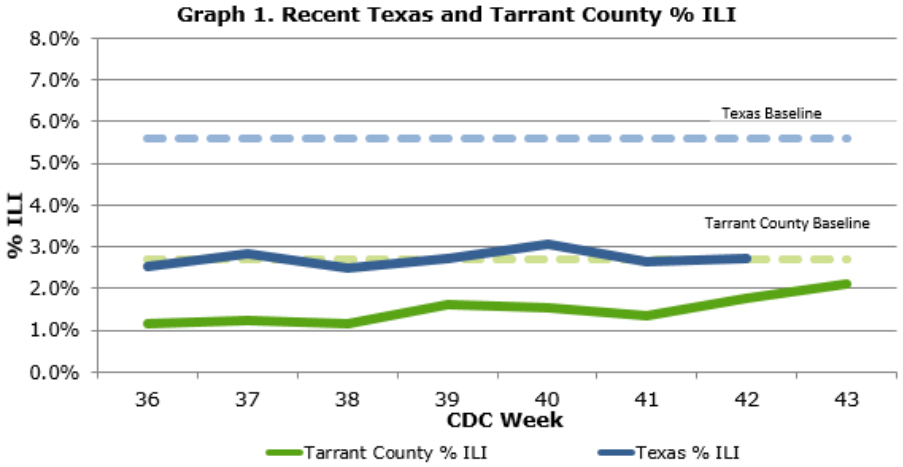
Tarrant County Public Health
Division of Epidemiology and Health Information

Tarrant County Influenza Surveillance Weekly Report
CDC Week 43: Oct 21-27, 2018

Influenza Activity Code:
County and State Levels

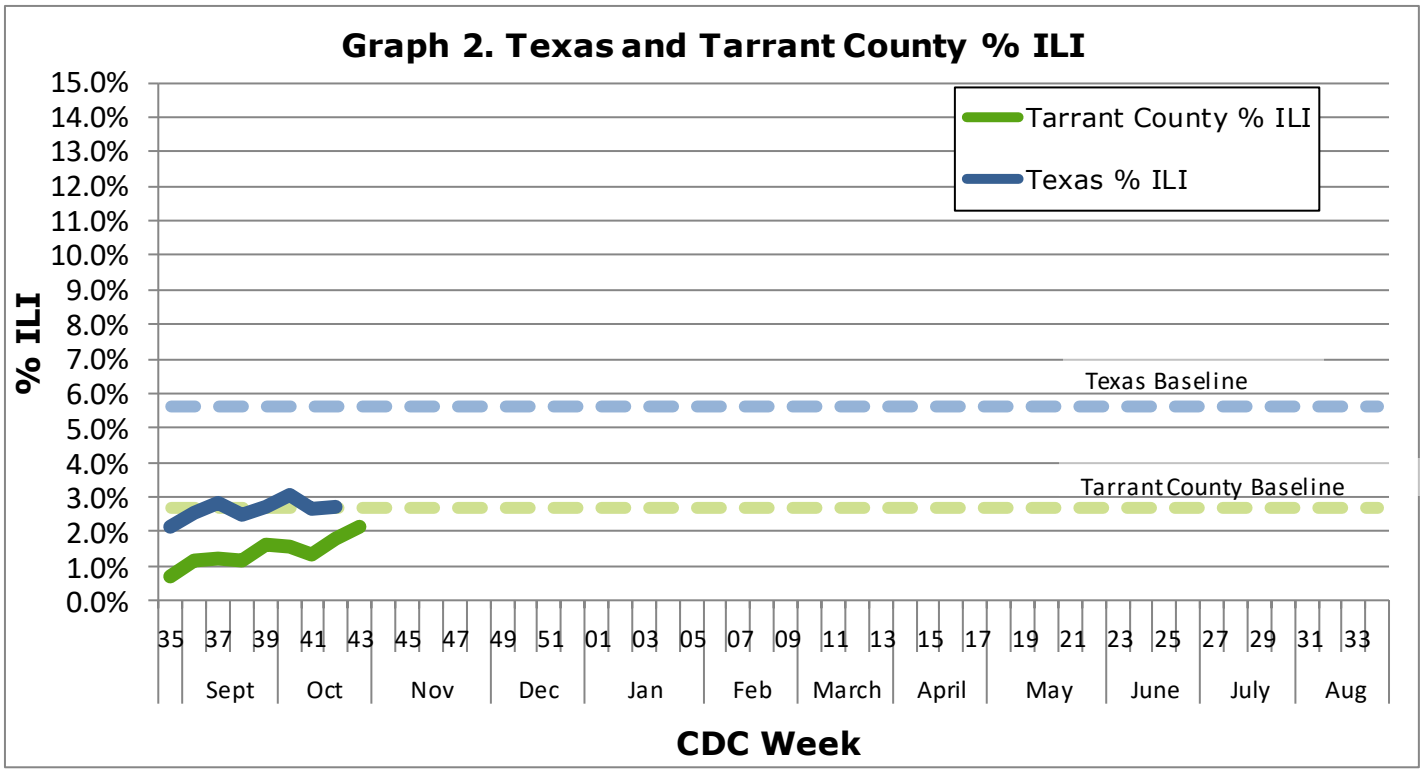
Tarrant County: Week 43
No Activity
Tarrant County: Week 42
No Activity
Texas: Week 42
Sporadic

