



Indiana State Department of Health

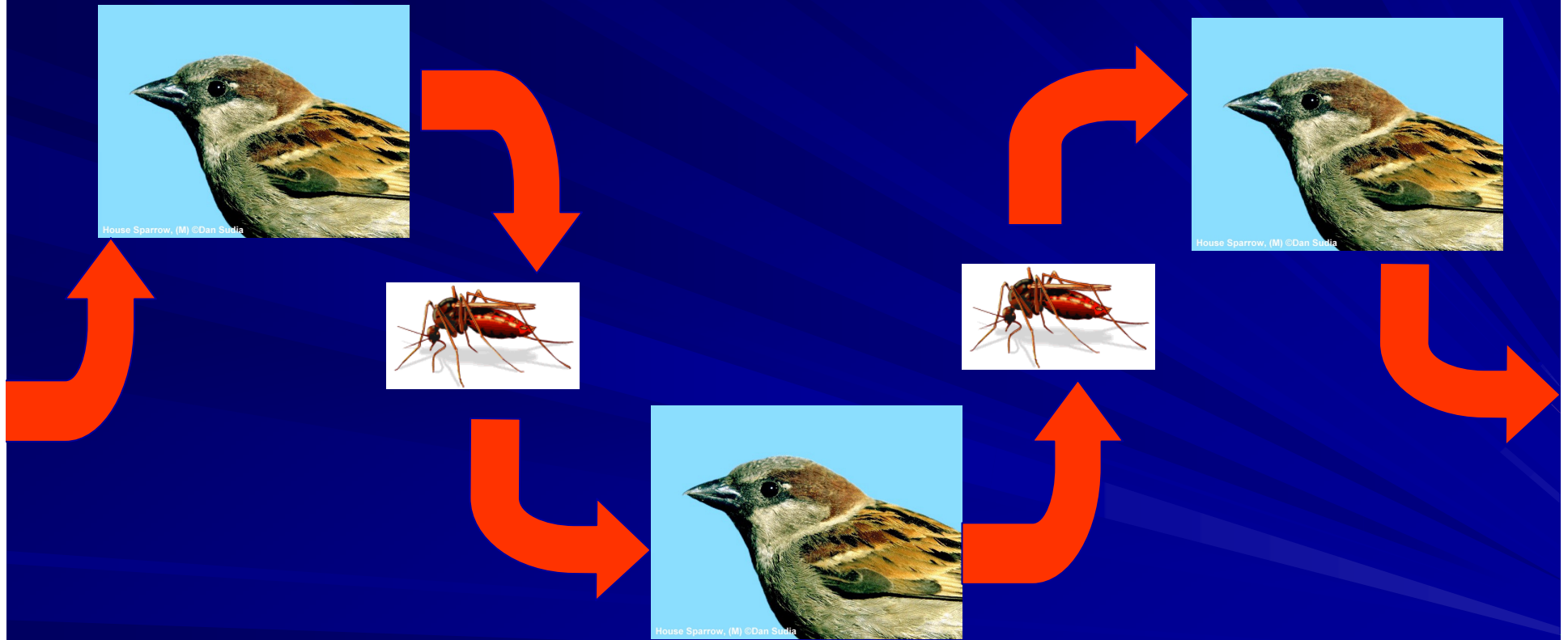
Vectorborne Diseases in Indiana 2004-2005

Michael J. Sinsko, Ph.D.

James Howell, D.V.M.

