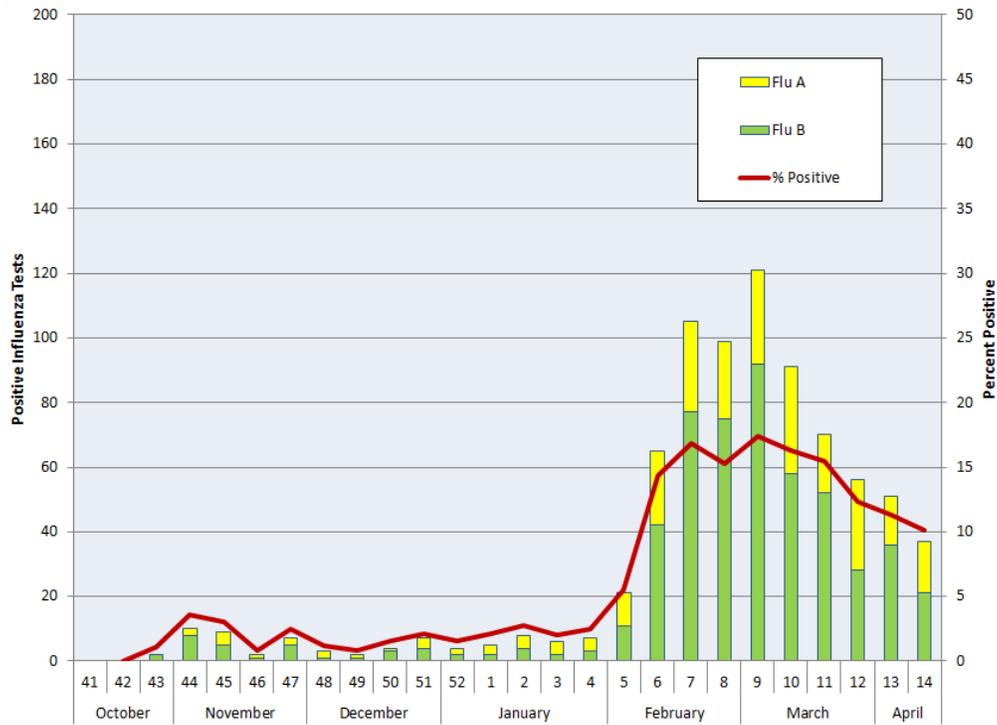


Figure 2. Influenza Positive Tests and Percent Positive, Denton County Hospitals and Providers



