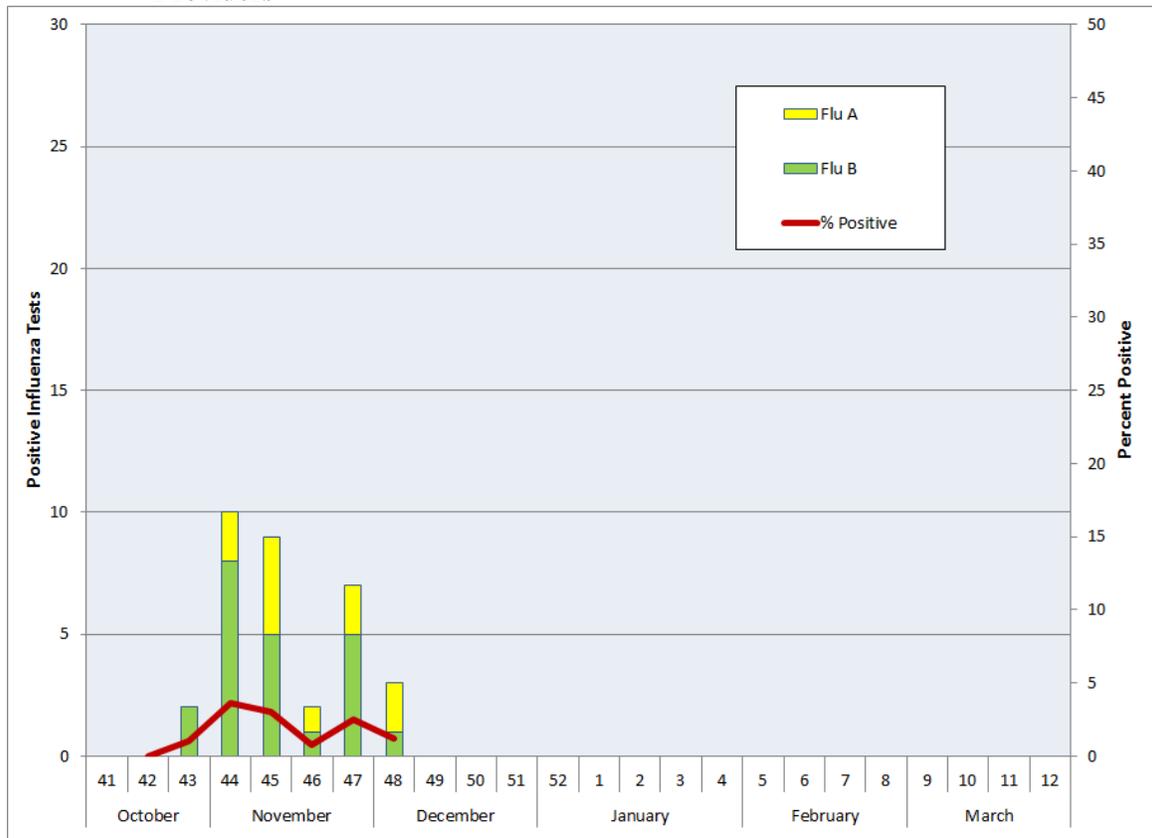


Figure 2. Influenza Positive Tests and Percent Positive, Denton County Hospitals and Providers



* Percent positive tests only includes positive tests from providers reporting number of tests performed weekly

