



**Austin/Travis County Health and Human Services Department
Epidemiology and Health Statistics Unit**



Travis County Influenza Surveillance

Epidemiologic Overview:

- High levels of Influenza activity have been reported in Travis County, with the percentage of positive influenza tests by both rapid² and PCR⁷ testing from surveillance sites about 43.0% during MMWR week 1.
- Seasonal influenza B, H3N2, and H1N1 have been identified for laboratory specimens in Travis County in recent weeks.
- Rhinovirus, Adenovirus, and Parainfluenza have been identified for laboratory specimens in the Travis County area this season.

Figure 1. Influenza Surveillance, Travis County Providers^{1,2,4}

Week Ending	11/17/2012	11/24/2012	12/1/2012	12/8/2012	12/15/2012	12/22/2012	12/29/2012	1/5/2013
MMWR Week	46	47	48	49	50	51	52	1
# Influenza Rapid Tests Performed	291	412	504	1250	1773	1271	2155	2477
# Total Positive Influenza Tests	90	157	174	437	573	386	855	1066
% Positive Influenza Tests	30.9%	38.1%	34.5%	35.0%	32.3%	30.4%	39.7%	43.0%
# Positive A Influenza	21	42	48	216	184	142	414	605
# Positive B Influenza	53	97	109	165	313	165	396	459
# Non-Differentiated Influenza ³	16	18	17	56	76	79	45	2

Data source: Austin/Travis County Influenza surveillance reporters

For additional information about Influenza surveillance, contact:

The Austin/Travis County Health and Human Services Epidemiology and Health Statistics Unit at (512) 972-5555

Other Helpful Resources:

[Texas Department of State Health Services](#)

[Centers for Disease Control and Prevention](#)

[World Health Organization](#)

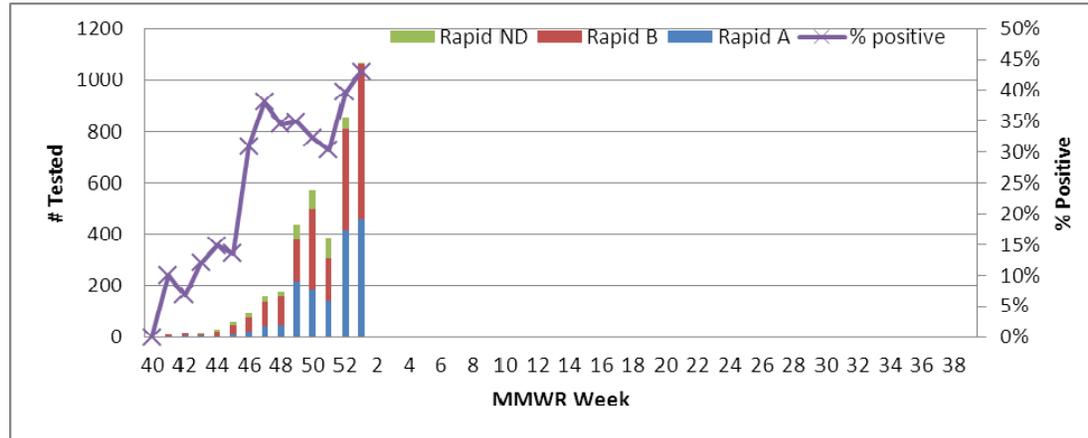
Austin/Travis County influenza surveillance does not attempt to capture all cases of influenza or influenza-like illness. These data should be used to for trending purposes over time and for identifying types/strains of influenza that are occurring in the Austin area rather than for estimating the total number of cases.



