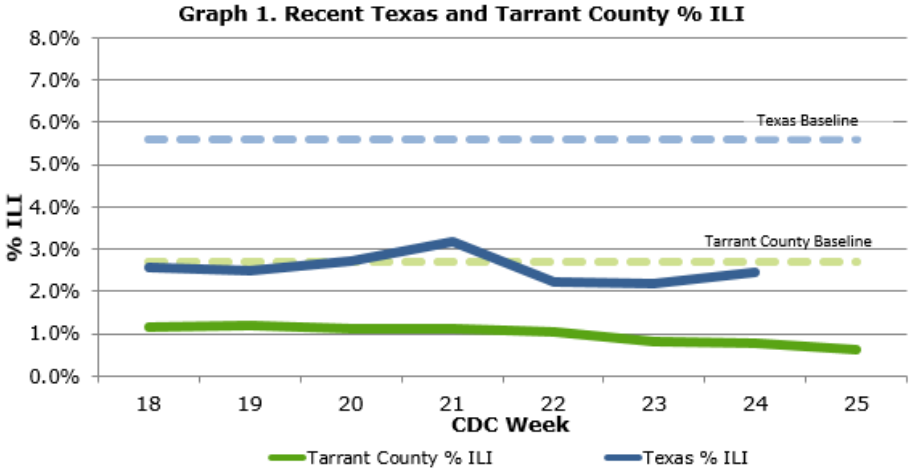
Tarrant County Public Health
Division of Epidemiology and Health Information

Tarrant County Influenza Surveillance Weekly Report
CDC Week 25: June 16-22, 2019

Influenza Activity Code: County and State Levels

Tarrant County: Week 25
No activity
Tarrant County: Week 24
Sporadic
Texas: Week 24
Not determined

