

## Texas Influenza Surveillance Report 2021-2022 Season/ 2022 MMWR Week 20

(May 15, 2022 – May 21, 2022)  
Report produced on 5/27/2022

### Summary

\*Please note, some aspects of influenza surveillance may be affected by current COVID-19 response activities. For information about COVID-19 in Texas, please visit [www.dshs.texas.gov/coronavirus](http://www.dshs.texas.gov/coronavirus).

Compared to the previous week, the percentage of specimens testing positive for influenza reported by hospital laboratories has decreased. The percentage of patient visits due to influenza-like illness (ILI) has decreased. No influenza-associated pediatric deaths were reported. No influenza-associated institutional outbreaks or school closures were reported.

Table 1: Summary of Texas Influenza (Flu) and Influenza-like Illness (ILI) Activity for the Current Week

Texas Surveillance Component	Change from Previous Week	Current Week	Previous Week <sup>†</sup>	Page of Report
Statewide ILINet Activity Indicator assigned by CDC (intensity of influenza-like illness)	No change	Minimal	Minimal	-
Percentage of specimens positive for influenza by hospital laboratories	▼ 1.97%	5.79%	7.76%	1
Percentage of visits due to ILI (ILINet)	▼ 0.08%	2.18%	2.26%	4
Number of regions reporting increased flu/ILI activity	▲ 1	3	2	6
Number of regions reporting decreased flu/ILI activity	▼ 2	2	4	6
Number of variant/novel influenza infections	No cases reported	0	0	6
Number of ILI/influenza outbreaks	No change	0	0	6
Number of pediatric influenza deaths	No change	0	0	7

### Laboratory Results

#### Influenza

Hospital laboratories across Texas voluntarily report influenza tests (antigen, culture, and PCR) to the National Respiratory and Enteric Virus Surveillance System (NREVSS). Providers throughout Texas also submit specimens for influenza testing (PCR) to Texas public health laboratories, including the Texas Department of State Health Services (DSHS) state laboratory in Austin and the nine Texas Laboratory Response Network (LRN) laboratories. The results reported by Texas NREVSS participants and public health laboratories for the current week are summarized in the two tables below. Additional influenza test results (rapid tests, culture, PCR) and ILI activity were reported from providers and public health departments throughout the state (see county map at the end of this report).

Table 2: Influenza Testing Performed by Texas Hospital Laboratories for the Current Week

	Week 20	Season to Date Week Ending: May 21, 2022
Number of labs reporting flu tests	17	
Number of specimens tested	3524	257051
Number of positive specimens (%) <sup>†</sup>	<b>204 (5.79%)</b>	<b>20596 (8.01%)</b>
Percentage of total tests that were antigen detection tests	24.83%	
<b>Positive specimens by type/subtype [n (%)]</b>		
<b>Influenza A</b>	<b>192 (94.12%)</b>	<b>20048 (97.34%)</b>
Subtyping performed	31 (16.15%)	2397 (11.96%)
A (H1N1)	0 (0.00%)	24 (1.00%)
A (H3N2)	31 (100.00%)	2373 (99.00%)
Subtyping not performed	161 (83.85%)	17651 (88.04%)
<b>Influenza B</b>	<b>12 (5.88%)</b>	<b>548 (2.66%)</b>

Figure 1: Number and Percentage of Tests (Antigen, Culture, PCR) Positive for Influenza by Type and Subtype Reported by Texas Hospital Laboratories, 2021-2022 Season

