

Surveillance

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Influenza

(Flu)

ICD-9 487; ICD-10 J10,11

 Related Topics: [Protecting Yourself During the Cold and Flu Season](#), [Avian Flu](#), [Vaccine Preventable Diseases](#) and [SARS](#)

2007 - 2008 Texas Influenza Surveillance Information

Influenza Surveillance Report for MMWR Week 4


The influenza (flu) activity level for Texas for the week ending January 26, 2008 is "widespread." Widespread activity indicates that at least half of the regions in the state are experiencing an increase in influenza-like illness (ILI) and have recent culture-confirmed influenza.

Reports from Health Service Regions

Reports were received from all 11 Health Service Regions (HSRs) for week 4. All regions except HSRs 2/3 and 9/10 reported an increase in flu activity from the previous week. For a map of Health Service Regions, please visit the following website:

<http://www.dshs.state.tx.us/regions/state.shtm>

Laboratory Results

During week 4, two hospital laboratories in Texas reported conducting a total of 346 influenza tests (antigen, culture, and PCR) to the National Respiratory and Enteric Virus Surveillance System (NREVSS ) sponsored by the Centers for Disease Control and Prevention (CDC). Forty-eight antigen detection tests positive for influenza A/not subtyped and three antigen detection tests positive for influenza B were reported from Bell and Lubbock counties. Three PCR tests positive for influenza A/not subtyped were reported from patients residing in Bell, Milam, and Williamson counties. One PCR test positive for influenza B was reported from Bell County. Additional PCR tests positive for influenza A/not subtyped and influenza B were reported from Tarrant County. The Air Force Institute for Operational Health (AFIOH) reported 23 cultures positive for influenza A/not subtyped, 9 cultures positive for influenza A/H3, and 3 cultures positive for influenza B from Texas Air Force bases in week 4. A total of 170 reports of culture-confirmed influenza were received from NREVSS, the Texas Department of State Health Services (DSHS) Laboratory, Scott and White Hospital Laboratory, Texas Children's Hospital Laboratory, AFIOH, and other sources for the following counties:

Influenza A/H1	Influenza A/H3	Influenza A/not subtyped	Influenza B
Bexar County	Bexar County (11)	Bastrop County	Bell County
Dallas County	Collin County	Bell County (13)	Bexar County (4)
Moore County	Hall County	Bexar County (11)	Dallas County
Swisher County	Jefferson County	Bosque County	Harris County (2)
Travis County (4)	Matagorda County (2)	Brazos County (11)	Jim Wells County
Webb County (3)	Tarrant County	Burleson County (3)	McLennan County (2)
	Travis County (10)	Coryell County (3)	Travis County (2)
		Falls County	Webb County (2)
		Harris County (38)	
		Kerr County (2)	

Lampasas County (2)
 Madison County
 McLennan County (11)
 Milam County
 Waller County
 Wichita County (13)
 Williamson County (4)

Additional positive results from point-of-care rapid flu tests were reported by providers throughout the state (see Texas map below).

Antigenic Characterization

CDC has reported antigenic characterization results from 33 influenza isolates [7 influenza A/H1, 23 influenza A/H3, and 3 influenza B viruses] received from the DSHS Laboratory since the beginning of the 2007–08 flu season.

Influenza A/H1 [7]

- Seven (100%) of the seven viruses were characterized as A/Solomon Islands/3/2006, the influenza A/H1 component of the 2007–08 influenza vaccine for the Northern Hemisphere.

Influenza A/H3 [23]

- Two (9%) of the 23 viruses were characterized as A/Wisconsin/67/2005–like, the influenza A/H3 component of the 2007–08 influenza vaccine for the Northern Hemisphere.
- Twenty-one (91%) of the 23 viruses were characterized as A/Brisbane/10/2007–like. A/Brisbane/10/2007 is a recent antigenic variant which evolved from A/Wisconsin/67/2005–like.

Influenza B (B/Victoria/02/87 and B/Yamagata/16/88 lineages) [3]

Victoria lineage [0]

- The influenza B component for the 2007–08 influenza vaccine is a B/Malaysia/2506/2004–like virus, belonging to the B/Victoria lineage.

Yamagata lineage [3]

- Three (100%) of the three viruses were identified as belonging to the B/Yamagata lineage of viruses.