Graph 1. Recent Texas and Tarrant County % ILI

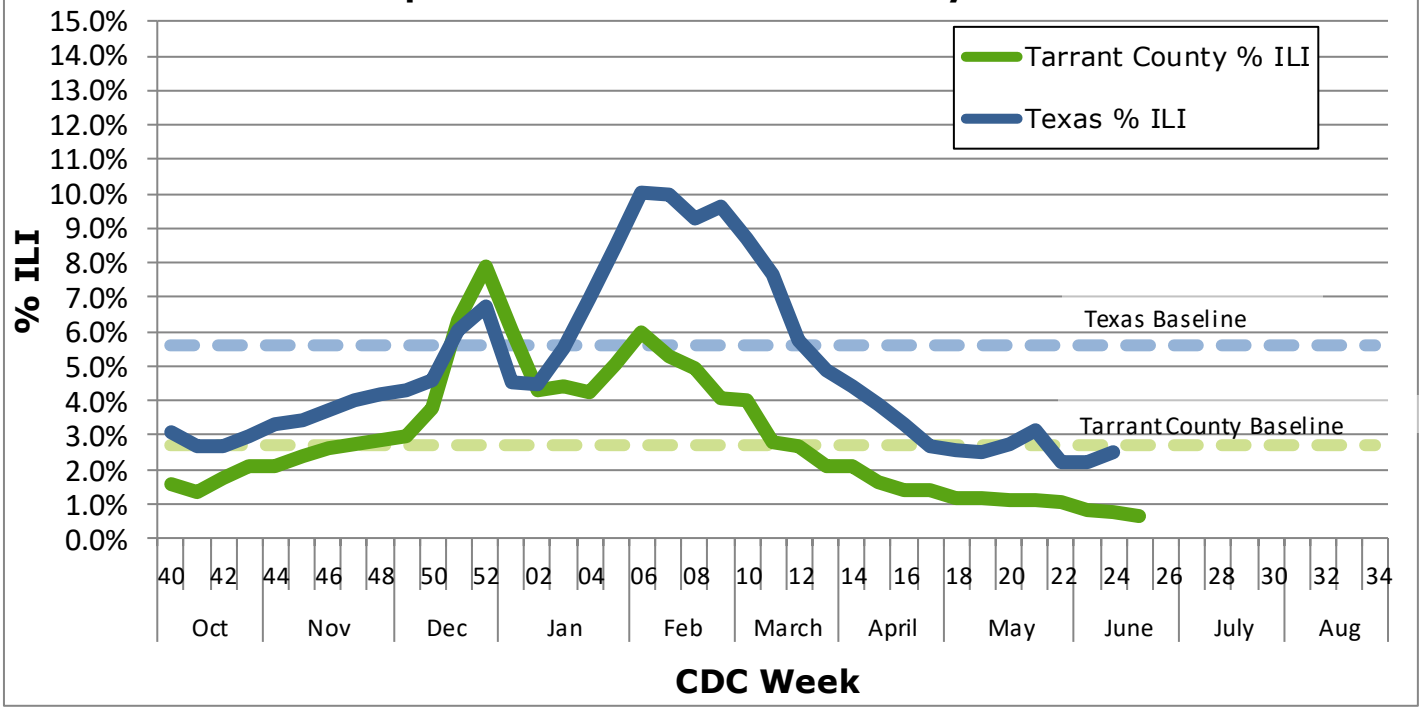


Respiratory Virus Activity Summary

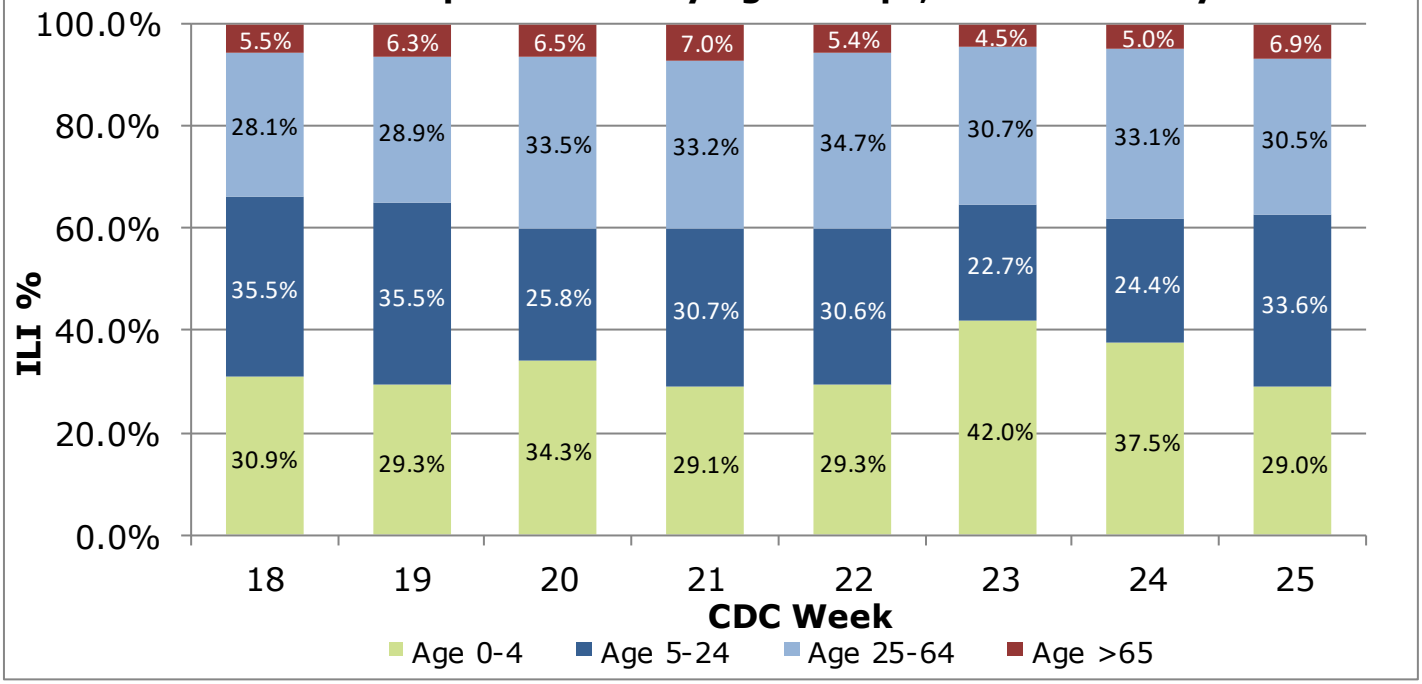
- The percentage of reported influenza-like illness (ILI) in Tarrant County decreased from 0.8% in week 24 to 0.6% in week 25 and is currently below the 2018-2019 Tarrant County baseline (2.7%).
- Due to the closing of the traditional school year, data on student absenteeism, absenteeism due to ILI, and nurses' office visits due to ILI will not be reported until the commencement of the 2019-2020 school year in August 2019.
- The percentage of rapid flu test positives in Tarrant County decreased from 2.4% in week 24 to 2.2% in week 25.
- During the 2018-2019 influenza season, 0 Tarrant County influenza-associated pediatric deaths have been reported. As of week 24, 12 influenza-associated pediatric deaths have been reported in Texas, with a total of 119 reported nationwide for the 2018-2019 season.
- During the 2018-2019 influenza season, 0 influenza outbreaks have been reported in Tarrant County schools and 8 localized influenza outbreaks have been reported within institutions in Tarrant County.
- Since last report, 9 surveillance specimens were tested by The North Texas Regional Laboratory. The following types and number of viruses were detected in these specimens: Human metapneumovirus (1), Parainfluenza-3 (1), and Adenovirus and Rhinovirus co-infection (1). Cumulatively this season, the North Texas Regional Laboratory at Tarrant County Public Health has tested 315 surveillance specimens and of these, 132 have been positive for influenza.
- In Texas during week 24, the proportion of outpatient visits for ILI, 2.5%, was below the state baseline of 5.6%.
- Nationally during week 24, 2.6% of specimens tested and reported to the CDC were positive for influenza. The proportion of outpatient visits for ILI (1.1%) was below the national baseline (2.2%). The proportion of deaths in week 23 attributed to pneumonia and influenza from the National Center for Health Statistics (5.2%) was below the epidemic threshold (6.2%).

