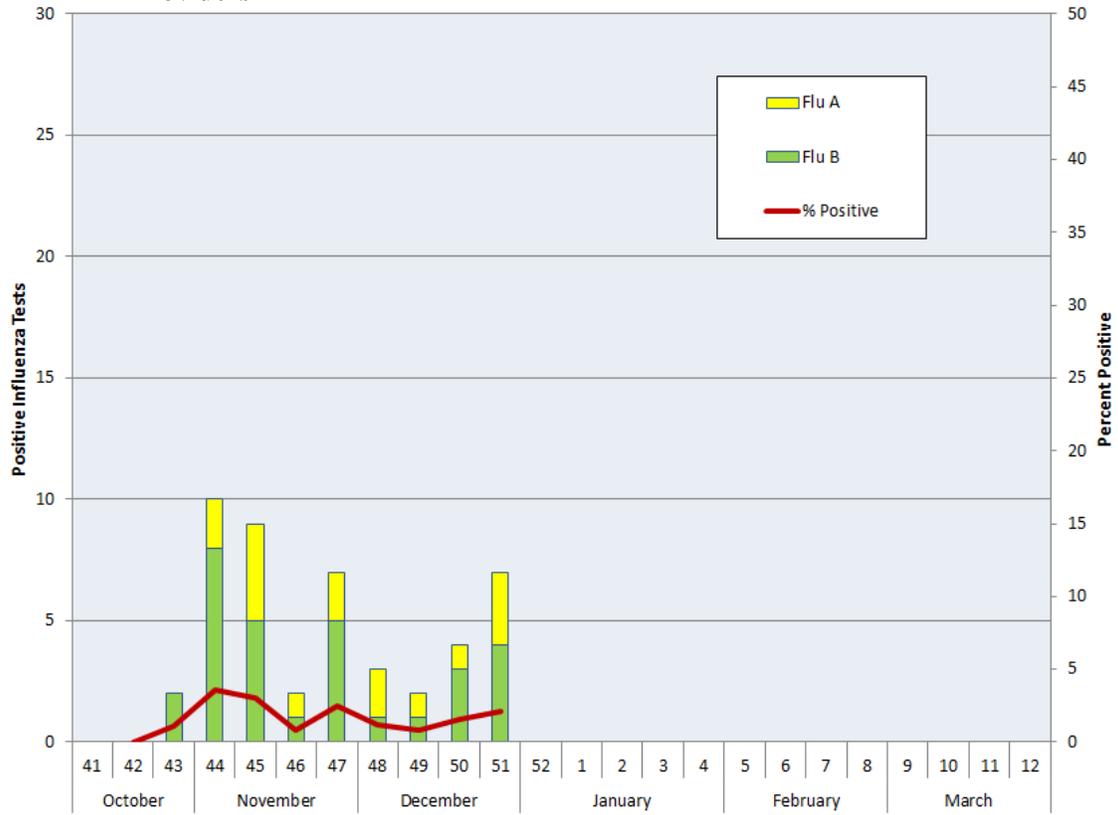


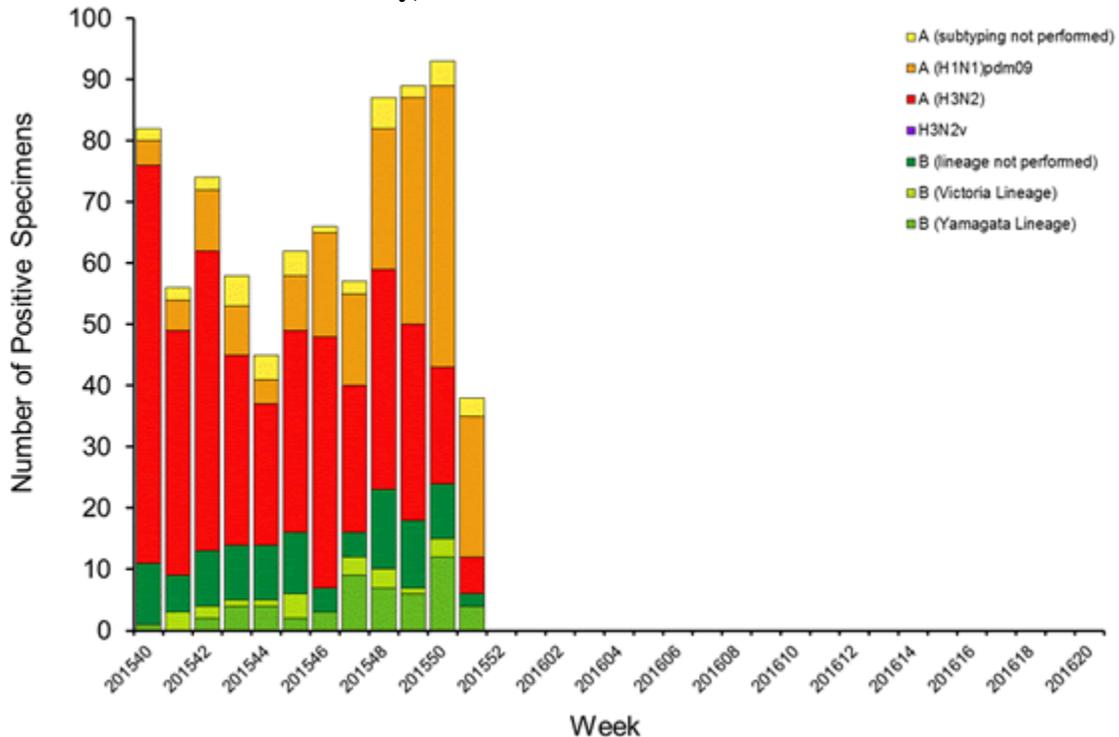


**Figure 2. Influenza Positive Tests and Percent Positive, Denton County Hospitals and