Indiana State Department of Health

West Nile Virus: Primary *Passerine-Culex* Transmission Cycle



Dead Bird Surveillance





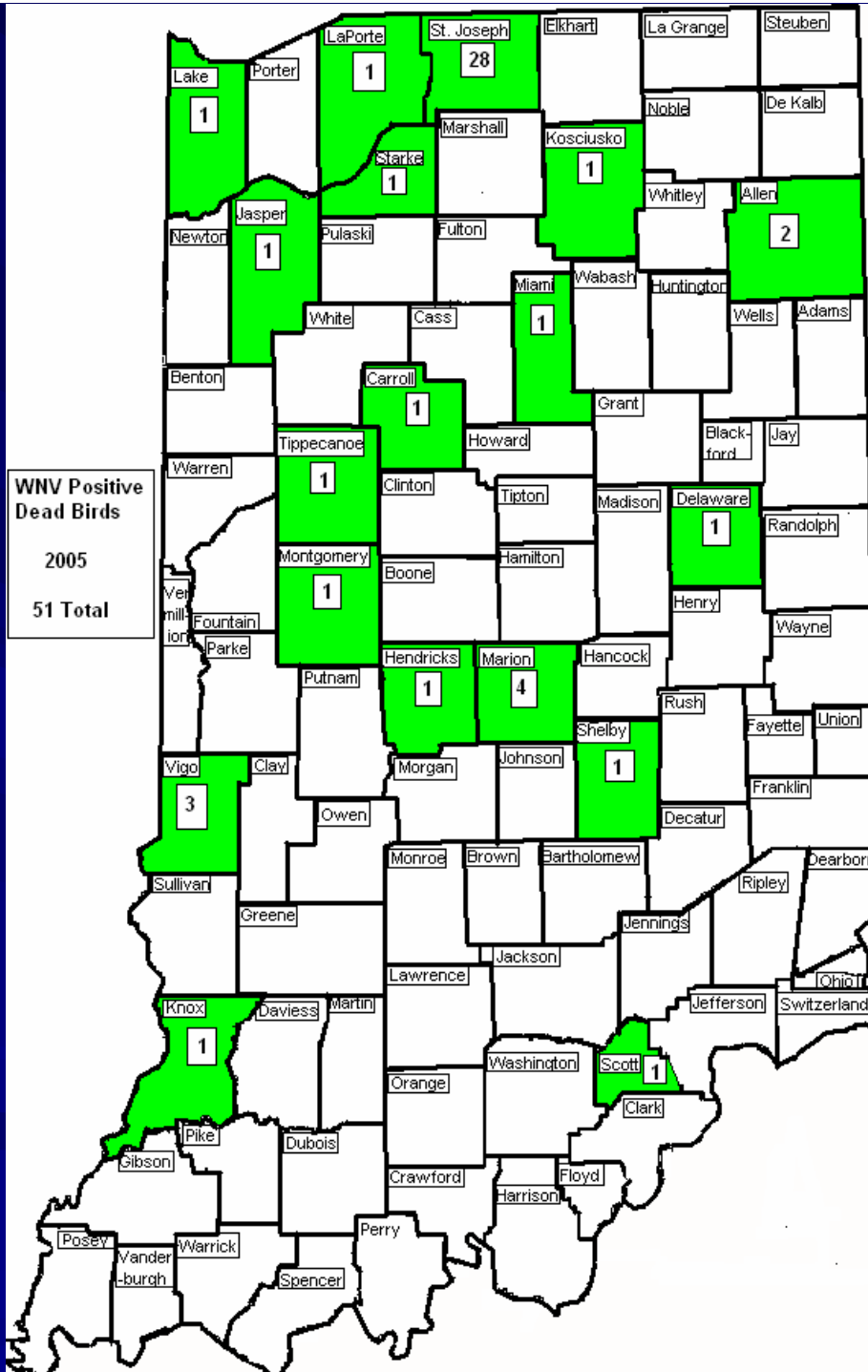
Blue Jay



Live Crow



Red-Tailed Hawk