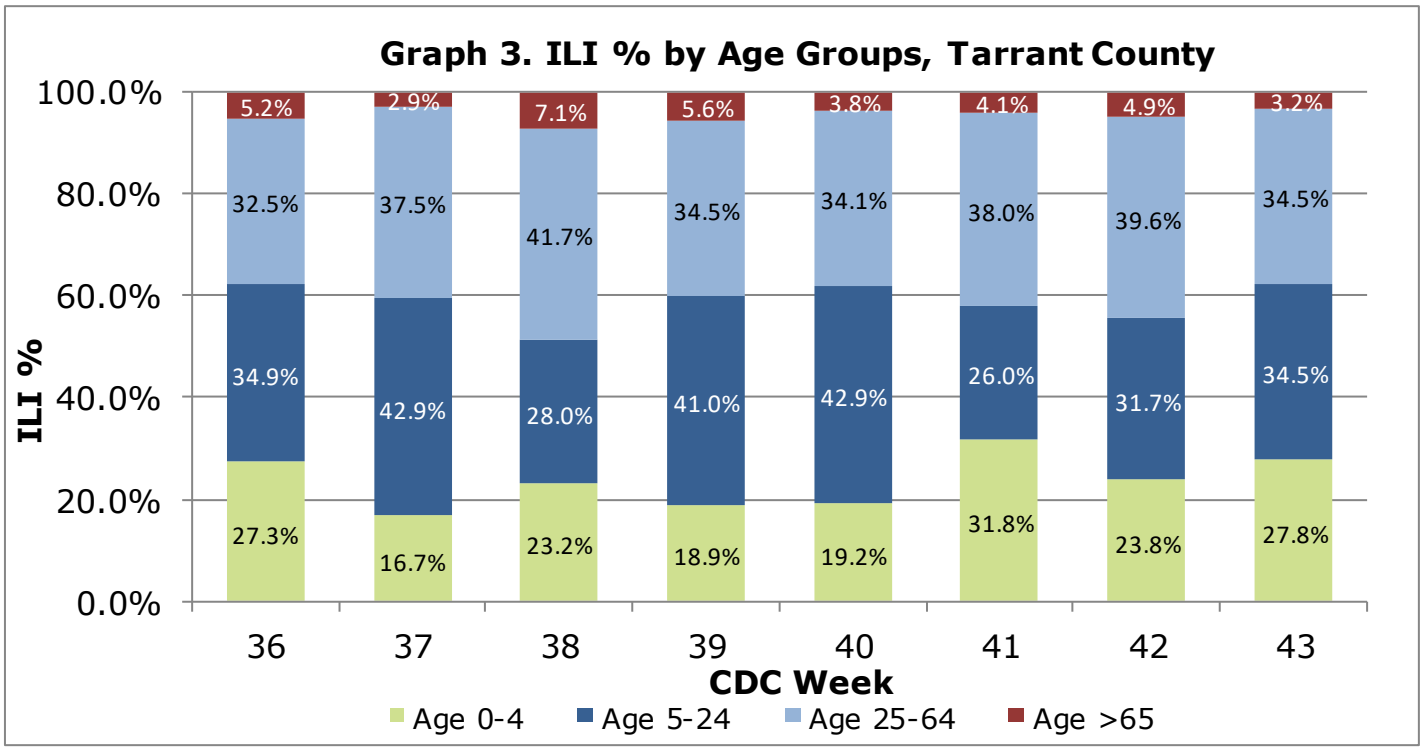


Respiratory Virus Activity Summary

- The percentage of reported influenza-like illness (ILI) in Tarrant County increased from 1.8% in week 42 to 2.1% in week 43 and is currently below the 2017-2018 Tarrant County baseline (2.7%).
- The percentage of all cause school absenteeism was 4.4% during week 43 in Tarrant County. Absenteeism due to ILI and school nurse office visits due to ILI were 2.5% and 2.0% respectively during week 43 in Tarrant County.
- The percentage of rapid flu test positives in Tarrant County increased from 1.9% in week 42 to 2.0% in week 43.
- During the 2018-2019 influenza season, 0 Tarrant County influenza-associated pediatric deaths have been reported. As of week 42, 1 influenza-associated pediatric deaths has been reported in Texas, with a total of 1 reported nationwide for the 2018-2019 season.
- During the 2018-2019 influenza season, 0 influenza outbreaks have been reported in Tarrant County schools and 0 localized influenza outbreak has been reported within institutions in Tarrant County.
- Since last report, 6 surveillance specimens were tested by The North Texas Regional Laboratory. The following types and number of viruses were detected in these specimens: Respiratory Syncytial Virus (1) and Rhinovirus (2). Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 26 surveillance specimens and of these, 0 have been positive for influenza.
- In Texas during week 42, the proportion of outpatient visits for ILI, 2.7%, was below the state baseline of 5.6%.
- Nationally during week 42, 0.6% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (1.5%) was below the national baseline (2.2%). The proportion of deaths in week 41 attributed to pneumonia and influenza from the National Center for Health Statistics (5.3%) was below the epidemic threshold (5.9%).

