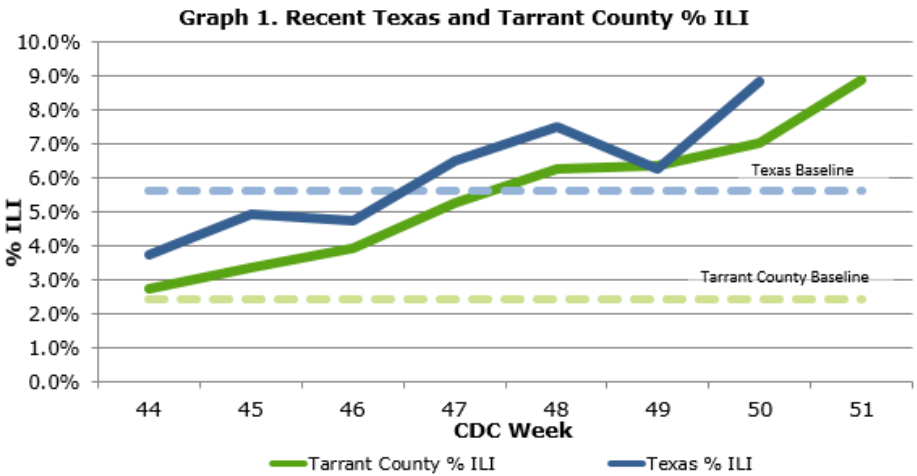




Tarrant County Influenza Surveillance Weekly Report
CDC Week 51: Dec 15-21, 2019

**Influenza Activity Code:
County and State Levels**

Tarrant County: Week 51
Widespread
Tarrant County: Week 50
Widespread
Texas: Week 50
Widespread

