

## Surveillance

[En Español](#)


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 10

The influenza (flu) activity level for Texas for the week ending March 8, 2008 was "widespread." During week 10, 413 (20.1%) specimens tested by NREVSS laboratories in Texas were positive for influenza. Of all specimens positive for influenza, 279 (67.6%) were positive for influenza B. The percentage of visits due to influenza-like illness (ILI) as reported by SPSN providers in Texas was elevated. Flu activity in Texas in week 10 continued to decrease in most regions.

#### Reports from Health Service Regions

Reports were received from all 11 Health Service Regions (HSRs) for week 10. HSR 11 reported increased flu activity compared to week 9. HSR 6/5S reported the same level of flu activity as week 9. All other regions reported a decrease in flu activity compared to week 9. 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 10, twelve hospital laboratories and public health agencies across Texas reported conducting a total of 2,050 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). Of the 1,934 antigen detection tests performed, 124 were positive for influenza A/not subtyped and 257 were positive for influenza B. These results were reported from Bell, Bexar, Collin, Harris, Lubbock, Nueces, Tarrant, and Webb counties. Positive PCR results for influenza A/not subtyped and influenza B were reported from Tarrant County. A total of 64 reports of culture-confirmed influenza were received from the Texas Department of State Health Services (DSHS) Laboratory, Scott and White Hospital Laboratory, Texas Children's Hospital Laboratory, NREVSS, and other sources for the following counties:

Influenza A/H1	Influenza A/H3	Influenza A/not subtyped	Influenza B
(None)	Dallas County	Bell County	Bell County (4)
	El Paso County	Bexar County (8)	Bexar County (17)
		Grimes County	Harris County (14)
		Harris County	Lampasas County
		McLennan County (7)	Limestone County
			McLennan County (4)
			Milam County
			Travis County
			Williamson County

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 34 influenza isolates [7 influenza A/H1, 24 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 [24]

- Two (8%) of the 24 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 (88%) of the 24 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.
- One (4%) of the 24 viruses showed somewhat reduced titers with antisera produced against A/Wisconsin/67/2005 and A/Brisbane/10/2007.

### 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/>. The DSHS Laboratory sends a representative sample of influenza viruses to the CDC throughout the flu season.

## Influenza–Associated Pediatric Mortality

No influenza–associated pediatric fatalities occurred during MMWR week 10. As of week 10, Texas has reported five influenza-associated pediatric deaths in the 2007–08 influenza season.

