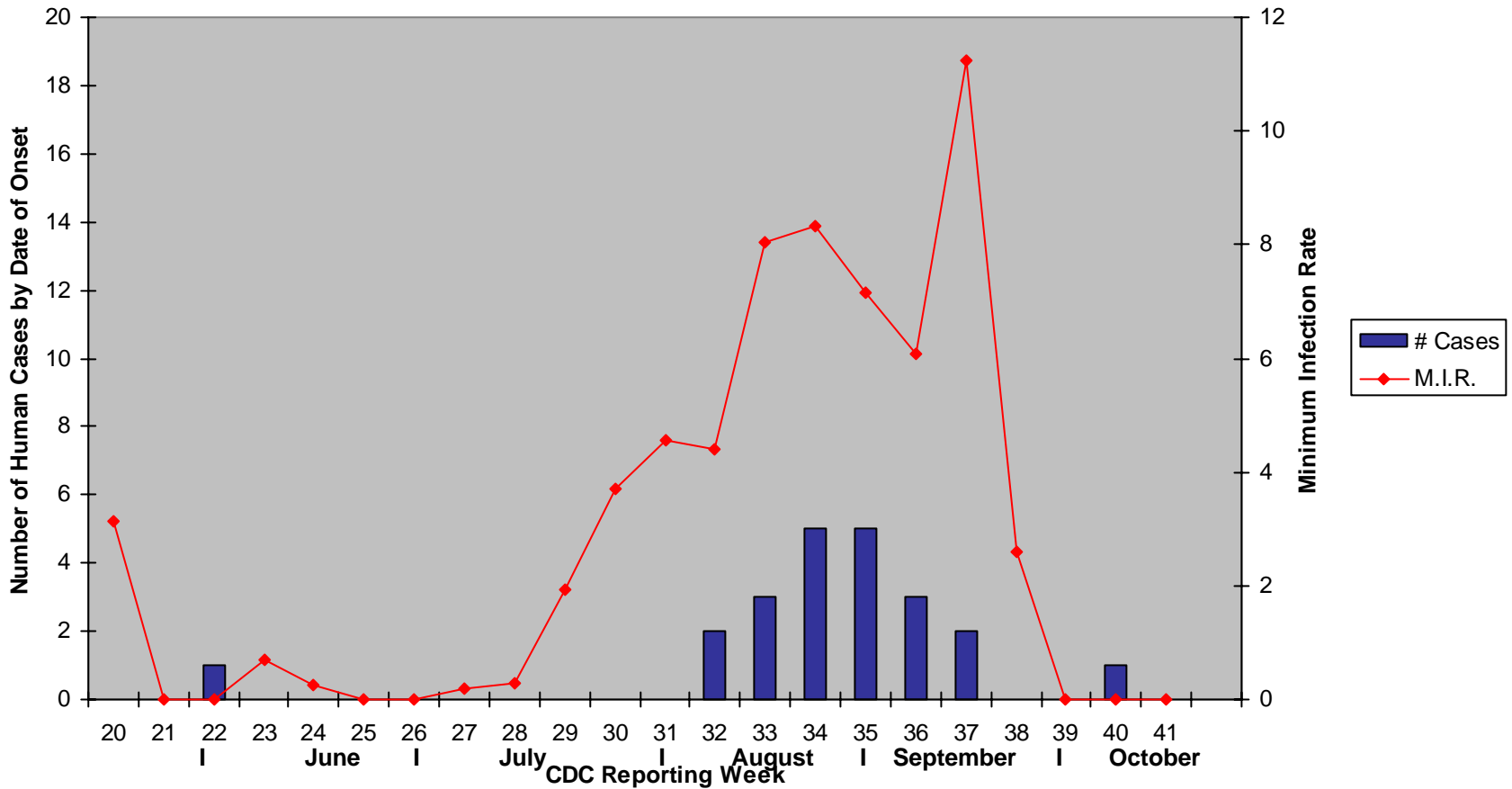
**Ochleratatus japonicus**





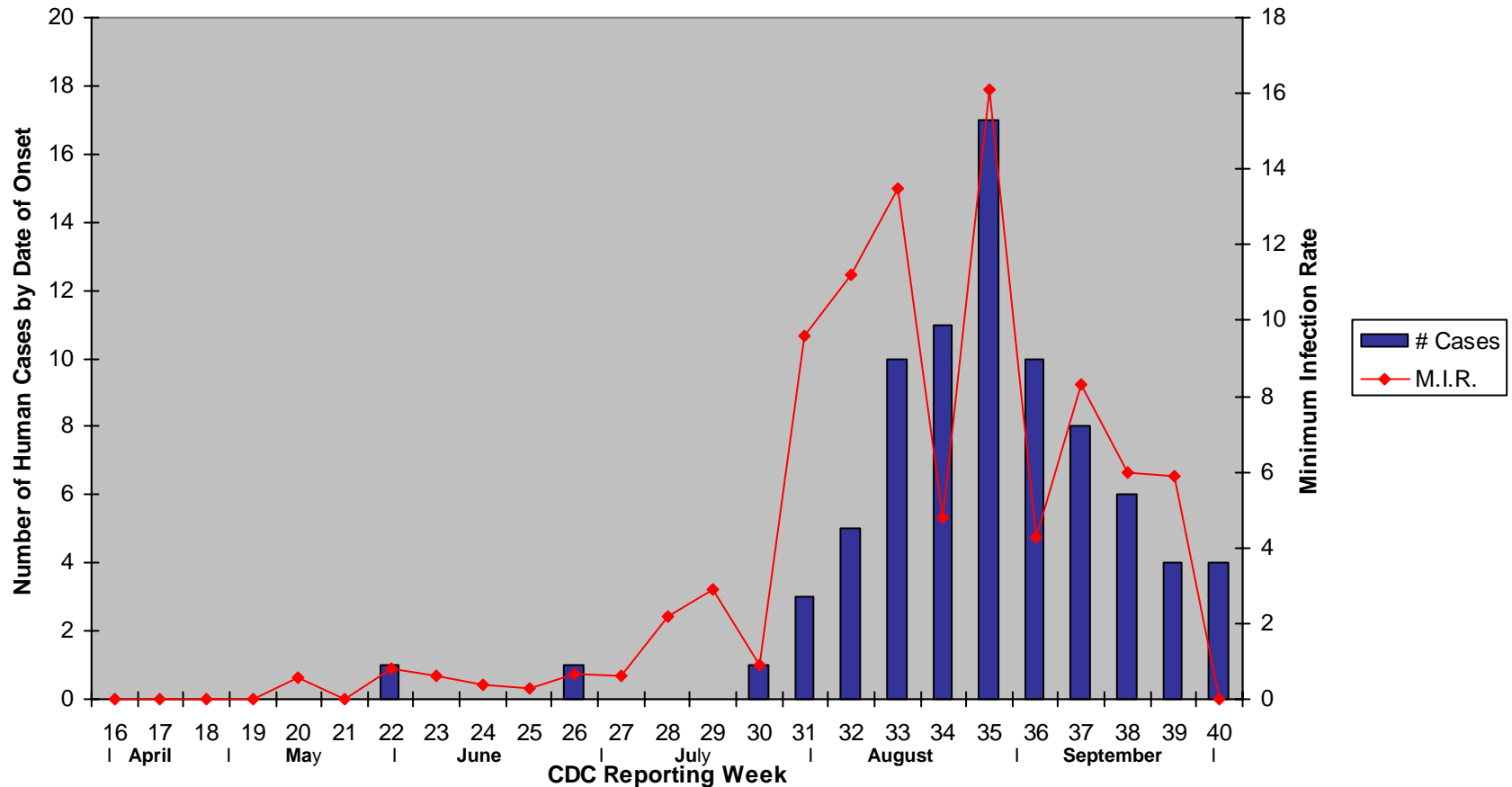