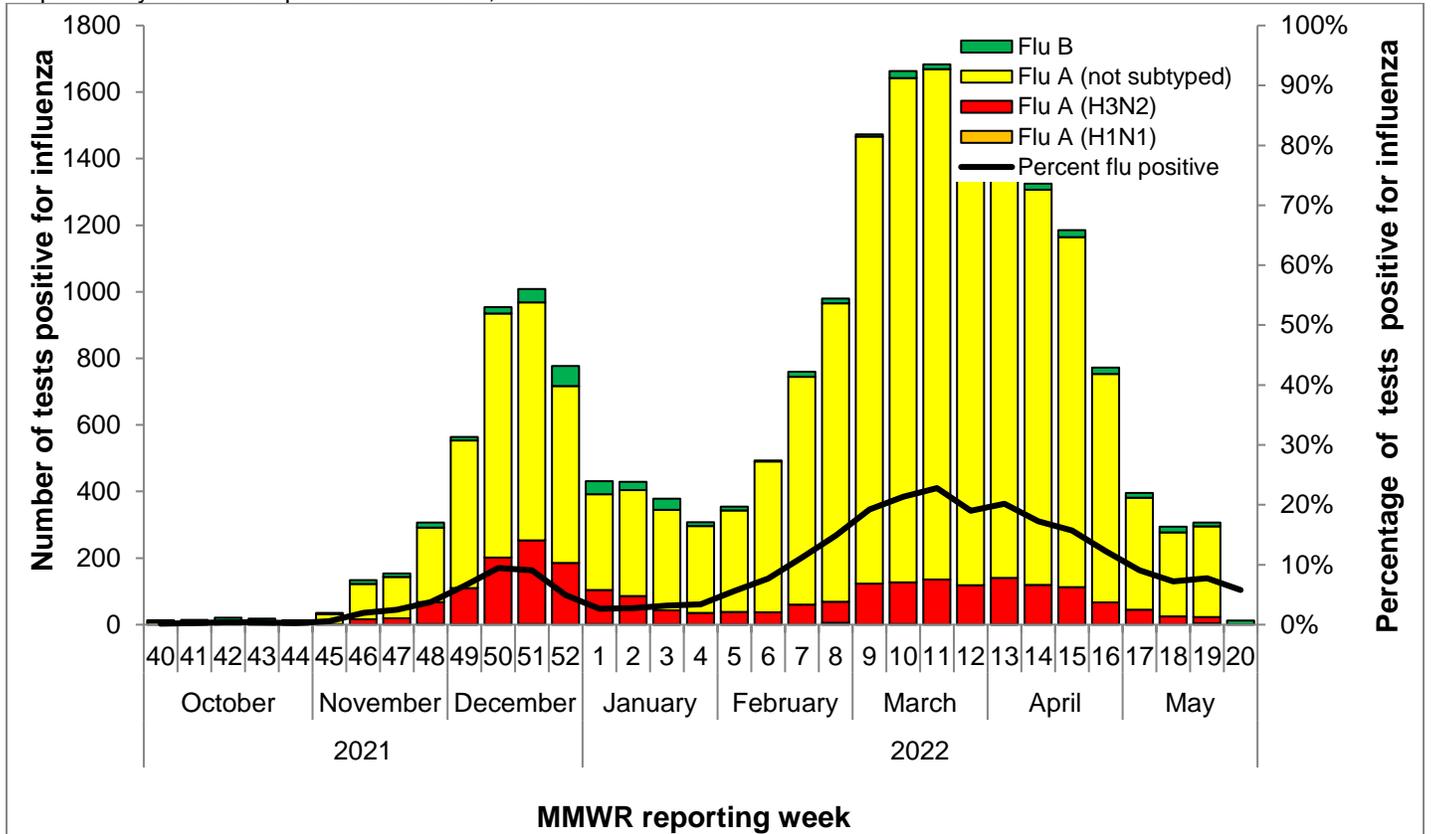
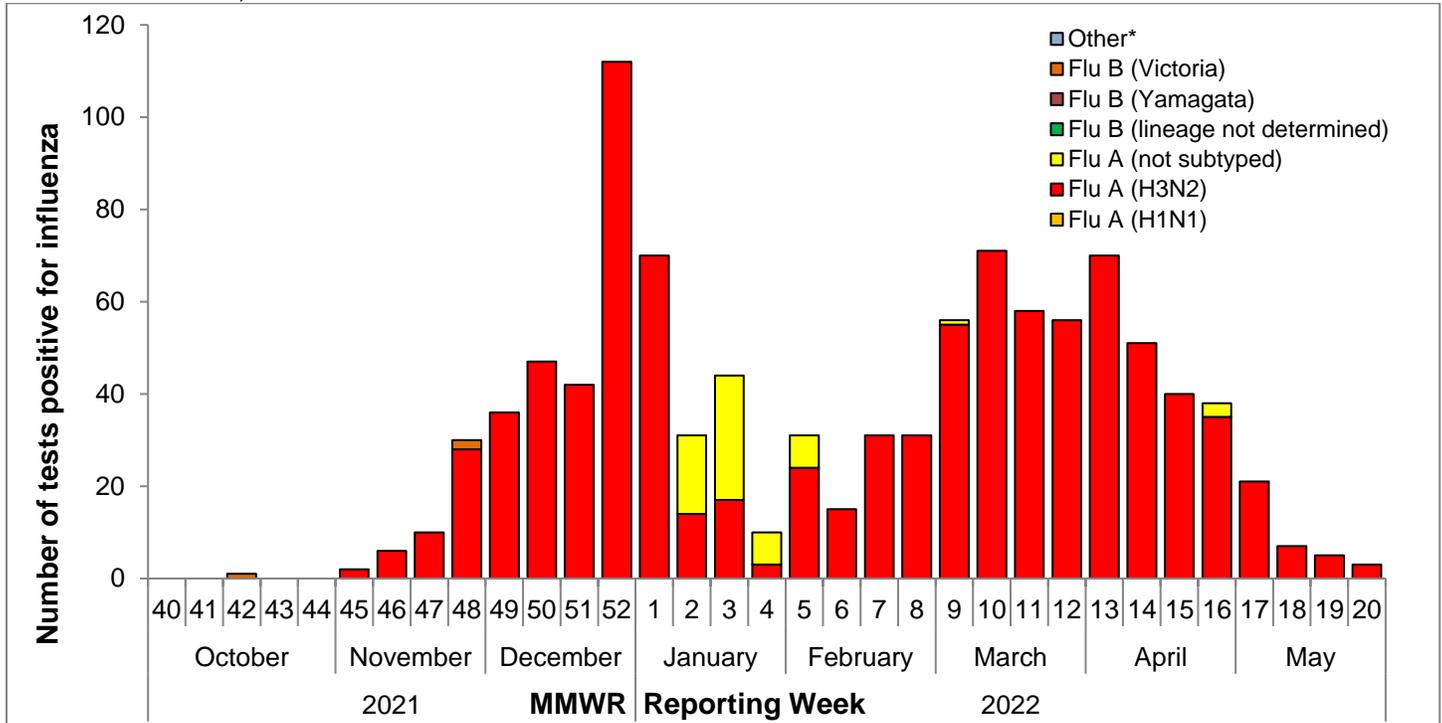


