

Texas Department of State Health Services



Texas Influenza Surveillance Report 2022-2023 Season/ 2023 MMWR Week 29

(July 16, 2023 – July 22, 2023) Report produced on 07/28/2023

Summary

*This report excludes COVID-19 data. For information about COVID-19 in Texas visit https://www.dshs.texas.gov/covid-19-home. Compared to the previous week, the percentage of specimens testing positive for influenza reported by hospital laboratories has increased. The percentage of patient visits due to influenza-like illness (ILI) has decreased. No influenza-associated pediatric deaths

were reported. No influenza-associated outbreaks were reported in a long-term care or school facility.

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 [†]	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	▲0.09%	1.77%	1.68%	1
Percentage of visits due to ILI (ILINet)	▼0.21%	1.25%	1.46%	2
Number of regions reporting increased flu/ILI activity	▲ 1	3	2	4
Number of regions reporting decreased flu/ILI activity	▼2	0	2	4
Number of variant/novel influenza infections	No change	0	0	4
Number of ILI/influenza outbreaks	No change	0	0	4
Number of pediatric influenza-associated deaths	No change	0	0	5

[†]Data displayed have been updated since last week's flu report with any new reports received.

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 29	Season to Date Week Ending: July 22, 2023
19	
3099	310674
55 (1.77%)	39081 (12.58%)
21.14%	
[n (%)]	
35 (66.64%)	37239 (95.29%)
8 (22.86%)	6143 (16.50%)
7 (87.50%)	1759 (28.63%)
1 (12.50%)	4383 (71.37%)
27 (77.14%)	31096 (83.50%)
20 (36.36%)	1842 (4.71%)
	19 3099 55 (1.77%) 21.14% [n (%)] 35 (66.64%) 8 (22.86%) 7 (87.50%) 1 (12.50%) 27 (77.14%)

†Laboratory data in 2022-2023 season reports may not be comparable to reports from previous seasons because the data only includes hospital laboratories data for the current season

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

	Week 29	Season to Date Week Ending: July 22, 2023
Number of labs reporting flu tests	1	
Number of specimens tested	23	3633
Number of positive specimens (%)	4 (17.39%)	524 (14.42%)
Positive specimens by type/sub	type/lineage [n (%)]	
Influenza A	1 (25.00%)	482 (91.98%)
Subtyping performed	1 (100.00%)	426 (88.38%)
A (H1N1)	0 (0.00%)	185 (43.43%)
A (H3N2)	1 (100.00%)	241 (56.57%)
Subtyping not performed	0 (0.00%)	56 (11.62%)
Influenza B	3 (75.00%)	42 (8.02%)
Lineage testing performed	3 (100.00%)	37 (88.10%)
B/Victoria	3 (0.00%)	37 (100.00%)

0 (0.00%)

0 (0.00%)

0 (0.00%)

(0.00%)

(11.90%)

5

0 (0.00%)

Other Respiratory Viruses

Other*

B/Yamagata

Lineage testing not performed

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)	14	1632	65	3.98%
HMPV	13	1609	11	0.68%
Parainfluenza virus	13	1609	83	5.16%
Rhino/enterovirus	14	1621	273	16.84%
RSV [†]	17	2249	61	2.71%
Seasonal coronavirus (does not include MERS-CoV or COVID-19)	13	1286	5	0.39%

[†]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.

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

Table 5: Texas ILINet Reporting and Patient Visit Summary for the Current Week

	Week 29
Number of providers reporting	46
Number of providers reporting patient visits	45
Number (%) of providers with at least one ILI case	34 (75.5%)
Percentage of all visits due to ILI	1.25%
Texas ILINet baseline [‡] , 2022-2023	4.85%

[‡]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

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

[†]Laboratory data in 2022-2023 season reports may not be comparable to reports from previous seasons because the data only includes hospital laboratories data for the current season.

[^] 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.

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 2022-2023 season is a patient with fever (≥ 100°F, 37.8°C) AND cough and/or sore throat. There is no longer a restriction on the cause.