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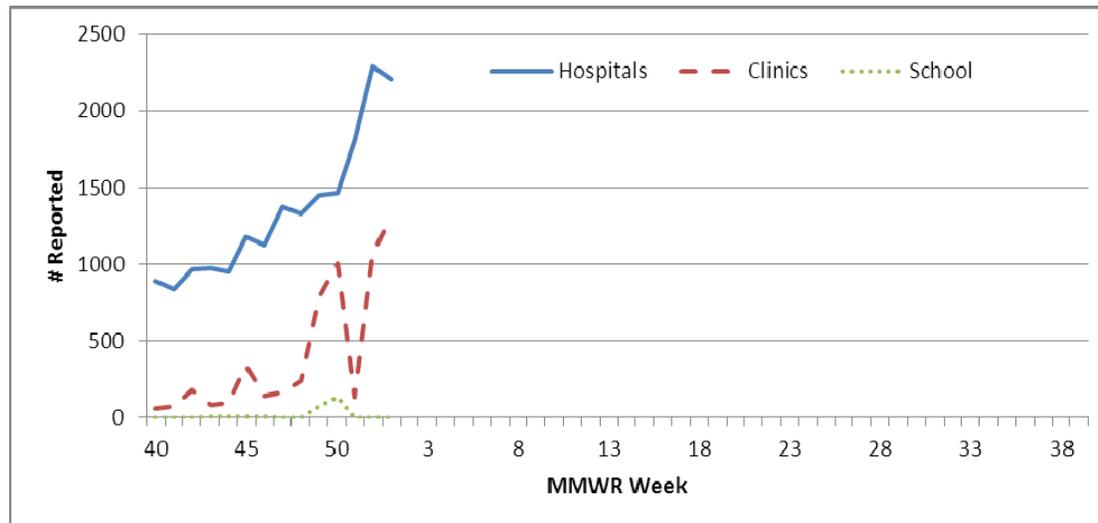


**Figure 2. Percent Positive Rapid Influenza Tests by Week,
Travis County: 2012-2013 Influenza Season^{1,2,3,4}**



Data source: Austin/Travis County Influenza surveillance reporters

**Figure 3. Percent Positive Rapid Influenza Tests by Week and Provider Type,
Travis County: 2012-2013 Influenza Season^{1,2,3,4}**



Data source: Austin/Travis County Influenza surveillance reporters

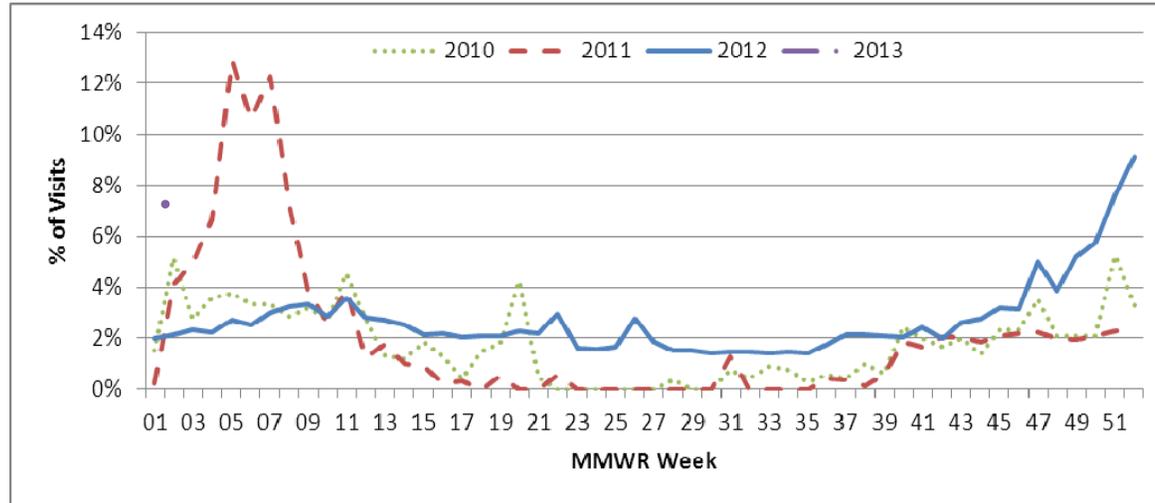
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Figure 4. Percentage of Visits Due to Influenza-like-Illness Reported by Travis County Participants in ILINet: 2009-2013⁵