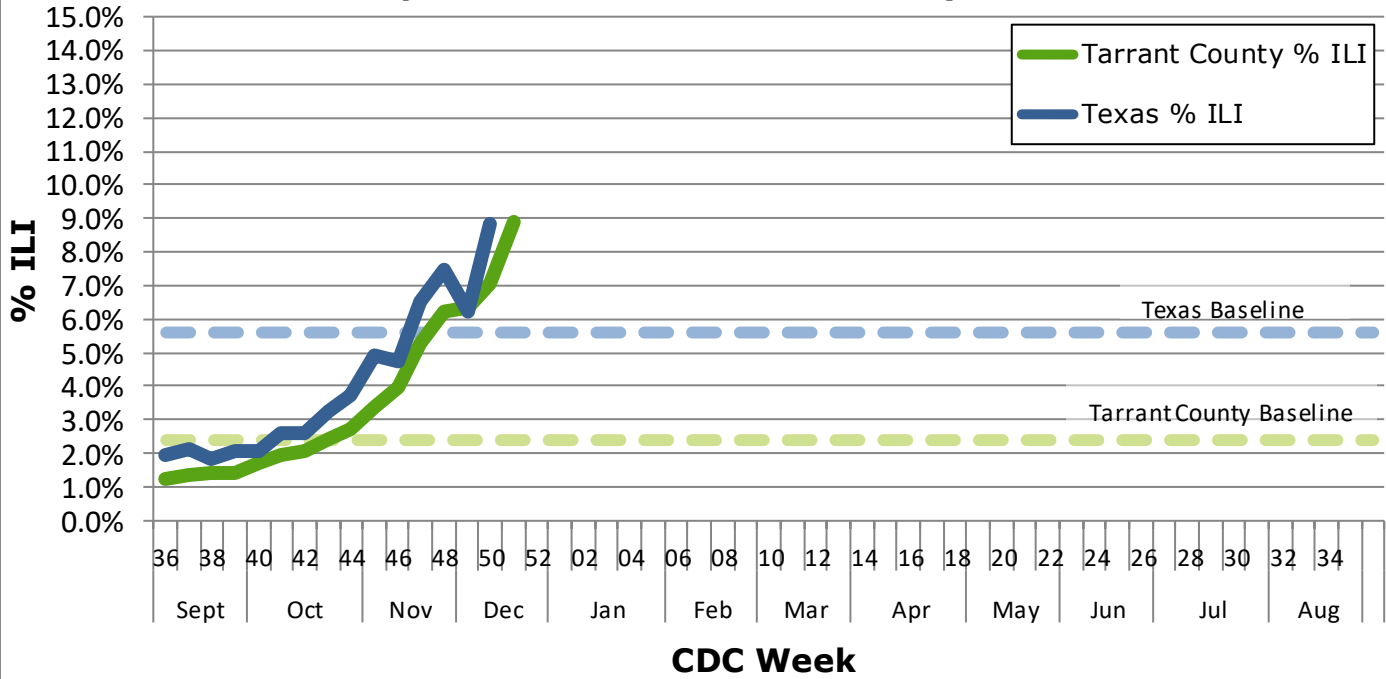


Respiratory Virus Activity Summary

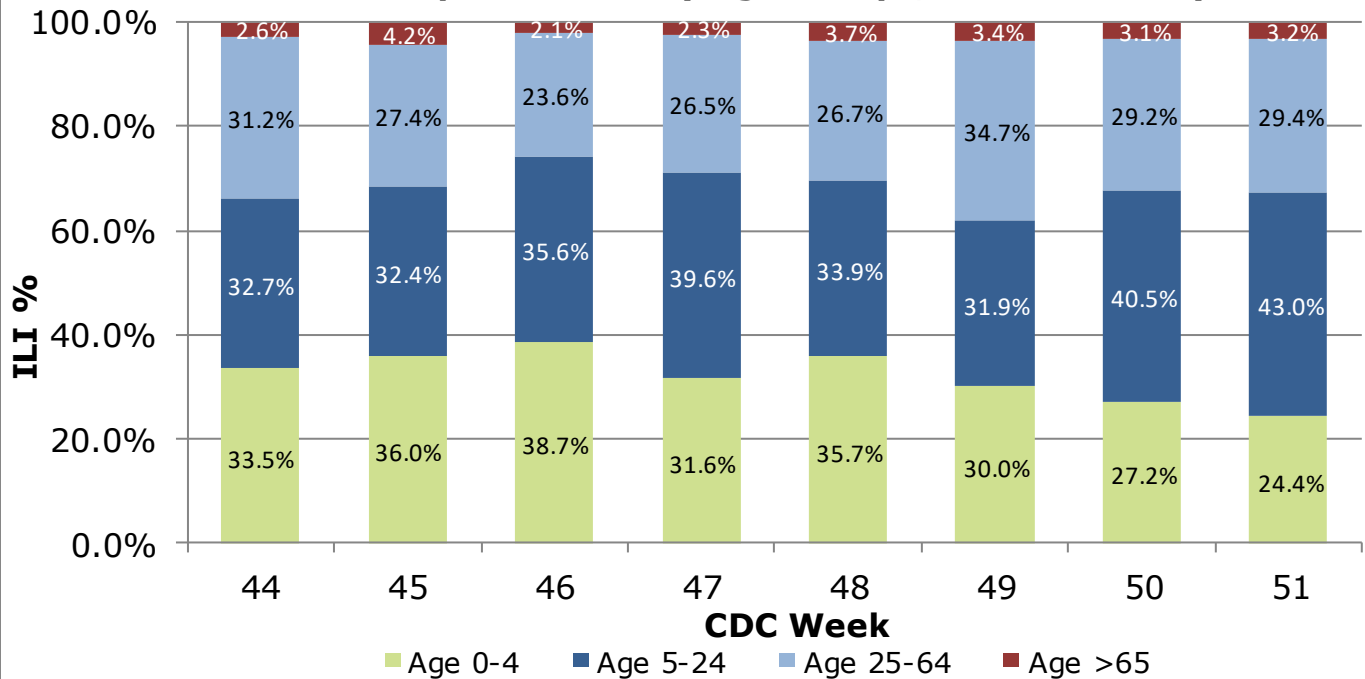
- The percentage of reported influenza-like illness (ILI) in Tarrant County increased from 7.0% in week 50 to 8.9% in week 51 and is currently above the 2019-2020 Tarrant County baseline (2.4%).
- The percentage of all cause school absenteeism was 7.7% during week 51 in Tarrant County. Absenteeism due to ILI and school nurse office visits due to ILI were 9.1% and 6.8% respectively during week 51 in Tarrant County.
- The percentage of rapid flu test positives in Tarrant County increased from 16.2% in week 50 to 22.5% in week 51.
- Based on data from the Electronic Surveillance System for the Early Notification of Community-based Epidemics, the percentage of patients hospitalized following ER visits who were diagnosed with influenza increased from 1.8% in week 50 to 2.5% in week 51.
- During the 2019-2020 influenza season, as of week 51, 2 Tarrant County influenza-associated pediatric death have been reported. As of week 50, 7 influenza-associated pediatric deaths have been reported in Texas, with a total of 19 reported nationwide for the 2019-2020 season.
- During the 2019-2020 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, 10 surveillance specimens were tested by The North Texas Regional Laboratory. The following types and number of viruses were detected in these specimens: Influenza B (4), Influenza A/H1 (4), and RSV (1). Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 107 surveillance specimens and of these, 50 have been positive for influenza.
- In Texas during week 50, the proportion of outpatient visits for ILI, 8.8%, was above the state baseline of 4.8%.
- Nationally during week 50, 16.3% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (3.9%) was above the national baseline (2.4%). The proportion of deaths in week 49 attributed to pneumonia and influenza from the National Center for Health Statistics (5.5%) was below the epidemic threshold (6.6%).