Table 6: Percentage of Visits for Influenza-like Illness Reported by Texas ILINet Providers (as of 07/27/2023 8:49AM)

able 6: Percentage of Visits for Influenza-like Illness Reported by Texas ILINet Providers (as of 07/27/2023 8:49AM) Providers Number of ILI Cases by Age Group (Years) Total ILI Total							23 8:49AM)		
Week	Providers Reporting						Total ILI (all ages)	Total	% ILI
202240	59	0-4	5-24	25-49	50-64	65+	-	Patients	4.669/
202240 202241	62	894	1298	272 401	104 164	62 72	2630 3328	56384	4.66%
202241	60	1101 1113	1590 1874	448	201	84	3720	61532 61711	5.41%
									6.03%
202243	61	1460	2704	573	226	106	5069	65582	7.73%
202244	62	1569	3068	692	269	128	5726	66979	8.55%
202245	61	1405	2524	573	431	130	5063	51247	9.88%
202246	50	1106	1833	437	159	142	3677	37234	9.88%
202247	61	1431	1874	1058	377	208	4948	53884	9.18%
202248	59	1347	1928	1141	438	285	5139	62945	8.16%
202249	57	1176	1941	895	379	251	4642	58605	7.92%
202250	58	1080	1583	800	324	226	4013	56856	7.06%
202251	57	788	1021	745	304	217	3075	45932	6.69%
202252	53	966	934	1093	485	393	3871	58798	6.58%
202301	56	617	743	753	390	248	2751	52031	5.29%
202302	59	601	779	558	312	193	2443	59270	4.12%
202303	45	504	802	448	206	147	2107	56853	3.71%
202304	43	472	815	460	167	134	2048	53582	3.82%
202305	42	444	600	357	138	94	1633	46500	3.51%
202306	45	450	785	359	170	114	1878	55767	3.37%
202307	43	471	663	315	133	84	1666	51396	3.24%
202308	45	402	717	317	168	107	1711	57279	2.99%
202309	59	498	801	299	150	95	1843	61043	3.02%
202310	60	481	760	327	123	87	1778	59486	2.99%
202311	59	428	456	279	97	76	1336	54467	2.45%
202312	42	368	480	249	80	78	1255	54876	2.29%
202313	45	362	595	298	90	79	1424	58438	2.44%
202314	44	392	567	276	103	68	1406	54501	2.58%
202315	43	442	611	294	105	68	1520	59400	2.56%
202316	58	446	763	297	89	76	1671	62146	2.69%
202317	59	476	658	288	101	70	1593	61546	2.59%
202318	59	455	764	289	89	77	1674	57536	2.91%
202319	57	425	665	264	88	69	1511	58664	2.58%
202320	56	320	488	221	79	56	1164	43998	2.65%
202321	40	228	307	112	33	27	707	27746	2.55%
202322	50	312	414	252	75	33	1086	48299	2.25%
202323	49	245	231	149	42	28	695	47758	1.46%
202324	48	232	224	187	68	40	751	47287	1.59%
202325	47	190	206	140	67	45	648	48360	1.34%
202326	49	252	255	180	57	41	785	50943	1.54%
202327	49	199	203	163	61	43	669	46815	1.43%
202328	47	212	195	182	52	55	696	47592	1.46%
202329	46	206	172	142	63	40	623	49997	1.25%

20% 18% 2019-2020 16% 2020-2021 Percentage of visits due to ILI 14% 2021-2022 12% 2022-2023 10% 8% 6% 4% 2% 0% 8000-0045500 8000-000 Oct Dec Feb Apr Jan Mar May Jun Jul Aug Sept MMWR Reporting Week

Figure 4: Percentage of Visits Due to Influenza-like Illness Reported by Texas ILINet Participants, 2019–2023 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: 2019-2020, 2021-2022, and 2022-23.

Reports from Health Service Regions

Reports were received from eight Health Service Regions (HSRs) during week 29.