Influenza Like Illness (ILI): Local and State Levels

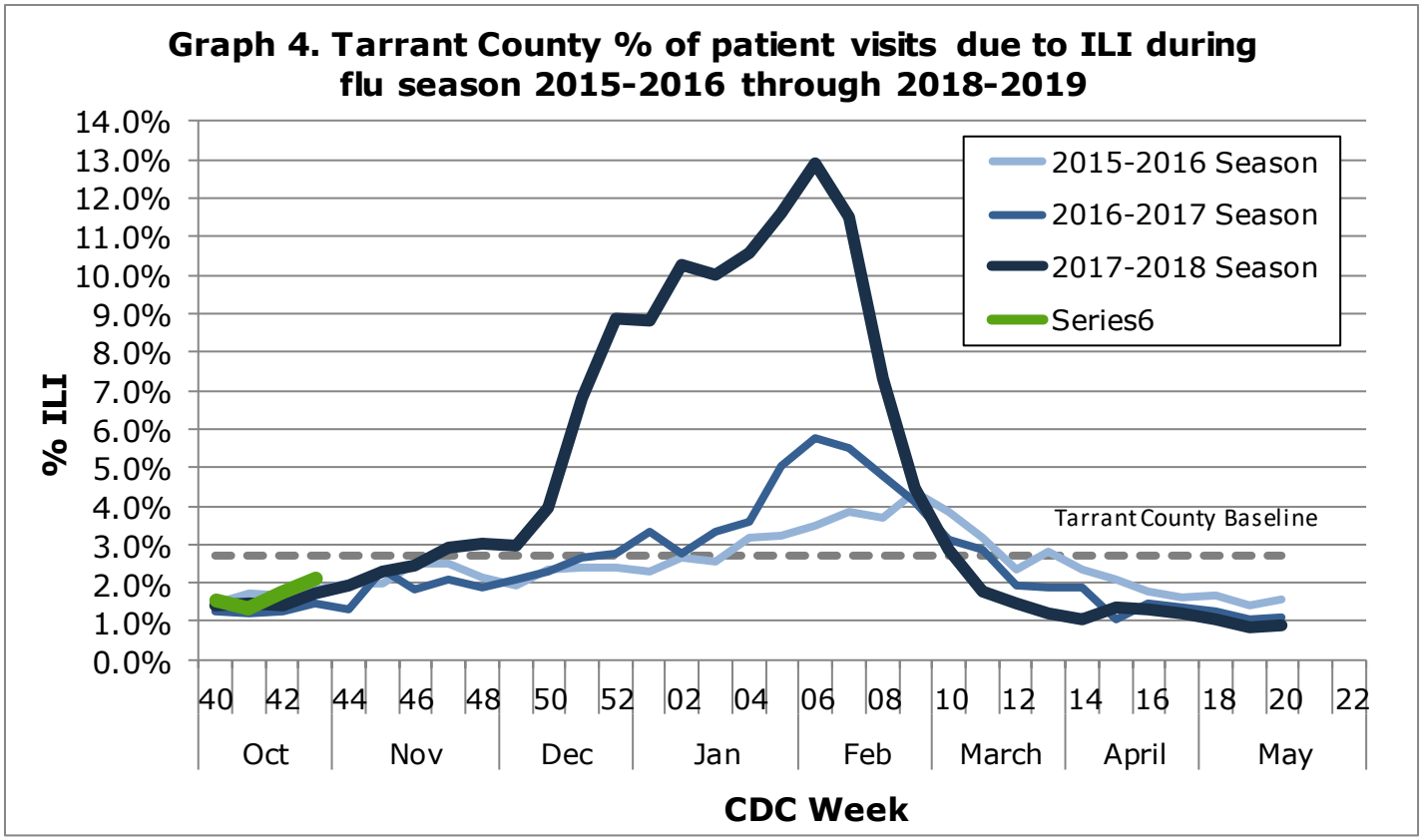




In week 43, 2.1% of visits to health care providers were due to ILI. ILI levels are currently below the county established baseline of 2.7% and are lower than the state of Texas levels. In Tarrant County, of the 467 reported patients presenting with ILI during week 43, the age groups with the largest percentage of the reported ILI patients, 34.5%, were the 5-24 and 25-64 age groups.

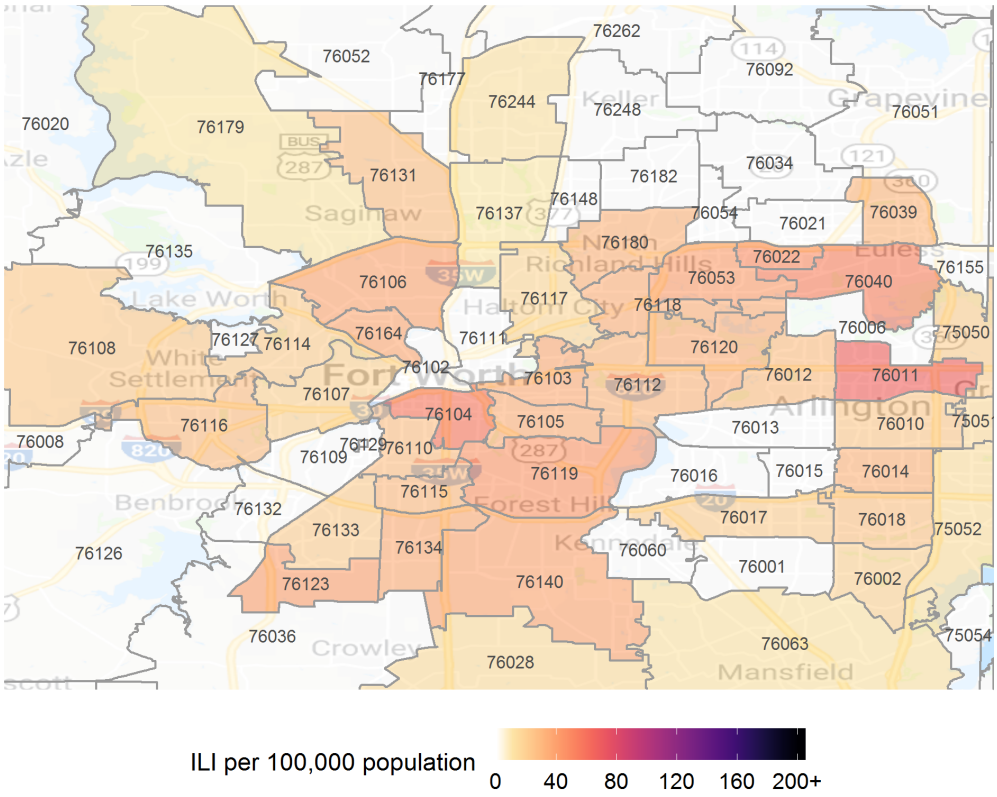
NOTE: Tarrant County ILI activity is assessed using information provided by surveillance participants and the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE). For week 43, 23 surveillance participants - 19 Hospitals, 3 Colleges/Universities, and 1 Business - reported ILI information to Tarrant County Public Health. Texas ILI activity is assessed using information provided by a network of providers . For week 42, 104 providers reported information to the Texas Department of State Health Services.