Table 3: Influenza Testing Performed by Texas Public Health Laboratories for the Current Week

	Week 20	Season to Date Week Ending: May 21, 2022
Number of labs reporting flu tests	3	
Number of specimens tested	30	15456
Number of positive specimens (%) <sup>†</sup>	<b>3 (10.00%)</b>	<b>1025 (6.63%)</b>
<b>Positive specimens by type/subtype/lineage [n (%)]</b>		
<b>Influenza A</b>	<b>3 (100.00%)</b>	<b>1022 (99.71%)</b>
Subtyping performed	3 (100.00%)	960 (93.93%)
A (H1N1)	0 (0.00%)	0 (0.00%)
A (H3N2)	3 (100.00%)	960 (100.00%)
Subtyping not performed	0 (0.00%)	62 (6.07%)
<b>Influenza B</b>	<b>0 (0.00%)</b>	<b>3 (0.29%)</b>
Lineage testing performed	0 (0.00%)	3 (100.00%)
B/Victoria	0 (0.00%)	3 (100.00%)
B/Yamagata	0 (0.00%)	0 (0.00%)
Lineage testing not performed	0 (0.00%)	0 (0.00%)
<b>Other</b>	<b>0 (0.00%)</b>	<b>0 (0.00%)</b>

<sup>†</sup>Other denotes specimens with coinfections (i.e. one specimen was positive for both influenza A (H1N1) and influenza A (H3N2))

Figure 2: Number of Tests (PCR) Positive for Influenza by Type, Subtype, and Lineage Reported by Texas Public Health Laboratories, 2021-2022 Season



\*Other denotes specimens with coinfections (i.e. one specimen was positive for both influenza A (H1N1) and influenza A (H3N2))

#### Other Respiratory Viruses

The NREVSS system collects information on a variety of respiratory viruses in addition to influenza including parainfluenza virus, respiratory syncytial virus (RSV), rhinovirus, human metapneumovirus (HMPV), seasonal coronavirus, and respiratory adenovirus. The results for the current week are summarized below.

Table 4: Non-Influenza Respiratory Virus Testing Performed by Texas NREVSS Laboratories for the Current Week

Virus	Number of Laboratories Testing	Tests Performed	Positive Tests	Percentage of Tests Positive
Adenovirus (respiratory)	12	1057	65	6.15%
HMPV	12	1060	20	1.89%
Parainfluenza virus	12	1060	115	10.85%
Rhino/enterovirus	11	1059	402	37.96%
RSV <sup>†</sup>	15	2099	141	6.72%
Seasonal coronavirus (does not include MERS-CoV or COVID-19)	11	1051	41	3.90%

<sup>†</sup>RSV tests displayed in the table are a combination of antigen detection, PCR, and culture tests. Some non-NREVSS reporters also contribute to the RSV data.

<sup>^</sup>Numbers and percentage may differ from the weekly RSV report. The weekly RSV report may be accessed at <https://www.dshs.state.tx.us/RSV/disease/rsv-Data.aspx>.