Table 7: Influenza Activity compared to week 28 by Health Service Region (HSR)

Influenza Activity Comparison	
Increased	6/5S, 7, 8
Same	1, 2/3, 4/5N, 9/10, 11
Decreased	
Unsure	

Variant Influenza Viruses

No variant or novel influenza viruses have been detected in Texas during the 2022-2023 season.

Institutional Outbreaks and School Closures

No newly identified influenza-associated institutional outbreaks were reported in week 29.

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

Eight thousand six hundred and ninety (8690) P&I deaths have been reported in Texas during the 2022-2023 influenza season.

Table 8: Texas P&I Deaths Occurring October 2, 2022- July 22, 2023, by Age

Age Category	Number of P&I	Mortality Rate
(years)	Deaths ⁺	(per 100,000)
0 - 4	51	2.31
5 - 17	31	0.56
18 - 49	625	4.55
50 - 64	1539	29.25
65 +	6444	146.1
Overall	8690	27.88

^{*}NOTE: Data are provisional and subject to change, errors, and duplicates

Table 9: Texas P&I Deaths Occurring October 2, 2022– July 22, 2023, by Health Service Region (HSR)

HSR	Number of P&I Deaths+	Mortality Rate (per 100,000)
1	325	33.84
2/3	2385	27.05
4/5N	713	45.85
6/5S	2115	24.42
7	971	27.47
8	934	22.12
9/10	449	42.97
11	795	33.46
Unknown	3	-
Overall	8690	27.88

^{*}NOTE: Data are provisional and subject to change, errors, and duplicates

Influenza-Associated Pediatric Mortality

No influenza-associated pediatric mortalities were reported in week 29.

<u>Twelve</u> influenza-associated pediatric mortalities have been reported in Texas during the 2022-2023 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 2022-2023 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
2022							
October	0	2	0	1	0	0	3
November	0	2	1	0	0	0	3
December	0	2	2	0	0	0	4
2023							
January	0	0	0	0	0	0	0
February	0	0	0	1	0	0	1
March	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0
May	1	0	0	0	0	0	1
June	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0
Total*	1	6	3	2	0	0	12

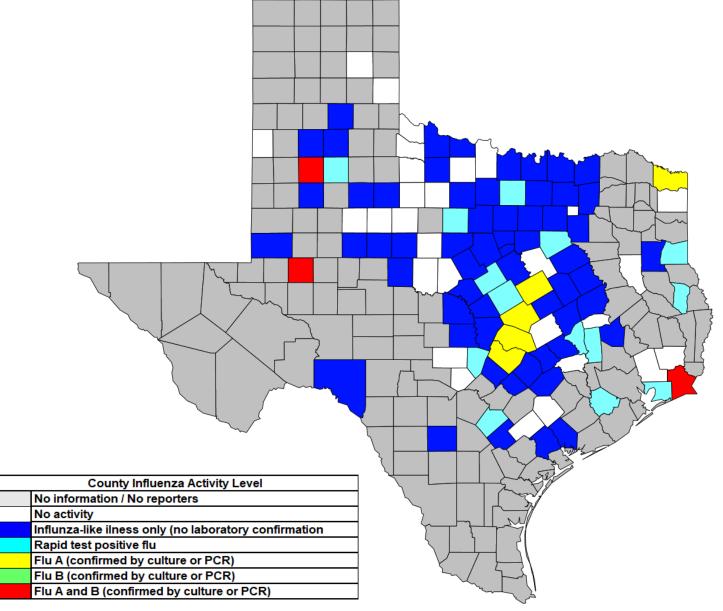
^{*}Total count of typed cases may be adjusted as lab testing and case investigations are completed.

^{**} If the cell count is less than 10, the number of P&I deaths is suppressed and <10 is written in the cell.

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Statewide Influenza Activity Map

Figure 5: Texas Map Displaying the Highest Level of Influenza or ILI Activity Reported by County for the Week Ending July 22, 2023 (MMWR Week 29)



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 II INet

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. https://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/