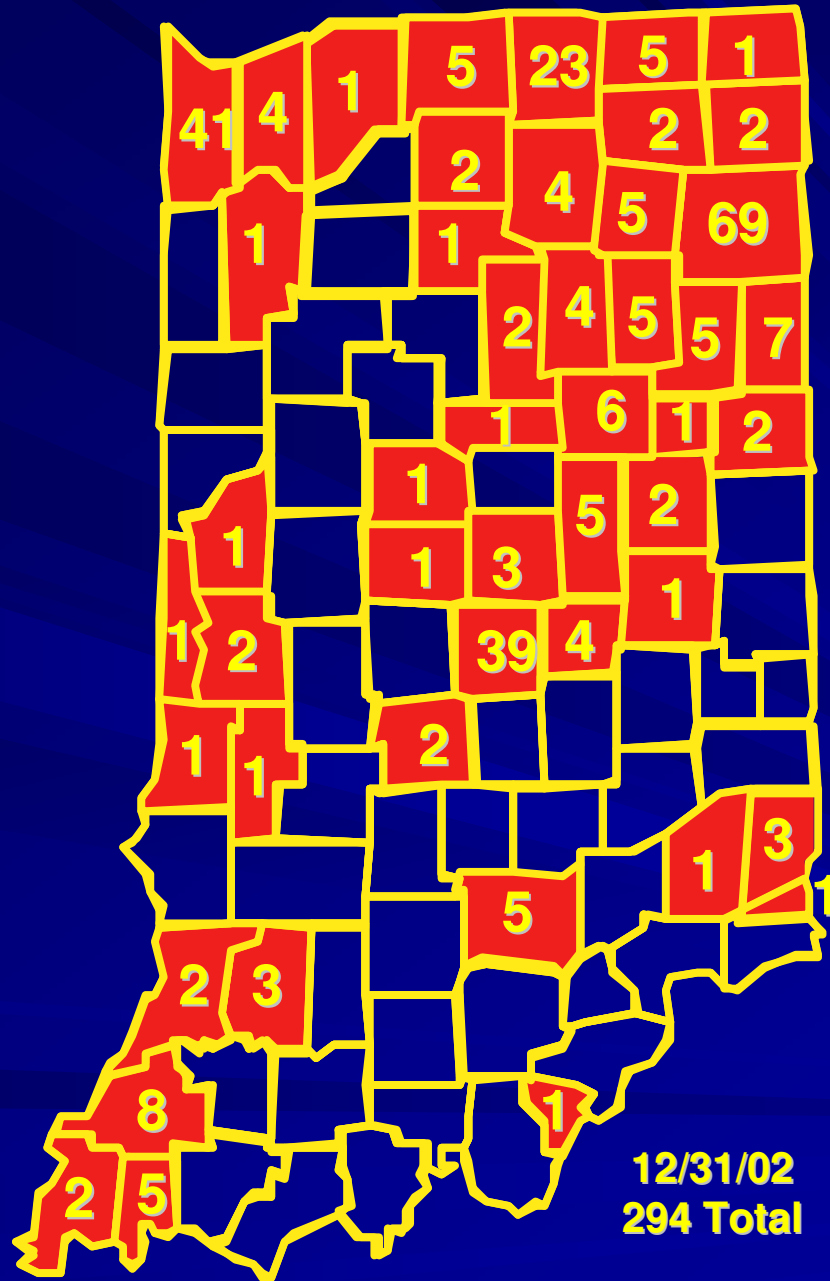


Mosquito Surveillance

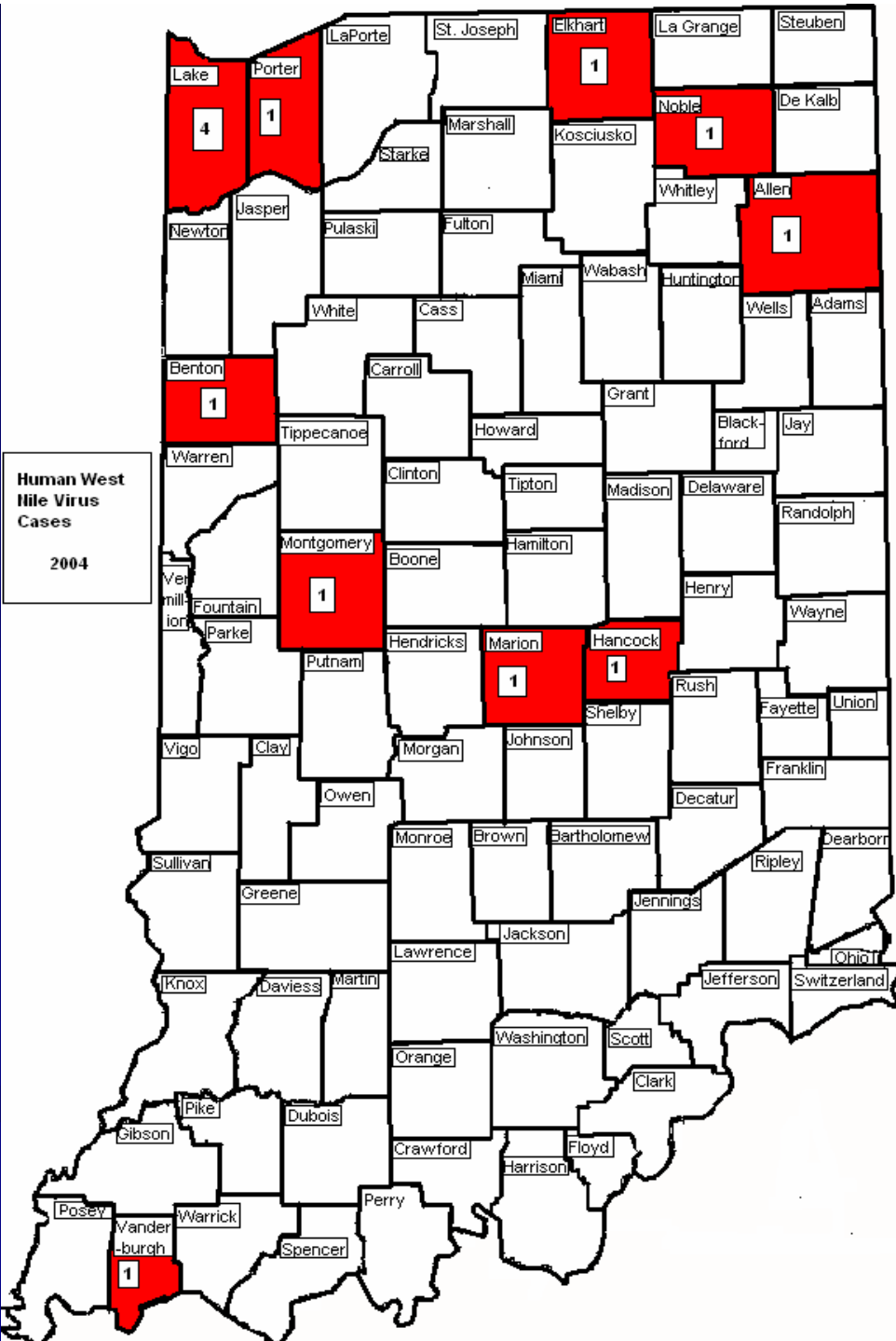


Ochleratatus japonicus

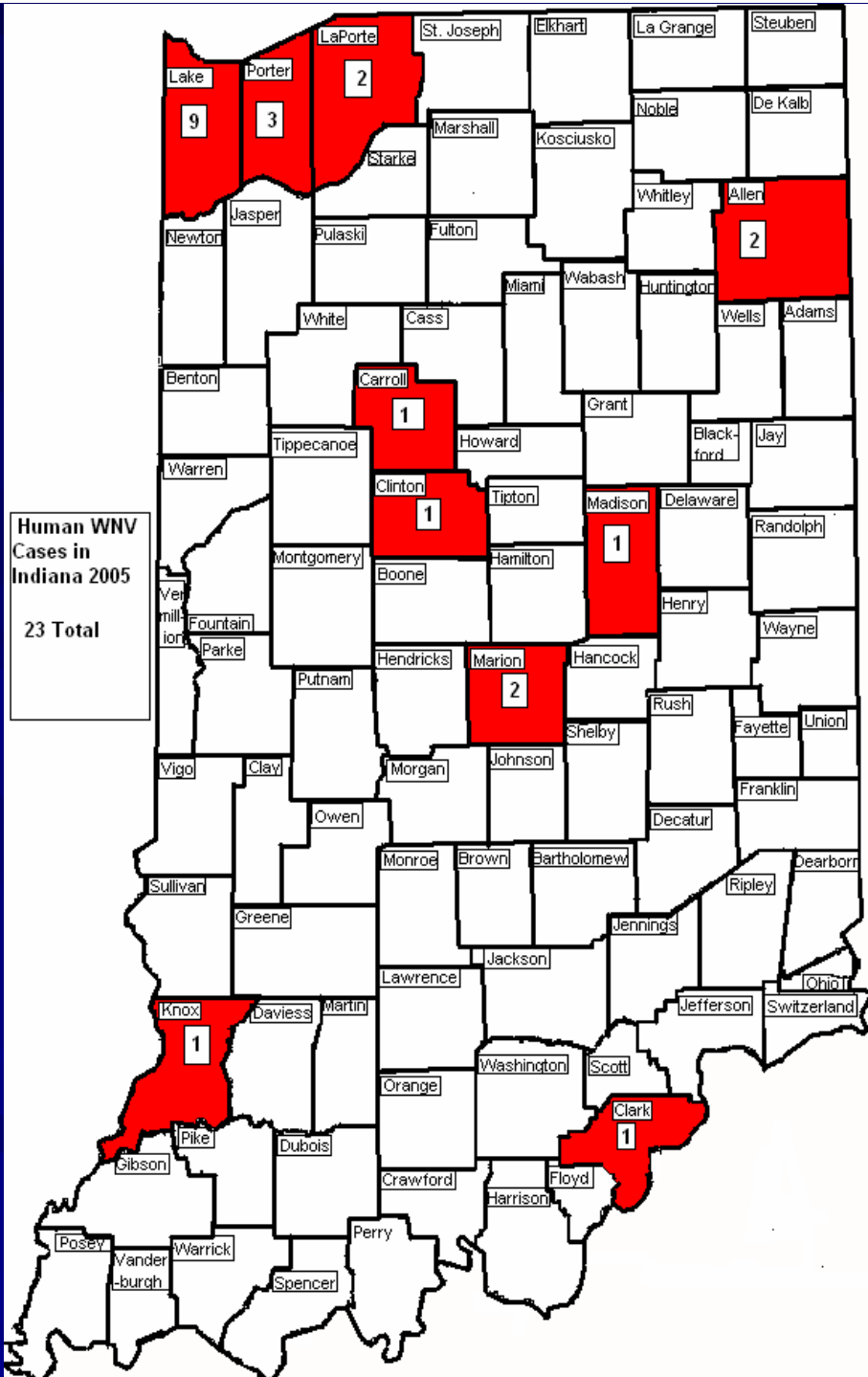
Human Cases WNV



12/31/02
294 Total



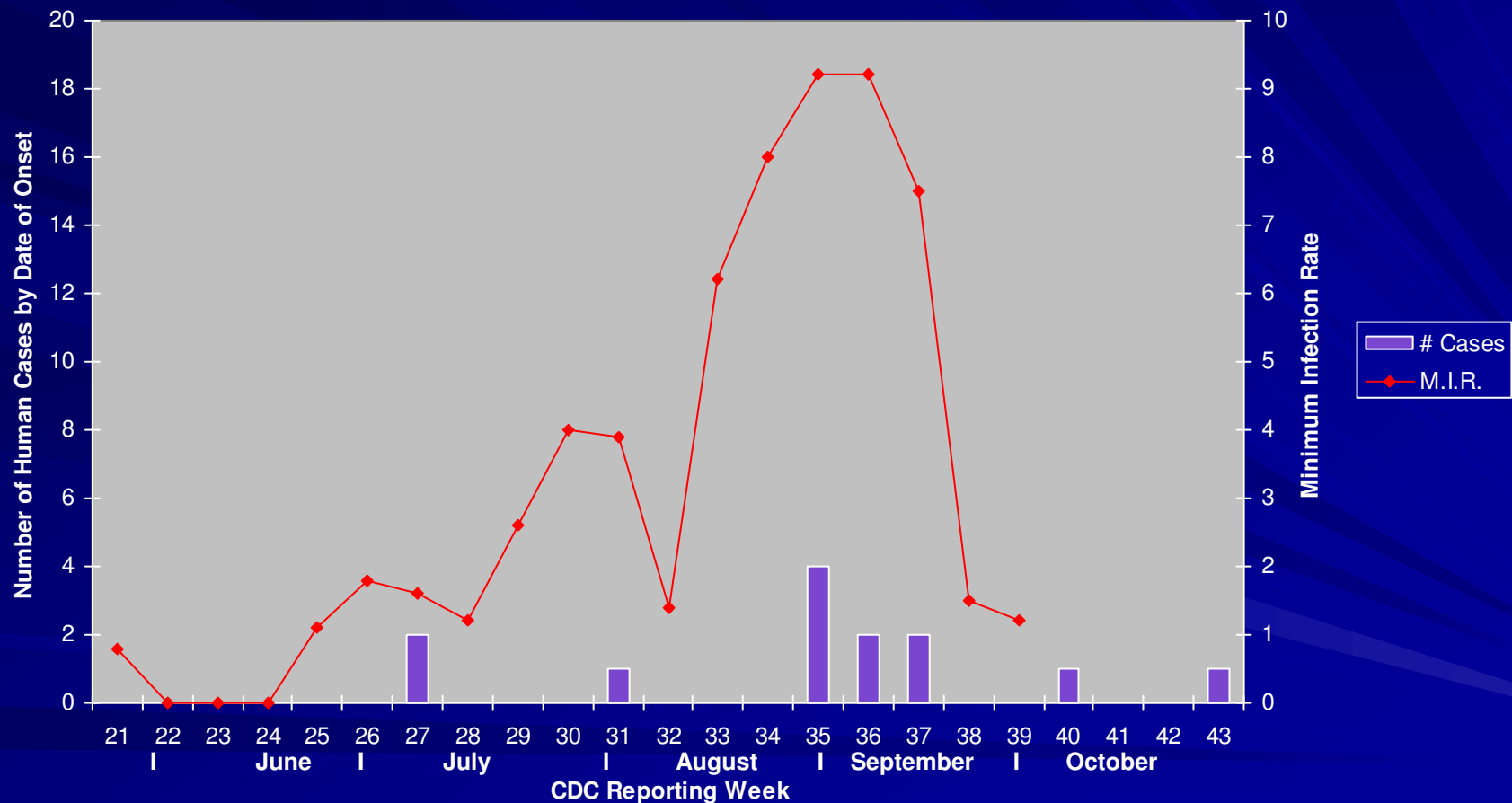