Figure 3. Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2015-16 Season

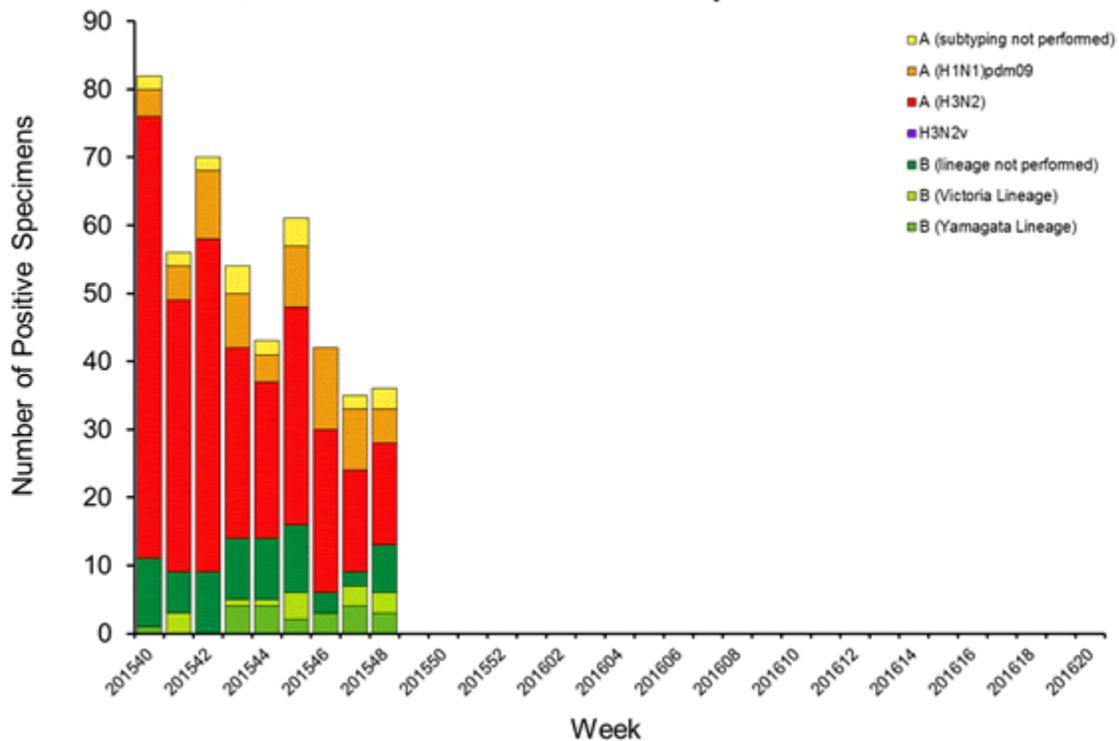


Figure 4. Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2015-16 Season