Data source: CDC ILI.net system

Figure 5. Travis County Confirmed Influenza Test Results:^{6,7,11}

	1/14/2012 - 3/17/2012	3/18/2012 - 5/19/2012	05/20/2012 - 7/21/2012	07/22/2012 - 9/22/2012	09/23/2012 - 11/24/2012	11/25/2012 - 1/26/2013
MMWR Week	2-10	11-19	20-28	29-37	38-46	47-3*
Influenza A (Total Positive PCR Tests)	13	13	1	0	3	13
Subtype	Seasonal H1N1	7	13	0	0	0
	Season H3N2	6	0	1	0	3
	Not Subtyped	4	0	0	0	0
Influenza B (Total Positive PCR Tests)	5	4	1	0	4	21
PCR Negative Specimens	10	2	0	1	2	17

*Data incomplete

Datasource: Austin/Travis County Influenza surveillance reporters and the Department of State Health Services lab

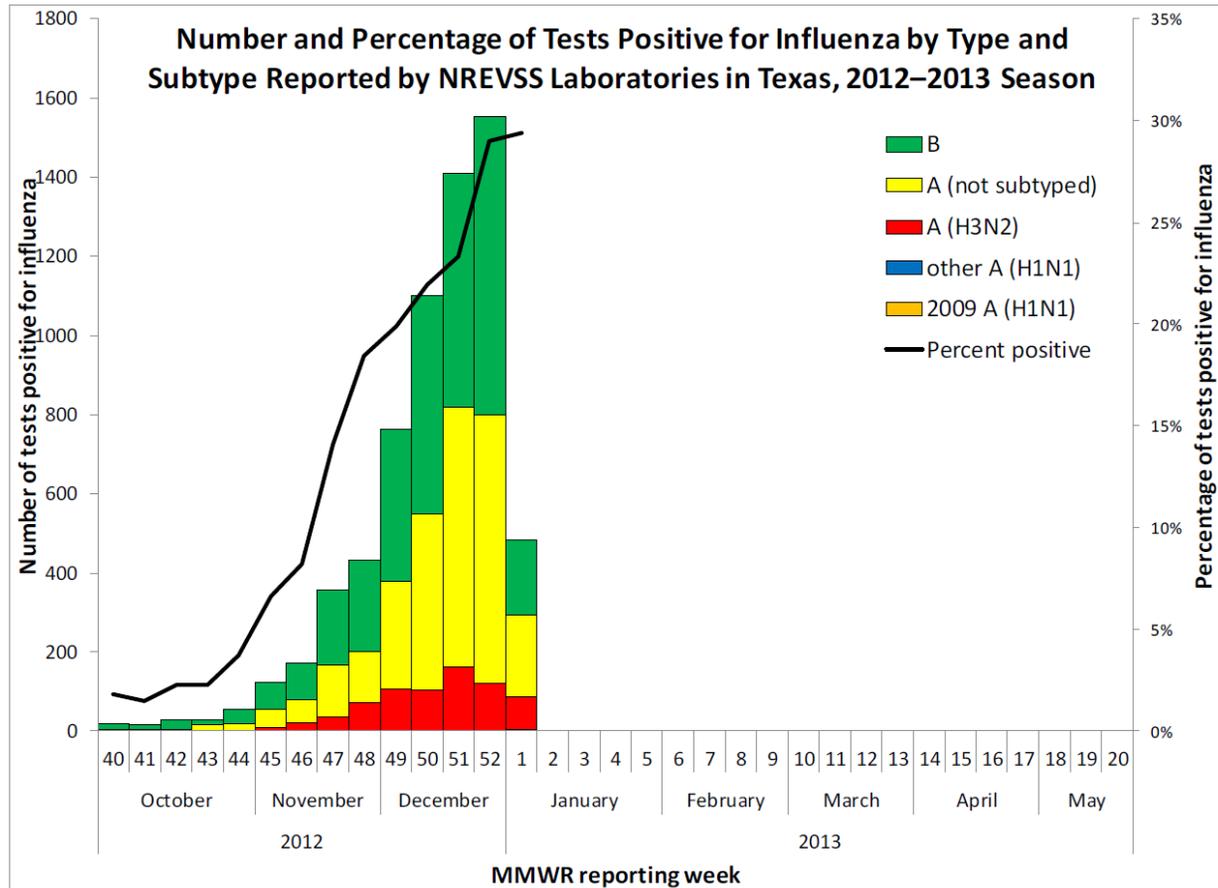
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Figure 6. DSHS NREVSS Laboratory Data