Influenza Like Illness (ILI): Local and State Levels

Graph 2. Texas and Tarrant County % ILI



Graph 3. ILI % by Age Groups, Tarrant County

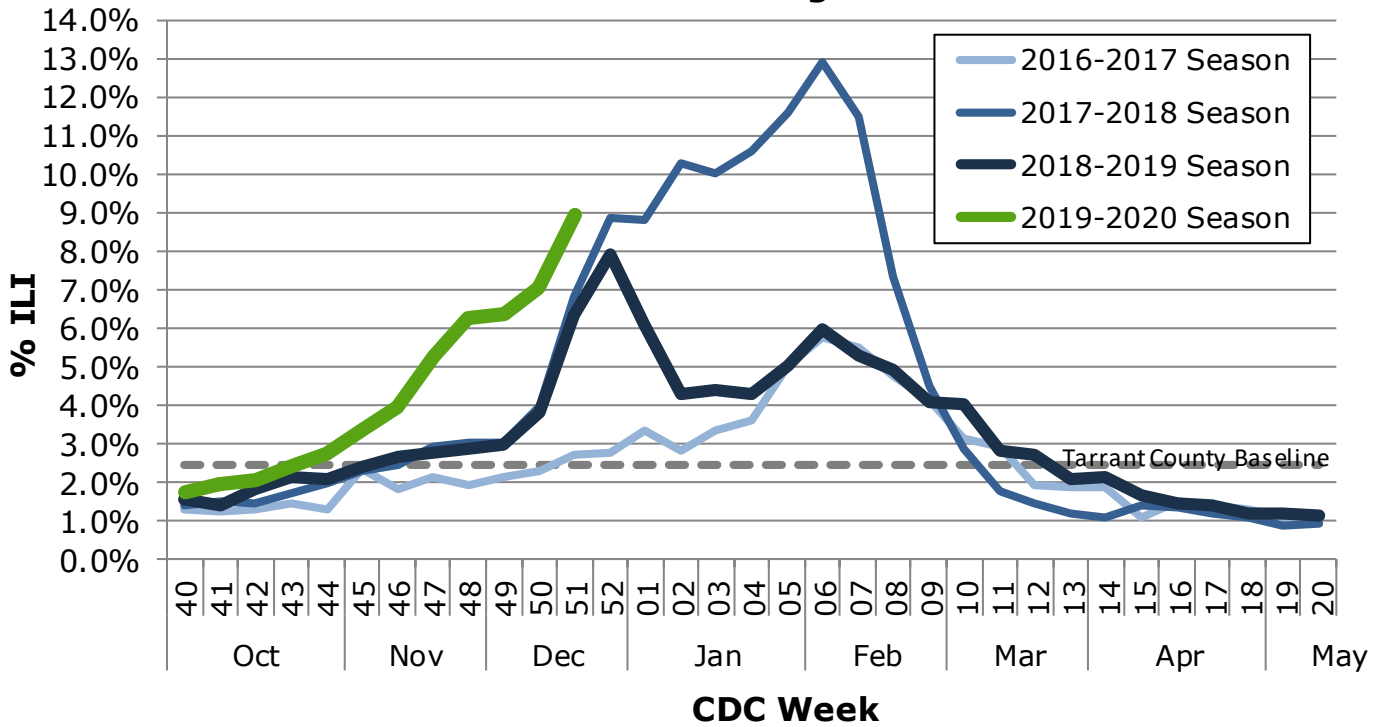


In week 51, 8.9% of visits to health care providers were due to ILI. ILI levels are currently above the county established baseline of 2.4% and are higher than the state of Texas levels from the week prior. In Tarrant County, of the 2,109 reported patients presenting with ILI during week 51, the age group with the largest percentage of the reported ILI patients, 43.0%, was the 5-24 age group.

