



DEPARTMENT OF DEFENSE (AFHSC)

West Africa Ebola Surveillance Summary #82

2 FEB 2015 (next report 6 FEB 2015)



CASE REPORT: Since the previous summary (29 JAN), there has been an increase of 258 confirmed, suspected, and probable Ebola virus disease (EVD) cases (+118 deaths), bringing the total to 22,404 cases (8,946 deaths). These cases and deaths are reported from Guinea, Liberia, and Sierra Leone, where ongoing transmission continues; Senegal, Nigeria, United States, Spain, and Mali, where there have been no incident cases over at least the past 21 days; and the United Kingdom, which reported one travel-related case (Sierra Leone) on 29 DEC 2014.

Based on the 28 JAN 2015 [WHO situation report](#), there were 99 new confirmed cases reported from the most affected countries between 18 – 25 JAN : 30 in Guinea, 4 in Liberia, and 65 in Sierra Leone. WHO also reports that case incidence continues to fall in Liberia and Sierra Leone, while Guinea experienced an increase in confirmed cases in the week ending 25 JAN. Over the most recent three-week period with available data, total cases have increased 4% in Liberia (ending 28 JAN), 6% in Sierra Leone (ending 31 JAN), and 6% in Guinea (ending 31 JAN).

On 20 JAN 2015, WHO convened the fourth Emergency Committee meeting on the 2014 EVD outbreak. [The Committee unanimously agreed](#) that the outbreak continues to constitute a Public Health Emergency of International Concern (PHEIC). The committee also stated that all previous temporary recommendations remain in effect with some additional advice on exit screening and active surveillance in border areas.

DoD SURVEILLANCE GUIDELINES: On 31 OCT 2014, the Under Secretary of Defense (USD) for Personnel and Readiness [issued a memorandum](#) providing guidance for training, screening, and monitoring for DoD personnel deployed to Ebola outbreak areas. The USD also published electronic versions of the [Ebola risk evaluation form](#) (DD2990) and [redeployment risk assessment form](#) (DD2991). On 5 JAN 2015, the Armed Forces Health Surveillance Center published [updated guidelines](#) for the detection and reporting of DoD cases of EVD.

RISK TO DoD PERSONNEL: There is significant risk to U.S. military medical personnel who care for Ebola patients or handle patients or samples without proper PPE; risk to non-medical DoD personnel is low provided there is no contact with sick people or infected animals.

MEDICAL COUNTERMEASURES: There are no approved vaccines or specific treatments for EVD. On 9 JAN 2015, [WHO said](#) that the vaccines produced by GlaxoSmithKline and Merck have acceptable safety profiles. [The GSK vaccine began testing in Liberia on 2 FEB and the Merck vaccine could begin trials in West Africa in FEB 2015.](#) A vaccine produced by Johnson & Johnson with Bavarian Nordic [began safety trials](#) in Britain on 6 JAN 2015. Of [four drug candidates](#), ZMapp, TKM-Ebola, brincidofovir, and favipiravir. [The latter two started trials in West Africa but trials of brincidofovir were halted on 31 JAN because there are too few patients available.](#) On 2 JAN 2015, Aethlon Medical Inc. [reported FDA approval](#) of their request to test an anti-viral hemopurification device on EVD patients in the U.S. at the Nebraska Medical Center. The device was [successfully used](#) on a patient in Germany. WHO, with Guinea, Sierra Leone and Liberia, continue to develop capacity to collect and use convalescent sera from recovered Ebola patients to experimentally treat ill patients in West Africa. On 9 DEC 2014, [HHS offered liability protections](#) to drug makers developing Ebola vaccines.

Links to Additional Sections of this Report

DoD, USG and Global Response & Travel Advisories		Latest Case Counts		Cases by Admin Area (map)
New Cases (Last 21 days) by Admin Area (map)		Cumulative Cases	New Confirmed Cases	Additional Resources

Text updated from the previous report will be printed in red; items in (+xx) represent the change in number from the previous AFHSC summary (29 JAN 2015).