Influenza Like Illness (ILI): Local and State Levels

Graph 2. Texas and Tarrant County % ILI



Graph 3. ILI % by Age Groups, Tarrant County

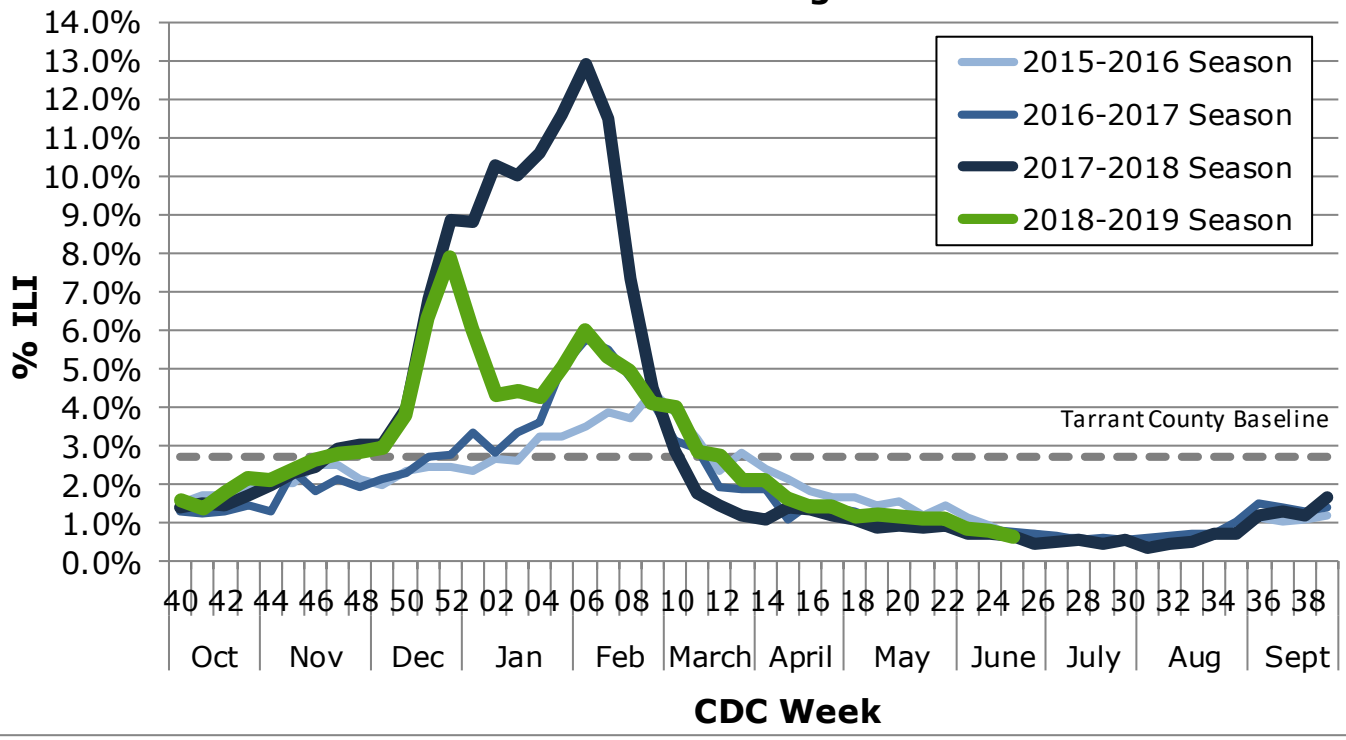


In week 25, 0.6% of visits to health care providers were due to ILI. ILI levels are currently below the county established baseline of 2.7% and are lower than the state of Texas levels from the week prior. In Tarrant County, of the 131 reported patients presenting with ILI during week 25, the age group with the largest percentage of the reported ILI patients, 33.6%, 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 25, 19 surveillance participants - 18 Hospitals and 1 College/University - reported ILI information to Tarrant County Public Health. Texas ILI activity is assessed using information provided by a network of providers . For week 24, 83 providers reported information to the Texas Department of State Health Services.

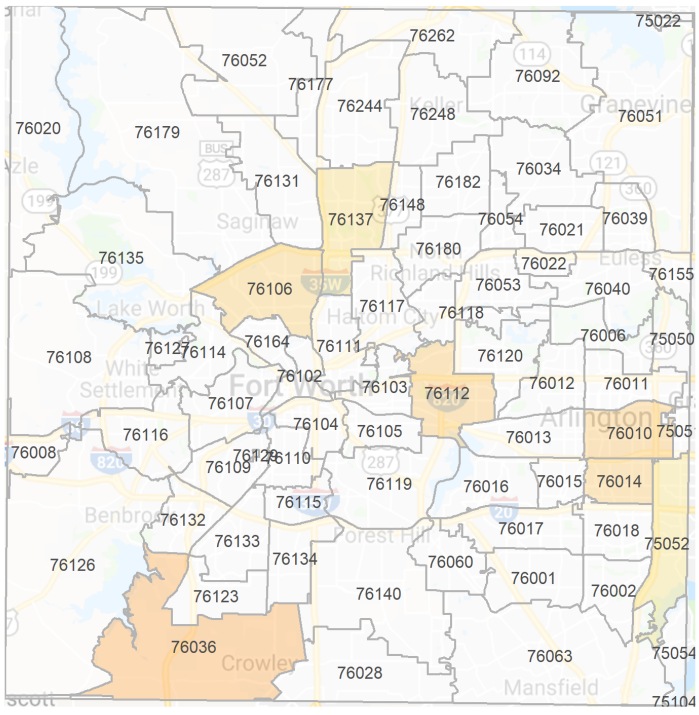
Tarrant County Historical ILI and ESSENCE Geographical Distribution Map

Graph 4. Tarrant County % of patient visits due to ILI during flu season 2015-2016 through 2018-2019