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 51, 23 surveillance participants - 17 Hospitals, 3 Clinics, 1 Emergency/Urgent Care Centers, and 2 Businesses - reported ILI information to Tarrant County Public Health. Texas ILI activity is assessed using information provided by a network of providers. For week 50, 80 providers reported information to the Texas Department of State Health Services.

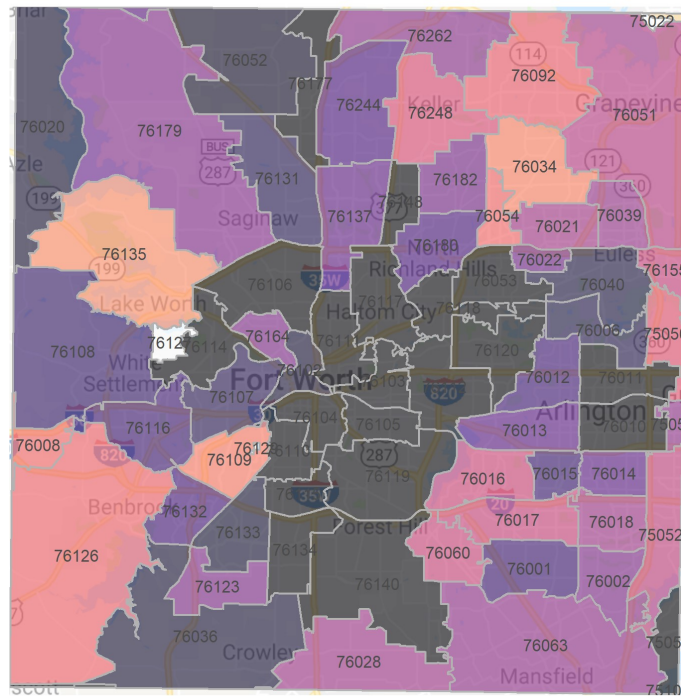
Tarrant County Historical ILI and ESSENCE Geographical Distribution Map

Graph 4. Tarrant County % of patient visits due to ILI during flu season 2016-2017 through 2019-2020



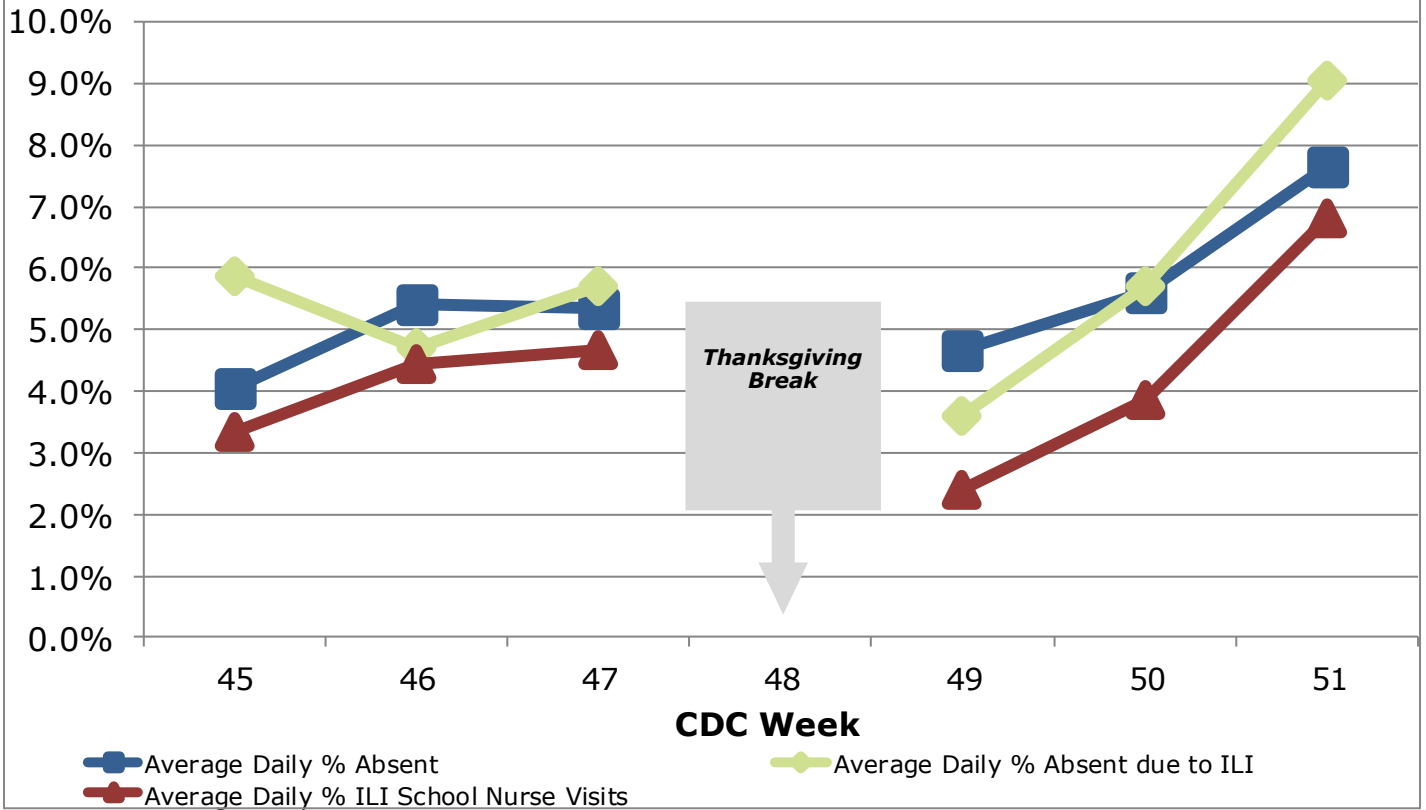
Map 1. Tarrant County ER ILI Cases by Zip Code, Week 51