All information has been verified unless noted otherwise. Sources include WHO, CDC, and health agencies in Guinea, Liberia, Sierra Leone, Mali, and the UK.

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DoD RESPONSE: About 2,100 DoD personnel are currently deployed in West Africa for the Ebola response. In Liberia, two Ebola testing laboratories manned by personnel from the U.S. Naval Medical Research and four Army Area Medical Laboratories are fully operational. DoD has completed and transferred to USAID all ten planned ETUs. On 1 JAN 2015, AFRICOM was [scheduled to transition](#) its critical healthcare worker training mission to partners in the WHO, ETU healthcare workers trained as trainers, and the contracting company PAE.

On 8 JAN 2015, SECDEF signed a memo delegating authority to use DoD aircraft to transport Ebola symptomatic or exposed DoD personnel. On 17 DEC 2014, the CJCS issued an updated [CJCSI 4220.01A](#), implementing SECDEF's 21-day controlled monitoring policy. The updated policy lays out who is affected and how the monitoring will be conducted, including naming seven monitoring sites: Ft. Bliss, TX; JB Langley-Eustis, VA; Ft. Hood, TX; Ft. Bragg, NC; and JB Lewis-McCord, WA in CONUS, plus USAG Baumholder, Germany and Caserma Del Din, Vicenza, Italy, OCONUS. On 7 NOV 2014, [DoD issued guidance](#) on medical care of DoD civilians deployed to Ebola outbreak areas.

On 14 NOV 2014, [SECDEF authorized](#) the involuntary mobilization of up to 2,100 Reserve and National Guard troops for Operation United Assistance (OUA). On 23 JAN 2015, Press Secretary Admiral Kirby said, "OUA does not require several National Guard units that were initially considered for deployment," [confirming that U.S. forces](#) will leave West Africa.

FDA has issued [Emergency Use Authorizations \(EUA\)](#) for several in vitro diagnostics for detection of Ebola virus. Under the EUAs, the DoD EZ1 real time RT-PCR Ebola Zaire virus detection assay developed by USAMRIID is approved for human diagnostic testing at the following DoD labs: USAMRIID, Landstuhl RMC, NIDDL at NMRC, NHRC, NAMRU-3, NAMRU-6, William Beaumont AMC, Carl R. Darnall AMC, Madigan AMC, Tripler AMC, and SAAMC. In Liberia, the Navy's two mobile labs and the USAMRIID-supported Liberian Institute for Biological Research in Monrovia are qualified to perform Ebola diagnostic testing on U.S. personnel. Joint Base Langley-Eustis, Carl R. Darnall AMC, Wright-Patterson MC, WRNMMC, SAAMC, Madigan AMC, Womack AMC, Landstuhl RMC, and NIDDL have been approved as BioFire FilmArray NGDS BT-E Assay testing sites. The most recent assay approved under the EUA was the Roche [LightMix® Ebola Zaire rRT-PCR Test](#) for the presumptive detection of Ebola Zaire virus in individuals with signs and symptoms of Ebola disease, on 23 DEC 2014.

USG AND GLOBAL RESPONSE: Current information and guidance is available at the [CDC](#) and [WHO](#) Ebola web sites. On 25 JAN 2015, WHO Director-General Chan [gave a report](#) to a special session of the WHO Executive Board on Ebola containment challenges and progress made in West Africa.

TRAVEL ADVISORY: The U.S. announced on 21 OCT 2014 that [all flights carrying travelers from the affected West African nations](#) must enter the U.S. through one of the five designated airports that are conducting enhanced screening for EVD (JFK, Newark Liberty, Washington Dulles, Chicago O'Hare, and Atlanta Hartsfield-Jackson). On 5 JAN 2015, the U.S. ended the screening requirement for [travelers from Mali](#) and on 6 JAN, the CDC removed its [Alert – Level 2. Practice Enhanced Precautions](#) for Mali. The CDC is maintaining its [Warning - Level 3. Avoid Nonessential Travel](#) advisory for Guinea, Sierra Leone, and Liberia. On 2 NOV 2014, U.S. Customs and Border Protection (CBP) said U.S. military aircraft do not need to be re-routed to one of these airports, provided that CBP has ensured the established DoD screening protocols will take place at the arrival location. On 28 OCT 2014, the CDC recommended that state public health departments [begin direct active post-arrival monitoring for 21 days](#) along with other movement restrictions based on a traveler's exposure risk category using CDC definitions. On 20 JAN 2015, WHO reaffirmed the need to avoid unnecessary interference with international travel and trade.