This chart was obtained from the Texas Influenza Surveillance Report <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2013/>

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Texas Antigenic Characterization Reported by DSHS Week 1:⁸

Since September 1, 2012, CDC has reported antigenic characterization results from one influenza A (H1N1) virus, nine influenza A (H3N2) viruses, and 13 influenza B viruses received from the Texas Department of State Health Services (DSHS) Laboratory.

Influenza A (H1N1) [1]

- One virus was related to A/California/07/2009. This virus strain was included in the 2012-2013 influenza vaccine for the Northern Hemisphere.

Influenza A (H3N2) [9]

- Nine viruses were related to A/Victoria/361/2011. This virus strain was included in the 2012-2013 influenza vaccine for the Northern Hemisphere.

Influenza B [13]

- Thirteen viruses were related to B/Wisconsin/01/2010 (B/Yamagata lineage). This influenza B lineage was included in the 2012-2013 influenza vaccine for the Northern Hemisphere.

The national antigenic characterization and antiviral resistance testing 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.

Texas Antiviral Resistance Reported by DSHS Week 1:⁸

No antiviral resistance results for Texas for the 2012-2013 season are available at this time.

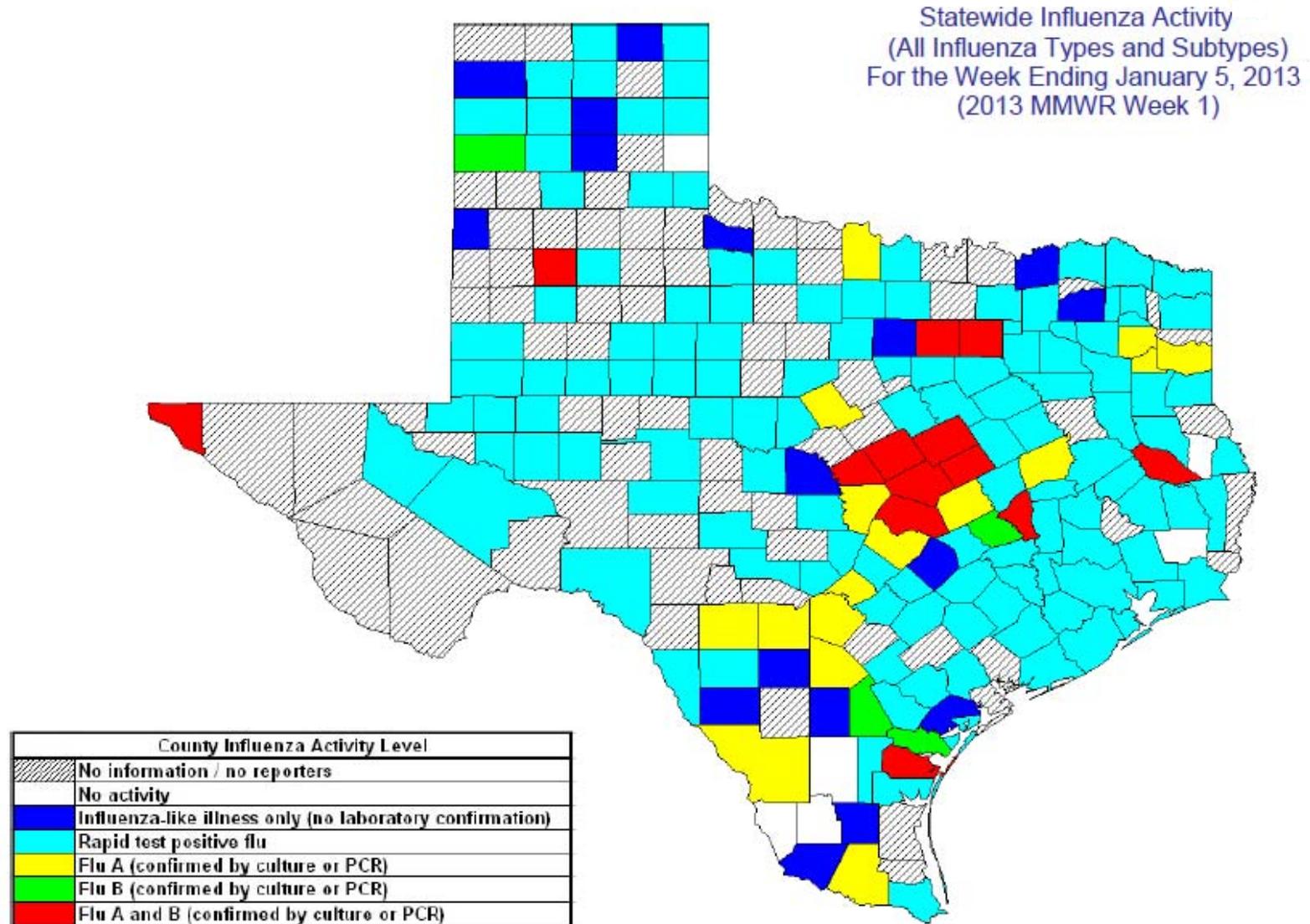
For more information on antiviral medications please see <http://www.cdc.gov/flu/professionals/antivirals/index.htm>.