Providers**

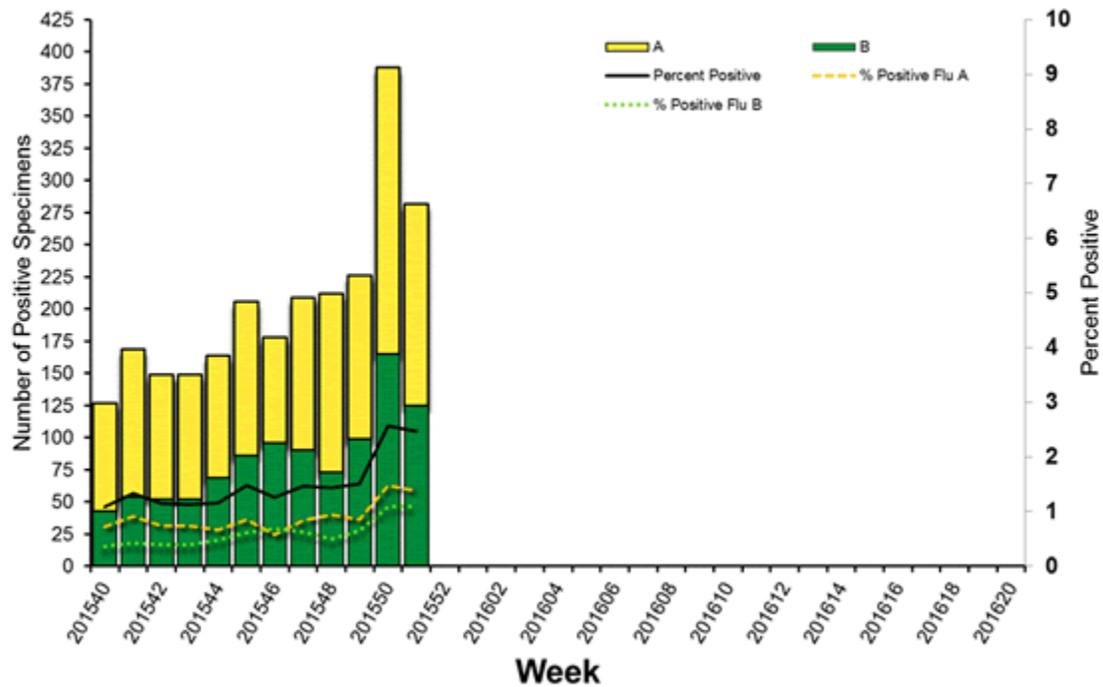


\* Percent positive tests only includes positive tests from providers reporting number of tests performed weekly