These results are very similar to national antigenic characterization results. The national results may be found in the CDC weekly flu report at <http://www.cdc.gov/flu/weekly/>. It is too early in the season to tell how well circulating strains will match the vaccine strains, or which influenza viruses will predominate this season. The DSHS Laboratory sends a representative sample of influenza viruses to the CDC throughout the flu season.

Influenza–Associated Pediatric Mortality

No new influenza–associated pediatric deaths were reported in week 4. To date, Texas has reported two influenza–associated pediatric deaths in the 2007–08 influenza season.

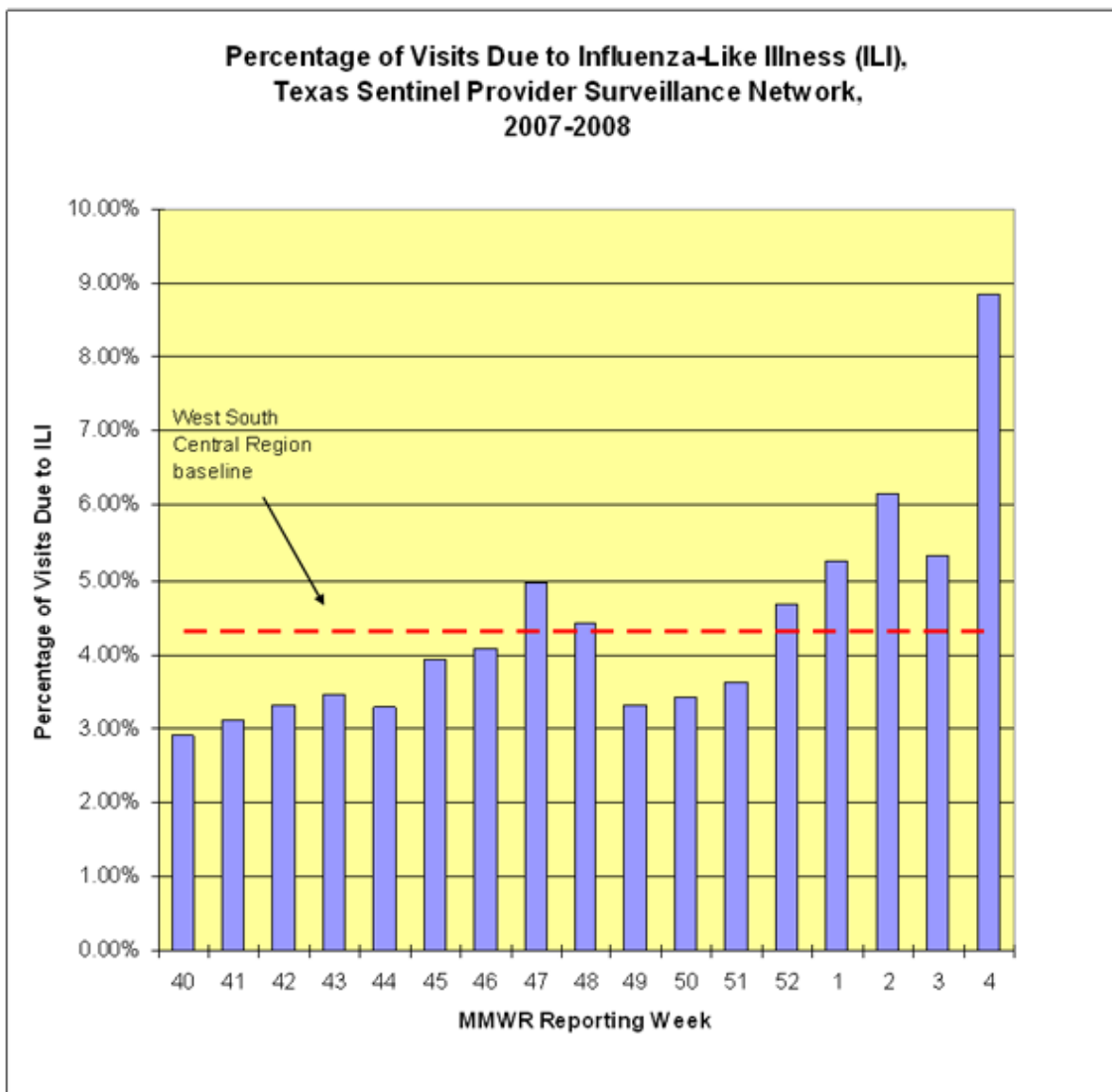
School Closures and Institutional Outbreaks

One school closure due to increased influenza–like illness was reported in Floyd County in week 4. No institutional outbreaks were reported.