Tarrant County Historical ILI and ESSENCE Geographical Distribution Map



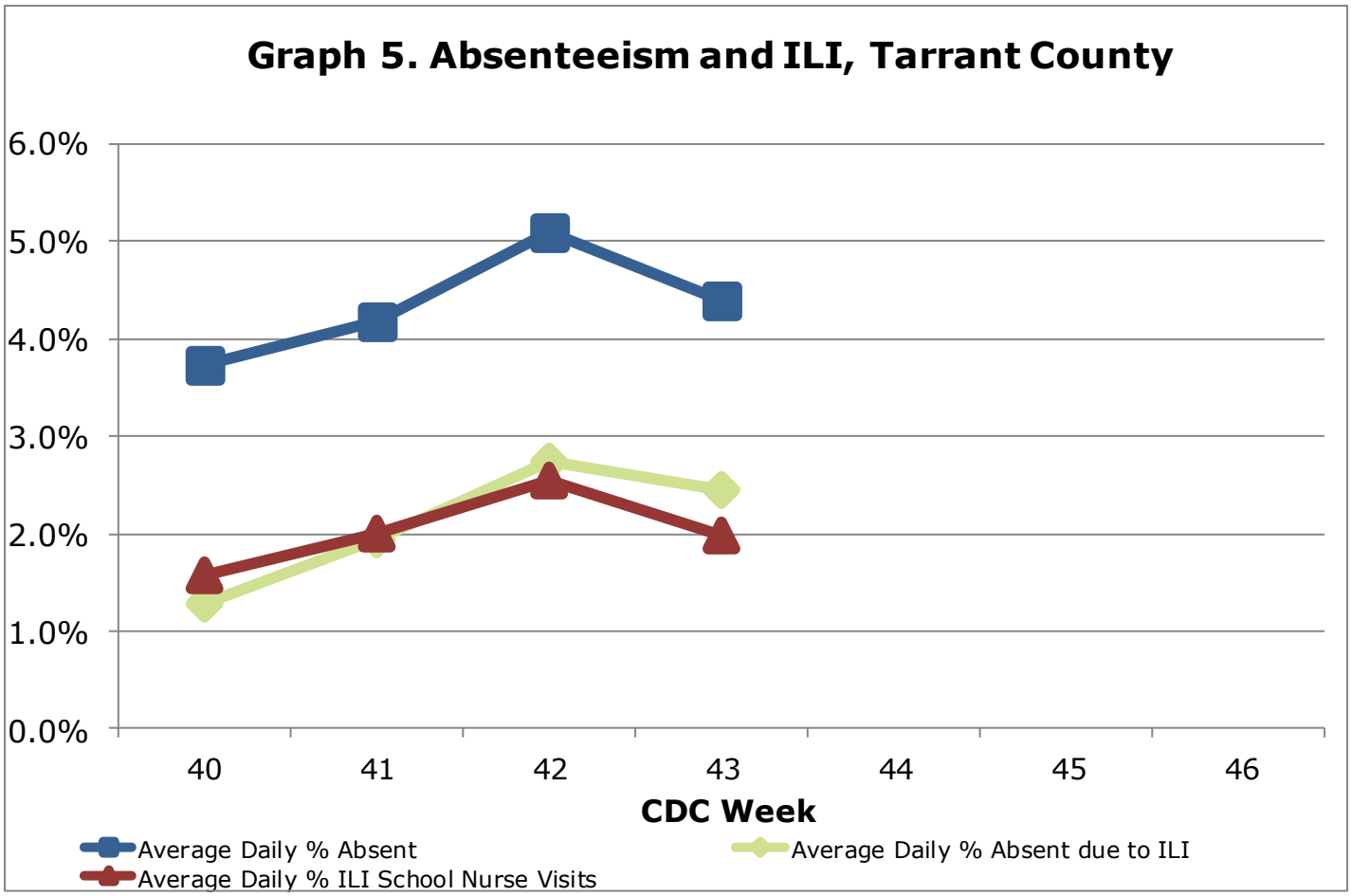
Map 1. Tarrant County ER ILI Cases by Zip Code, Week 43

Overall rate: 19.5, Maximum rate was 66 in zip code 76011



NOTE Tarrant County ILI distribution map is from ESSENCE and includes data from 46 hospitals that voluntarily provide data based on chief complaints of Tarrant County residents admitted to Emergency Departments in North Central Texas. This map represents the number of cases from each zip code, not the percent. Zip codes with larger populations are expected to have more cases.