* 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, 2015-2016 Season

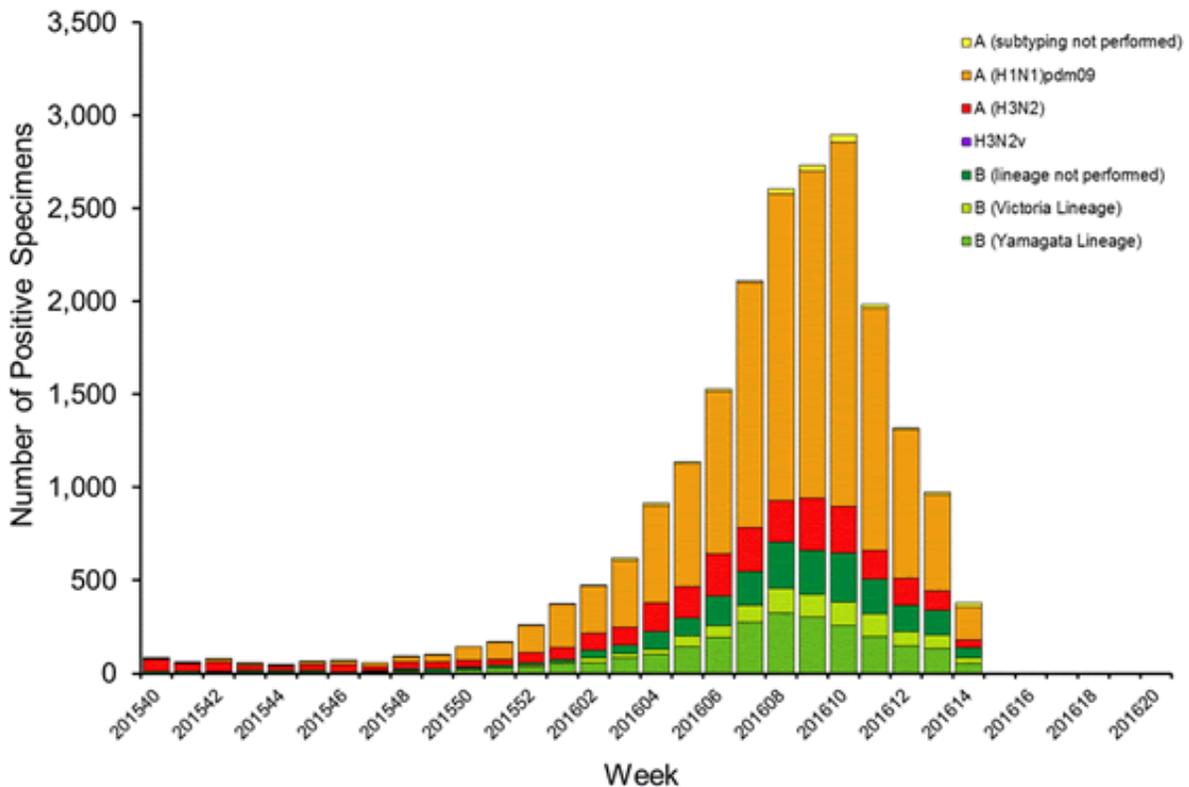


Figure 4. Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2015-2016 Season

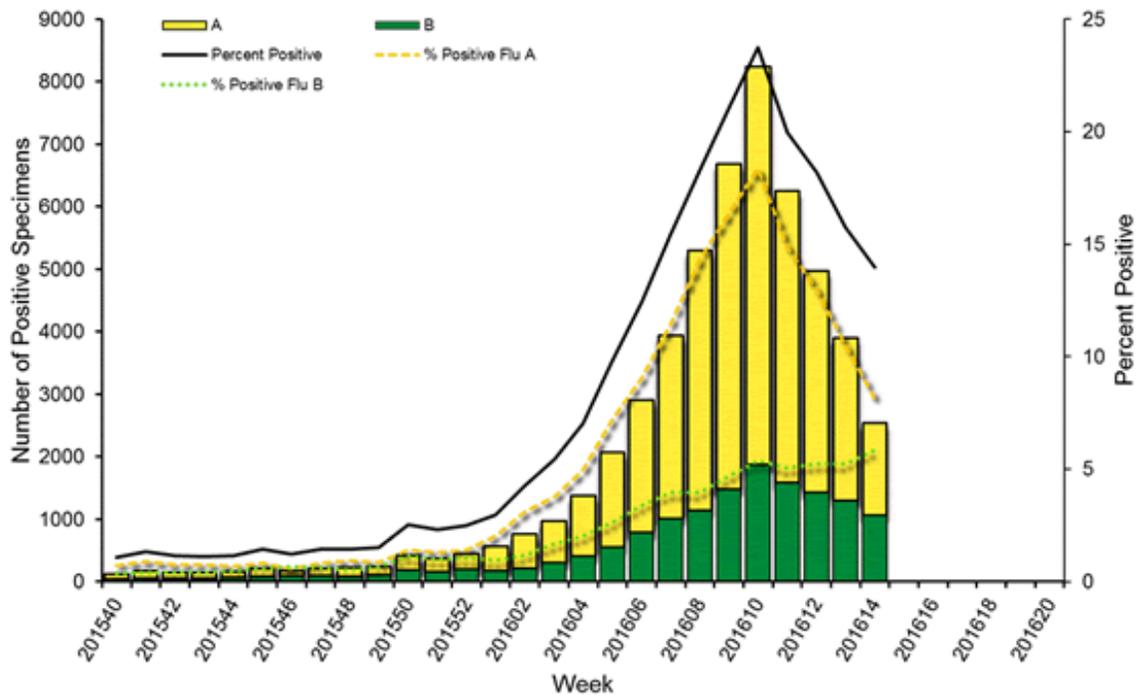
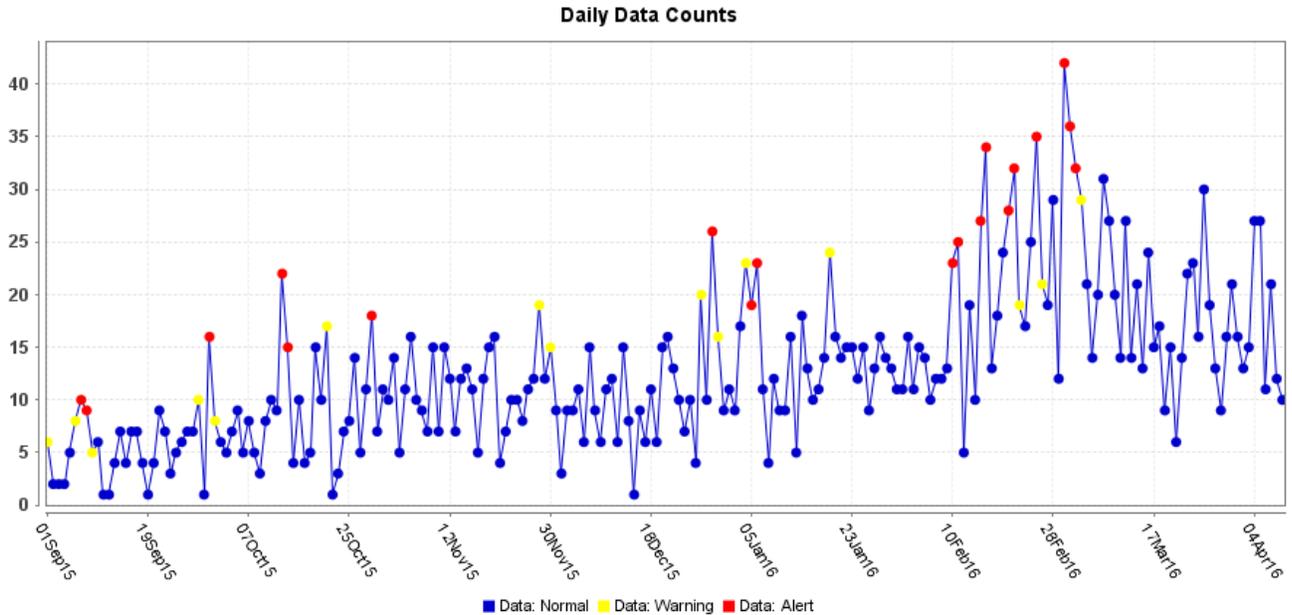