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



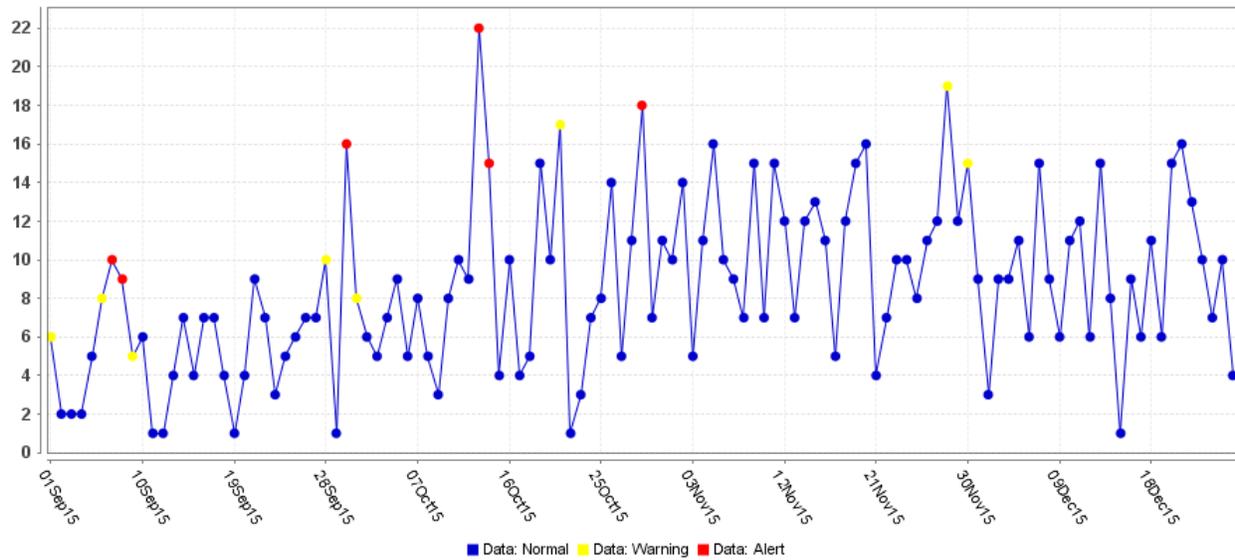
**Figure 4. Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2015-16 Season**



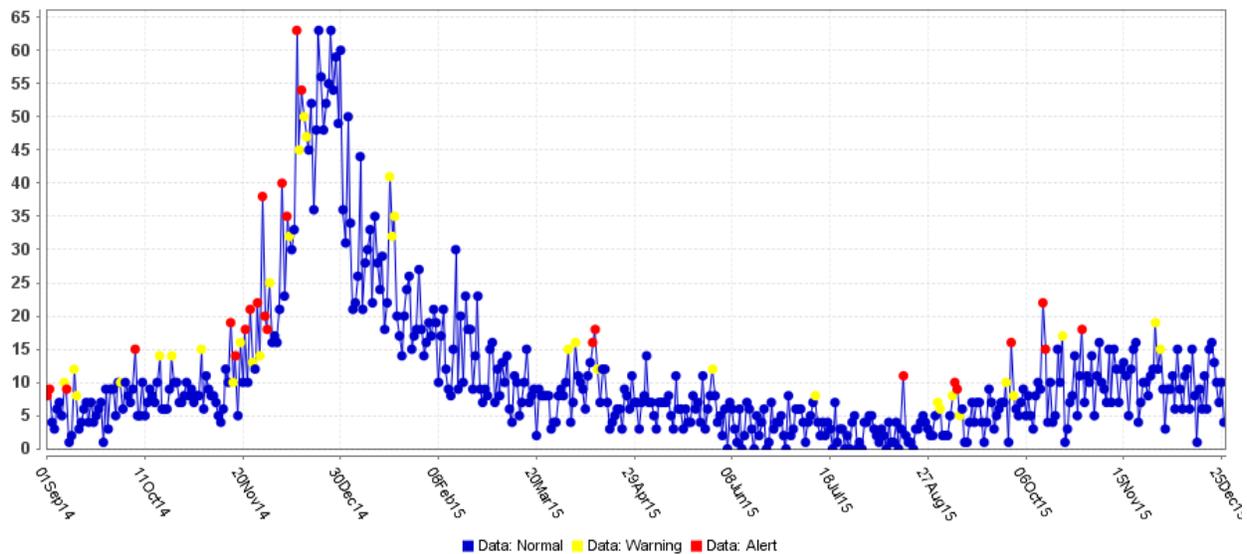
**Figure 5. U.S. Virologic Surveillance, Week 51 and Cumulative Data since October 4, 2015**