Sentinel Provider Surveillance Network

Seventy-one sentinel providers reported data to the U.S. Influenza Sentinel Provider Surveillance System (SPSN) on patients with influenza–like illness (ILI) and total patients seen for any reason during week 4; of those, 60 (84.5%) providers reported seeing at least one patient with ILI. Of all patient visits during this week, 8.85% were due to ILI. The ILI baseline for the West South Central Region (Arkansas, Louisiana, Oklahoma, and Texas) of the United States is 4.3% for the 2007–2008 season. The baseline is the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons plus two standard deviations.

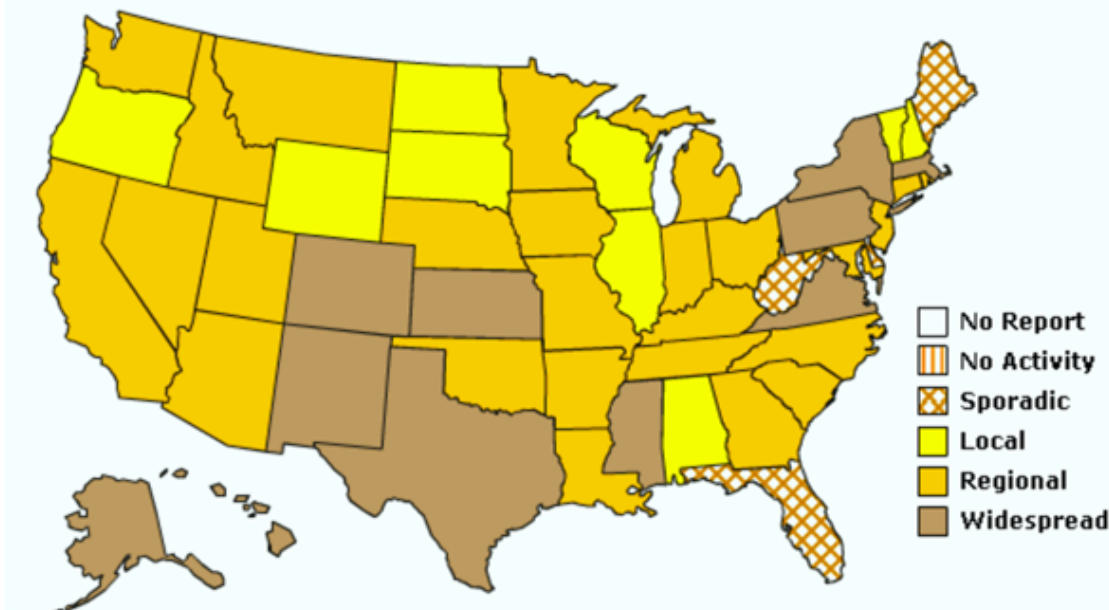
Percentage of Influenza-Like Illness (ILI) Reported by Sentinel Providers in Texas as of (2/3/2008 5:45:36 PM)								
Week	# Reporting	Age 0-4	Age 5-24	Age 25-64	Age over 64	Total ILI	Total Patients	% ILI
2007-40	84	256	163	151	49	619	21410	2.89
2007-41	88	264	255	207	58	784	25255	3.10
2007-42	86	274	270	261	50	855	25776	3.32
2007-43	85	368	290	208	47	913	26428	3.45
2007-44	95	391	276	206	55	928	28213	3.29
2007-45	87	411	314	243	39	1007	25665	3.92
2007-46	79	420	299	215	65	999	24540	4.07
2007-47	91	470	308	272	73	1123	22659	4.96
2007-48	84	490	287	299	74	1150	25970	4.43
2007-49	84	221	282	162	16	681	20577	3.31
2007-50	80	241	253	128	16	638	18574	3.43
2007-51	68	158	191	186	26	561	15497	3.62
2007-52	77	169	198	191	22	580	12393	4.68
2008-01	89	212	297	332	25	866	16476	5.26
2008-02	94	364	468	621	117	1570	25438	6.17
2008-03	76	271	475	353	32	1130	21202	5.33
2008-04	71	310	760	634	52	1756	19853	8.85