#### Antigenic Characterization

No antigenic characterization data for Texas specimens are currently available. The DSHS Laboratory sends a representative sample of influenza viruses to the CDC throughout the flu season.

#### Antiviral Resistance

No antiviral resistance testing data for Texas specimens are available presently.

## U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Table 6: Texas ILINet Reporting and Patient Visit Summary for the Current Week

Week 20	
Number of providers reporting	72
Number of providers reporting patient visits	72
Number (%) of providers with at least one ILI case	66 (91.67%)
Percentage of all visits due to ILI	2.18%
Texas ILINet baseline <sup>‡</sup> , 2021-2022	4.57%

<sup>‡</sup>The baseline is the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons plus two standard deviations. A "non-influenza week" is defined as a week that accounted for less than 2% of the season's total number of specimens that tested positive for influenza

**Special Note:** The case definition was changed to capture respiratory pathogens causing illness, including CoVID-19, through the ILINet. The Influenza-like Illness (ILI) case definition for the 2021-2022 Season has changed to fever ( $\geq 100^{\circ}\text{F}$ ,  $37.8^{\circ}\text{C}$ ) AND cough and/or sore throat. There is no longer a restriction on the cause.

Table 7: Percentage of Visits for Influenza-like Illness Reported by Texas ILINet Providers (as of 5/26/2022 9:01 AM)

Week	Providers Reporting	Number of ILI Cases by Age Group (Years)					Total ILI (all ages)	Total Patients	% ILI
		0-4	5-24	25-49	50-64	65+			
202140	76	452	470	222	77	41	1262	53014	2.38%
202141	72	392	422	199	79	50	1142	52090	2.19%
202142	77	417	435	179	75	36	1142	51438	2.22%
202143	60	446	415	139	41	41	1082	47134	2.30%
202144	72	452	535	187	61	40	1275	51562	2.47%
202145	74	486	592	196	66	60	1400	52757	2.65%
202146	73	563	802	228	88	55	1736	53084	3.27%
202147	71	559	458	234	90	51	1392	44627	3.12%
202148	73	426	506	226	83	57	1298	53164	2.44%
202149	75	544	629	241	105	98	1617	53332	3.03%
202150	71	538	664	313	119	83	1717	49112	3.50%
202151	74	611	541	351	114	99	1716	47821	3.59%
202152	66	1001	873	919	389	196	3378	63588	5.31%
202201	68	745	997	881	346	152	3121	58555	5.33%
202202	73	594	1164	790	326	212	3086	58205	5.30%
202203	72	491	713	601	241	171	2217	50184	4.42%
202204	71	377	501	340	160	110	1488	48560	3.06%
202205	68	249	363	184	79	74	949	39479	2.40%
202206	73	242	358	206	68	72	946	44362	2.13%
202207	71	329	510	205	64	50	1158	47173	2.45%
202208	73	300	564	197	64	49	1174	47226	2.49%
202209	68	310	728	241	69	45	1393	45237	3.08%
202210	67	384	772	265	84	55	1560	47973	3.25%
202211	68	439	599	370	91	62	1561	48481	3.22%
202212	68	379	674	277	81	56	1467	49882	2.94%
202213	69	370	717	267	88	54	1496	53541	2.79%
202214	76	379	656	263	70	41	1409	58561	2.41%
202215	75	367	617	201	84	48	1317	56612	2.33%
202216	74	388	588	222	70	50	1318	56575	2.33%
202217	72	678	855	358	123	91	2105	91620	2.30%
202218	73	378	544	223	65	52	1262	57355	2.20%
202219	73	676	780	343	85	86	1970	87244	2.26%
202220	72	477	519	209	74	50	1329	60899	2.18%

Figure 3: Percentage of Visits Due to Influenza-like Illness Reported by Texas ILINet Participants, 2021-2022 Season