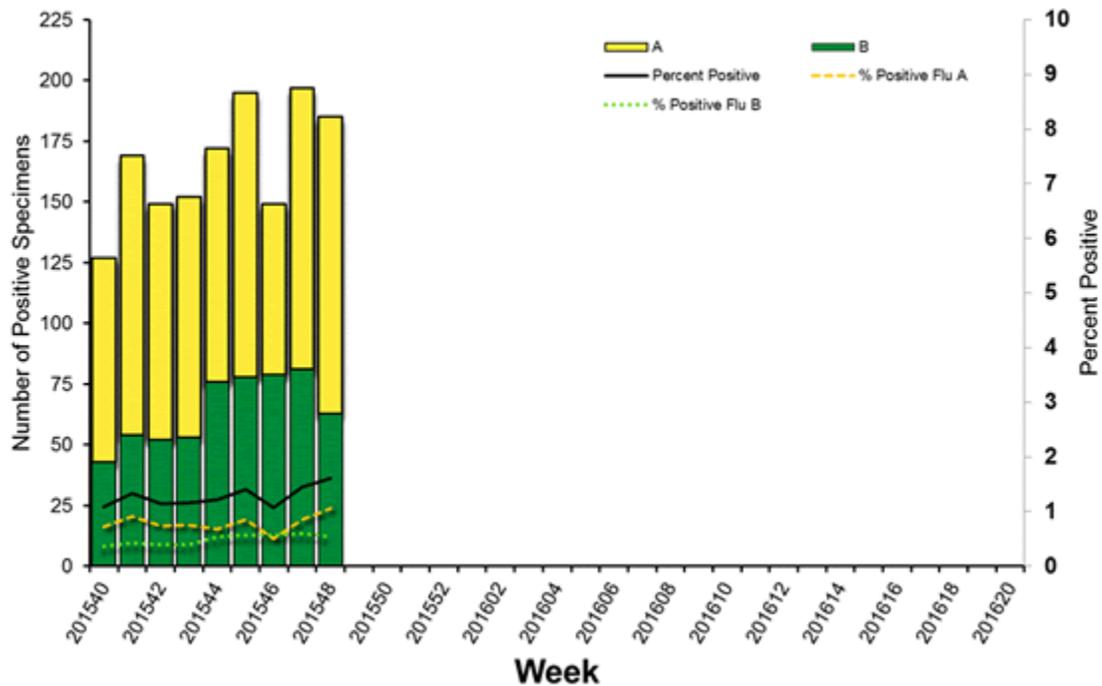
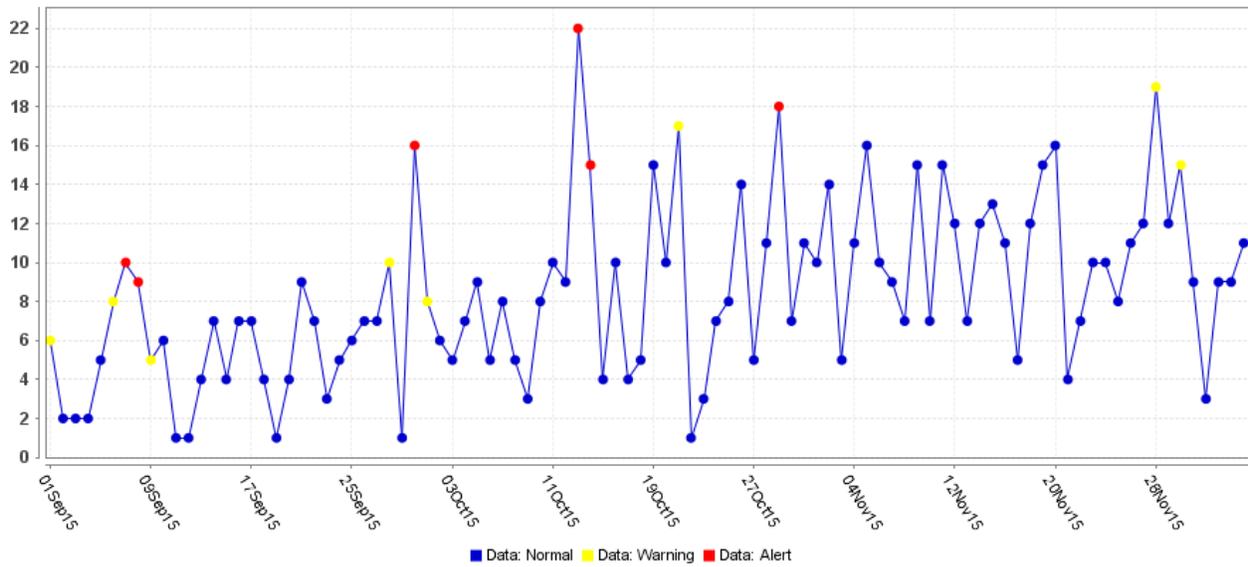


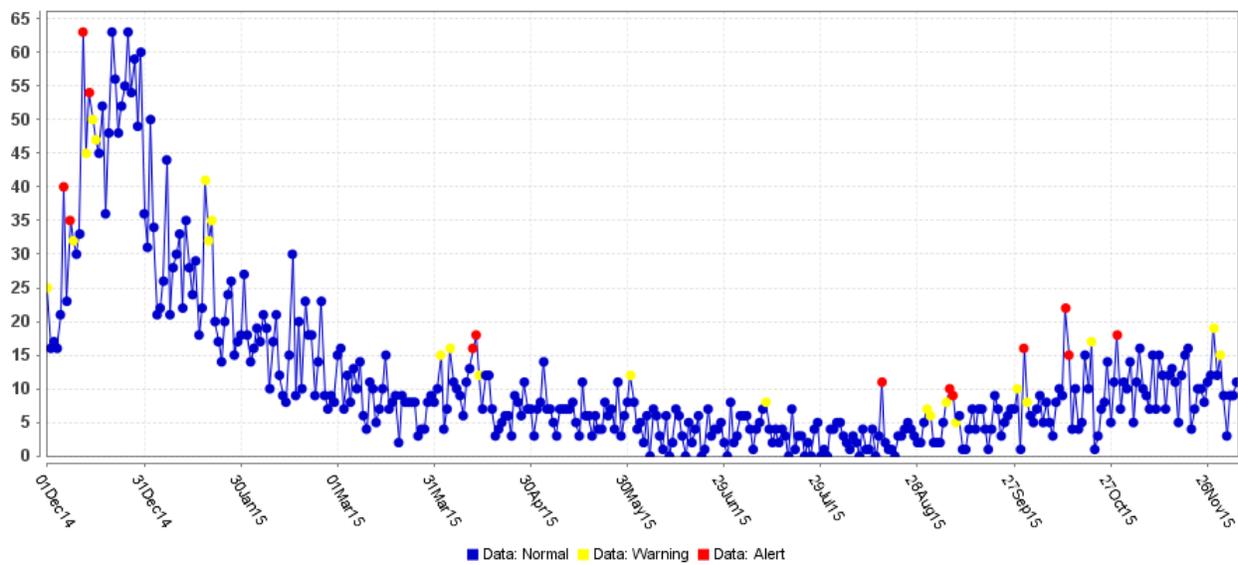
Figure 5. U.S. Virologic Surveillance, Week 48 and Cumulative Data since October 4, 2015

