



19 August 2016

Data are preliminary and subject to change

- **Zika Virus:** As of 17 August, 2,245 travel-associated and 14 locally acquired cases have been reported to the CDC in the United States; 37 confirmed and 7 probable cases have been reported in Army beneficiaries as of 18 August.
- **Army-wide:** 4,344 mosquitoes were tested for Zika; none tested positive.

## West Nile Virus (WNV)

### United States

- From the beginning of the year through 16 August 2016, 213 human WNV cases have been reported to the CDC.
- 101 (47%) of the reported cases were classified as neuroinvasive (i.e., meningitis or encephalitis) and 112 (53%) were classified as non-neuroinvasive.
- As of 16 August, 42 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 17, 2016, 1 laboratory acquired, 2,245 travel-associated, and 14 locally acquired ZIKV cases have been reported in the U.S. 8,000 locally acquired and 35 travel-associated cases were reported in Puerto Rico, U.S. Virgin Islands, and American Samoa.
- As of 18 August, 37 confirmed and 7 probable cases of ZIKV have been reported in Army beneficiaries: 33 AD and 11 non-AD cases.



## DoD Army Laboratory Mosquito Surveillance

- PHC-Central tested 8,658 mosquitoes (*Culex*, *Aedes*, *Culiseta*, and *Ochlerotatus spp.*) from 680 pools for WNV. 756 of these mosquitoes from 194 pools were also tested for CHIKV and ZIKV; none were positive for any of these pathogens.
- 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.
- PHC-Atlantic tested 1,784 *Aedes* mosquito vector species for CHIKV, DENV, and ZIKV and all tested negative. 11,485 *Culex spp.* mosquitoes were tested for WNV. 5 pools with a total of 75 mosquitoes tested positive for WNV. The positive pools were collected from Anacostia Annex, DC Fort McNair, DC the Naval Observatory, DC and Walter Reed National Military Medical Center, MD.



## DRSi Surveillance

- 64 cases of Lyme disease have been reported in Army AD beneficiaries in both 2016 and 2015.

## Army Tick Testing

- PHC-Atlantic tested 790 *Ixodes scapularis* ticks for *Borrelia* species pathogenic organisms. *Borrelia burgdorferi* and *B. miyamotoi* were detected in 170 and 23 ticks respectively. 18 of the 23 positive for *B. miyamotoi* were also co-infected with *B. burgdorferi*.
- PHC-Europe tested 76 ticks submitted from military treatment facilities for *Anaplasma phagocytophilum*, *Borrelia spp.*, and tick-borne encephalitis virus (TBEV). Two (2.7%) were positive for *A. phagocytophilum* and all were negative for *Borrelia spp.* and TBEV. 58 ticks submitted from veterinary treatment facilities were also tested for the same pathogens. Two (3.4%) were positive for *A. phagocytophilum* and all were negative for *Borrelia spp.* and TBEV.
- Of 169 ticks tested by the Human Tick Test Program, 25% were positive for *B. burgdorferi*.

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 (171)	4 (171)	43 (169)	22 (1697)	15 (1697)	0 (169)	1 (3)	0 (630)	22 (1697)

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

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