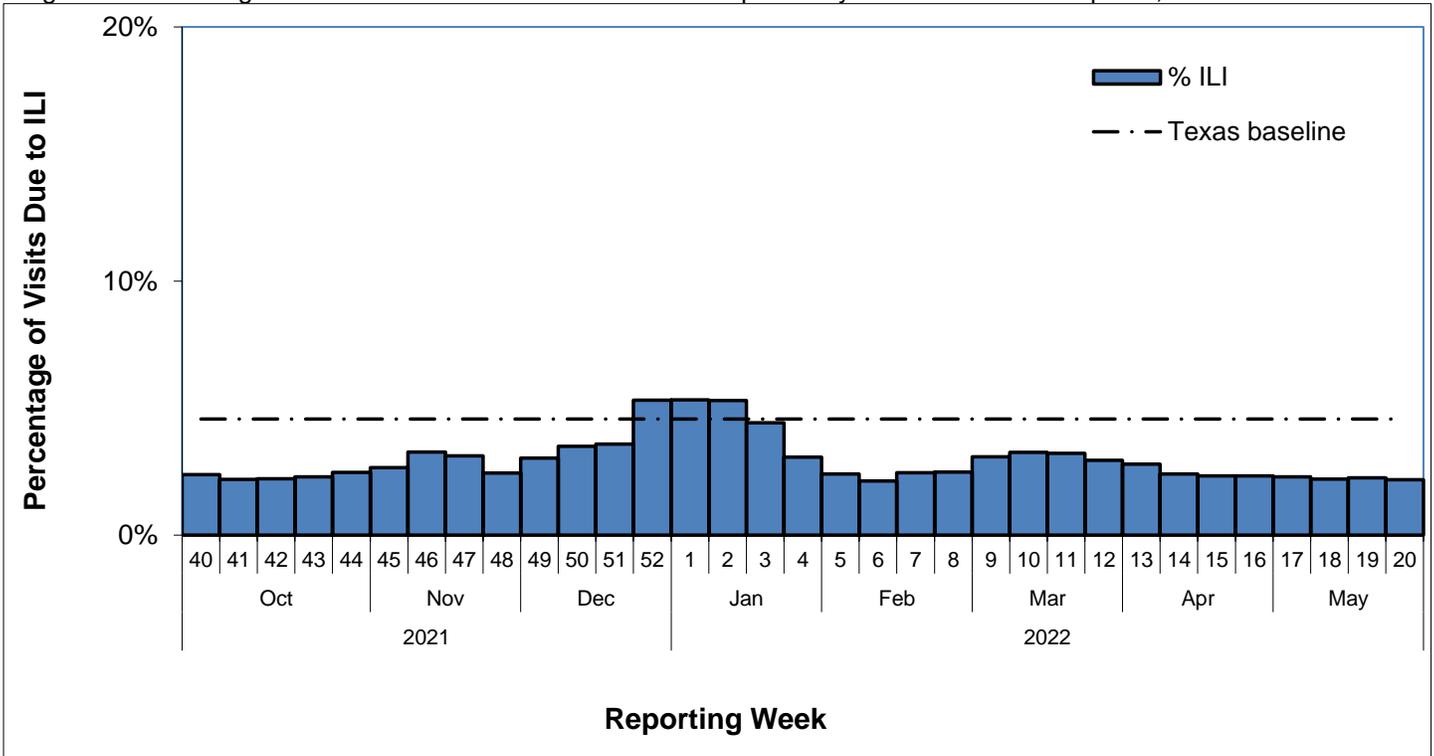
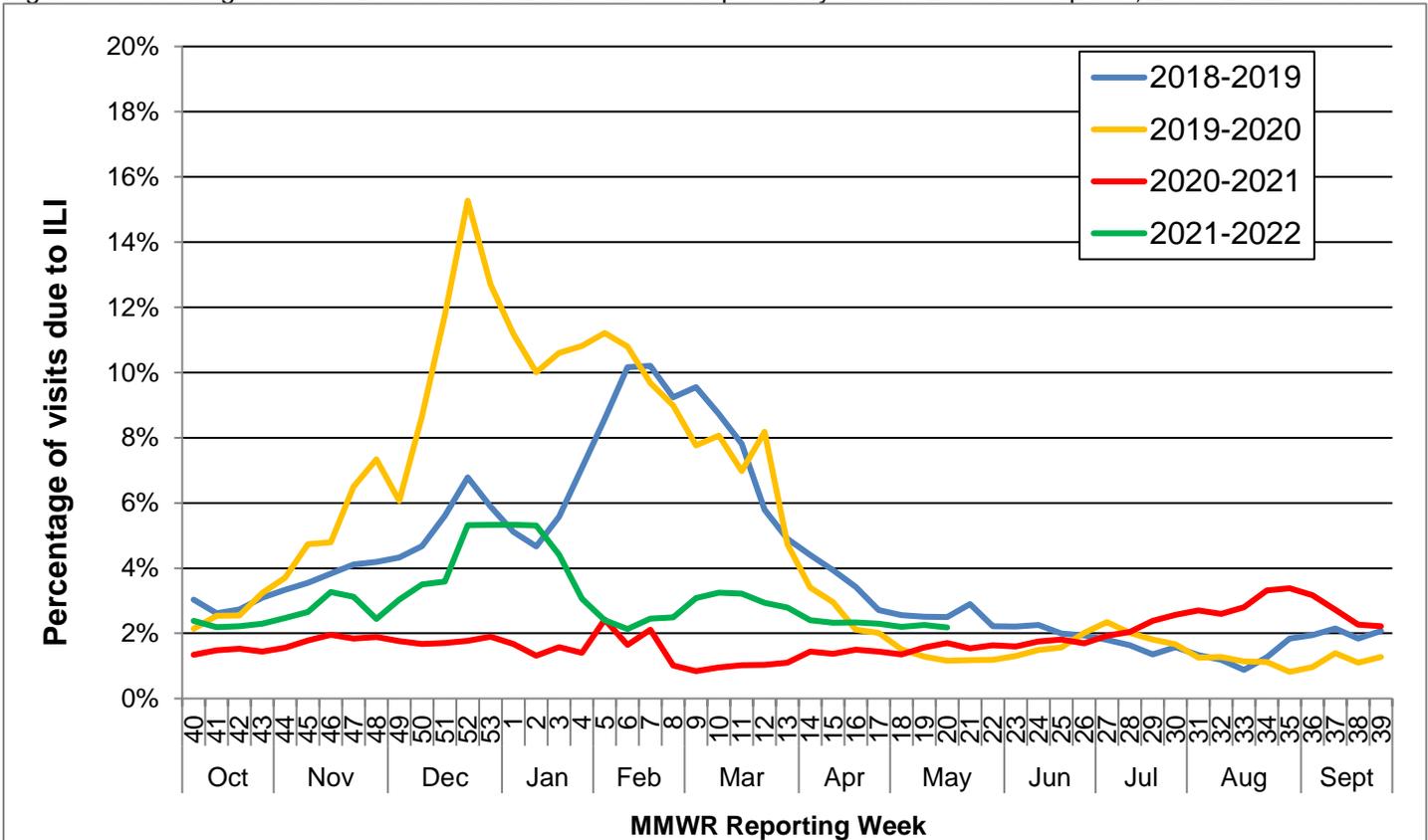


