



Surveillance

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Influenza  
(Flu)

ICD-9 487; ICD-10 J10,11

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**2008 - 2009 Texas Influenza Surveillance Information**

**[Current Flu Activity Report in PDF Format](#)**

**Influenza Surveillance Report for MMWR Week 28**

The influenza (flu) activity level for Texas for the week ending July 18, 2009 was "local." During week 28, 38 (13.8%) specimens tested by NREVSS laboratories in Texas were positive for influenza. The percentage of visits for influenza-like illness as reported by ILINet providers in Texas was below the regional baseline.

**Reports from Health Service Regions**

Reports were received from all Health Service Regions (HSRs) for week 28. HSRs 1, 8, 9/10, and 11 reported the same level of flu activity compared to week 27. HSRs 4/5N, 6/5S, and 7 reported a decreased level of flu activity compared to week 27. The level of flu activity compared to week 27 could not be determined for HSR 2/3. For a map of Health Service Regions, please visit the following website: [www.dshs.state.tx.us/regions/state.shtm](http://www.dshs.state.tx.us/regions/state.shtm)

**Laboratory Results**

During week 28, 10 hospital laboratories and public health agencies across Texas reported conducting a total of 276 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 276 antigen detection tests that were performed, 38 were positive for influenza A/not subtyped. The positive results were reported from Bexar, Brazos, Collin, Colorado, Harris, Nueces, and Tarrant counties.

A total of 8 reports of PCR- or culture-confirmed seasonal or unsubtyped influenza were received from public health laboratories, Scott & White Memorial Hospital in Temple, the United States Air Force School of Aerospace Medicine (USAFSAM), and other sources for the following counties during week 28 (July 12-July 18):

Influenza A/H1 (seasonal)	Influenza A/H3	Influenza A/not subtyped	Influenza B
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(none)	(none)	El Paso County (2)	(none)
		Galveston County (3)	
		McLennan County	
		Montgomery County	
		Wichita County	

Positive point-of-care rapid tests for influenza were reported by providers throughout the state (see county map below).

**Novel Influenza A Virus Infections**

Case investigations are ongoing, and the number of confirmed cases changes frequently. Please see the DSHS website ([www.dshs.state.tx.us/swineflu/default.shtm](http://www.dshs.state.tx.us/swineflu/default.shtm)) and the CDC website (<http://www.cdc.gov/h1n1flu/>) for more information on the current investigation.

**Antigenic Characterization**

CDC has reported antigenic characterization results from 51 seasonal influenza isolates [20 influenza A/H1, 8 influenza A/H3, and 23 influenza B viruses] and 3 novel influenza A H1N1 viruses received from the DSHS Laboratory since the beginning of the 2008–09 flu season. Influenza A/H1 [20]

- All 20 viruses were characterized as A/Brisbane/59/2007, the influenza A/H1 component of the 2008–09 influenza vaccine for the Northern Hemisphere.

Influenza A/H3 [8]

- All 8 viruses were characterized as A/Brisbane/10/2007, the influenza A/H3 component of the 2008-09 influenza vaccine for the Northern Hemisphere.

Influenza B (B/Victoria/02/87 and B/Yamagata/16/88 lineages) [23]

Victoria lineage [16]

- Sixteen of the influenza B viruses were characterized as belonging to the B/Victoria lineage.

Yamagata lineage [7]

- Seven viruses were characterized as B/Florida/4/2006, the influenza B component for the 2008-09 influenza vaccine for the Northern Hemisphere.

Novel influenza A/H1 [3]

- All 3 viruses were characterized as A/California/07/2009-like (H1N1), the reference virus selected by WHO as a candidate for the novel influenza A H1N1 vaccine.

**Antiviral Resistance**

Since September 28, 2008, 22 seasonal influenza A/H1 isolates, 7 influenza A/H3 isolates, 22 influenza B isolates, and 3 novel influenza A H1N1 isolates from the DSHS laboratory have been tested by CDC for antiviral resistance.

Flu Types/Subtypes	Isolates Tested (n)	Resistant Viruses, Number (%)		Isolates Tested (n)	Resistant Viruses, Number (%)
		Oseltamivir	Zanamivir		
Influenza A/H1 (seasonal)	22	22 (100%)	0 (0)	22	0 (0)
Influenza A/H3	7	0 (0)	0 (0)	7	7 (100%)
Influenza B	22	0 (0)	0 (0)	N/A*	N/A*
Influenza A/H1 (novel)	3	0 (0)	0 (0)	3	3 (100%)

\*Adamantanes are not effective against influenza B viruses.

CDC has issued interim recommendations for use of antiviral medications in the 2008-09 influenza season. Those recommendations are available at:

<http://www.cdc.gov/flu/professionals/antivirals/index.htm>.

### Influenza-Associated Pediatric Mortality

No influenza-associated pediatric fatalities were reported during week 28. Texas has reported thirteen influenza-associated pediatric fatalities during the 2008-09 influenza season.