Overall rate: 157, maximum rate was 356 in zip code 76115



Rapid Influenza Test Results and School Absenteeism

Graph 5. Absenteeism and ILI, Tarrant County



For week 51, 11 school districts provided general absenteeism data, 11 school districts provided data regarding absenteeism due to ILI, and 11 school districts provided data regarding nurses' office visits due to ILI.

Table 1. Influenza Rapid Test Results, Tarrant County

CDC Week Number	49 (Dec 1-7)	50 (Dec 8-14)	51 (Dec 15-21)
# Influenza Tests Performed	3305	4253	3595
% Influenza Positive	14.2%	16.2%	22.5%
# Influenza A Positive	83	125	153
% Influenza A Positive	17.7%	18.1%	18.9%
# Influenza B Positive	387	565	657
% Influenza B Positive	82.3%	81.9%	81.1%
# 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 51, rapid influenza test results were reported by 14 hospitals, 1 Emergency/Urgent Care Centers, 3 Clinics, and 1 Business.

Influenza Confirmatory Test Results: Tarrant County

Table 2. North Texas Regional Laboratory: Respiratory Virus Results¹

	Current Week	2019-2020 Season
Number of Specimens Tested	10	107
Positive Specimens	9 (90.0%)	67 (62.6%)
Influenza A	4 (44.4%)	12 (17.9%)
Influenza B	4 (44.4%)	38 (56.7%)
Respiratory Syncytial Virus	1 (11.1%)	2 (3.0%)
Adenovirus	0 (0.0%)	1 (1.5%)
Human Metapneumovirus	0 (0.0%)	0 (0.0%)
Parainfluenza-1	0 (0.0%)	5 (7.5%)
Parainfluenza-2	0 (0.0%)	0 (0.0%)
Parainfluenza-3	0 (0.0%)	0 (0.0%)
Rhinovirus	0 (0.0%)	9 (13.4%)
Inconclusive²	0 (0.0%)	0 (0.0%)

¹ Laboratory results based on real-time PCR analysis; information is for the 2019-2020 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