Rapid Influenza Test Results and School Absenteeism



For week 43, 10 school districts provided general absenteeism data, 8 school districts provided data regarding absenteeism due to ILI, and 8 school districts provided data regarding nurses' office visits due to ILI.

Table 1. Influenza Rapid Test Results, Tarrant County

CDC Week Number	41 (Oct 7-13)	42 (Oct 14-20)	43 (Oct 21-27)
# Influenza Tests Performed	936	1130	1334
% Influenza Positive	1.7%	1.9%	2.0%
# Influenza A Positive	3	7	12
% Influenza A Positive	18.8%	33.3%	44.4%
# Influenza B Positive	13	14	15
% Influenza B Positive	81.2%	66.7%	55.6%
# Non-differentiated Positive	0	0	0
% Non-differentiated Positive	0.0%	0.0%	0.0%

NOTE: Tarrant County rapid influenza test results are reported weekly by influenza surveillance participants.
For CDC week 43, rapid influenza test results were reported by 16 hospitals and 2 colleges/universities.

Influenza Confirmatory Test Results: Tarrant County

Table 2. North Texas Regional Laboratory: Respiratory Virus Results[1]

	Current Week	2018-2019 Season
Number of Specimens Tested	**6**	**26**
Positive Specimens	3 (50.0%)	8 (30.8%)
Influenza A	0 (0.0%)	0 (0.0%)
Influenza B	0 (0.0%)	0 (0.0%)
Respiratory Syncytial Virus	1 (33.3%)	1 (12.5%)
Adenovirus	0 (0.0%)	2 (25.0%)
Human Metapneumovirus	0 (0.0%)	0 (0.0%)
Parainfluenza-1	0 (0.0%)	0 (0.0%)
Parainfluenza-2	0 (0.0%)	0 (0.0%)
Parainfluenza-3	0 (0.0%)	0 (0.0%)
Rhinovirus	2 (66.7%)	6 (75.0%)
Inconclusive[2]	0 (0.0%)	0 (0.0%)

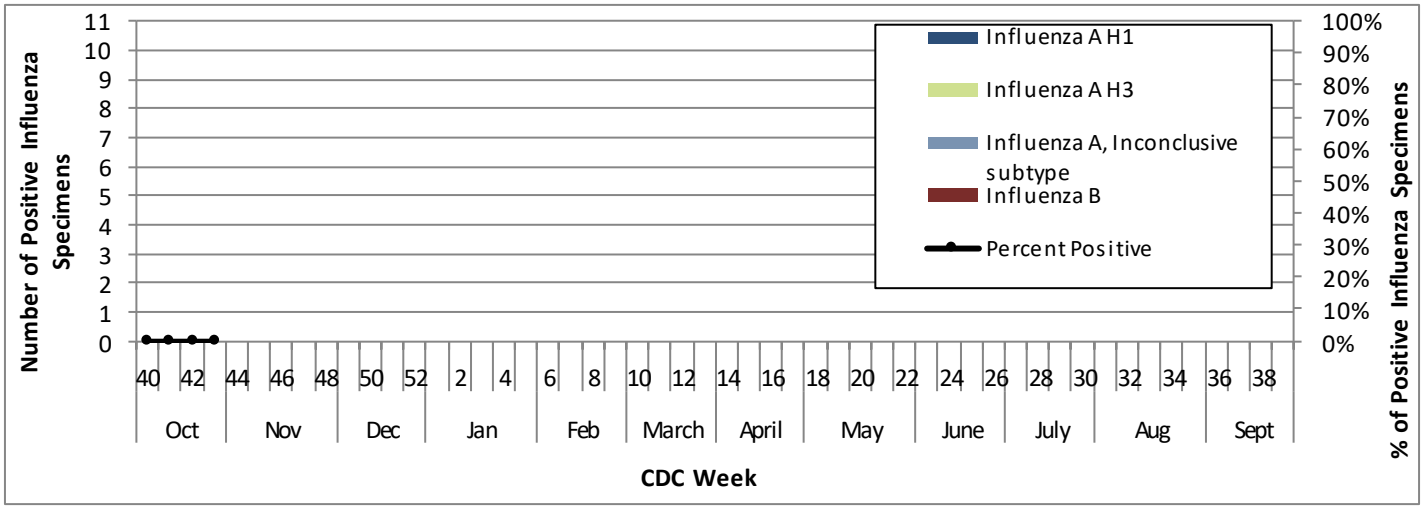
[1] Laboratory results based on real-time PCR analysis; information is for the 2018-2019 season.
2 Inconclusive for influenza A and influenza B; not included in positive specimens count.
***NOTE:** Percentages do not add up to 100% due to co-infections. 1 specimen has tested positive with a coinfection: Adenovirus and Rhinovirus (1)*