### School Closures and Institutional Outbreaks

One outbreak of flu and ILI in a camp in Polk County was reported during week 28. CDC has issued interim guidance for cases of novel influenza A H1N1 in summer camps. This guidance is available at <http://www.cdc.gov/h1n1flu/camp.htm>.

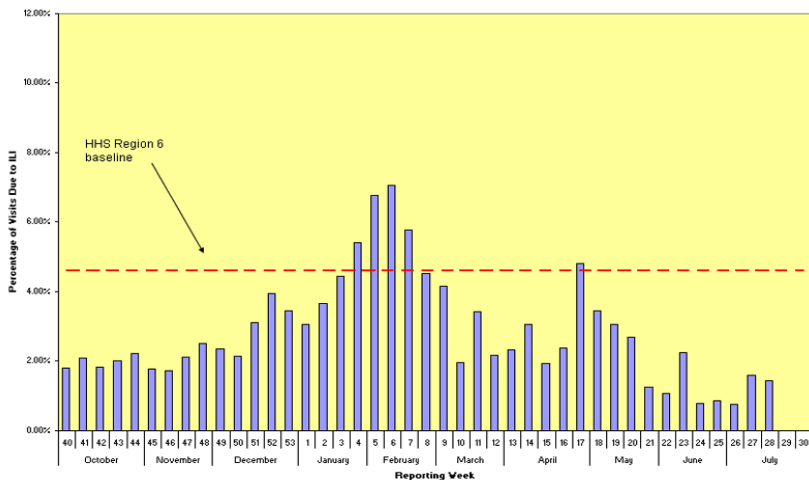
### U.S. Outpatient Influenza-like Illness Surveillance Network

Forty-eight providers in Texas reported data to the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) (formerly known as the U.S. Influenza Sentinel Provider Surveillance System) on patients with influenza-like illness (ILI) and total patients seen for any reason during week 28. Of the 47 providers who saw patients during week 28, 18 (38%) of the providers saw at least one patient with ILI. Of all patient visits during this week, 1.43% were due to ILI. The ILI baseline for HHS Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, and Texas) of the United States is 4.6% for the 2008-2009 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 Visits for Influenza-Like Illness Reported by the US Outpatient Influenza-Like Illness Surveillance Network (ILINet) in Texas as of 7/27/2009 5:59:59 PM								
Week	# Reporting	Age 0-4	Age 5-24	Age 25-64	Age over 64	Total ILI	Total Patients	% ILI
2008-40	78	84	133	127	22	366	20333	1.80
2008-41	78	114	163	124	19	420	20105	2.09
2008-42	79	107	156	90	7	360	19746	1.82
2008-43	80	120	152	106	20	398	19857	2.00
2008-44	82	136	199	104	26	465	20972	2.22
2008-45	79	110	111	122	27	370	20959	1.77
2008-46	74	110	107	103	23	343	19890	1.72
2008-47	76	137	143	122	19	421	19907	2.11
2008-48	80	132	132	125	37	426	17012	2.50
2008-49	78	143	159	153	24	479	20446	2.34
2008-50	76	133	146	108	28	415	19450	2.13
2008-51	70	172	177	175	24	548	17663	3.10
2008-52	77	194	153	154	34	535	13509	3.96
2008-53	78	176	141	165	46	528	15329	3.44
2009-01	79	162	182	188	38	570	18646	3.06
2009-02	78	178	287	235	41	741	20222	3.66
2009-03	79	174	468	341	43	1026	23058	4.45
2009-	79	260	679	333	47	1319	24350	5.42