# Minimum Infection Rates in *Culex pipiens* and *C. restuans* in Indiana in 2005 and Human Cases of WNV



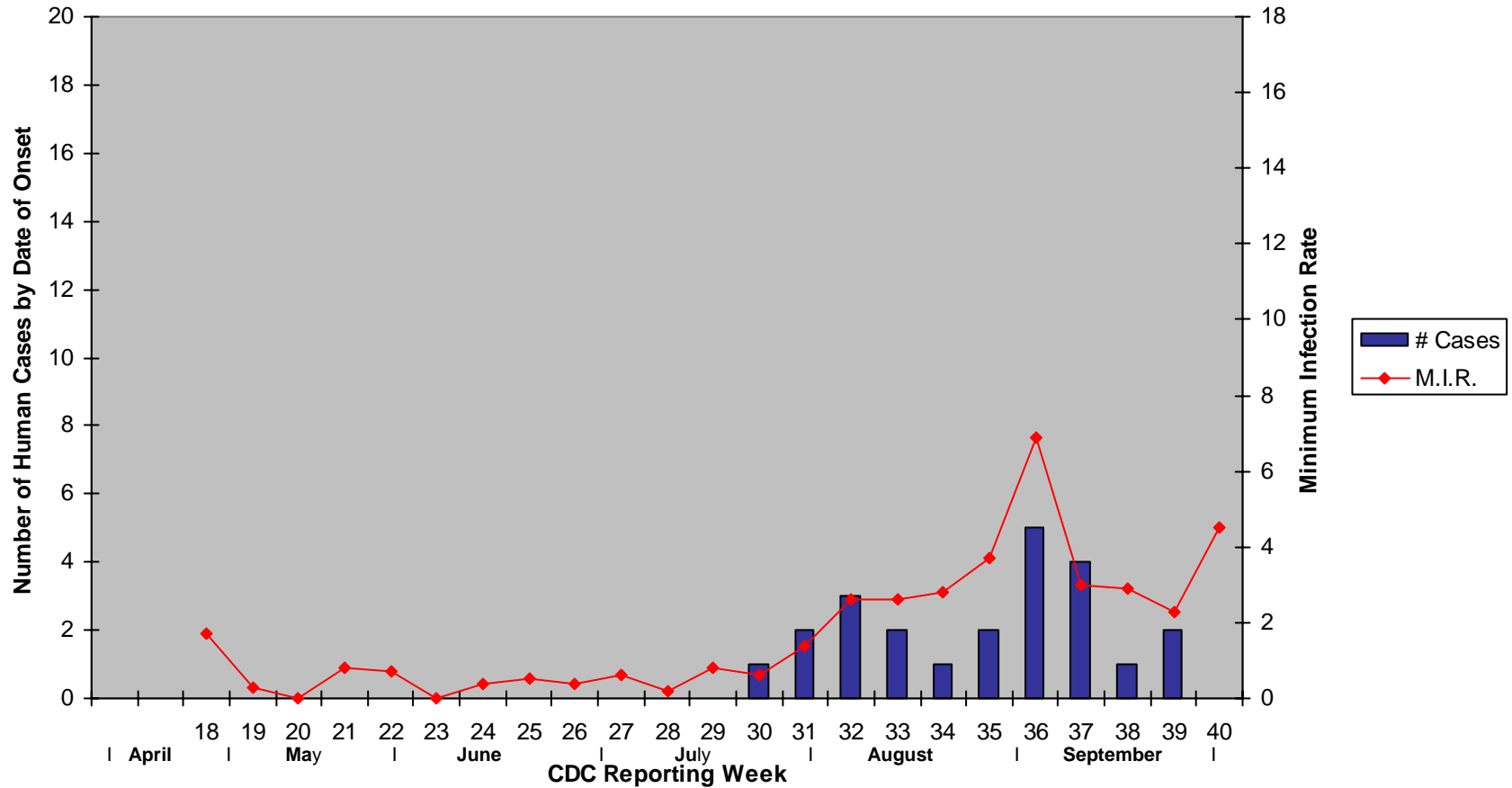
M.I.R. = # + Pools / # Mosq. Tested X 1,000

