West Nile Virus Surveillance Report

Center for Acute Disease Epidemiology | Acute Disease Prevention and Emergency Response | West Nile Virus Website

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Overview:

Eight human cases of West Nile Virus have been reported in Iowa in 2013 and additional cases are being investigated. In 2012, there were 31 human cases of West Nile Virus reported. Five positive blood donors have been reported so far this year. Three sentinel chickens, fourteen mosquito pools and five horses have also tested positive for West Nile Virus.

Human / Sentinel Chicken / Mosquito Surveillance, 2013 Positive Samples

					Mosquito Pools	
County	**Human**	**Blood Donor**	**Horses**	**Sentinel Chickens**	***Culex pipiens* Complex**	***Culex tarsalis***
Dallas	0	0	1	N/A	N/A	N/A
Grundy	0	0	1	N/A	N/A	N/A
Humboldt	1	0	0	N/A	N/A	N/A
Jasper	0	0	1	N/A	N/A	N/A
Kossuth	1	0	0	N/A	N/A	N/A
Linn	1	0	0	N/A	N/A	N/A
Lyon	1	0	0	N/A	N/A	N/A
Monroe	1	0	0	N/A	N/A	N/A
Montgomery	1	0	0	N/A	N/A	N/A
Polk	0	2	2	0	7	0
Pottawattamie	0	0	0	1	1	1
Shelby	1	3	0	N/A	N/A	N/A
Story	0	0	0	0	3	1
Woodbury	1	0	0	2	1	0
Total	***8***	***5***	***5***	***3***	***12***	***2***

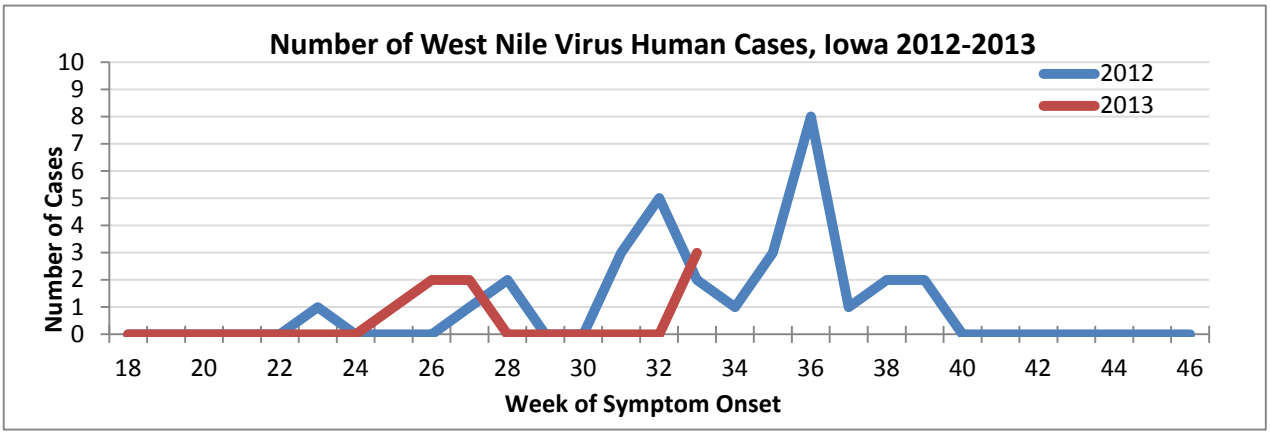

Figure 1. Number of West Nile Virus Human Cases – Iowa, 2012-2013

West Nile Virus is endemic in Iowa and activity usually peaks in late summer and early fall. Local partners collect mosquitoes and maintain sentinel chicken flocks across the state. Iowa State University Medical Entomology monitors the levels of *Culex pipiens* and *Culex tarsalis* mosquitoes (the primary vectors of WNV) statewide and the State Hygienic Laboratory (SHL) tests the mosquitoes to determine whether they are infected with West Nile Virus or other arboviruses. SHL also tests the blood drawn from sentinel chickens weekly to determine whether they have been infected with West Nile virus or other arboviruses.

For additional on Iowa West Nile Virus activity, visit:
www.idph.state.ia.us/Cade/DiseaseIndex.aspx?disease=West Nile Virus.