| | Week 48 | Data Cumulative since October 4, 2015 (Week 40) |
|--------------------------------------|-------------|---|
| No. of specimens tested | 11,509 | 117,483 |
| No. of positive specimens (%) | 185 (1.6%) | 1,495 (1.3%) |
| <i>Positive specimens by type</i> | | |
| Influenza A | 122 (65.9%) | 916 (61.3%) |
| Influenza B | 63 (34.1%) | 579 (38.7%) |

**Figure 6. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County
September 1, 2015 – December 5, 2015**



**Figure 7. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County
December 1, 2014 – December 5, 2015**



Data obtained from hospitals participating in the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) from November 2014 through the present. Depicted are the numbers of persons presenting to Emergency Departments according to patient location (Denton region) with self-reported chief complaints of influenza-like illness.

Figure 8. Antigenic Characterization of Influenza Isolates

| | |
|--------------------------------|--|
| 2009 Influenza A (H1N1) | 18 of 18 (100%) – A/California/7/2009-like |
| Influenza A (H3N2) | 57 of 57 (100%) – A/Switzerland/9715293/2013 similar |
| Influenza B (Yamagata Lineage) | 9 of 9 (100%) – B/Phuket/3073/2013-like |
| Influenza B (Victoria Lineage) | 7 of 7 (100%) – B/Brisbane/60/2008-like* |

www.cdc.gov/flu/weekly

2015-16 Influenza Vaccine Composition, Northern Hemisphere:

- A/California/7/2009 (H1N1)-like virus
- A/Switzerland/9715293/2013 (H3N2)-similar virus
- B/Phuket/3073/2013-like virus
- B/Brisbane/60/2008-like virus*

* 2015-2016 Northern Hemisphere quadrivalent influenza vaccine influenza B component

Figure 9. Neuraminidase Inhibitor Resistance Testing Results on Samples Collected Since October 1, 2015

| | Oseltamivir | | Zanamivir | | Peramivir | |
|--------------------------------|--------------------------|-------------------------------|--------------------------|-------------------------------|--------------------------|-------------------------------|
| | Virus Samples tested (n) | Resistant Viruses, Number (%) | Virus Samples tested (n) | Resistant Viruses, Number (%) | Virus Samples tested (n) | Resistant Viruses, Number (%) |
| Influenza A (H1N1)pdm09 | 17 | 0 (0.0) | 17 | 0 (0.0) | 17 | 0 (0.0) |
| Influenza A (H3N2) | 34 | 0 (0.0) | 34 | 0 (0.0) | 34 | 0 (0.0) |
| Influenza B | 18 | 0 (0.0) | 18 | 0 (0.0) | 18 | 0 (0.0) |

** www.cdc.gov/flu/weekly
 Antiviral treatment with oseltamivir, zanamivir, or peramivir is recommended as early as possible for patients with confirmed or suspected influenza who have severe, complicated, or progressive illness; who require hospitalization; or who are at high risk for serious influenza-related complications.