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All information has been verified unless noted otherwise. Sources include DoD, WHO, CDC, and USAID DART team.

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Latest Available Ebola Case Counts in or Related to West Africa, 2014-2015

Country (as of date)	EVD Cases All / Lab Confirmed	Deaths All / Lab Confirmed	EVD Cases in HCW / Deaths	Contacts Being Followed
Guinea (31 JAN)	2,959 (+42) / 2,593 (+24)	1,937 (+27) / 1,595 (+17)	162 / 88	1,055
Liberia (28 JAN)	8,680 (+46) / 3,138	3,719 (+24) / NA	371 / 179	324
Sierra Leone (31 JAN)	10,730 (+170) / 8,056 (+65)	3,275 (+67) / 2,909 (+67)	283 / 221	9,065
United Kingdom (22 JAN)	1 / 1 ***	0 / 0	1 / 0***	0
United States (4 DEC)	4 / 4* **	1 / 1	3 / 0	0
Mali (21 DEC)	8 / 7	6 / 5	2 / 2	0
Nigeria (17 SEP)	20 / 19	8 / 7	11 / 5	0
Senegal (20 SEP)	1 / 1*	0 / 0	0 / 0	0
Spain (2 DEC)	1 / 1	0 / 0	1 / 0	0
Total	22,404 (+258) / 13,820 (+89)	8,946 (+118) / 4,517 (+84)†	834 / 495	10,444

Case Fatality Proportion: As of 28 JAN 2015, the WHO said the case fatality rate in the three intense-transmission countries among cases for whom a definitive outcome is recorded is between 54% and 62%. For hospitalized patients, the case fatality rate is 54% in Guinea, 58% in Liberia, and 61% in Sierra Leone.

†Excluding Liberia / *Imported from Liberia / **1 imported from Guinea / ***Imported from Sierra Leone / NA = Not Available

Shaded countries have been declared Ebola transmission-free by WHO.

The total number of cases is subject to change due to reclassification, retrospective investigation, consolidation of cases and laboratory data, and enhanced surveillance.

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All information has been verified unless noted otherwise. Sources include WHO, CDC, and health agencies in Guinea, Liberia, Sierra Leone, Mali, and the UK.