National WNV Activity:

Nationally, as of August 27th , 620 counties in 45 states and the District of Columbia have reported WNV activity for 2013, including 35 states with reported WNV infections (i.e., disease cases or viremic blood donors) and 10 additional states with reported WNV activity in non-human species only (i.e., veterinary cases, mosquito pools, dead birds, or sentinel animals)

To date, a total of 421 human cases of WNV disease have been reported from 35 states. Of all WNV disease cases reported, 197 (47%) were classified as neuroinvasive disease (e.g., meningitis, encephalitis, acute flaccid paralysis) and 224 (53%) as non-neuroinvasive disease. Dates of illness onset for disease cases ranged from February – August.

West Nile Virus Activity by State – United States

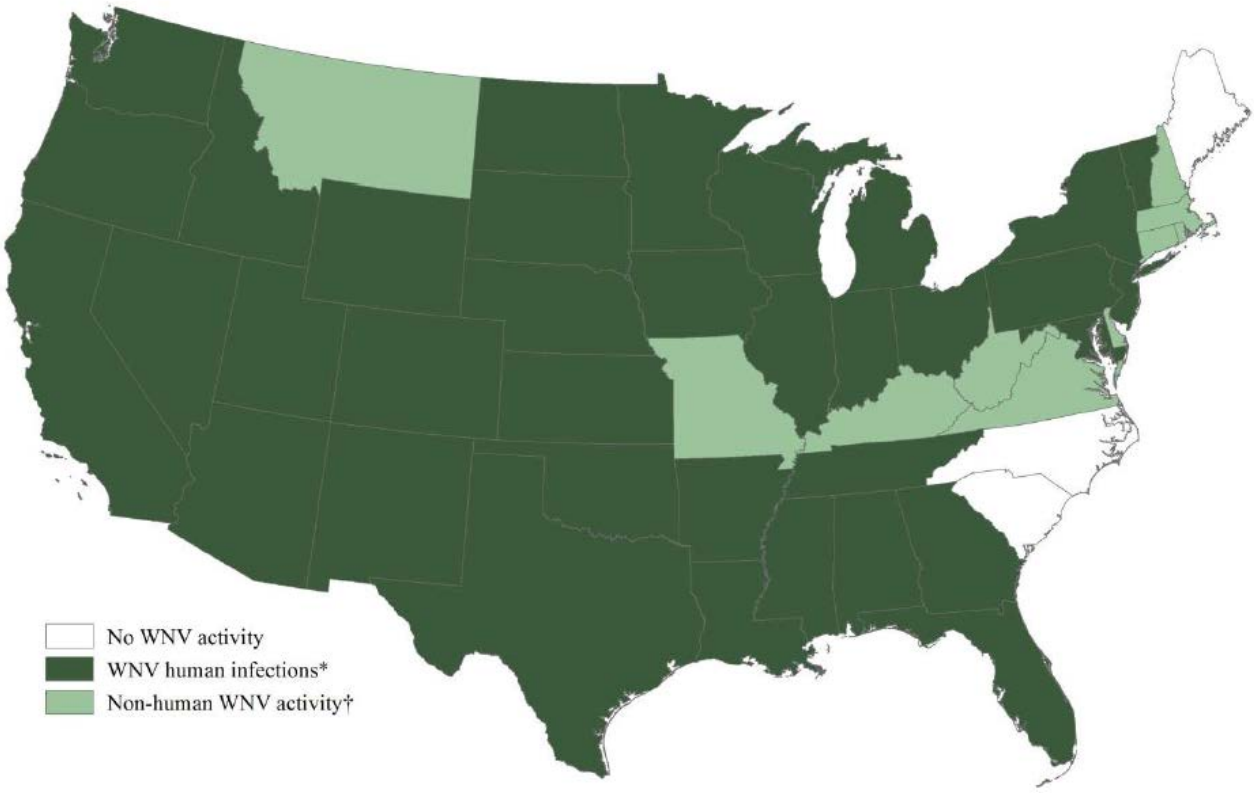

Figure 2. West Nile virus (WNV) activity reported by state — United States, 2013 (as of August 20, 2013)

For additional information on the national West Nile Virus activity, visit:
http://www.cdc.gov/westnile/statsMaps/preliminaryMapsData/index.html