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Figure 7. Statewide Influenza Activity^{9,10,11}



This chart was obtained from the Texas Influenza Surveillance Report <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2013/>

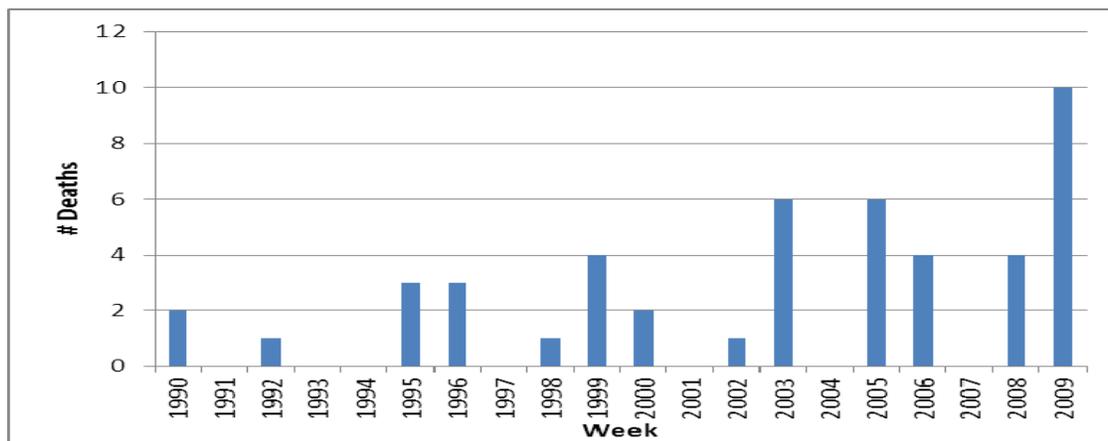
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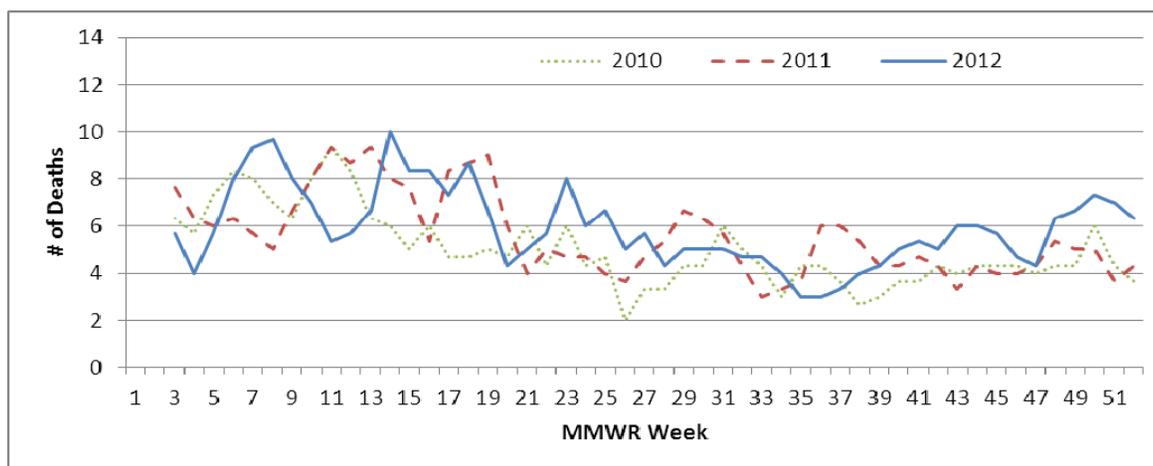