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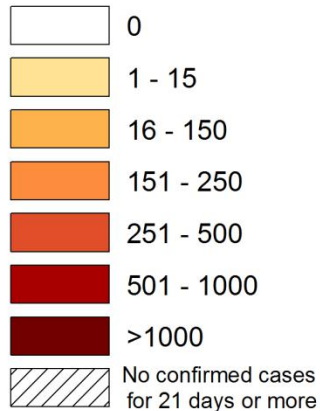
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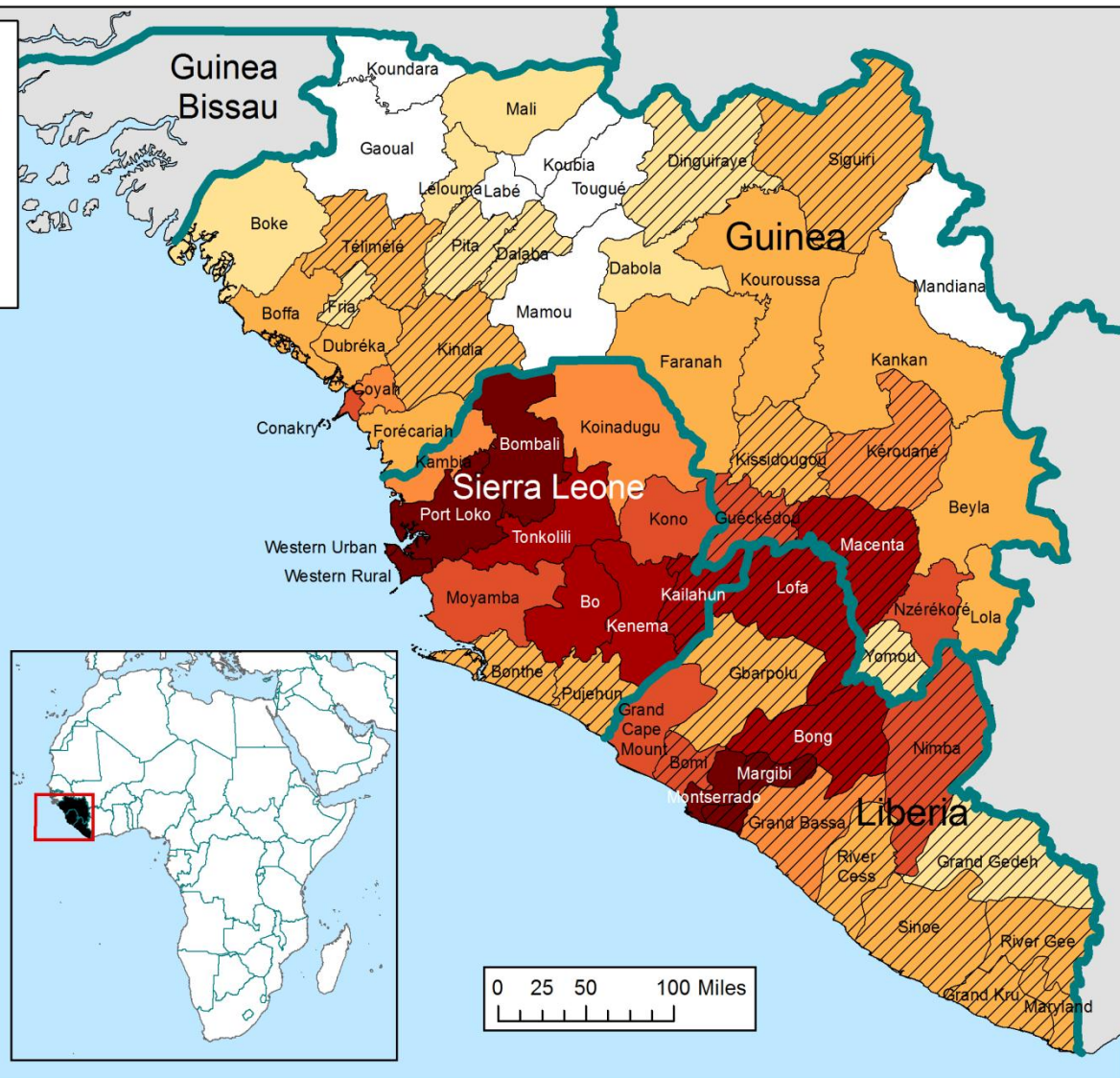
Cumulative number of suspect, probable, and confirmed Ebola virus disease cases by district in West Africa

Number of cases*



*As of 31 JAN, Sierra Leone reported 23 cases that were not assigned to a district.

As of dates:
Guinea, 27 JAN
Liberia, 25 JAN
Sierra Leone, 31 JAN



All information has been verified unless noted otherwise. Sources include WHO, and the Guinea, Liberia, and Sierra Leone Ministries of Health.