Figure 4: Percentage of Visits Due to Influenza-like Illness Reported by Texas ILINet Participants, 2018–2022 Seasons



Note: The 2020-2021 Flu Season contains MMWR week 202053. For graphical display compatibility with seasons containing 52 weeks, average values were generated using MMWR week 52 and 1 for Seasons: 2018-2019, 2019-2020, and 2021-2022.

## Reports from Health Service Regions

Reports were received from seven Health Service Regions (HSRs) during week 20.

Table 8: Influenza Activity compared to week 19 by Health Service Region (HSR)

Influenza Activity Comparison	
Increased	6/5S, 8, and 9/10
Same	2/3 and 11
Decreased	1 and 7
Unsure	

## Variants Influenza Viruses

No variant or novel influenza viruses have been detected in Texas during the 2021-2022 season.

## Institutional Outbreaks and School Closures

No outbreak was reported in week 20.

## P&I Mortality Surveillance Data

**\*Deaths due to COVID-19 may be classified as pneumonia deaths or influenza deaths (deaths due to “flu” or “flu-like illness”) in the absence of positive SARS-CoV-2 test results.**

Pneumonia and influenza (P&I) death data are obtained from death certificates of Texas residents whose underlying or contributing cause(s) of death is reported as pneumonia or influenza. P&I deaths are identified based on ICD-10 multiple cause of death codes. P&I deaths are based on ICD-10 pneumonia and influenza mortality codes.

Six thousand one hundred and two (6,102) P&I deaths have been reported in Texas during the 2021-2022 influenza season.

Table 8: Texas P&I Deaths Occurring October 3, 2021 – May 21, 2022\* by Age

Age Category (years)	Number of P&I Deaths <sup>+</sup>	Mortality Rate (per 100,000)
0 - 4	26	1.19
5 - 17	15	0.27
18 - 49	415	3.07
50 - 64	1075	20.57
65 +	4572	107.82
Overall	6102	19.89

\*NOTE: Data are provisional and subject to change, errors, and duplicates

<sup>+</sup> If the cell count is less than 10, the number of P&I deaths is suppressed and <10 is written in the cell.

Table 9: Texas P&I Deaths Occurring October 3, 2021 – May 21, 2022\* by Health Service Region (HSR)

HSR	Number of P&I Deaths	Mortality Rate (per 100,000)
1	272	28.68
2/3	1746	19.54
4/5N	574	36.97
6/5S	1352	16.34
7	706	18.92
8	629	19.36
9/10	316	19.44
11	505	21.48
Unknown	2	-
Overall	6102	19.89

\*NOTE: Data are provisional and subject to change, errors, and duplicates

<sup>+</sup> If the cell count is less than 10, the number of P&I deaths is suppressed and <10 is written in the cell.