National Influenza Activity Map

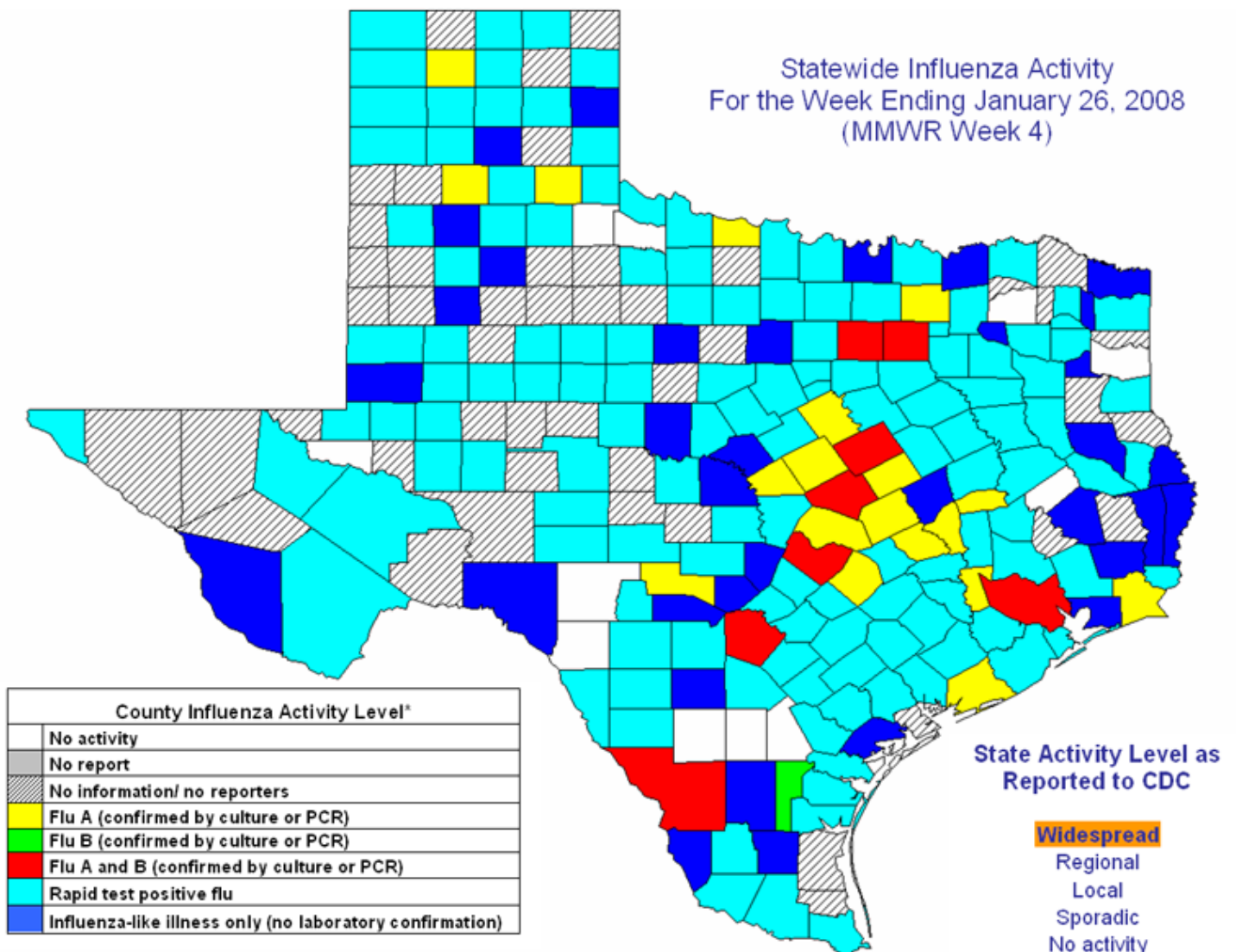
The map showing influenza activity in the United States for MMWR week 4 is displayed below. The current U.S. flu weekly report may be found [here](#).

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*
Week Ending January 26, 2008- Week 4**



For more information on flu surveillance activities in the State of Texas, please visit our main [surveillance page](#).

**Statewide Influenza Activity
For the Week Ending January 26, 2008
(MMWR Week 4)**



*Influenza activity level corresponds to current MMWR week only and does not reflect previous weeks' activity.

Last Updated: Monday, February 04, 2008

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