Table 3. North Texas Regional Laboratory: Influenza Results[1]

	Current Week	2018-2019 Season
Influenza A	**0**	**0**
Influenza A H1	-	-
Influenza A H3	-	-
Influenza A, Inconclusive subtype	-	-
Influenza A, Unsubtypeable[2]	-	-
Influenza B	**0**	**0**
Influenza B Yamagata[3]	-	-
Influenza B Victoria[3]	-	-
Influenza B, Inconclusive	-	-

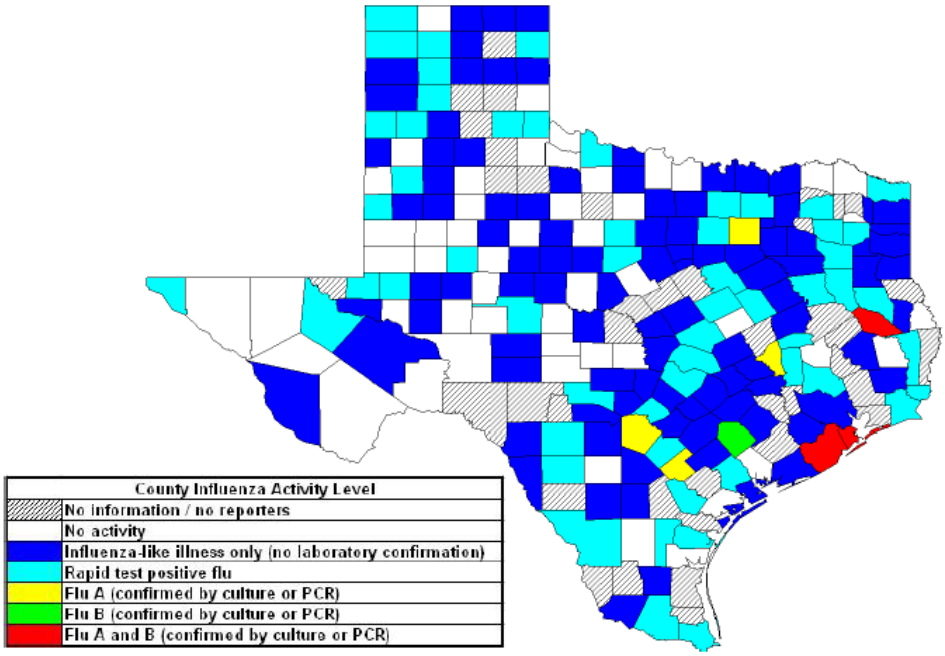
[1] Laboratory results based on real-time PCR analysis; information is for the 2018-2019 season.
[2] Influenza A subtype not determined; further analysis pending
[3] Influenza B genotyping is only included in current week column if genotyping occurred in the same week as original PCR testing.

Graph 6. North Texas Regional Laboratory: Influenza Virus Results[1]