Human West Nile Virus Cases
2004



Human WNV
Cases in
Indiana 2005

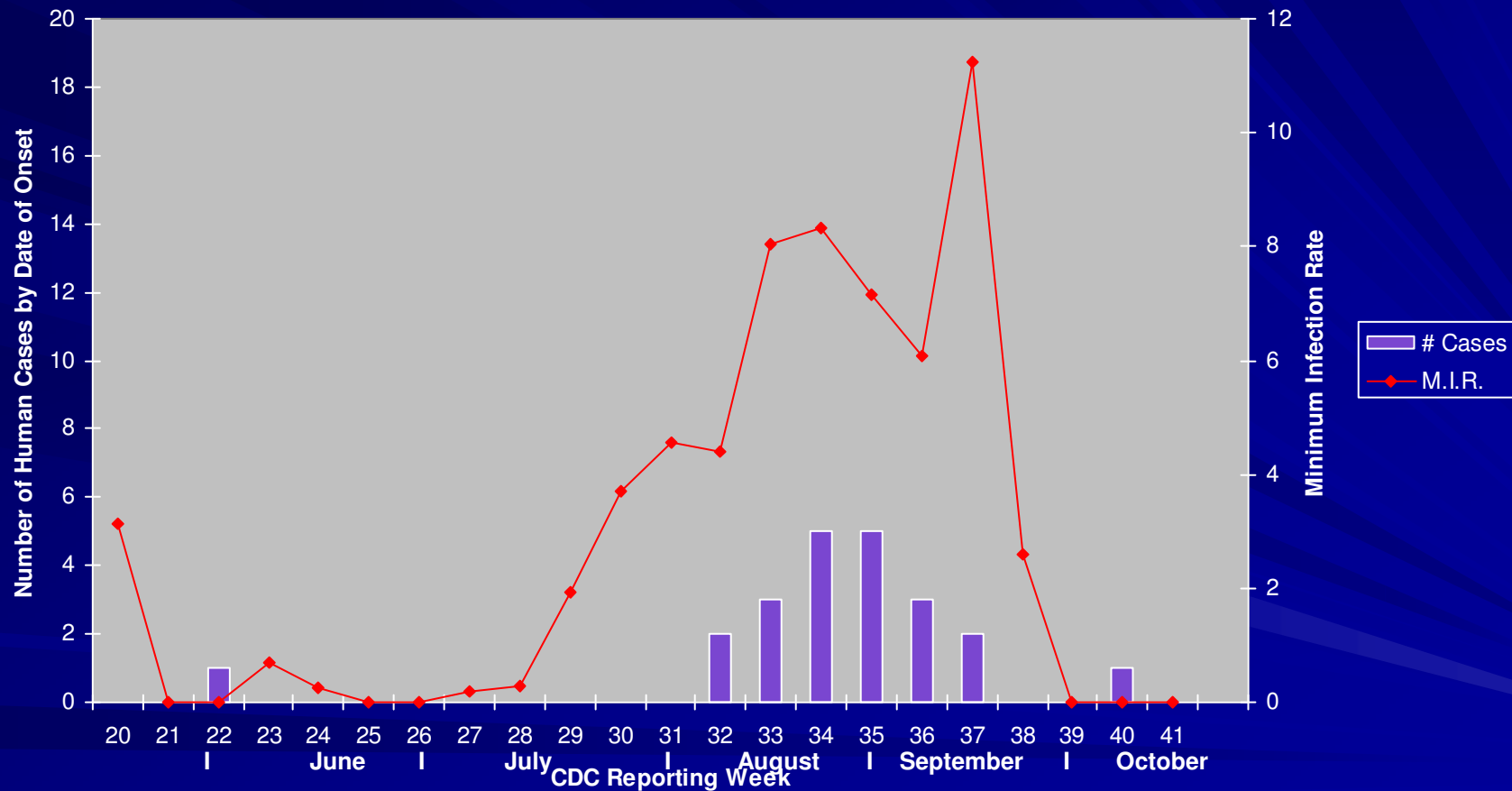
23 Total

Minimum Infection Rates in *Culex pipiens* and *C. restuans* in Indiana in 2004 and Human Cases of WNV