# Minimum Infection Rates in *Culex pipiens* and *C. restuans* in Indiana in 2006 and Human Cases of WNV



M.I.R. = # + Pools / # Mosq. Tested X 1,000

# Minimum Infection Rates in *Culex pipiens* and *C. restuans* in Indiana in 2007 and Human Cases of WNV



M.I.R. = # + Pools / # Mosq. Tested X 1,000

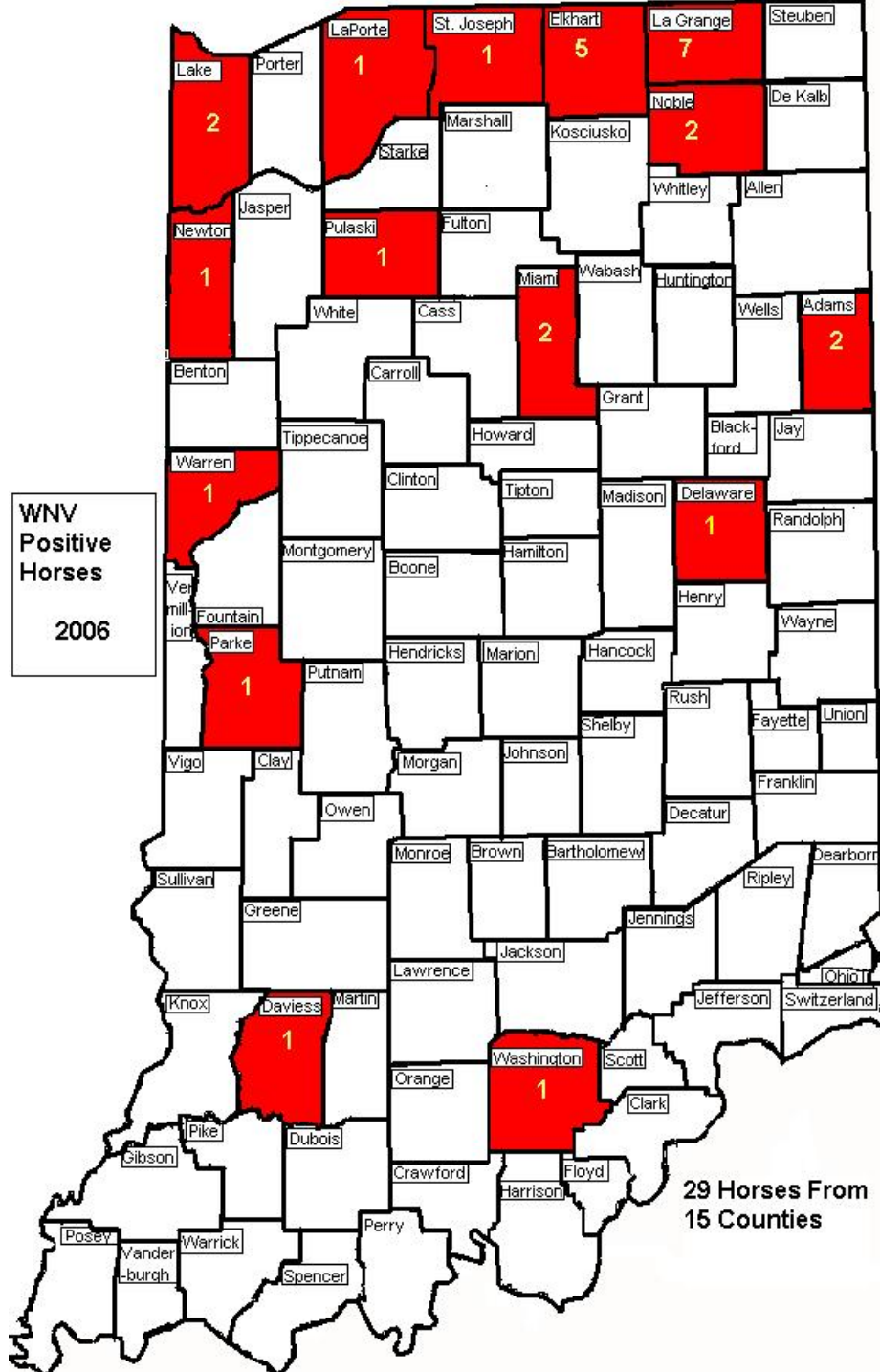






photo by Mike Sardalis, USAMRIID

**Ochleratatus japonicus**









