



31 August 2016

Data are preliminary and subject to change

- **Zika Virus:** As of 24 August, 2,487 travel-associated and 29 locally acquired cases have been reported to the United States CDC; 50 confirmed and 10 probable cases have been reported in Army beneficiaries as of 30 August.
- **Army-wide:** 5,343 mosquitoes were tested for Zika; none tested positive.

## West Nile Virus (WNV)

### United States

- From the beginning of the year through 30 August 2016, 406 human WNV cases have been reported to the CDC.
- 190 (47%) of the reported cases were classified as neuroinvasive (i.e., meningitis or encephalitis) and 216 (53%) were classified as non-neuroinvasive.
- From 1 January through 30 August, 45 states report WNV activity of some type (infections in humans, birds, or mosquitoes).



### Cases in Army AD and Other Beneficiaries

- No confirmed or probable WNV cases have been reported in Army AD and beneficiaries in 2016.

## Zika Virus (ZIKV) Update

- From January 1, 2015 through August 24, 2016, 1 laboratory acquired, 2,487 travel-associated, and 29 locally acquired ZIKV cases have been reported in the U.S. 8,968 locally acquired and 43 travel-associated cases were reported in Puerto Rico, U.S. Virgin Islands, and American Samoa.
- As of 30 August, 50 confirmed and 10 probable cases of ZIKV have been reported in Army beneficiaries: 41 AD and 19 non-AD cases.



## DoD Army Laboratory Mosquito Surveillance

- As of 30 August, PHC-Central tested 8,996 mosquitoes (*Culex*, *Aedes*, *Culiseta*, and *Ochlerotatus spp.*) from 711 pools for WNV. 880 of these mosquitoes from 213 pools were also tested for CHIKV and ZIKV; none were positive for any of these pathogens.
- As of 24 August, PHC-Pacific (JBLM) tested 119 *Culex spp.* mosquitoes in 8 pools for WNV; 1,804 *Aedes spp.* mosquitoes in 83 pools for CHIKV, Dengue (DENV), and ZIKV; and 101 *Aedes spp.* mosquitoes in 25 pools for DENV alone; all mosquitoes were negative for these diseases.
- As of 26 August, PHC-Atlantic 2,659 *Aedes* mosquito vector species for CHIKV, DENV, and ZIKV. All tested negative. 16,309 *Culex spp.* mosquitoes were tested for WNV. 18 pools with a total of 378 mosquitoes tested positive for WNV. The positive pools were collected from Anacostia Annex, DC, Fort McNair, DC, the Naval Observatory, DC, Bolling Air Force Base, DC, Walter Reed National Military Medical Center, MD, Fort Hamilton, NY, and Fort Belvoir, VA.



## DRSi Surveillance

- As of 30 August, 8 cases of Rocky Mountain spotted fever (RMSF) disease have been reported in Army AD beneficiaries in 2016 compared to 10 in 2015 during the same time period.

## Army Tick Testing

- As of 17 August, PHC-Atlantic tested 2 *Rhipicephalus turanicus* ticks from Afghanistan and 11 *Dermacentor variabilis* ticks from the U.S. (Virginia, Georgia, and New York) for *Rickettsia rickettsii*; none tested positive.
- As of 24 August, PHC-Pacific tested 13 *D. variabilis* ticks from 5 pools for *R. rickettsii*; none tested positive.
- Of 639 ticks tested for *R. rickettsii* and 4 ticks tested for *R. parkeri* by the Human Tick Test Program, 0% were positive for *R. rickettsii* and 25% were positive for *R. parkeri*.

Human Tick Test Program	<i>A. phagocytophilum</i>	<i>B. microti</i>	<i>B. burgdorferi</i>	<i>E. chaffeensis</i>	<i>E. ewingii</i>	<i>E. muris-like</i>	<i>R. parkeri</i>	<i>R. rickettsii</i>	Panola mountain Ehrlichia
YTD No. Positive (YTD No. Tested)	4 (172)	4 (172)	43 (172)	23 (1714)	20 (1714)	0 (172)	1 (4)	0 (639)	28 (1714)

Note: CONUS data only.