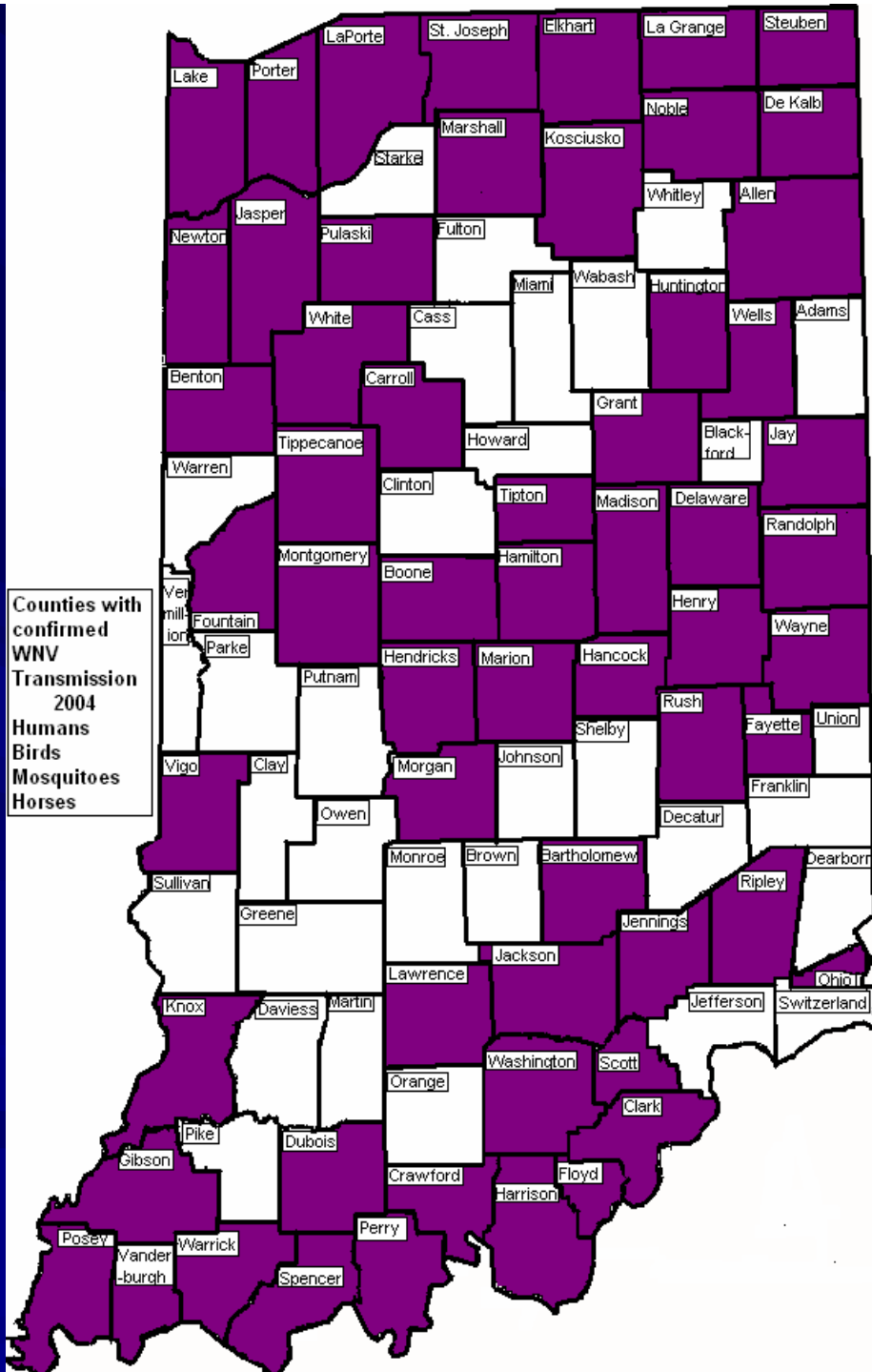


M.I.R. = # + Pools / # Mosq. Tested X 1,000

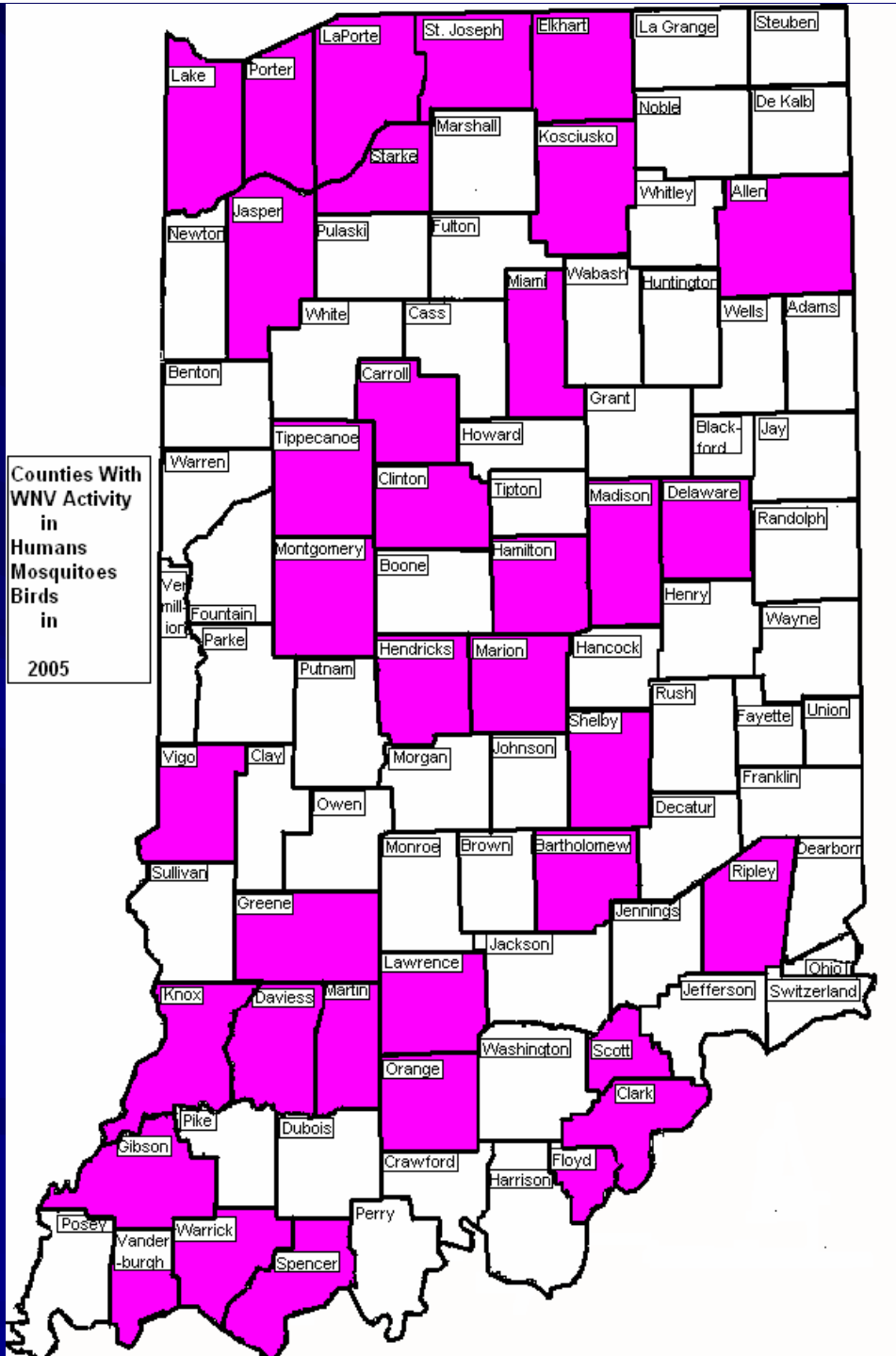
Minimum Infection Rates in *Culex pipiens* and *C. restuans* in Indiana in 2005 and Human Cases of WNV