	Week 51	Data Cumulative since October 4, 2015 (Week 40)
<b>No. of specimens tested</b>	11,448	163,304
<b>No. of positive specimens (%)</b>	282 (2.5%)	2,459 (1.5%)
<i>Positive specimens by type</i>		
<b>Influenza A</b>	157 (55.7%)	1,455 (59.2%)
<b>Influenza B</b>	125 (44.3%)	1,004 (40.8%)

**Figure 6. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County  
September 1, 2015 – December 26, 2015**



**Figure 7. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County  
September 1, 2014 – December 26, 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)	34 of 34 (100%) – A/California/7/2009-like
Influenza A (H3N2)	112 of 112 (100%) – A/Switzerland/9715293/2013 similar
Influenza B (Yamagata Lineage)	17 of 17 (100%) – B/Phuket/3073/2013-like
Influenza B (Victoria Lineage)	7 of 7 (100%) – B/Brisbane/60/2008-like*

[www.cdc.gov/flu/weekly](http://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\*

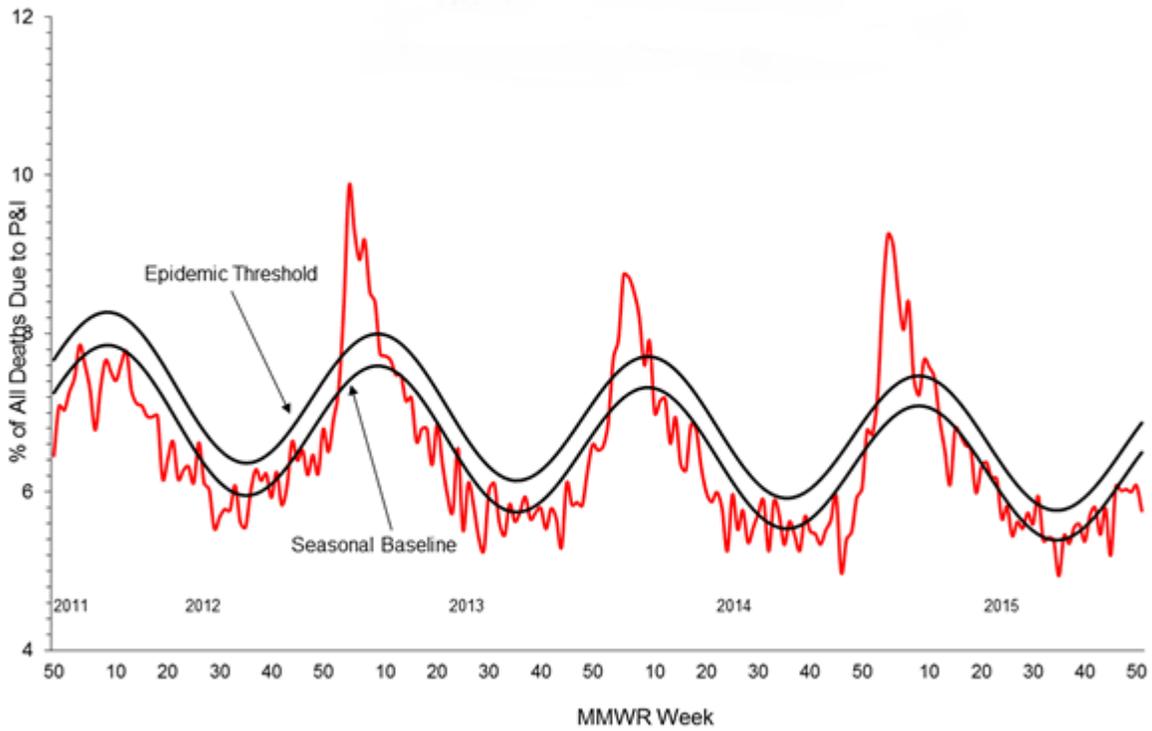
\* 2015-2016 Northern Hemisphere quadrivalent influenza vaccine influenza B component