## School Closures and Institutional Outbreaks

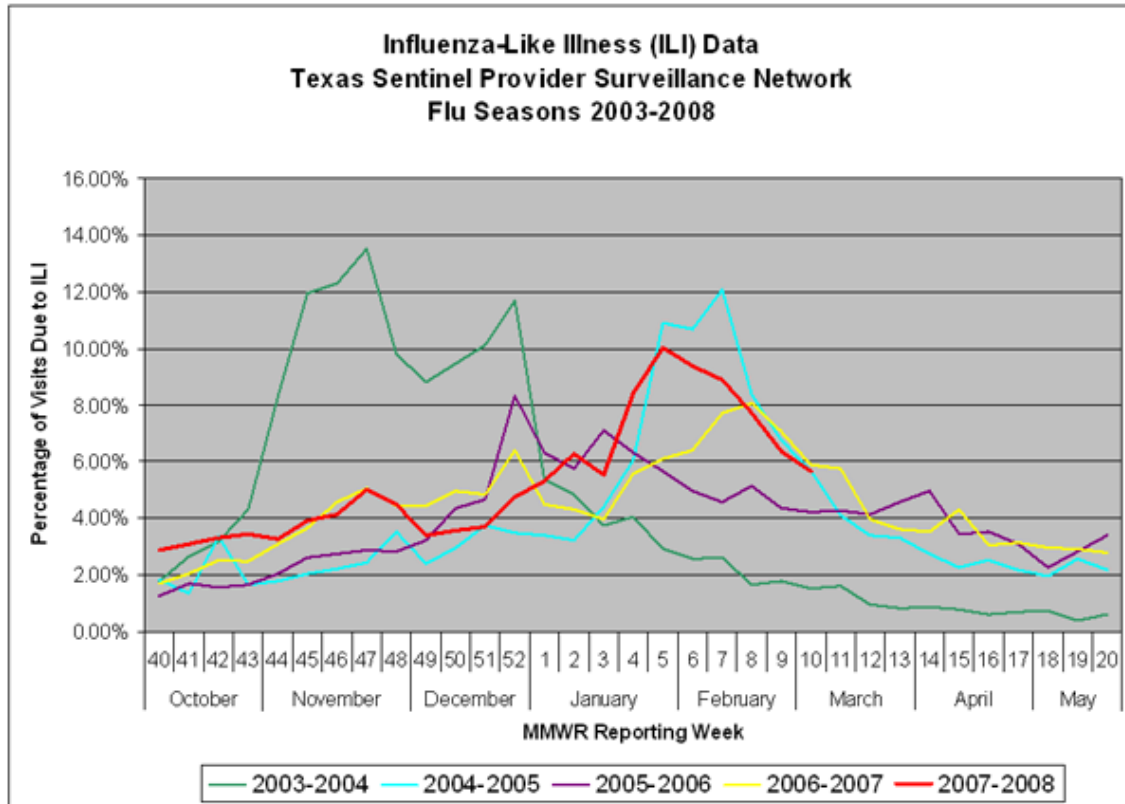
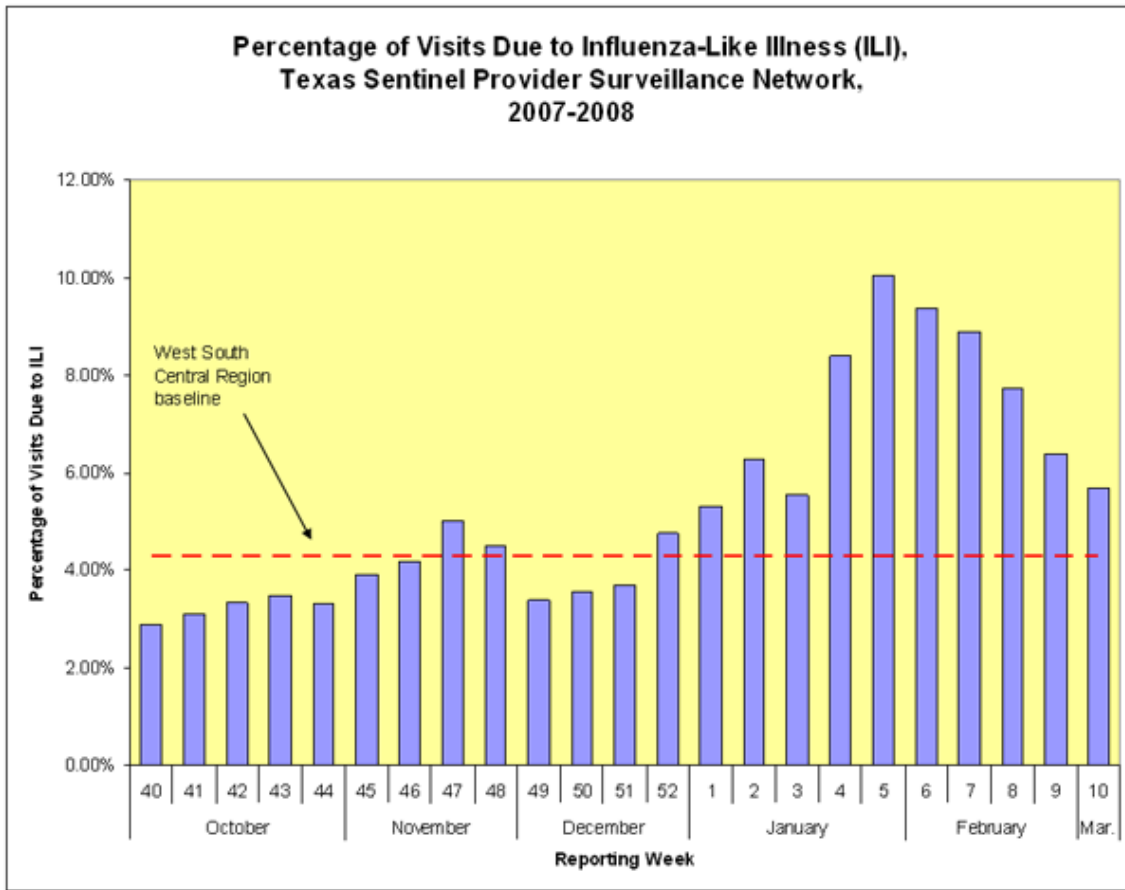
No school closures or institutional outbreaks were reported in week 10.

## Sentinel Provider Surveillance Network

Seventy sentinel providers in Texas 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 10. Sixty (86%) of those providers saw at least one patient with ILI. Of all patient visits during this week, 5.68% 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.