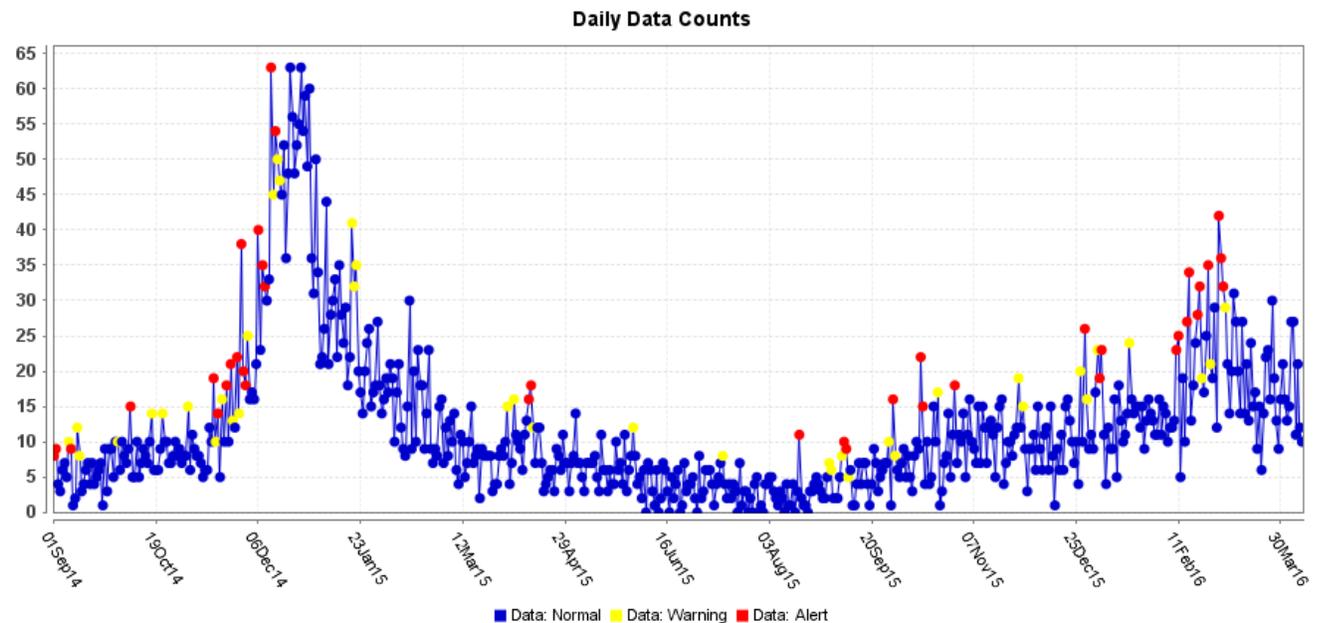
Figure 5. U.S. Virologic Surveillance, Week 14 and Cumulative Data since October 4, 2015