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

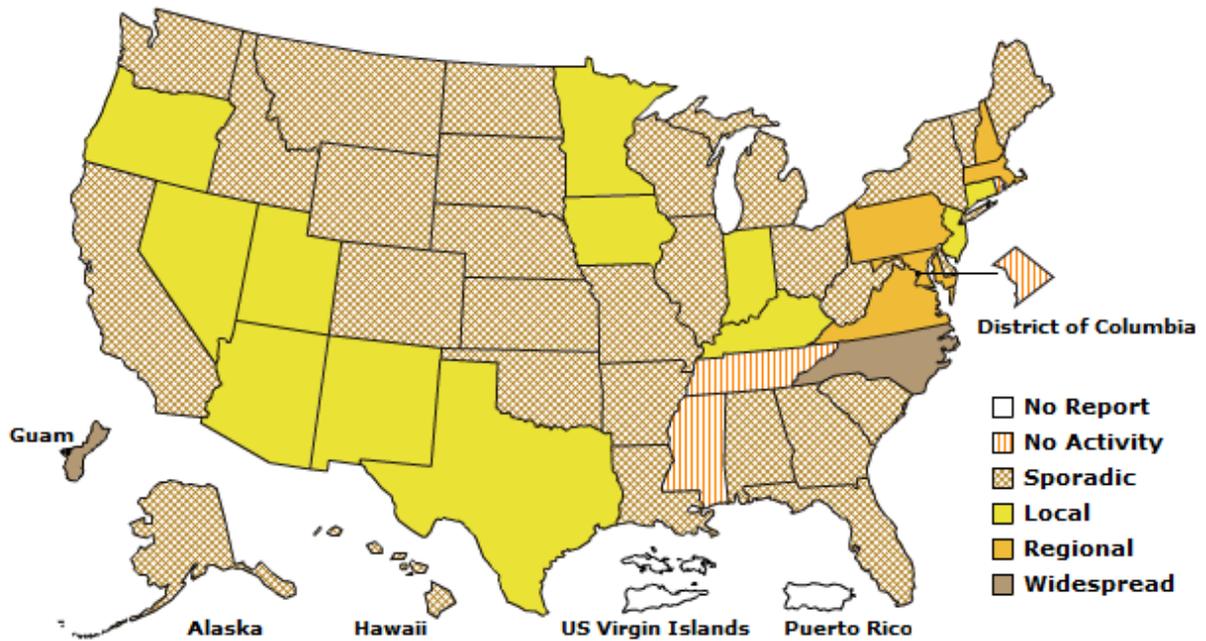
	Oseltamivir		Zanamivir		Peramivir	
	Virus Samples tested (n)	Resistant Viruses, Number (%)	Virus Samples tested (n)	Resistant Viruses, Number (%)	Virus Samples tested (n)	Resistant Viruses, Number (%)
<b>Influenza A (H1N1)pdm09</b>	40	1 (2.5)	39	0 (0.0)	40	1 (2.5)
<b>Influenza A (H3N2)</b>	138	0 (0.0)	138	0 (0.0)	138	0 (0.0)
<b>Influenza B</b>	38	0 (0.0)	38	0 (0.0)	38	0 (0.0)