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



Counties with confirmed WNV Transmission 2004
 Humans
 Birds
 Mosquitoes
 Horses

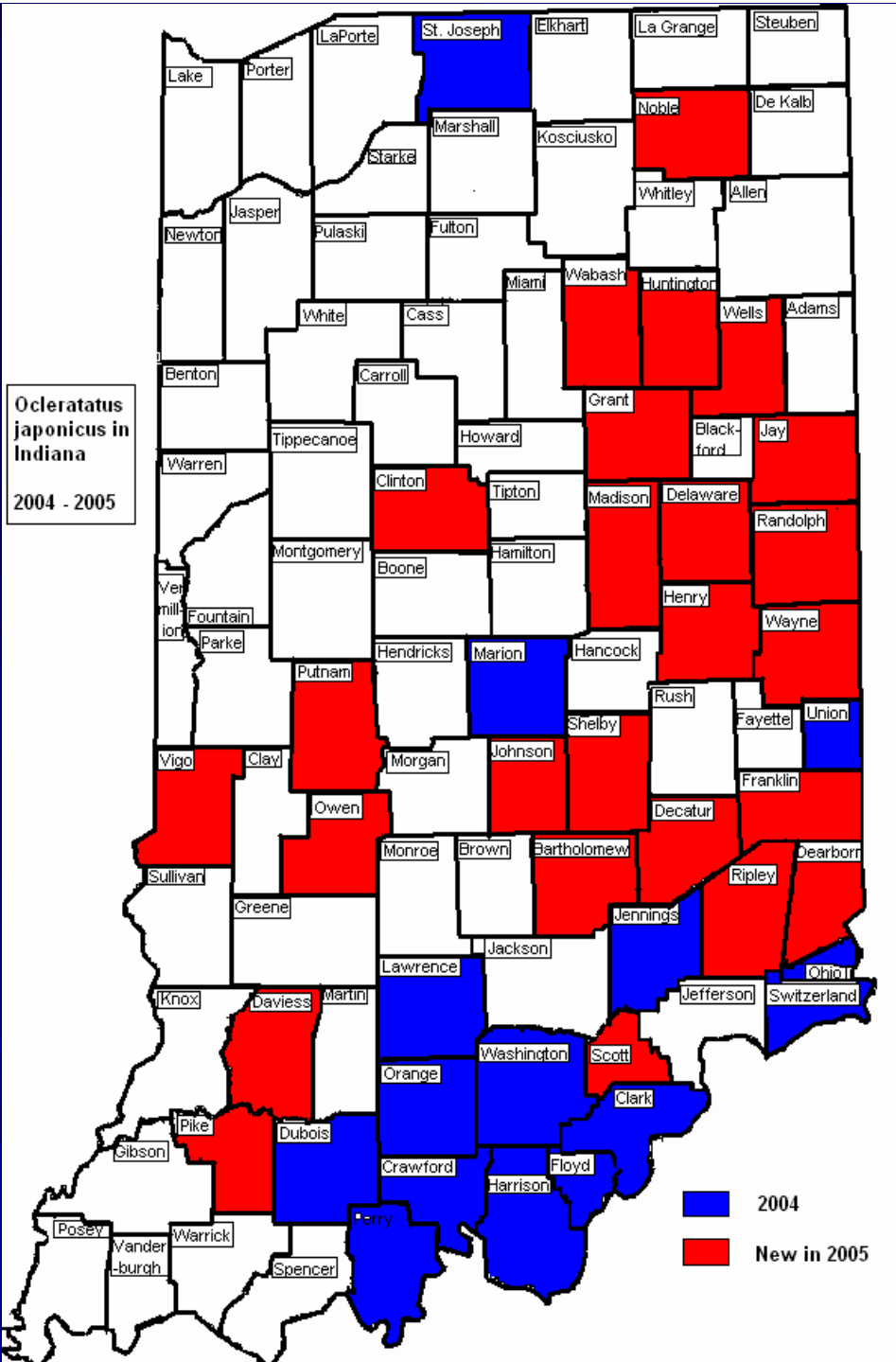


Counties With WNV Activity in Humans Mosquitoes Birds in 2005