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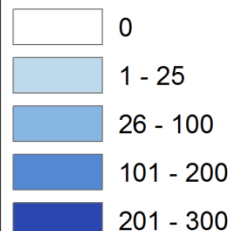
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New suspect, probable, and confirmed Ebola virus disease cases by district in West Africa, during the most recently reported three-week period

Number of New Cases*



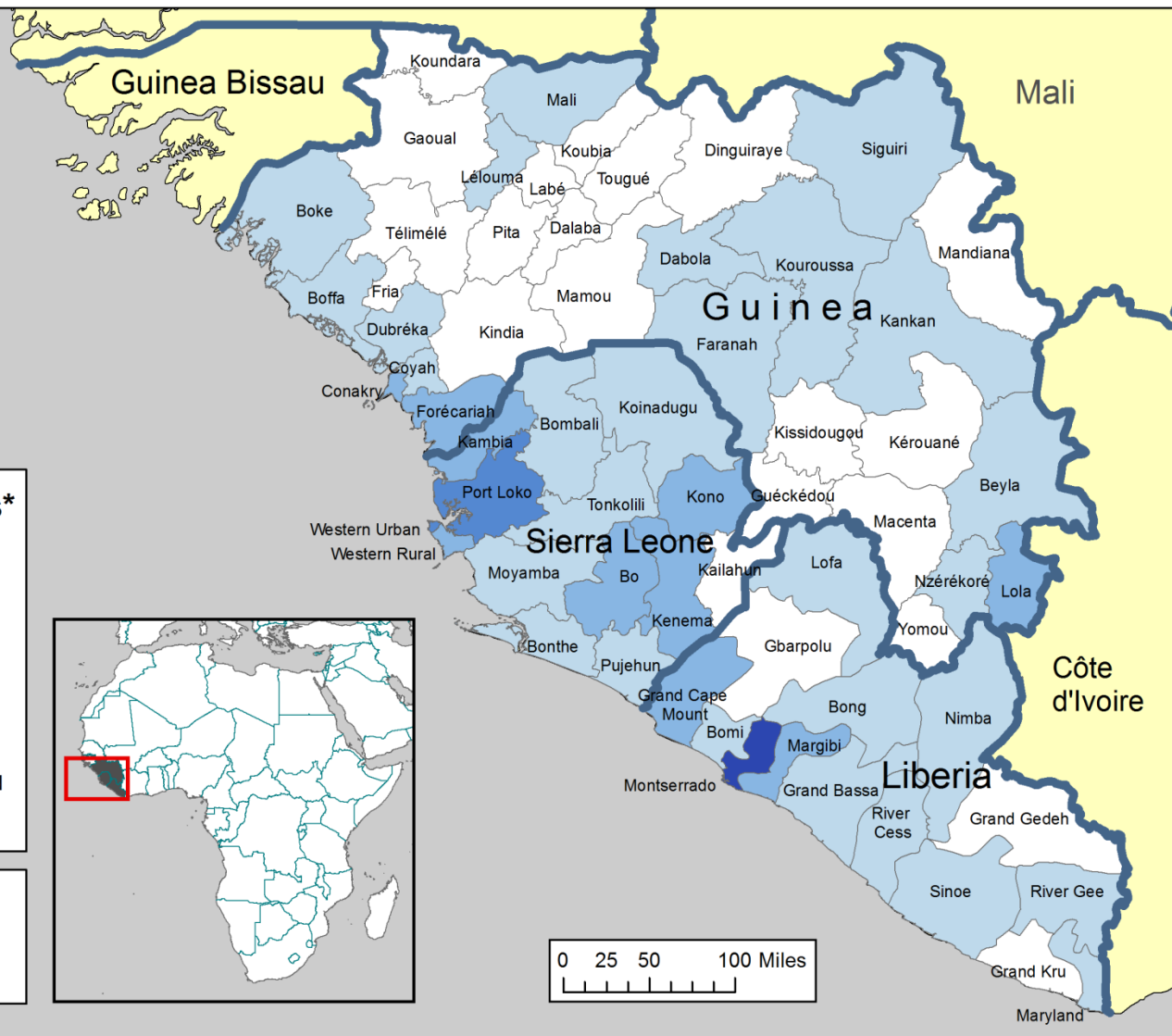
* As of 31 JAN, Sierra Leone reported 23 cases that were not assigned to a district.