Table 3. North Texas Regional Laboratory: Influenza Results¹

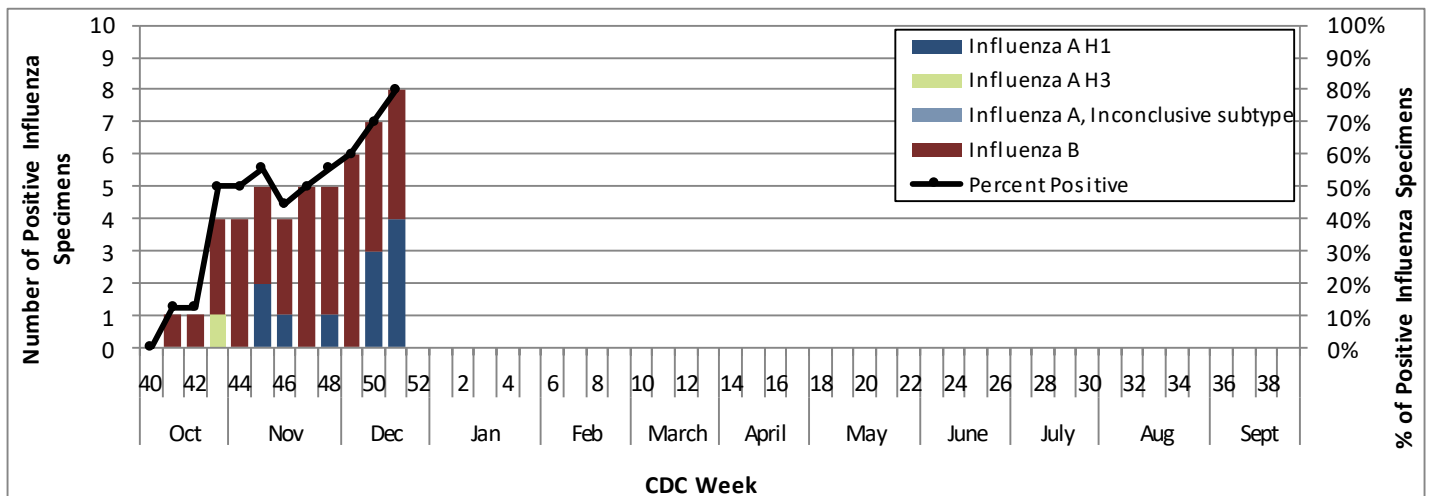
	Current Week	2019-2020 Season
Influenza A	4	12
Influenza A H1	3 (100.0%)	11 (91.7%)
Influenza A H3	0 (0.0%)	1 (8.3%)
Influenza A, Inconclusive subtype	0 (0.0%)	0 (0.0%)
Influenza A, Unsubtypeable ²	0 (0.0%)	0 (0.0%)
Influenza B	4	38
Influenza B Yamagata ³	-	0 (0.0%)
Influenza B Victoria ³	-	30 (100.0%)
Influenza B, Inconclusive	-	0 (0.0%)

¹ Laboratory results based on real-time PCR analysis; information is for the 2019-2020 season.

² Influenza A subtype not determined; further analysis pending

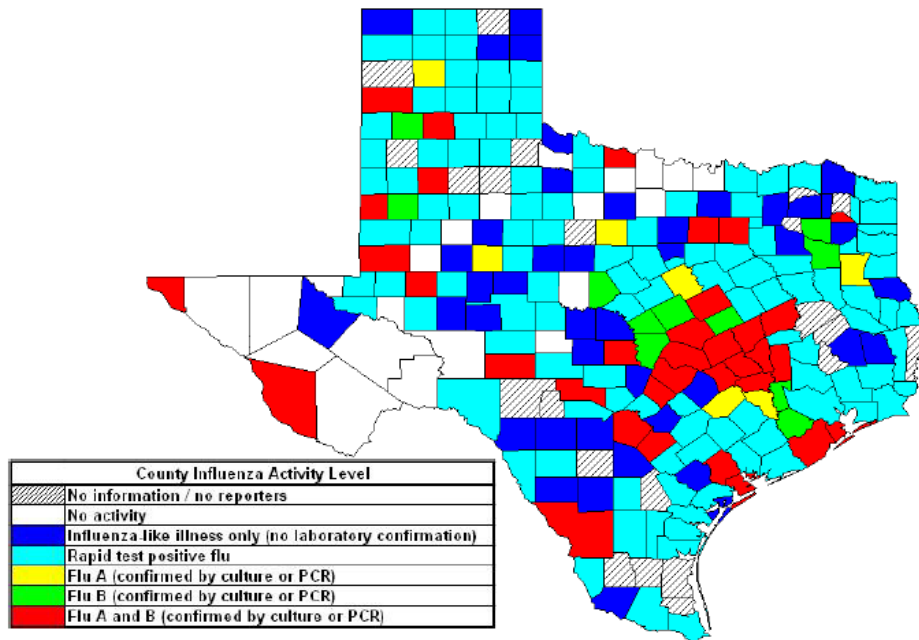
³ Influenza B genotyping is only included in current week column if genotyping occurred in the same week as original PCR testing.