photo by Mike Sardalis, USAMRIID

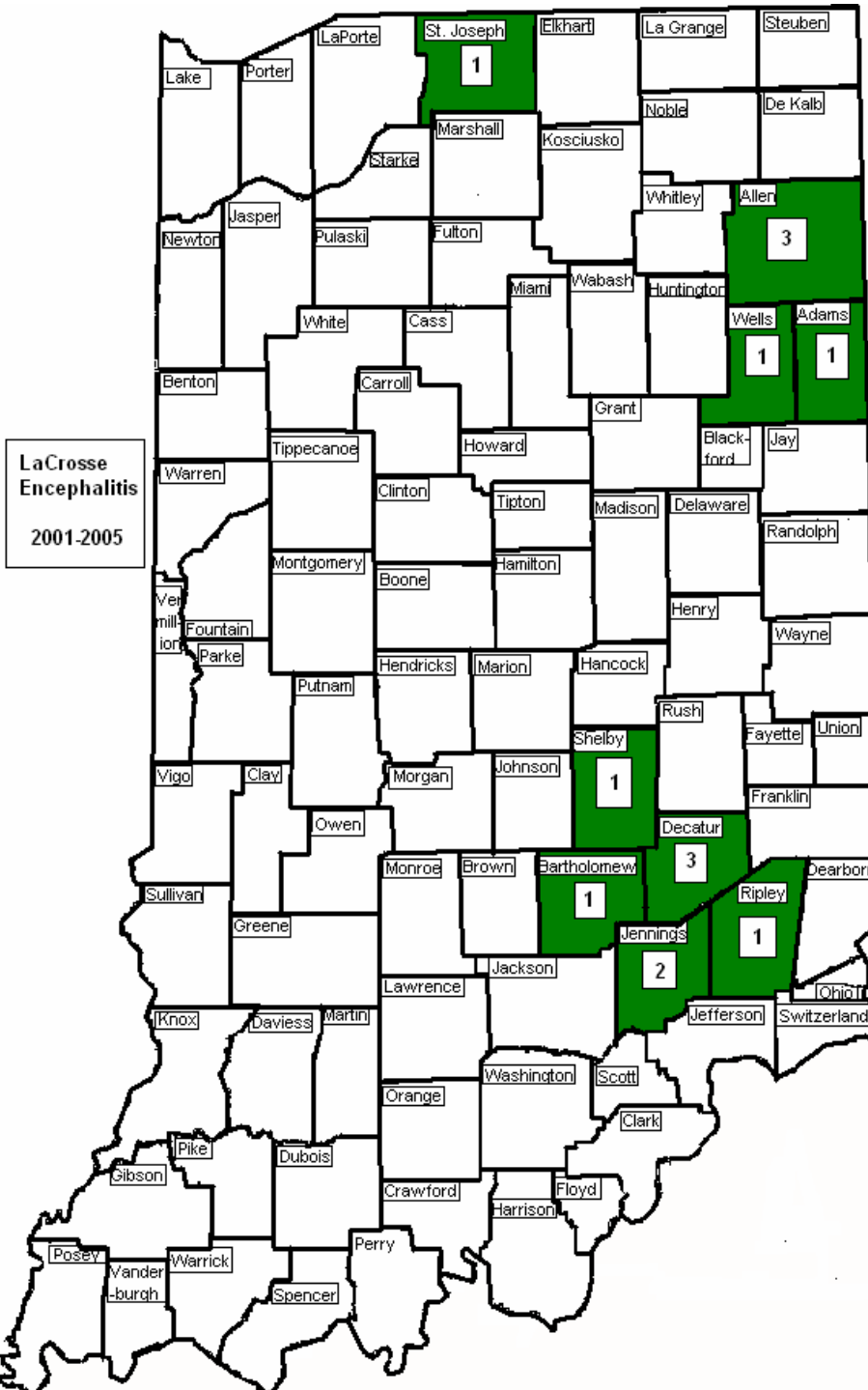
Ochleratatus japonicus



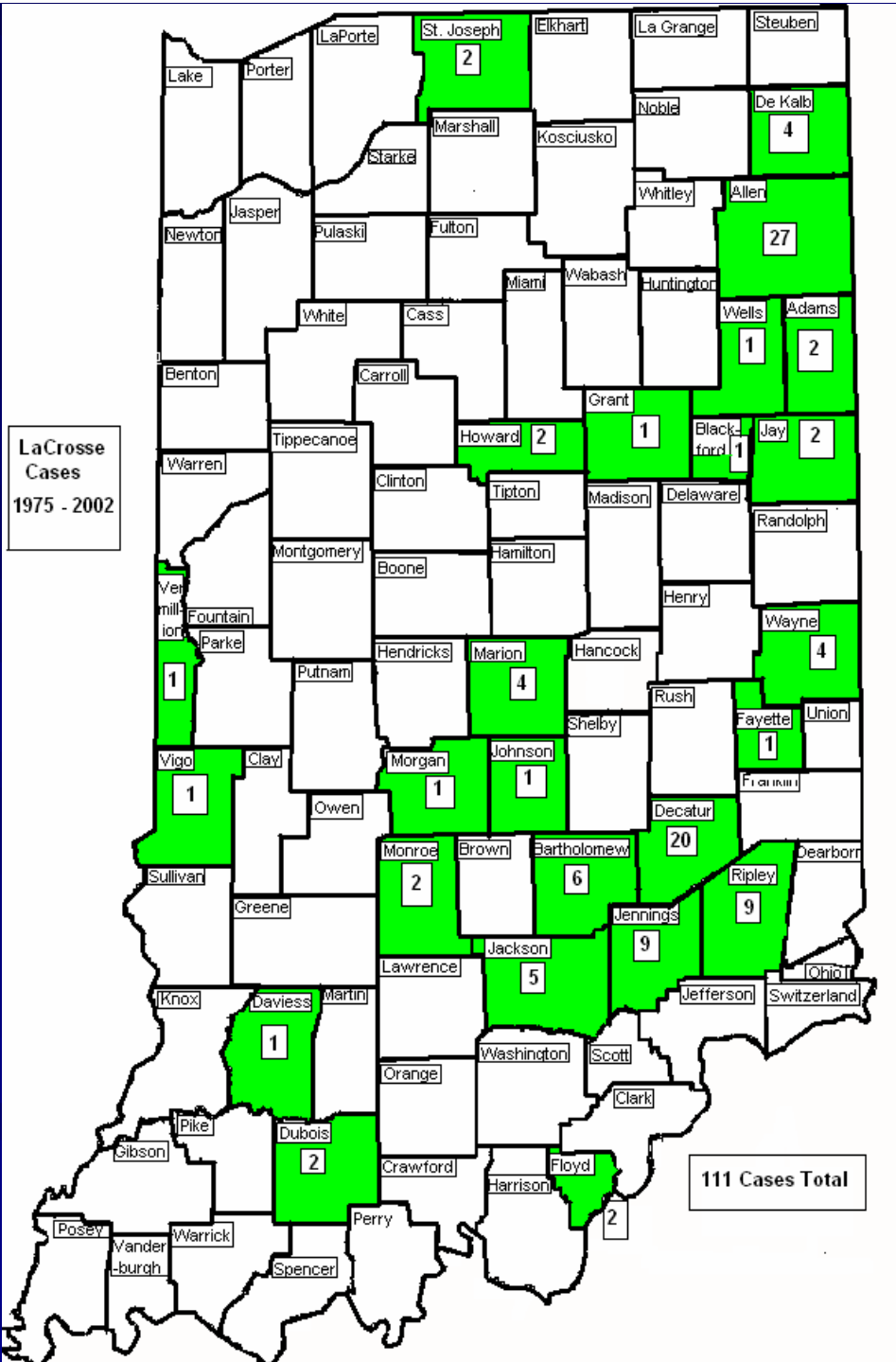
Ocleratus japonicus in Indiana
2004 - 2005