Map 1. Tarrant County ER ILI Cases by Zip Code, Week 25

Overall rate: 1.83, maximum rate was 23.3 in zip code 76036



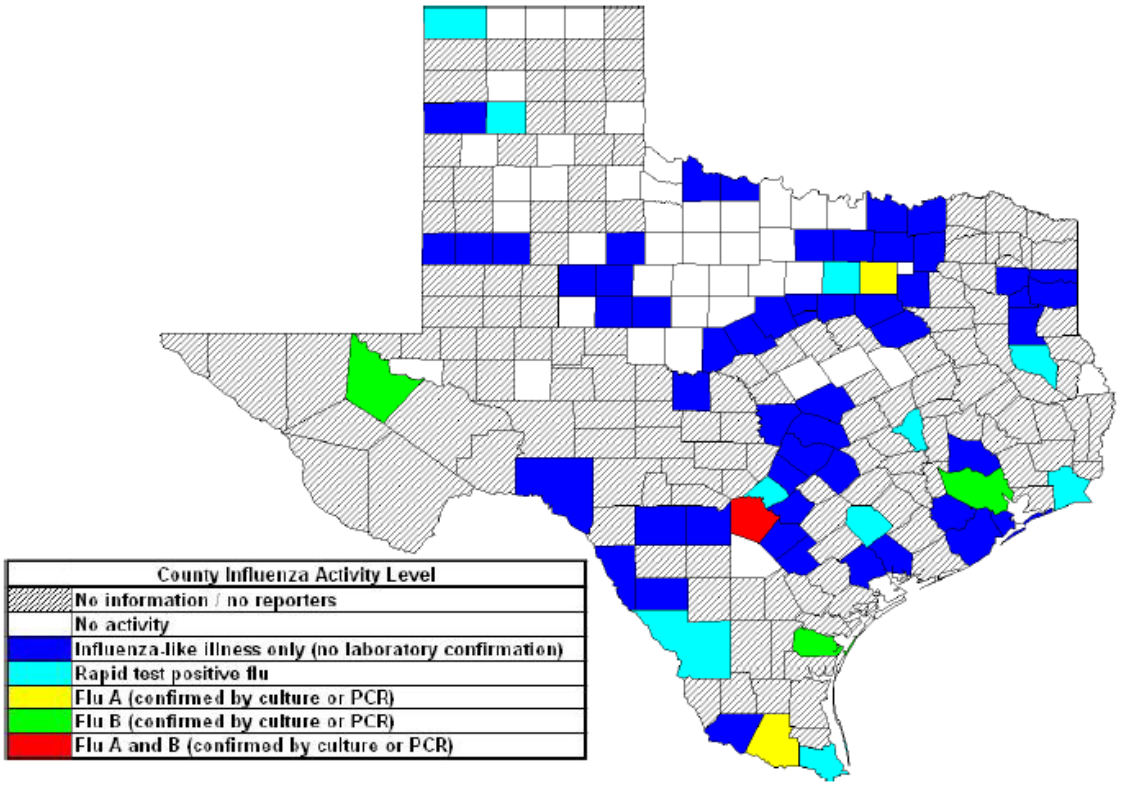
ILI per 100,000 population

0 40 80 120 160 200+

Zip codes with ≤5 cases are assigned 0. Tarrant County ILI data by zip code is obtained from ESSENCE and includes ILI numbers from 46 hospitals that voluntarily provide data based on chief complaints of Tarrant County residents admitted to Emergency Departments in North Central Texas. Zip code population data is obtained from American Community Survey 2017 5 year estimate.

Rapid Influenza Test Results and School Absenteeism

Map 2: Texas County Specific Influenza Activity, CDC Week 24



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

**Note: The most recent U.S. ILINet Activity Indicator Map was released by the CDC at the end of the flu season, Week 20 (ending May 18, 2019). See Tarrant County week 21 influenza report to view map.*

Table 1. Influenza Rapid Test Results, Tarrant County

CDC Week Number	23 (June 2-8)	24 (June 9-15)	25 (June 16-22)
# Influenza Tests Performed	268	246	230
% Influenza Positive	3.4%	2.4%	2.2%
# Influenza A Positive	2	2	1
% Influenza A Positive	22.2%	33.3%	20.0%
# Influenza B Positive	7	4	4
% Influenza B Positive	77.8%	66.7%	80.0%
# 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 25, rapid influenza test results were reported by 12 hospitals and 1 college/university.