\*Data is YTD 2016

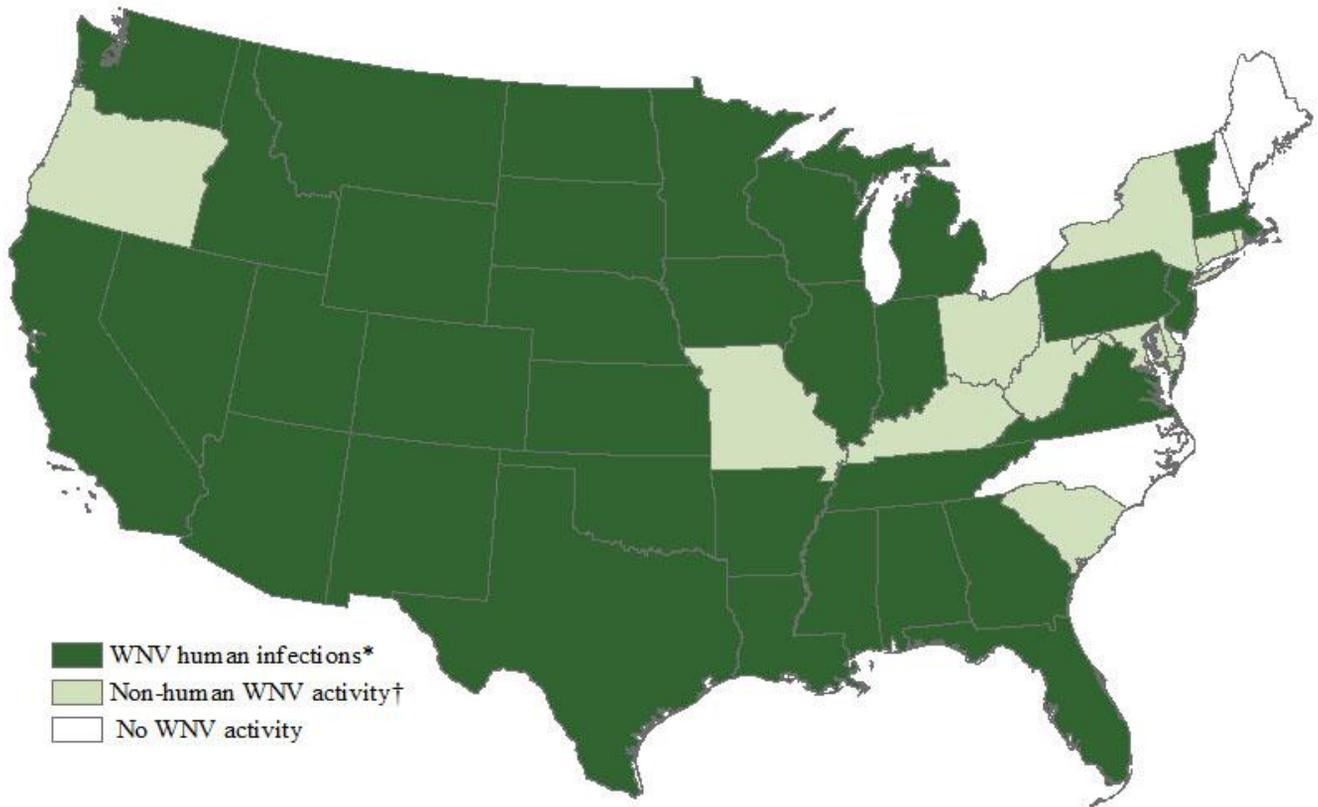
**Resources:** [CDC West Nile Virus](#) • [CDC Lyme Disease](#) • [APHC Zika Virus](#) • [Permethrin Treated Uniforms](#) • [Army Vector-borne Disease Reports](#) • [APHC](#)

**Key:** CDC Centers for Disease Control and Prevention; DRSi Disease Reporting System Internet; AD Active Duty

Contact us: [APHC Disease Epidemiology](#) or 410-417-2377

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# West Nile Virus Activity by State – United States, 2016 (as of August 30, 2016)



\*WNV human disease cases or presumptive viremic blood donors. Presumptive viremic blood donors have a positive screening test which has not necessarily been confirmed.

†WNV veterinary disease cases, or infections in mosquitoes, birds, or sentinel animals.