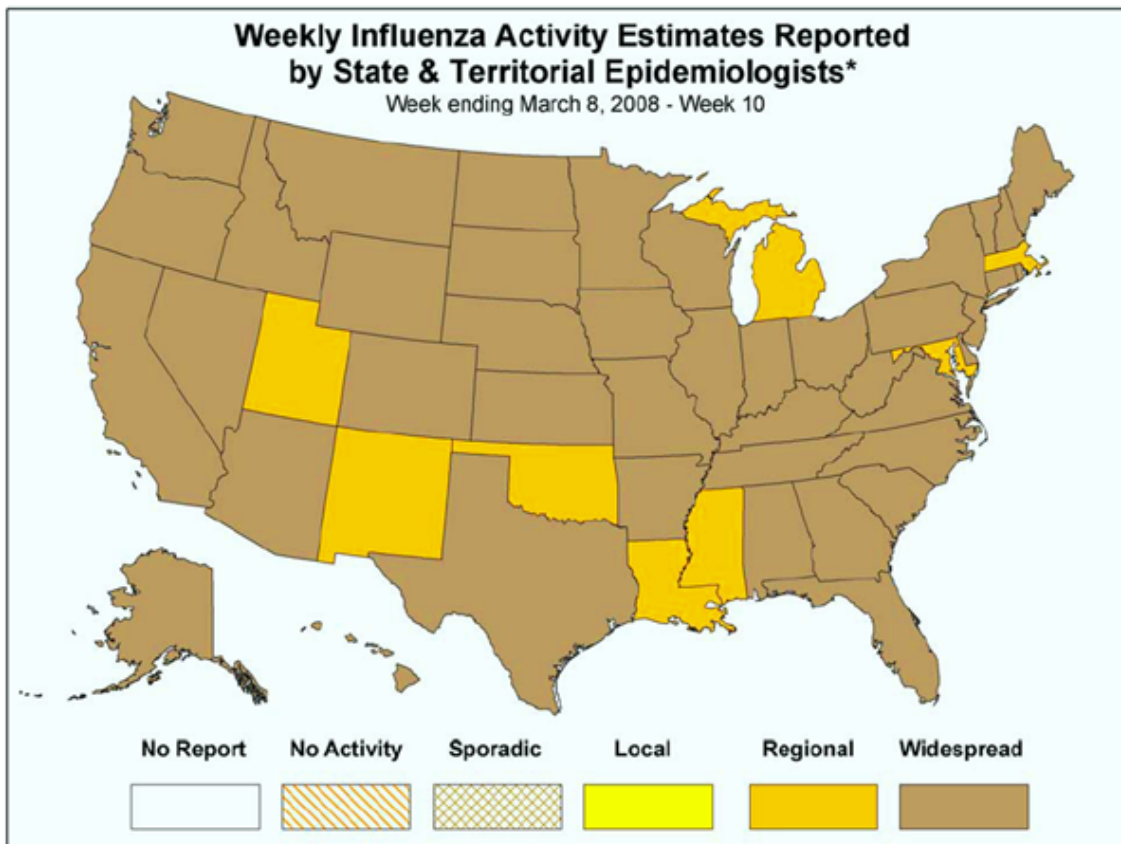
Percentage of Influenza–Like Illness (ILI) Reported by Sentinel Providers in Texas as of (3/17/2008 11:13:45 AM)								
Week	# Reporting	Age 0-4	Age 5-24	Age 25-64	Age over 64	Total ILI	Total Patients	% ILI
2007-40	84	256	163	151	49	619	21410	2.89
2007-41	88	264	255	207	58	784	25255	3.10

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	442	306	215	65	1028	24713	4.16
2007-47	91	478	317	272	73	1140	22748	5.01
2007-48	84	506	298	299	74	1177	26193	4.49
2007-49	84	232	290	162	16	700	20713	3.38
2007-50	80	256	265	128	16	665	18711	3.55
2007-51	68	169	197	186	26	578	15597	3.71
2007-52	77	176	201	191	22	590	12436	4.74
2008-01	90	217	302	332	29	880	16520	5.33
2008-02	97	373	500	630	117	1620	25891	6.26
2008-03	81	289	518	370	36	1213	21940	5.53
2008-04	87	369	886	650	54	1959	23306	8.41
2008-05	96	601	1208	954	158	2921	29106	10.04
2008-06	96	557	1128	951	112	2748	28337	9.37
2008-07	98	527	1031	786	124	2468	27722	8.90
2008-08	97	422	785	747	89	2043	26431	7.73
2008-09	87	404	544	640	81	1669	26138	6.39
2008-10	70	295	380	437	70	1182	20825	5.68