- 2004
- New in 2005

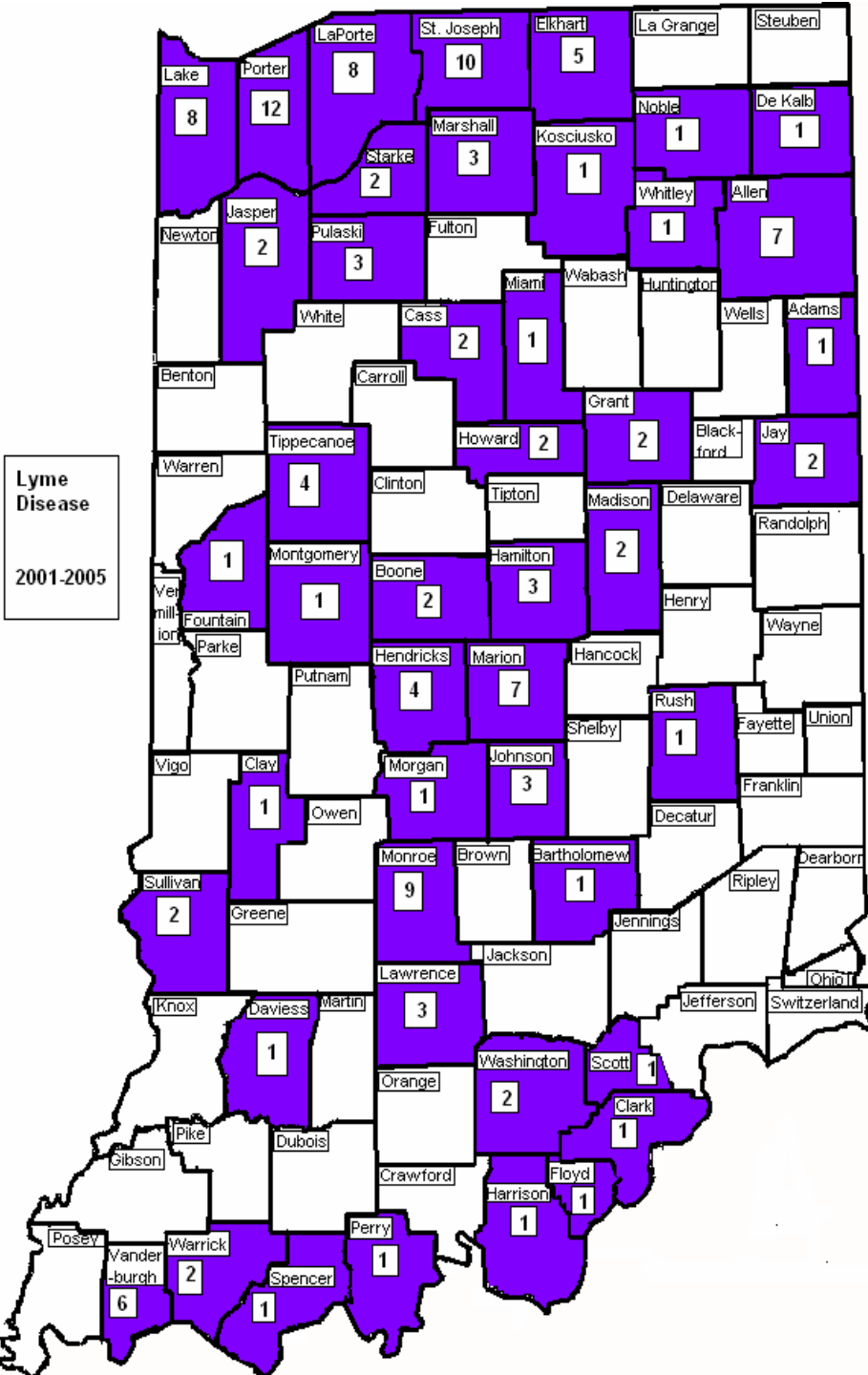




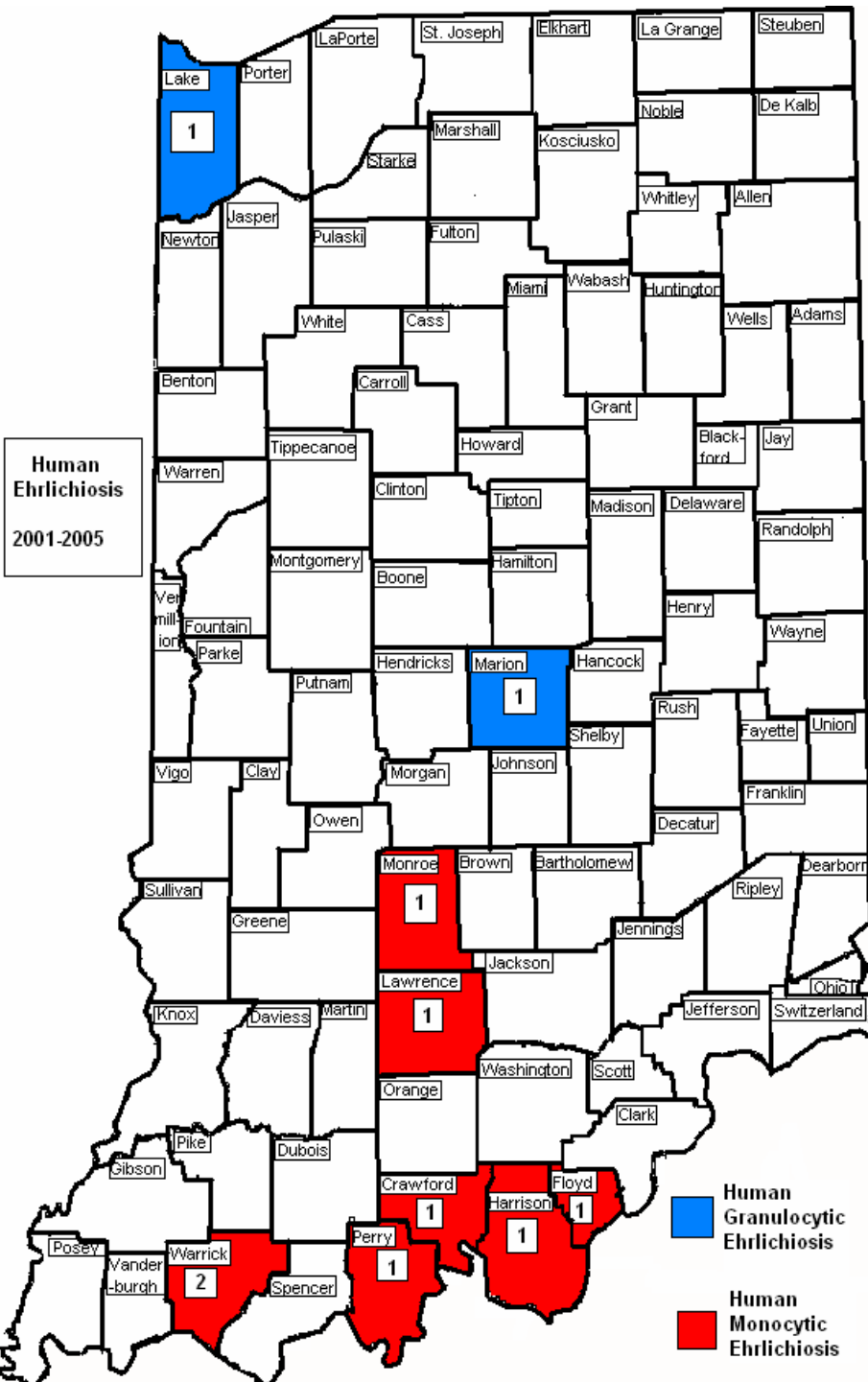
LaCrosse Encephalitis
2001-2005







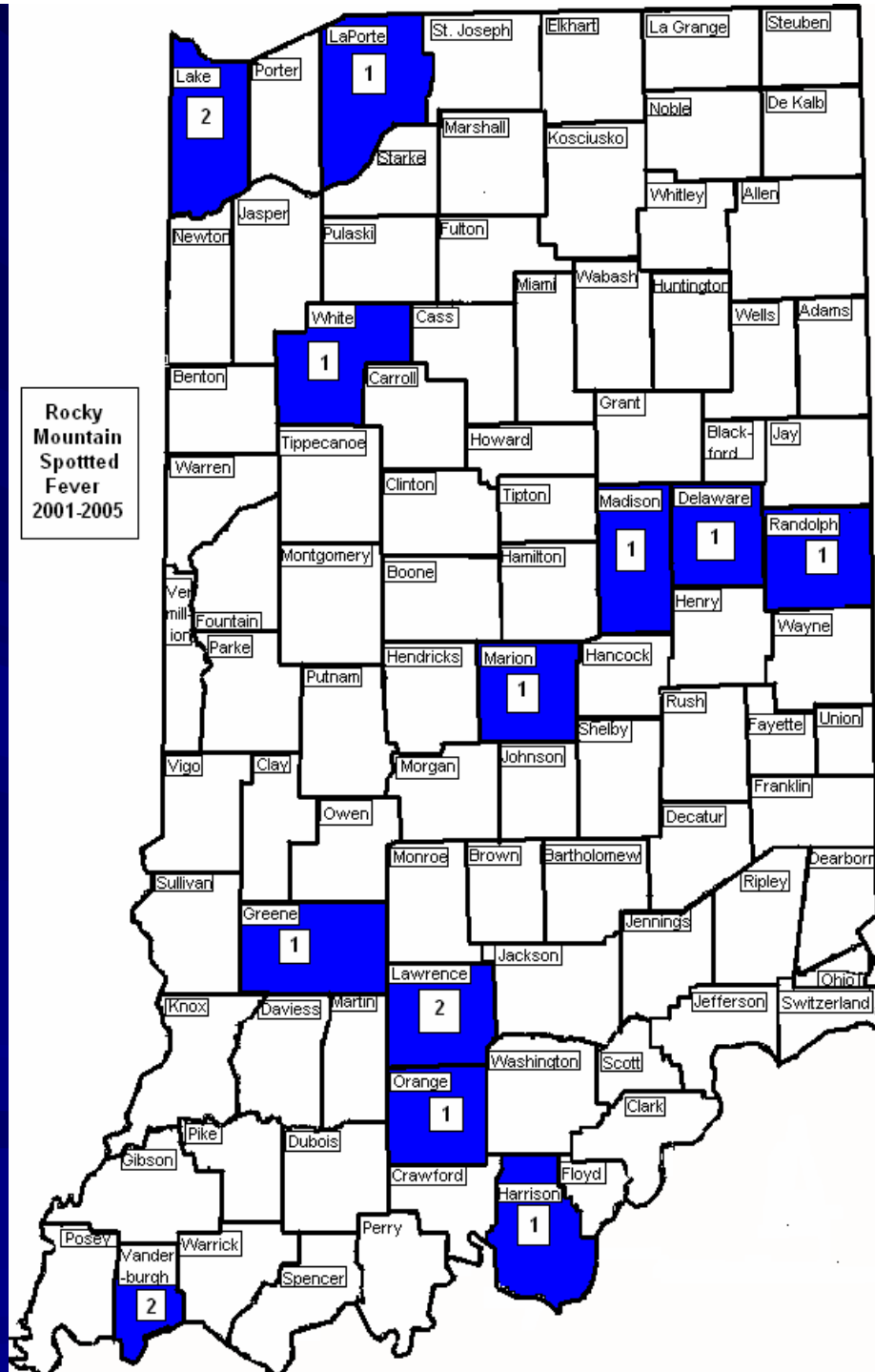




■ Human Granulocytic Ehrlichiosis
■ Human Monocytic Ehrlichiosis



Rocky Mountain Spotted Fever
2001-2005



The End