Graph 6. North Texas Regional Laboratory: Influenza Virus Results¹



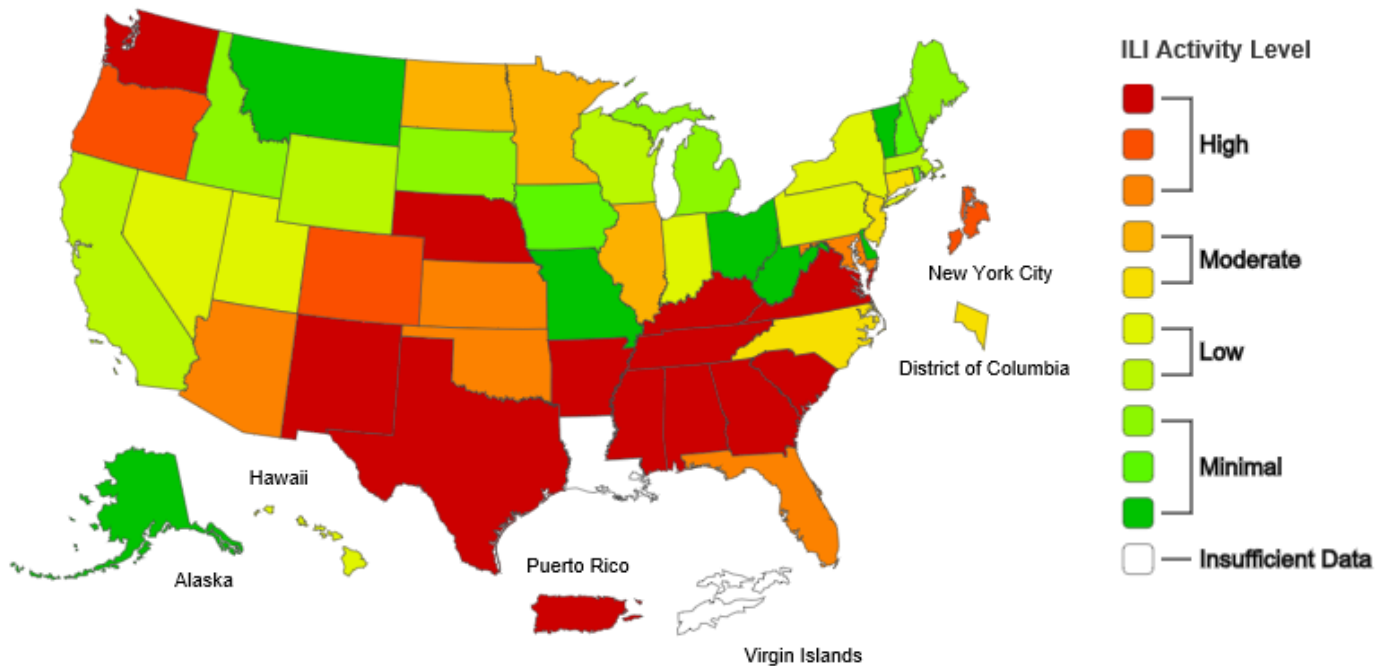
Texas and National Influenza and ILI Activity

Map 2: Texas County Specific Influenza Activity, CDC Week 50



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.state.tx.us/idcu/disease/influenza/surveillance/2017/>

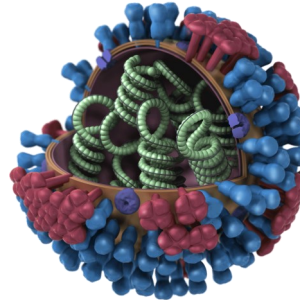
Map 3: ILINet Activity Indicator Map, CDC Week 50



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/>

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*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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NOTE:

Influenza-like Illness (ILI) is defined as fever (temperature $\geq 100^{\circ}\text{F}$) 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.tarrantcounty.com

<https://www.dshs.texas.gov/IDCU/disease/influenza/surveillance/2019-2020.aspx>

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

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