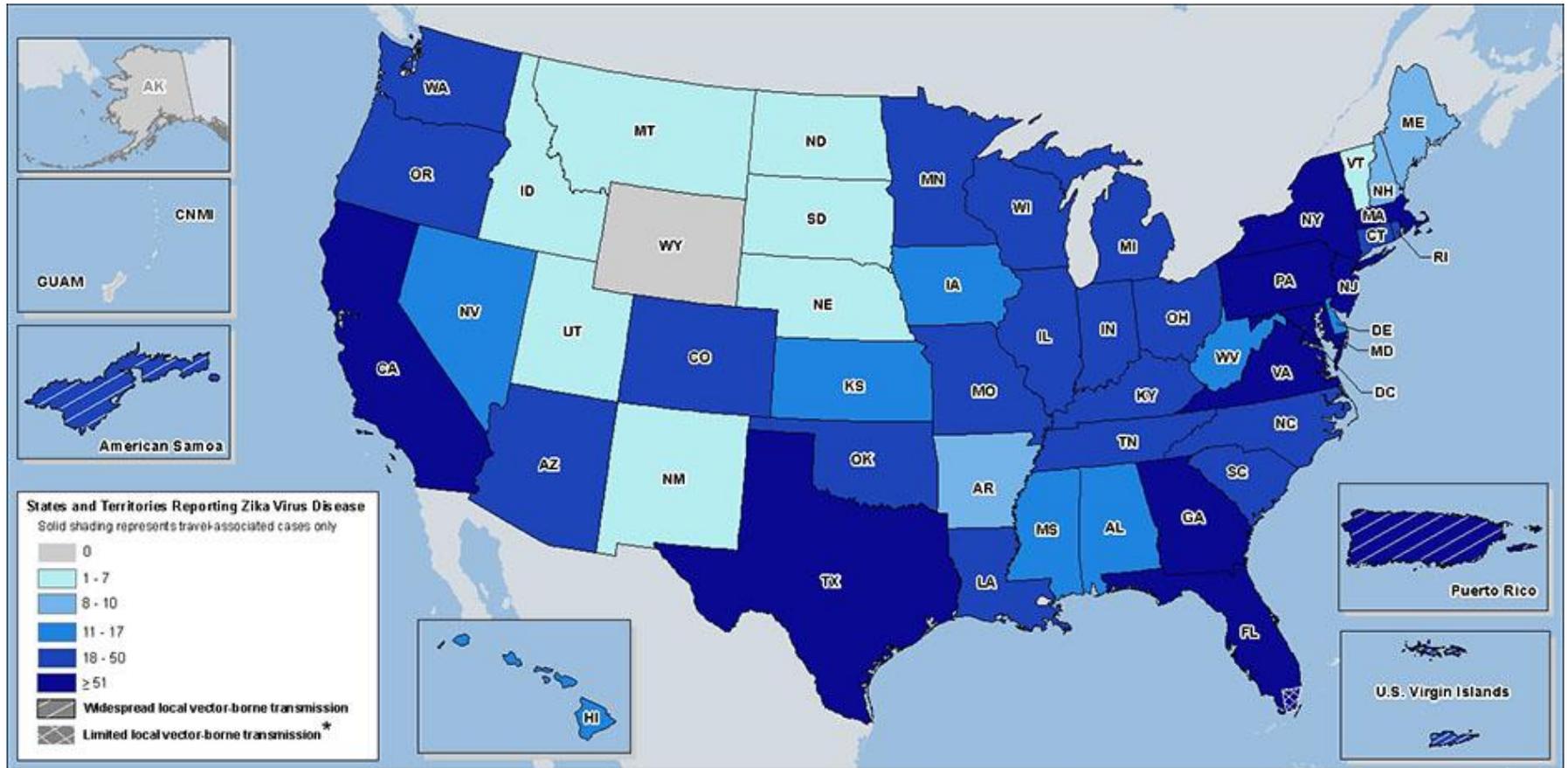
## Data table:

WNV infections in **mosquitoes, birds, sentinel animals, or veterinary animals** have been reported to CDC ArboNET from the following states: Arizona, California, Colorado, Connecticut, Delaware, Florida, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New York, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

West Nile virus infections in **humans** have been reported to CDC ArboNET from the following states: Alabama, Arizona, Arkansas, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Massachusetts, Michigan, Minnesota, Mississippi, Montana, Nebraska, Nevada, New Jersey, New Mexico, North Dakota, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, Wisconsin, and Wyoming.