## Influenza-Associated Pediatric Mortality

No influenza-associated pediatric deaths were reported during week 20.

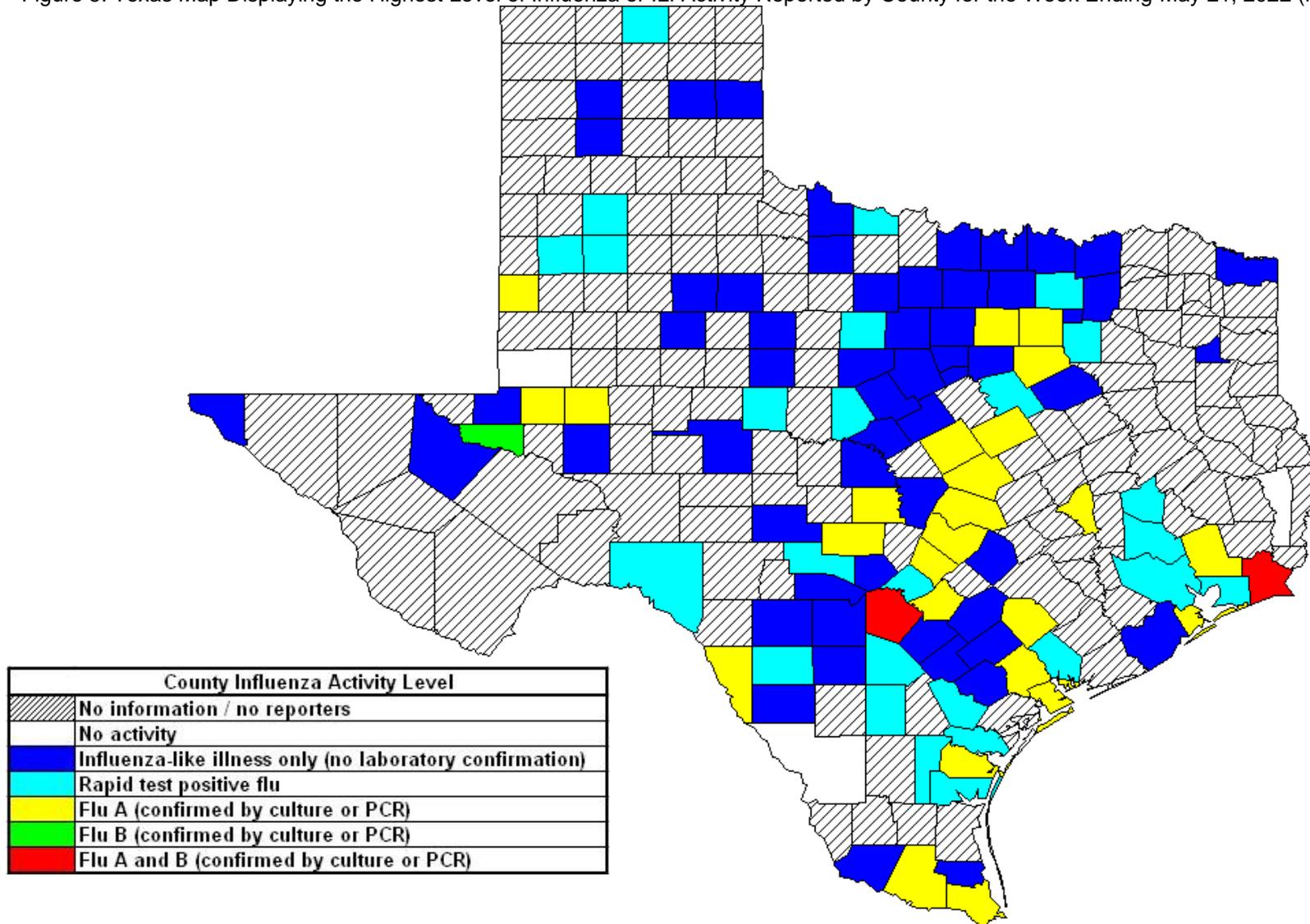
No influenza-associated pediatric mortalities have been reported in Texas during the 2021-2022 influenza season. Cases of influenza-associated pediatric mortality (children <18 years of age) are reportable year-round by law in Texas.