\*\* 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. [www.cdc.gov/flu/weekly](http://www.cdc.gov/flu/weekly)

**Figure 10. Pneumonia and Influenza Mortality for 122 U.S. Cities: Week ending December 26, 2015**

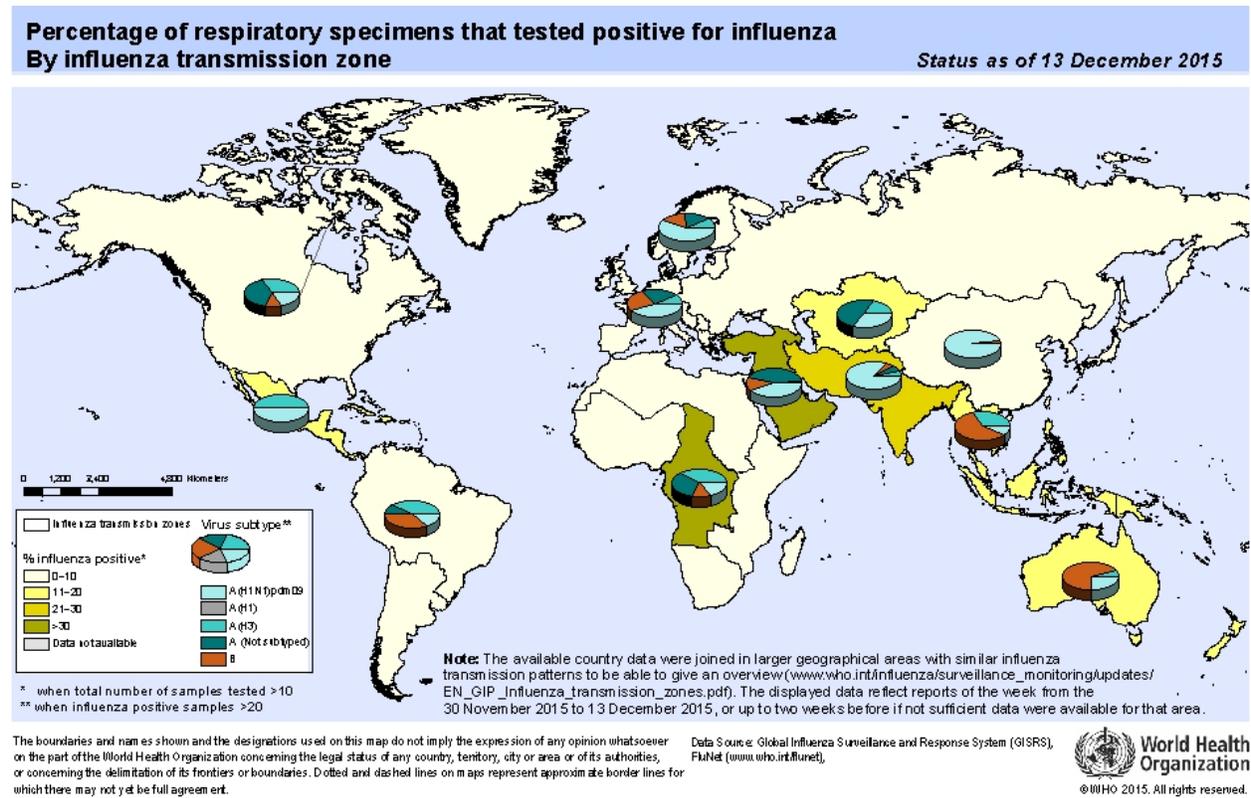


**Figure 11. Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists\* Week Ending December 26, 2015 – Week 51**



\*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 December 13, 2015**



Please send inquiries to Caitlin Thompson, MPH – Epidemiology Investigator  
Denton County Health Department at [caitlin.thompson@dentoncounty.com](mailto:caitlin.thompson@dentoncounty.com)