As of dates:

Guinea, 6 JAN - 27 JAN

Liberia, 4 JAN - 25 JAN

Sierra Leone, 10 JAN - 31 JAN



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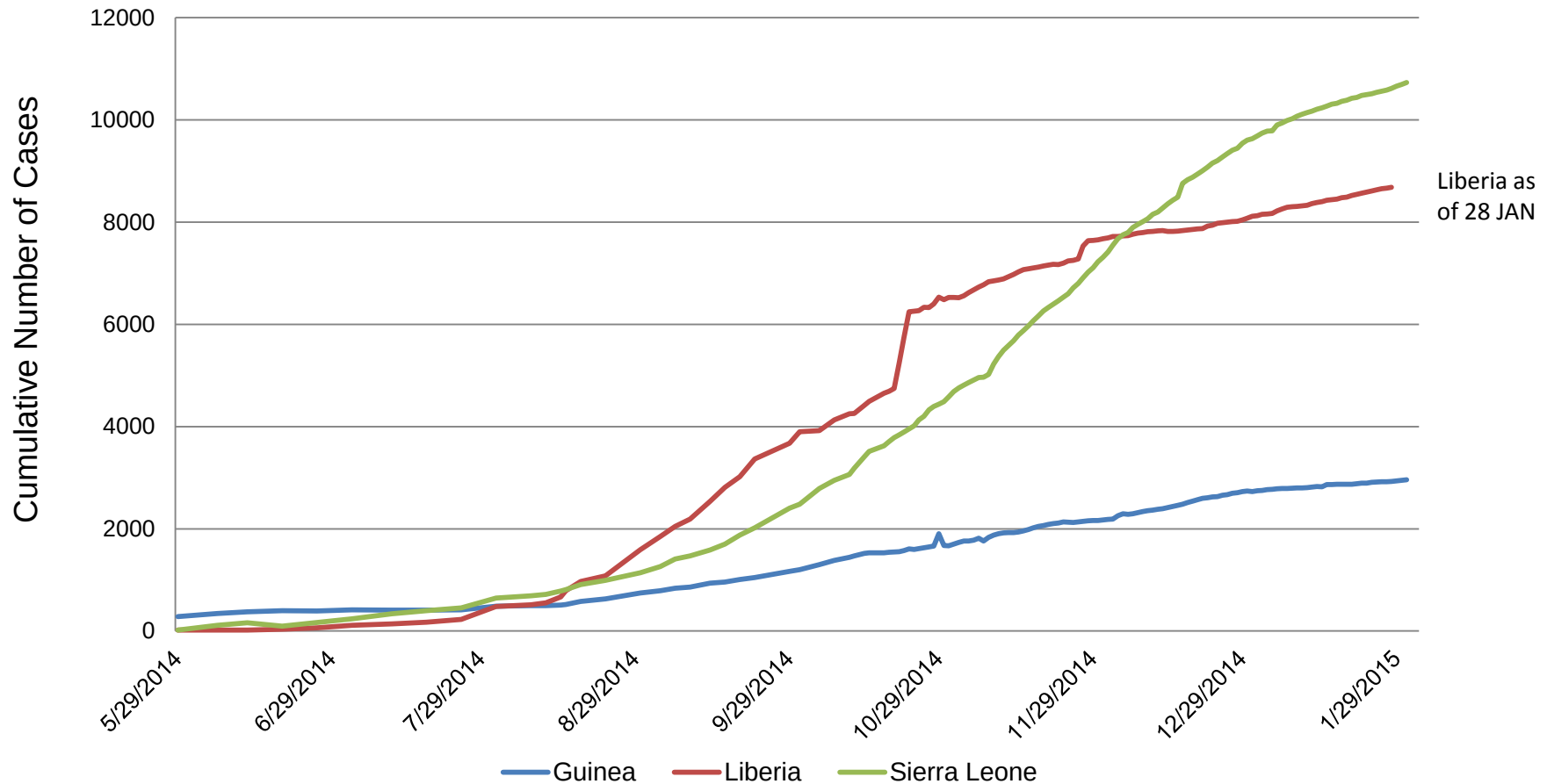
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Cumulative number of confirmed, probable, or suspected cases of Ebola Virus Disease in West Africa, 29 MAY 2014 – 31 JAN 2015



Cases reported in Senegal, Nigeria, Spain, Mali, the U.K., and the U.S. are not included in the graph. The total number of cases may vary weekly due to reclassification, retrospective investigation, consolidation of cases and laboratory data, and enhanced surveillance.