Source: <http://www.cdc.gov/westnile/statsMaps/preliminaryMapsData/activitystatedate.html>

# Zika virus disease in the United States, 2015-2016



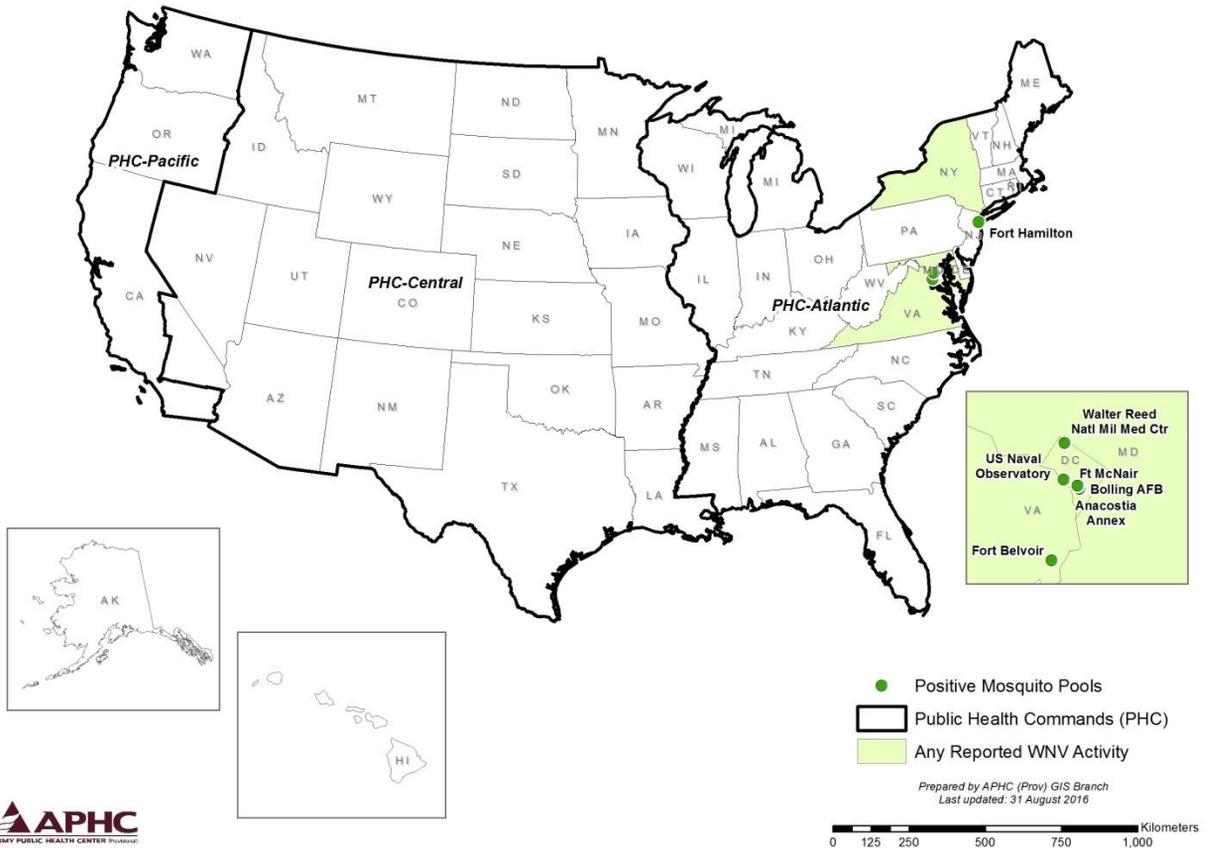
Provisional data reported to ArboNET for January 1, 2015 – August 24, 2016. *Data as of August 24, 2016.*

Source: Centers for Disease Control and Prevention (CDC) Arboviral Disease Branch. *Zika virus disease in the United States, 2015-2016.*

Available at: <http://www.cdc.gov/zika/geo/united-states.html>

# West Nile Virus Activity, by State and Army Public Health Command (PHC), United States, 2016

As of August 26, 2016



Footnote: The map displays white areas that indicate no reported West Nile virus (WNV) activity. Light green areas represent any reported WNV activity\* within a state and dark green circles represent WNV positive mosquito pools on military installations. If West Nile virus infection is reported from any area of a state, that entire state is shaded light green.

\*Includes WNV Army human disease cases (probable and/or confirmed) and infections in mosquito pools on military installations.

Prepared by: Army Public Health Center (Provisional) Geographic Information Systems Branch.