



United States Army Public Health Command
**Army Vector-borne
 Disease Report**

11 July 2014

Data are preliminary and subject to change

- **West Nile Virus:** 8 cases have been reported to the CDC from 6 states; no cases have been reported among Army beneficiaries.
- **Chikungunya:** Continued increase in case numbers; El Salvador and Suriname are the latest areas reporting local transmission. Two possible cases in Army personnel have been reported; both have recovered.

West Nile Virus (WNV)

United States

- From the beginning of the year through 8 July 2014, 18 human WNV cases have been reported to the CDC, including 1 death.
- Two-thirds of reported cases (n=12) were classified as neuroinvasive.
- As of 8 July, 19 states report WNV activity of some type (infections in humans, birds, or mosquitoes).
- States reporting human WNV cases are: Arizona, California, Mississippi, Missouri, South Dakota, Tennessee and Texas. The fatal case occurred in Missouri.



Cases in Army AD and Other Beneficiaries

- No confirmed WNV cases have been reported in Army beneficiaries.

WNV Human Cases ^β		
Population	Reporting Period ^γ	Cum. 2014
United States	18	18
Army Cases [±] Confirmed and Probable		
Army AD [‡]	0	0
Army Non-AD [†]	0	0
WNV Human Deaths		
United States	1	1
Army	0	0

Sources: CDC as of 8 July 2014 and AIPH DRSI as of 10 July 2014.

Note: Reporting location may differ from exposure location.

^β Confirmed and probable neuroinvasive and non-neuroinvasive cases.

^γ Difference between last published and this week's cumulative 2013 value.

[±] Only Army AD and beneficiaries who have a Reportable Medical Event generated on their behalf and whose case status is verified as confirmed/probable are included in this report.

[‡] Active duty, recruits, cadets.

[†] Army-associated beneficiaries.

DoD Mosquito Surveillance from Army Laboratories

- PHCR-North and South have begun West Nile Virus mosquito testing and report no positive pools in 2014.
- PHCR-West will begin testing later this summer.
- As of 2 July, PHCR-Europe has tested 4,574 mosquitoes collected from Camp Lemonnier, Djibouti, Africa.
- 3,977 of these mosquitoes were identified as *Culex* spp.; 0.1% (n=5) tested positive for WNV.
- Twenty percent (n=8) of the 41 *Anopheles* spp. mosquitoes collected were positive for malaria.
- All positive samples were collected in January 2014.

WNV Mosquito Pool Testing	PHC Region	Year to Date 2014
		No. Positive (No. Tested)
	North	0 (86)
	South	0 (332)
	West	0 (0)

Source: Official Communication

Chikungunya in the Americas

- Countries/territories officially reporting local transmission of chikungunya has increased to 22: 18 Caribbean and 4 continental South & Central American countries/territories.¹
- Over 300,000 confirmed/suspect cases, including 21 deaths, have been reported since December 2013.¹
- Countries reporting only imported cases: U.S. (138),² Mexico (1), Panama (2), Cuba (11), Peru (2), Venezuela (17), Brazil (11), Chile (2), Barbados (1), Cayman Islands (1).¹

United States

- As of 8 July, 29 U.S. states report 138 imported chikungunya cases (over 95% are associated with Caribbean travel); FL reports 25% of all cases (34).²
- The U.S. Virgin Islands and Puerto Rico together report 235 cases (including 2 imported).¹
- The CDC has issued a [Travel Alert Level 1 \(Practice Usual Precautions\)](#) for individuals planning to visit the Caribbean.

Army Surveillance

- Two possible chikungunya cases in Army Soldiers have been reported in 2014; both have recovered. Confirmatory labs are pending
- Both potential cases had symptom onset in June and recent travel to the Caribbean (1 duty-related, 1 leisure).
- Suspected chikungunya cases should be reported in DRSi under "Any other unusual condition not listed." Include information on recent travel, the location(s) of travel, and whether travel was duty-related. Also record any relevant or pending laboratory testing.

Outlook

- Chikungunya virus will likely continue spreading to new areas; mosquitoes capable of transmitting chikungunya virus are found throughout much of the Americas, including parts of the U.S.

Chikungunya Infections in the Americas			
Location	Total Cases ^γ	Lab Confirmed Cases	Deaths
Caribbean Islands [†]	304,894	4,325	21
Central & South America [±]	1,943	431	0
Total	306,837	4,756	21

Source: Pan American Health Organization / World Health Organization

Data from 5 DEC 2013 - 3 JULY 2014

^γ Includes suspect and lab-confirmed cases

[†] Anguilla, Antigua & Barbuda, Dominica, Dominican Republic, Grenada, Guadeloupe, Haiti, Martinique, Puerto Rico, St. Barthelemy, St. Martin, Sint Maarten, St. Kitts & Nevis, St. Lucia, St. Vincent & the Grenadines, Turks & Caicos, Virgin Islands (UK), Virgin Islands (US)

[±] El Salvador, French Guiana, Guyana, Suriname

Resources: PAHO CHIKV • CDC Tickborne Diseases • Human Tick Test Program • USAPHC WNV Fact Sheet • Army Vector-borne Disease Reports • USAPHC

Key: CDC Centers for Disease Control and Prevention; DRSi Disease Reporting System Internet; Mosquito pool 1 to 50 mosquitoes; AD Active Duty

Contact us: USAPHC Disease Epidemiology or 410-417-2377

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