	Week 14	Data Cumulative since October 4, 2015 (Week 40)
No. of specimens tested	955	57,462
No. of positive specimens*	379	21,309
<i>Positive specimens by type/subtype</i>		
Influenza A	240 (63.3%)	15,824 (74.3%)
A(H1N1)pdm09	176 (73.3%)	12,821 (81.0%)
H3	42 (17.5%)	2,750 (17.4%)
Subtyping not performed	22 (9.2%)	253 (1.6%)
Influenza B	139 (36.7%)	5,485 (25.7%)
Yamagata lineage	52 (37.4%)	2,443 (44.5%)
Victoria lineage	34 (24.5%)	1,023 (18.7%)
Lineage not performed	53 (38.1%)	2,019 (36.8%)

**Figure 6. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County
September 1, 2015 April 9, 2016**



**Figure 7. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County
September 1, 2014 – April 9, 2016**



Data obtained from hospitals participating in the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) from September 2015 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)	606 of 606 (100%) – A/California/7/2009-like
Influenza A (H3N2)	411 of 411 (100%) – A/Switzerland/9715293/2013 similar
Influenza B (Yamagata Lineage)	358 of 358 (100%) – B/Phuket/3073/2013-like
Influenza B (Victoria Lineage)	223 of 229 (97.4%) – 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

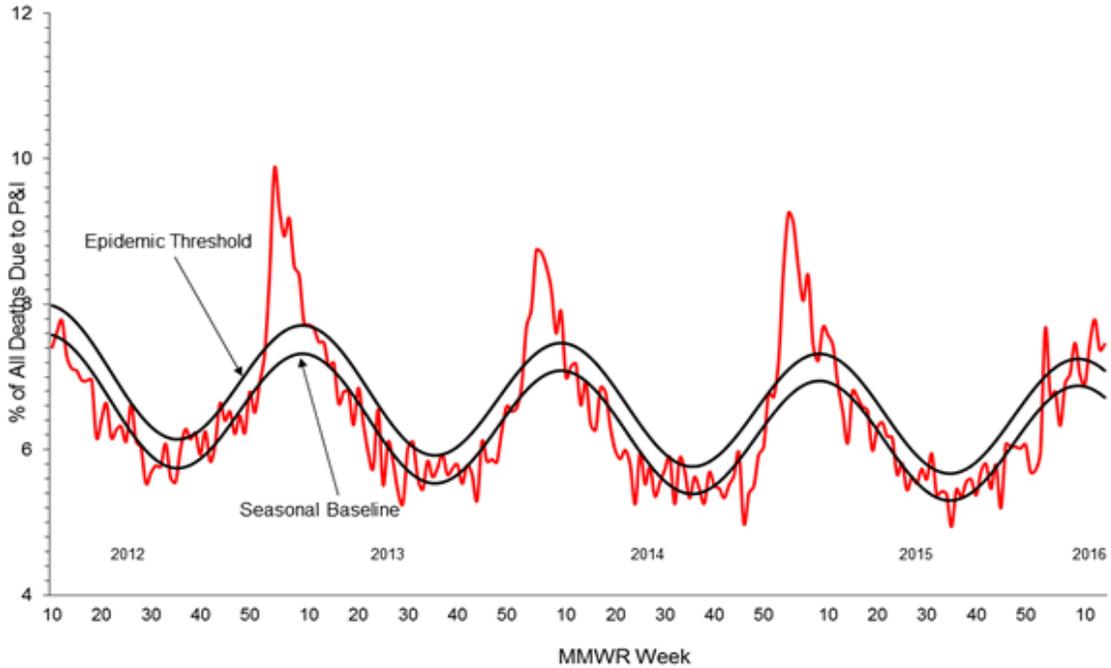
Figure 9. Neuraminidase Inhibitor Resistance Testing Results on Samples Collected Since October 1, 2015