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	**9**	**315**
Positive Specimens	3 (33.3%)	191 (60.6%)
Influenza A	0 (0.0%)	104 (54.5%)
Influenza B	0 (0.0%)	28 (14.7%)
Respiratory Syncytial Virus	0 (0.0%)	18 (9.4%)
Adenovirus	1 (33.3%)	8 (4.2%)
Human Metapneumovirus	1 (33.3%)	7 (3.7%)
Parainfluenza-1	0 (0.0%)	0 (0.0%)
Parainfluenza-2	0 (0.0%)	1 (0.5%)
Parainfluenza-3	1 (33.3%)	7 (3.7%)
Rhinovirus	1 (33.3%)	26 (13.6%)
Inconclusive[2]	0 (0.0%)	0 (0.0%)

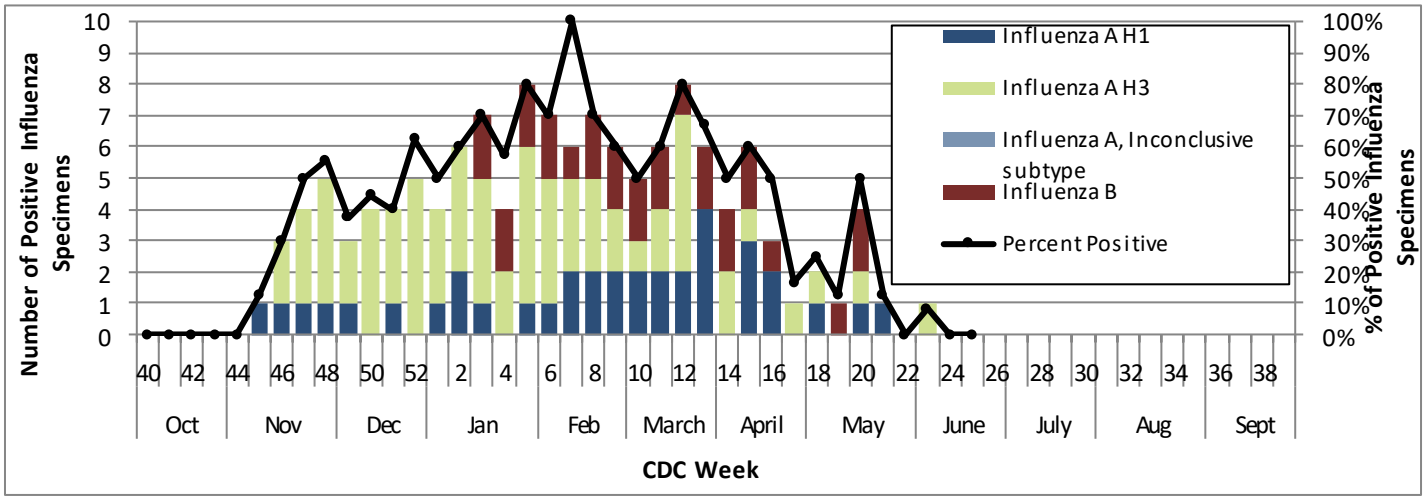
[1] *Laboratory results based on real-time PCR analysis; information is for the 2018-2019 season.*
2 *Inconclusive for influenza A and influenza B; not included in positive specimens count.*
NOTE: *Percentages do not add up to 100% due to co-infections. 1 specimen has tested positive with a coinfection: Adenovirus and Rhinovirus (2), Respiratory Syncytial Virus and Rhinovirus (1), Respiratory Syncytial Virus and Adenovirus (1), Rhinovirus and Human Metapneumovirus (1), Influenza A/H1 and Respiratory Syncytial Virus (1), Influenza A/H1 and Rhinovirus (1), Influenza A/H3 and Rhinovirus*

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

	Current Week	2018-2019 Season
Influenza A	**0**	**104**
Influenza A H1	-	36 (34.6%)
Influenza A H3	-	68 (65.4%)
Influenza A, Inconclusive subtype	-	0 (0.0%)
Influenza A, Unsubtypeable[2]	-	0 (0.0%)
Influenza B	**0**	**28**
Influenza B Yamagata[3]	-	7 (25.9%)
Influenza B Victoria[3]	-	20 (74.1%)
Influenza B, Inconclusive	-	0 (0.0%)

[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]



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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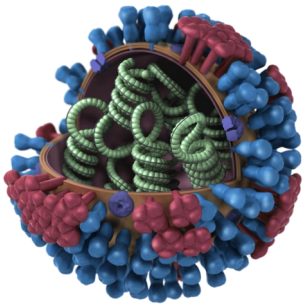

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NOTE:

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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