Table 10: Influenza-Associated Pediatric Deaths Reported in Texas during the 2021-2022 Season

Month of Pediatric Death	Influenza A (H1N1)	Influenza A (H3N2)	Influenza A (Not Subtyped)	Influenza B	Influenza, Not Typed / Not Differentiated	Influenza virus co-infection: A (not subtyped) and B	Total, All Influenza Types / Subtypes
<b>2021</b>							
October	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0
<b>2022</b>							
January	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Statewide Influenza Activity Map

Figure 5: Texas Map Displaying the Highest Level of Influenza or ILI Activity Reported by County for the Week Ending May 21, 2022 (MMWR Week 20)



Please note: The majority of influenza cases are not reportable by law in Texas. This map contains data from sentinel sites and only displays influenza and ILI cases that were reported to public health. Positive laboratory results are reported according to specimen collection date, or date received in the laboratory if the former is unknown.

# Texas Influenza Surveillance Components and Measures

Activity codes (see <http://www.cdc.gov/flu/weekly/overview.htm>)

Statewide influenza activity level

A code reported weekly by states and territories to CDC indicating the geographic spread of influenza in the state. Levels are no activity, sporadic, local, regional, and widespread.

ILINet Activity Indicator

A statewide level of influenza-like illness intensity (on a scale of 1-10, with 1 being the lowest level) assigned to each state weekly by CDC based on data reported through ILINet.

## Morbidity

Novel/variant influenza

Thorough investigations are performed on all cases of novel/variant influenza. *This condition is reportable by law in Texas.*

Texas ILINet

Providers voluntarily report weekly to CDC's ILINet system on the number of outpatient visits for ILI and total outpatient visits. Providers may submit up to 5 specimens per month for influenza testing. See <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/ILINet/> for information on how to become an ILINet provider.

ILI activity

Non-ILINet providers report ILI or influenza data weekly to local or regional health departments.

Outbreaks

Healthcare, schools, childcare, and correctional facilities report ILI and influenza outbreaks to health departments in Texas. *This condition is reportable by law in Texas.*

## Mortality

Pneumonia and Influenza (P&I) Mortality Surveillance

The DSHS Vital Statistics Unit collects death certificate information for all deaths on Texas residents from various partners such as funeral homes and local registrars around the state. The death certificates are then sent to the National Center for Health Statistics (NCHS) where the cause of death and underlying causes of death on the death certificates are coded with ICD-10 mortality codes. Once death certificates are coded, the information is sent back to DSHS Center for Health Statistics (CHS). CHS produces a Weekly Pneumonia and Influenza (P&I) Death Report and sends it to the State Influenza Surveillance Coordinator for inclusion in the Texas Weekly Flu Report. P&I deaths are identified based on ICD-10 multiple cause of death codes, and in particular, pneumonia and influenza mortality codes. Delays inherent in death reporting and coding practices may cause the number of reported P&I deaths to vary considerably each week.

Influenza-associated pediatric deaths

Deaths that are associated with influenza in children < 18 years of age are reported to health departments in Texas. *This condition is reportable by law in Texas.* <http://www.dshs.state.tx.us/idcu/disease/IAPM/>

## Laboratory

DSHS Austin laboratory

Providers voluntarily submit specimens to the DSHS Austin laboratory for influenza PCR testing throughout the season. Providers sign up for this program through their local health departments.

Laboratory Response Network (LRN) laboratories

Providers voluntarily submit specimens to one of the 9 Texas LRNs for influenza PCR testing throughout the season. Providers sign up for this program through their local health departments.

NREVSS

Laboratories voluntarily report influenza and other respiratory virus data weekly through the CDC's online NREVSS reporting system. **Laboratories sign up for this program by contacting DSHS.** <http://www.cdc.gov/surveillance/nrevss/>

## **Recommended Resources**

*Texas Department of State Health Services*

DSHS influenza page: <http://www.texasflu.org/>

Influenza surveillance data and reports: <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/>

Map of Texas Health Service Regions: <http://www.dshs.state.tx.us/regions/state.shtm>

*Centers for Disease Control and Prevention*

National FluView weekly flu report: <http://www.cdc.gov/flu/weekly/>

Variant influenza viruses: <http://www.cdc.gov/flu/swineflu/variant.htm>

Avian influenza viruses: <http://www.cdc.gov/flu/avianflu/index.htm>

Swine influenza viruses: <http://www.cdc.gov/flu/swineflu/index.htm>

Infection Control in Healthcare Facilities: <http://www.cdc.gov/flu/professionals/infectioncontrol/>

Seasonal Flu Information for Schools and Childcare Providers: <http://www.cdc.gov/flu/school/index.htm>

*World Health Organization*

Influenza page: <http://www.who.int/topics/influenza/en/>

Disease Outbreak News: <http://www.who.int/csr/don/en/>