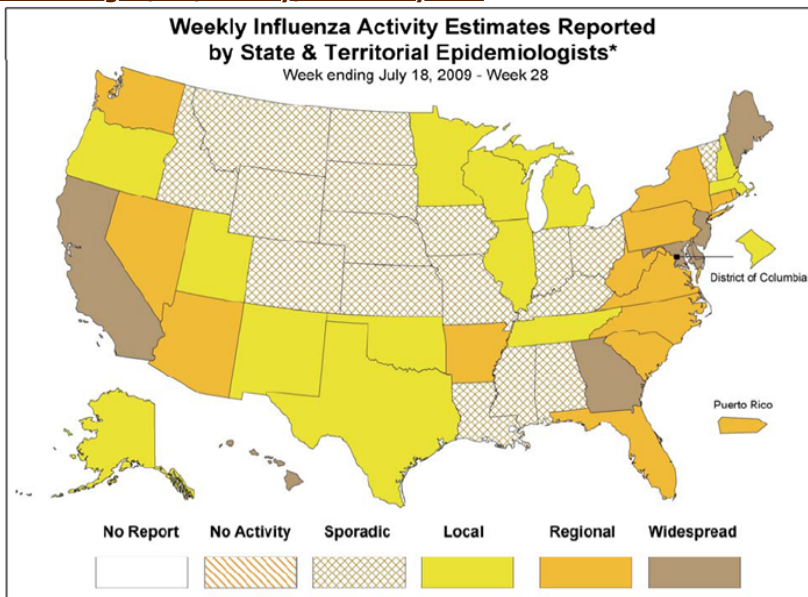
04								
2009-05	74	282	884	467	40	1673	24734	6.76
2009-06	80	301	965	392	59	1717	24320	7.06
2009-07	79	317	803	316	57	1493	25821	5.78
2009-08	74	221	552	283	57	1113	24664	4.51
2009-09	77	194	423	245	71	933	22428	4.16
2009-10	81	222	340	228	77	867	44281	1.96
2009-11	77	167	269	178	58	672	19656	3.42
2009-12	72	109	150	179	18	456	20910	2.18
2009-13	74	115	143	163	16	437	18760	2.33
2009-14	81	158	199	234	51	642	20963	3.06
2009-15	78	92	138	156	23	400	21254	1.92
2009-16	87	133	200	163	28	524	22058	2.38
2009-17	77	260	570	348	44	1222	25406	4.81
2009-18	72	200	361	185	31	777	22503	3.45
2009-19	65	125	253	183	24	585	19066	3.07
2009-20	63	122	255	134	7	518	19150	2.70
2009-21	65	115	238	115	31	499	39787	1.25
2009-22	61	109	202	97	23	431	40506	1.06
2009-23	53	79	103	29	9	220	9735	2.26
2009-24	52	67	134	88	5	294	37361	0.79
2009-25	57	72	117	83	15	287	33514	0.86
2009-26	57	68	110	77	13	268	35799	0.75
2009-27	49	71	84	71	15	241	15170	1.59
2009-28	48	34	93	76	15	218	15250	1.43

Percentage of Visits Due to Influenza-Like Illness (ILI),  
Texas Providers in the U.S. Outpatient Influenza-Like Illness Surveillance Network,  
2008-2009



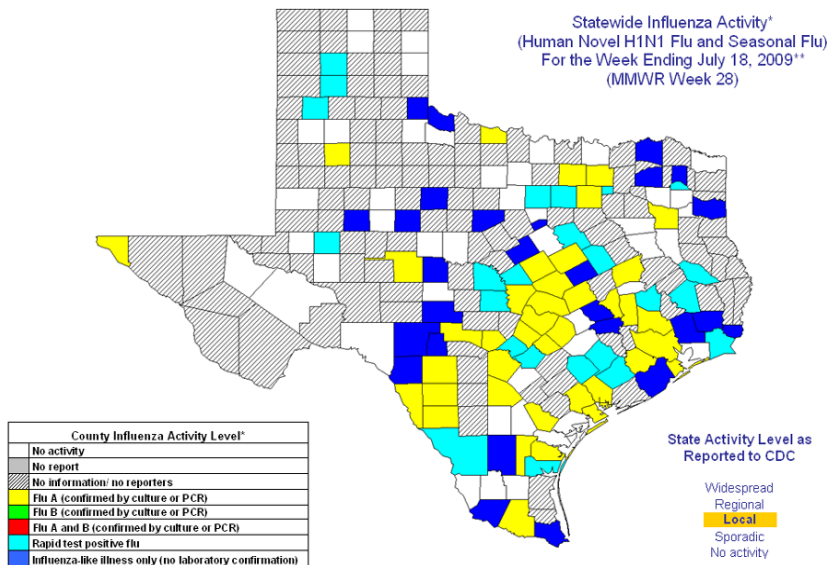
### National Influenza Activity Map

The current U.S. flu weekly report may be found at <http://www.cdc.gov/flu/weekly/fluactivity.htm>.



\*This map indicates geographic spread and does not measure the severity of influenza activity.

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



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

\*\*Positives are reported according to specimen collection date or date received in the lab, if the former is unknown

### 2008 - 2009 Texas Influenza Surveillance Information --- Flu Reports

For the week ending: **10/4/08; 10/11/08; 10/18/08; 10/25/08; 11/01/08; 11/08/08; 11/15/08; 11/22/08; 11/29/08; 12/06/08; 12/13/08; 12/20/08; 12/27/08; 01/03/09; 01/10/09; 01/17/09; 01/24/09; 01/31/09; 02/07/09; 02/14/09; 02/21/09; 02/28/09; 03/07/09; 03/14/09; 03/21/09; 03/28/09; 04/04/09; 04/11/09; 04/18/09; 04/25/09; 05/02/09; 05/09/09; 05/16/09; 05/23/09; 05/30/09; 06/06/09; 06/13/09; 06/20/09; 06/27/09; 07/04/09; 07/11/09; 07/18/09; 07/25/09; 08/01/09; 08/08/09; 08/15/09; 08/22/09; 08/29/09; 09/05/09; 09/12/09; 09/19/09; 09/26/09; 10/03/09**

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