	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	1,469	11 (0.7)	717	0 (0.0)	1,469	11 (0.7)
Influenza A (H3N2)	485	0 (0.0)	485	0 (0.0)	448	0 (0.0)
Influenza B	737	0 (0.0)	737	0 (0.0)	737	0 (0.0)

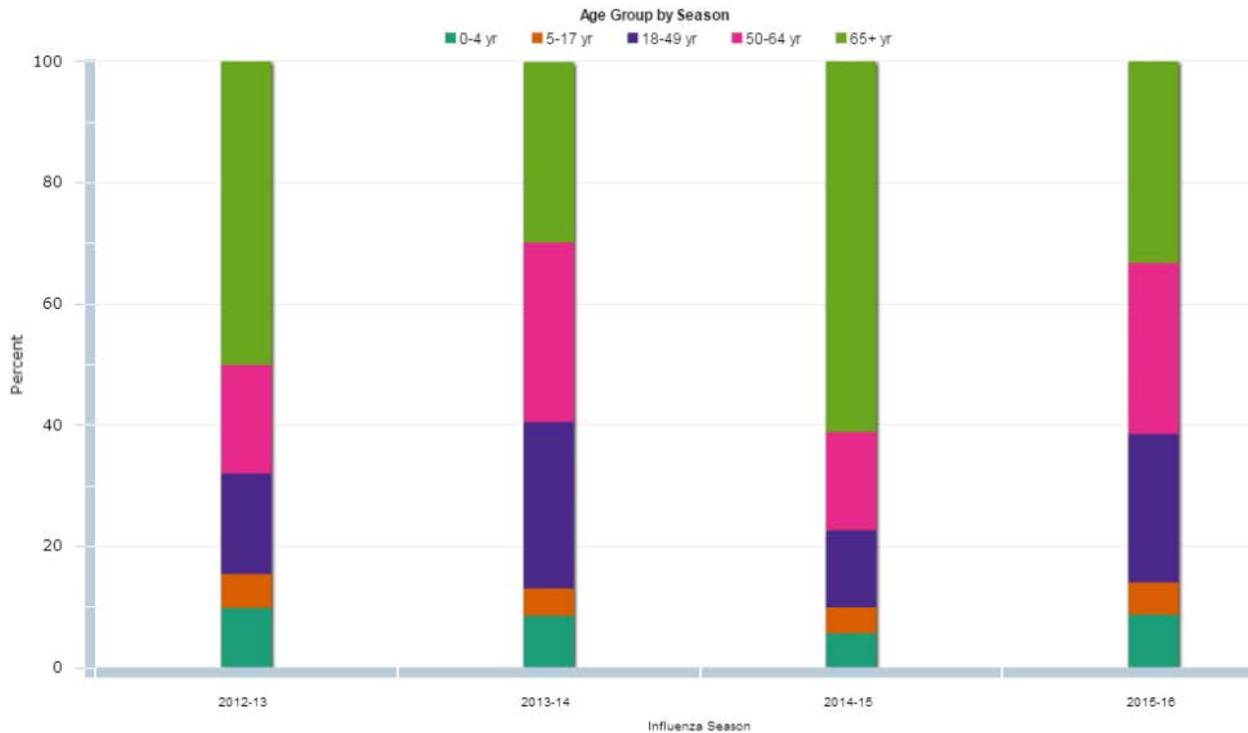
www.cdc.gov/flu/weekly

** 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 April 9, 2016**



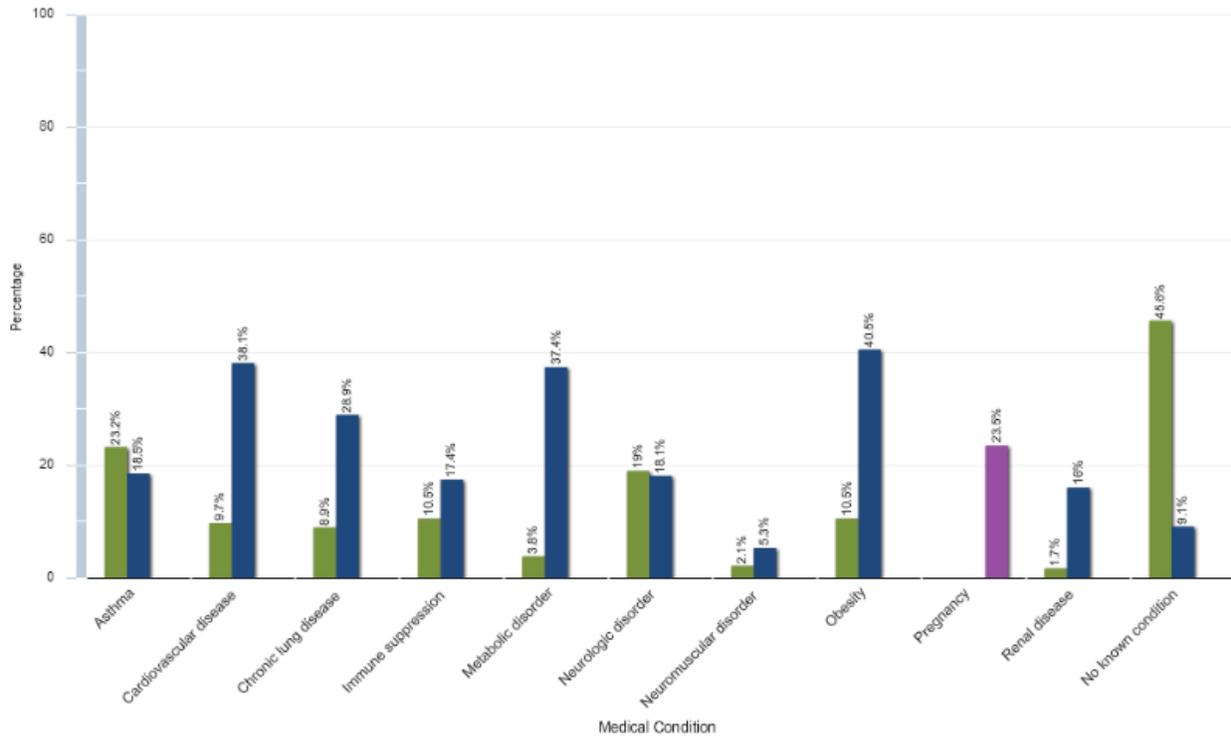
**Figure 11. FluSurv-NET Laboratory-Confirmed Influenza Hospitalizations by Age Group,
Preliminary data as of April 9, 2016**



The FluSurv-NET covers more than 70 counties in the 10 Emerging Infections Program (EIP) states (CA, CO, CT, GA, MD, MN, NM, NY, OR, TN) and three additional states (MI, OH and UT).

FluView: Influenza Hospitalization Surveillance Network, Centers for Disease Control and Prevention. <http://www.cdc.gov/flu/weekly/>. Accessed on 4/15/16.

Figure 12. FluSurv-NET Laboratory-Confirmed Influenza Hospitalizations: Selected Underlying Conditions 2015-16 Season, Preliminary data as of April 9, 2016



The FluSurv-NET covers more than 70 counties in the 10 Emerging Infections Program (EIP) states (CA, CO, CT, GA, MD, MN, NM, NY, OR, TN) and three additional states (MI, OH and UT).

FluView: Influenza Hospitalization Surveillance Network, Centers for Disease Control and Prevention. <http://www.cdc.gov/flu/weekly/>. Accessed on 4/15/16.

Figure 13. Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists* Week Ending April 9, 2016 – Week 14