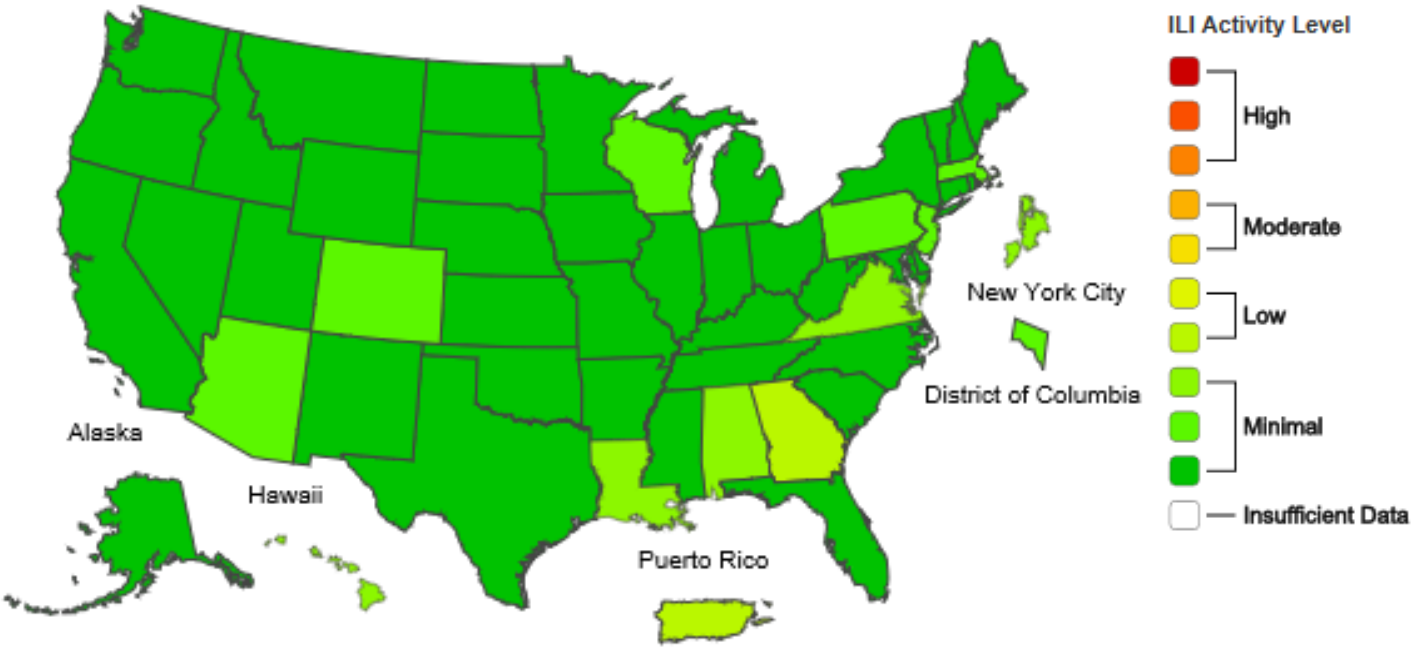
Texas and National Influenza and ILI Activity

Map 2: Texas County Specific Influenza Activity, CDC Week 42



Influenza activity level corresponds to current MMWR week only and does not reflect previous weeks' activity. The majority of influenza cases are not reportable by law to the Texas Department of State Health Services. This map contains data from sentinel sites and does not represent all influenza cases in the state. Positive laboratory results are reported according to specimen collection date or date received in the lab if the former is unknown. http://www.dshs.texas.gov/IDCU/disease/influenza/surveillance/2019.aspx

Map 3: ILINet Activity Indicator Map, CDC Week 42



Data collected in ILINet are used to produce a measure of ILI activity by state. Activity levels are based on the percent of outpatient visits in a state due to ILI and are compared to the average percent of ILI visits that occur during spring and fall weeks with little or no influenza virus circulation. This map uses the proportion of outpatient visits to health care providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels. Data collected in ILINet may disproportionately represent certain populations within a state, and therefore, may not accurately depict the full picture of influenza activity for the whole state. http://www.cdc.gov/flu/weekly/

The Tarrant County Influenza Surveillance Weekly Report is available on the Tarrant County Public Health web site at:

flu.tarrantcounty.com

If you have questions or comments regarding influenza surveillance, please contact:

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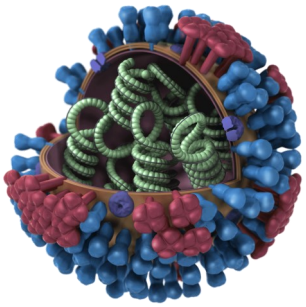

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Director, Tarrant County Public Health

NOTE:

Influenza-like Illness (ILI) is defined as fever (temperature ≥ 100°F) plus a cough OR a sore throat, in the absence of a known cause other than influenza.

Tarrant County reporting quadrants consist of Northwest, Northeast, Southwest and Southeast regions within the boundaries of Interstate 35 and Interstate 30.

Tarrant County ILI baselines were determined using a similar method as the Centers for Disease Control Prevention Regional ILI baselines and Texas Department of State Health Services Texas baseline. Regional ILI baselines are determined by the Centers for Disease Control and Prevention and can be accessed at http://www.cdc.gov/flu/weekly/overview.htm

Additional information regarding Tarrant County, Texas and national ILI activity can be accessed at

flu.tarrantounty.com

http://www.dshs.texas.gov/IDCU/disease/influenza/surveillance/2019.aspx

http://www.cdc.gov/flu/weekly/

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