All information has been verified unless noted otherwise. Sources include the Guinea, Liberia, and Sierra Leone Ministries of Health.

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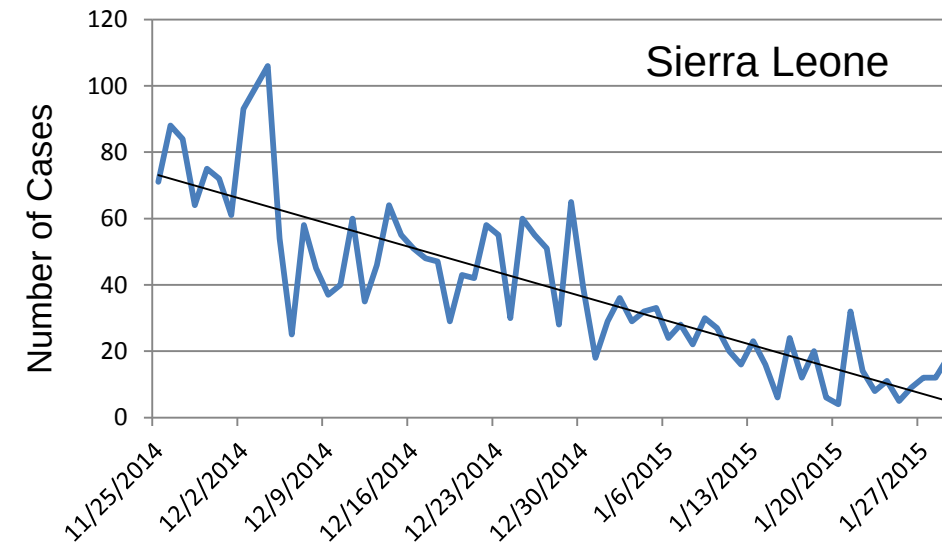
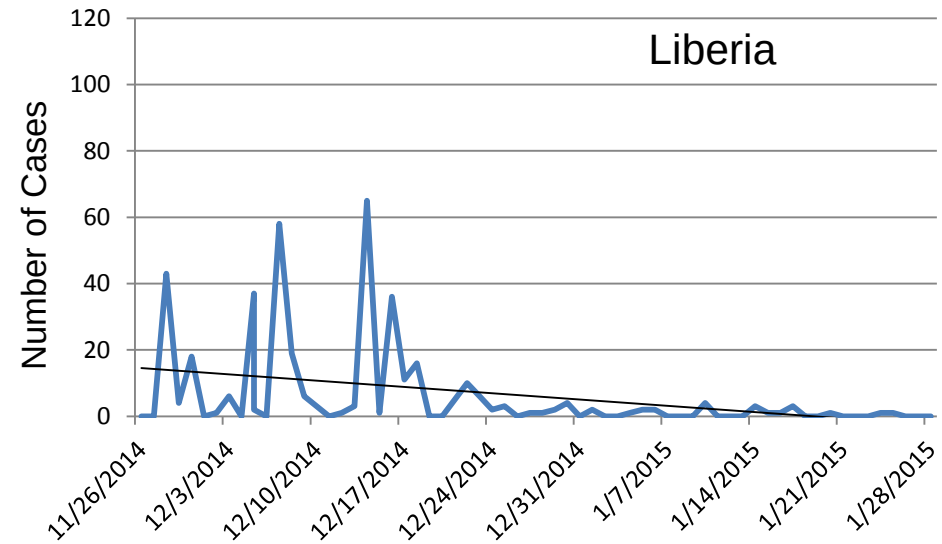
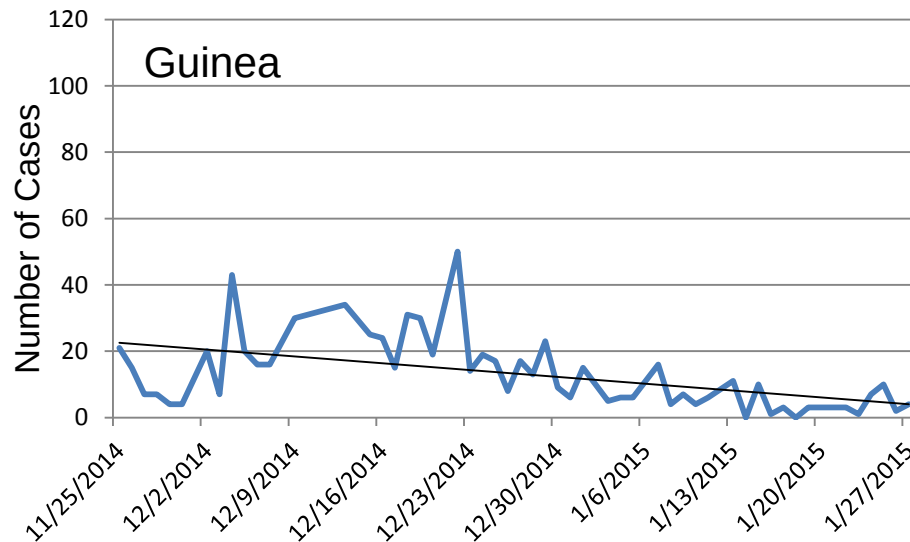
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Daily Reported Confirmed EVD Cases, with Trendline, for Guinea, Liberia, and Sierra Leone