Figure 10. Pneumonia and Influenza Mortality for 122 U.S. Cities: Week ending December 5, 2015

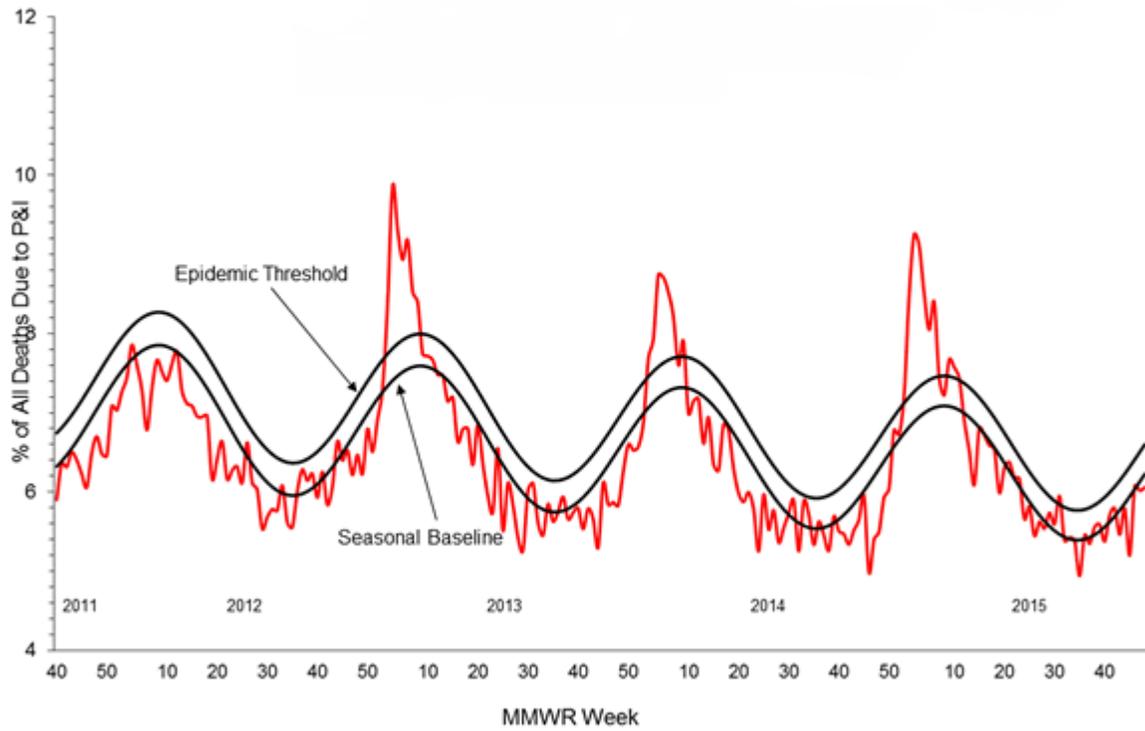
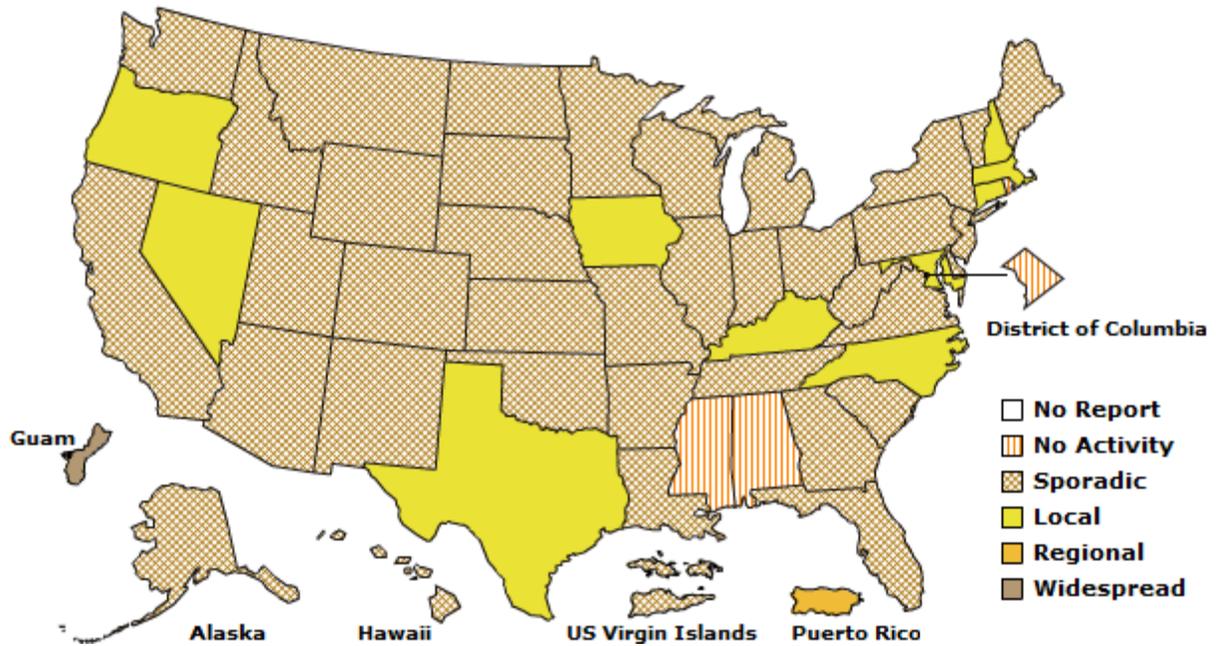
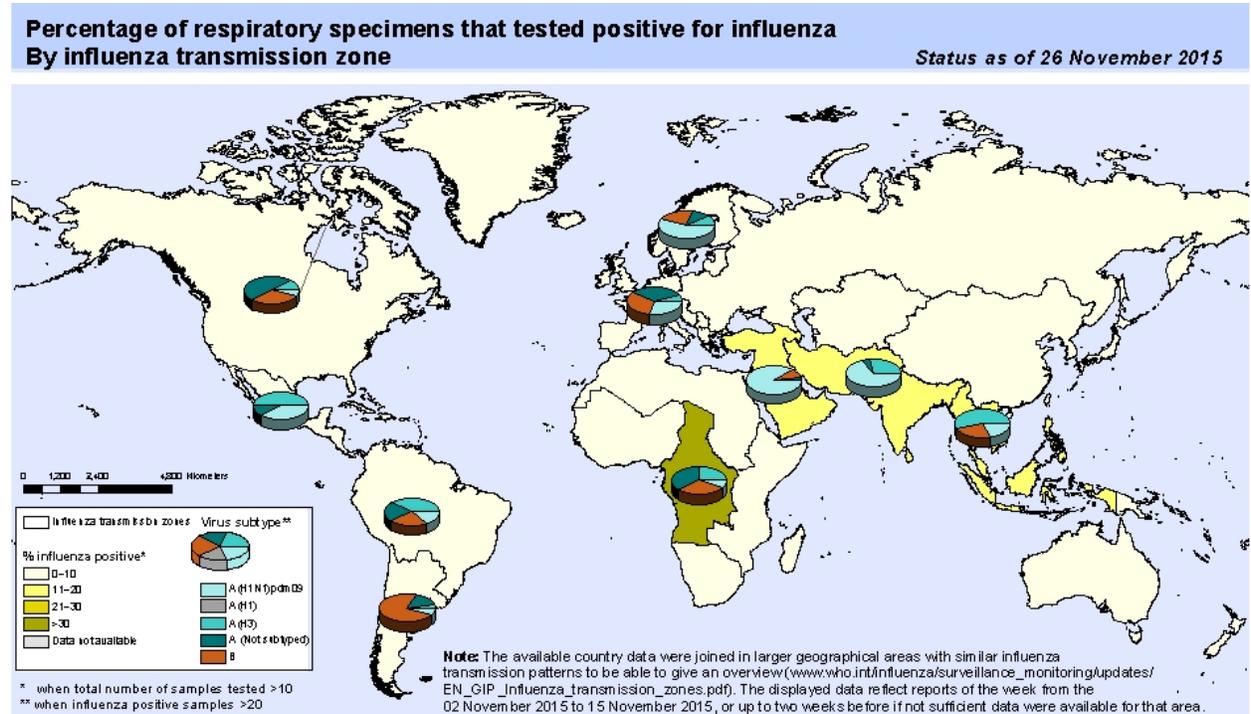


Figure 11. Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists* Week Ending December 5, 2015 – Week 48



*This graph indicates geographic spread and does not measure the severity of influenza activity.

Figure 12. Percentage of Respiratory Specimens that Tested Positive for Influenza: WHO, as of November 26, 2015*



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: Global Influenza Surveillance and Response System (GISRS), FlNet (www.int.flunet).



*Based on data up to November 15, 2015

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