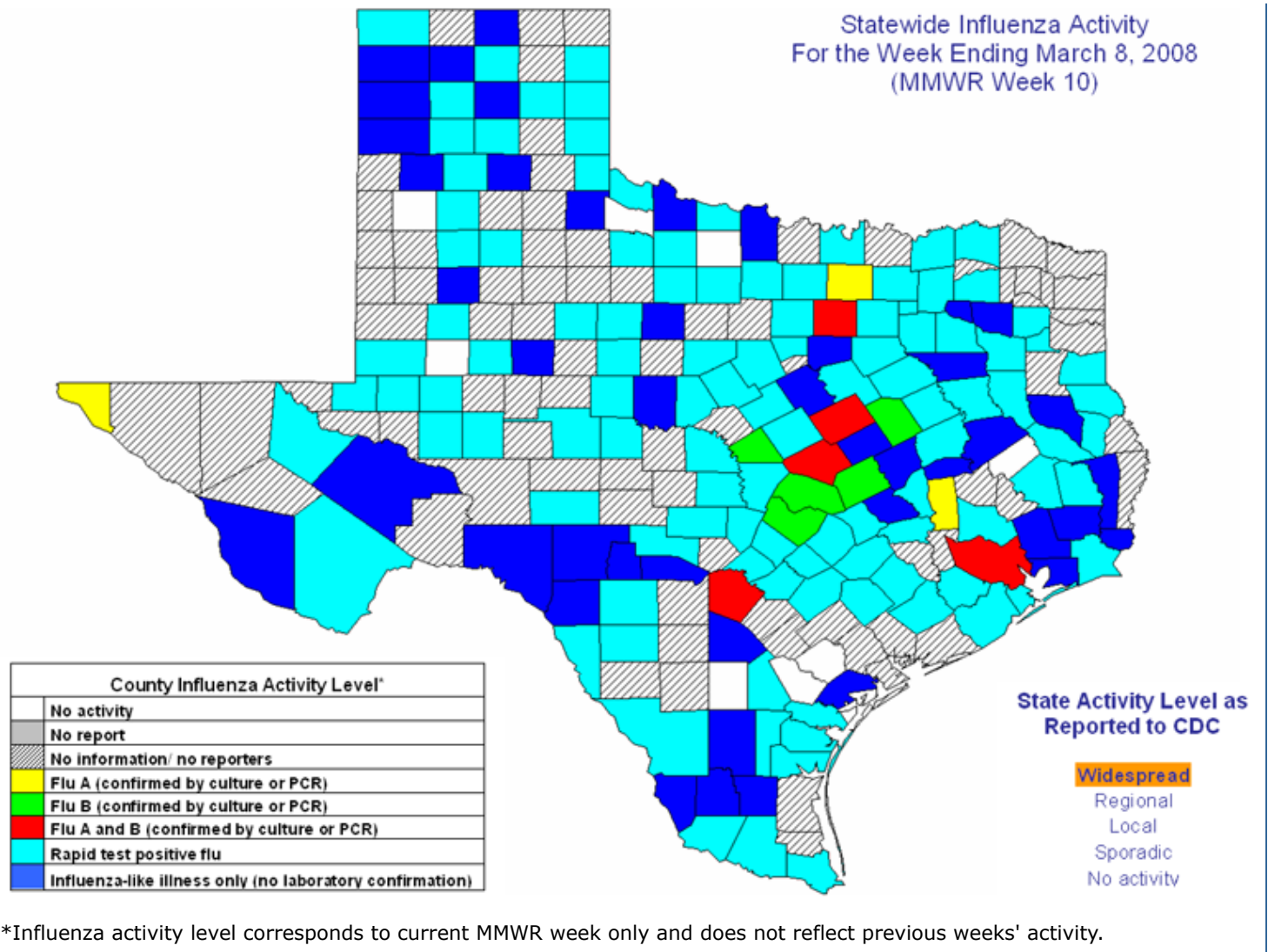
## National Influenza Activity Map

The map showing influenza activity in the United States for MMWR week 10 is displayed below. The current U.S. flu weekly report may be found [here](#).



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 March 8, 2008  
(MMWR Week 10)



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

*Last Updated: Monday, March 17, 2008*

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