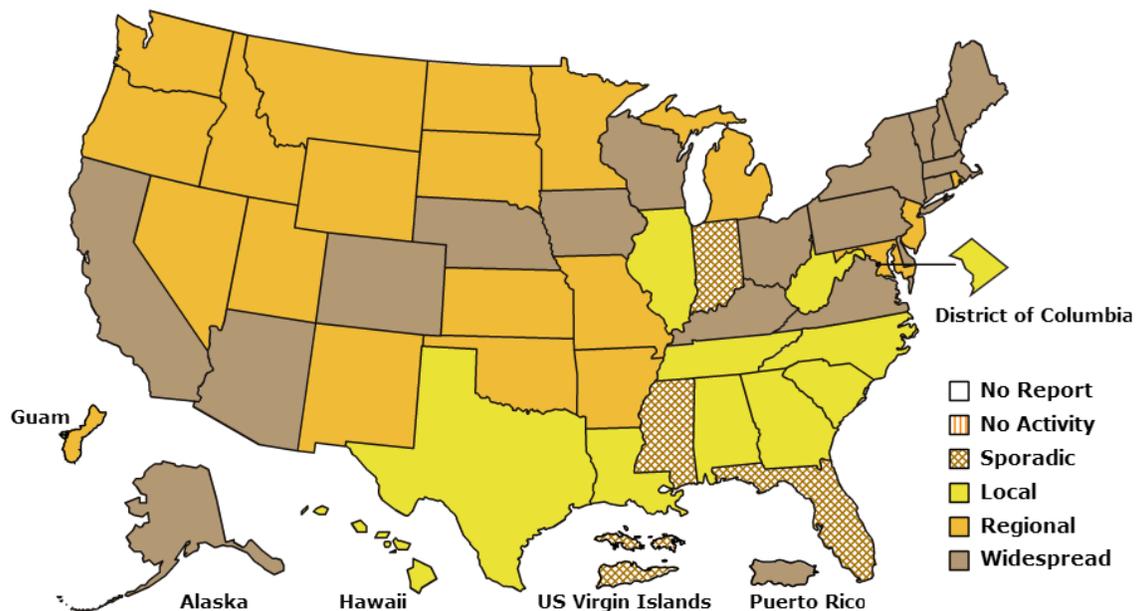
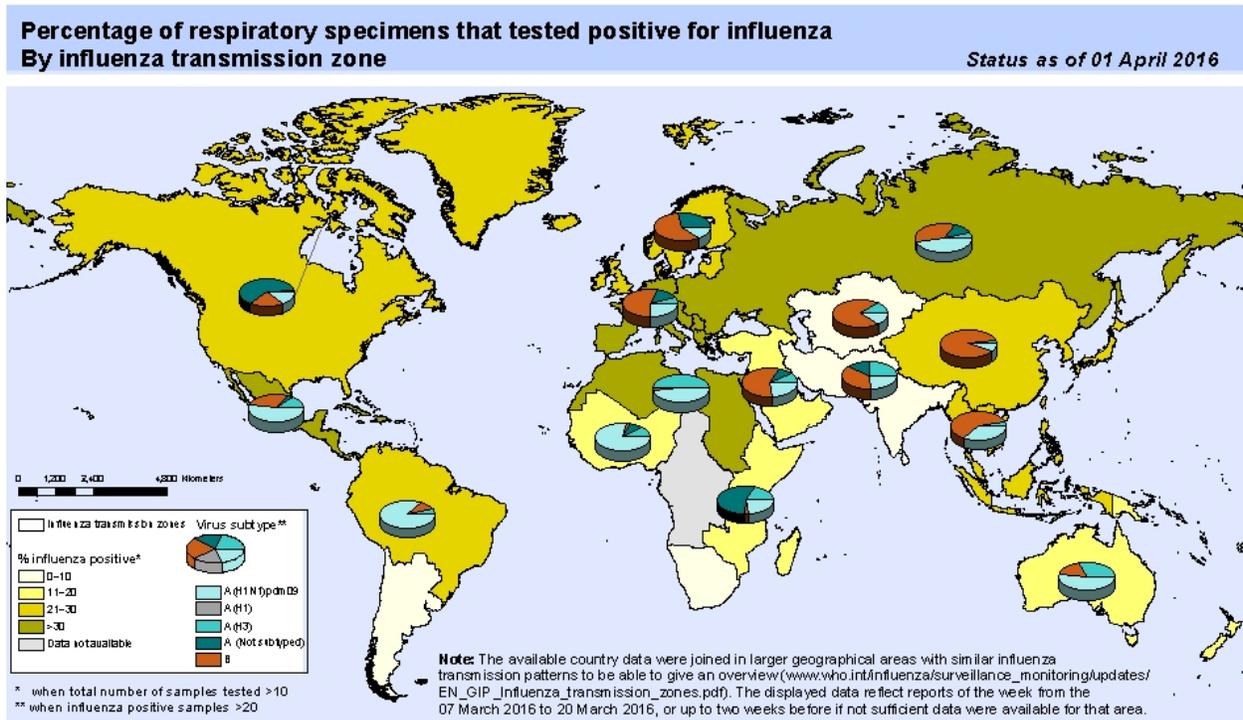


Figure 14. Percentage of Respiratory Specimens that Tested Positive for Influenza: WHO, as of April 1, 2016



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), FluNet (www.who.int/flu-net).



Please send inquiries to Briar Deen, MPH – Epidemiology Investigator
Denton County Public Health at Briar.Deen@dentoncounty.com