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Additional Resources and Media Reports

Ebola Web Sites

- [WHO](#)
- [WHO \(Africa\)](#)
- [CDC](#)
- [UNMEER Sit Reps](#)
- [Liberia MOH](#)
- [Sierra Leone MOH](#)
- [Humanitarian Response \(West Africa\)](#)
Access to MOH, WHO, UN, and other reports
- [AFHSC guidelines](#)
- [USAMRIID](#)
- [State Department Travel Site](#)
- [USAID Ebola Site](#)
- [DoD News](#)
- [DoD Operation United Assistance Web Portal](#)
- [AFRICOM Operation United Assistance Web Portal](#)

Information and News

- [Tough challenges for testing Ebola therapeutics](#) (WHO Bulletin, 2 FEB)
- [Ebola vaccine trial gets underway](#) (Irish Times, 2 FEB)
- [In pursuit of next-generation Ebola stockpile vaccines](#) (Reuters, 2 FEB)
- [How bad data fed the Ebola epidemic](#) (NY Times, 31 JAN)
- [Chimerix to stop participation in clinical studies of Ebola drug](#) (Reuters, 31 JAN)
- [UN warns Ebola epidemic 'not yet contained'](#) (Tribune, 29 JAN)
- [In Ebola response, Big Pharma and public sector strive to make up for lost time](#) (Global Post, 29 JAN)
- [Trial finds GSK Ebola shot is safe and provokes immune response](#) (Reuters, 29 JAN)
- [Ebola crisis: world 'dangerously unprepared' for future pandemics](#) (BBC, 28 JAN)
- [A view from Liberia: how the Peace Corps continues to fight Ebola](#) (CNN, 28 JAN)
- [Botswana doctor is named to lead WHO in Africa](#) (NY Times, 27 JAN)
- [Scientists ask if Ebola immunizes as well as kills](#) (Reuters, 27 JAN)
- [Senegal reopens land border with Ebola-hit Guinea](#) (Reuters, 26 JAN)
- [After Ebola, WHO to set up contingency fund, develop 'surge capacity'](#) (Reuters, 25 JAN)
- [Liberia Ebola vaccine trial 'challenging' as cases tumble](#) (Reuters, 24 JAN)

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