**Figure 8. Annual Influenza Related Mortality,
Travis County: 1990-2009**



Data source: Texas Department of State Health Services <http://soupfin.tdh.state.tx.us/deathdoc.htm>, data as of September 12, 2012

**Figure 9. 122 Cities Pneumonia and Influenza Mortality:
City of Austin 2010-2012**



Data source: Center for Disease Control and Prevention 122 Cities Mortality <http://wonder.cdc.gov/mmwr/mmwmort.asp>

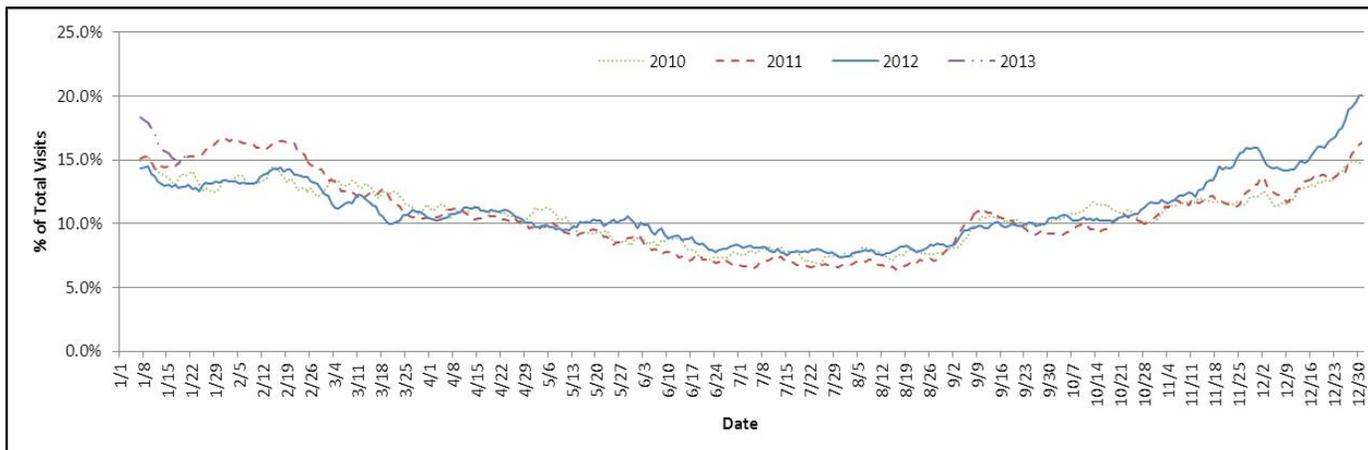
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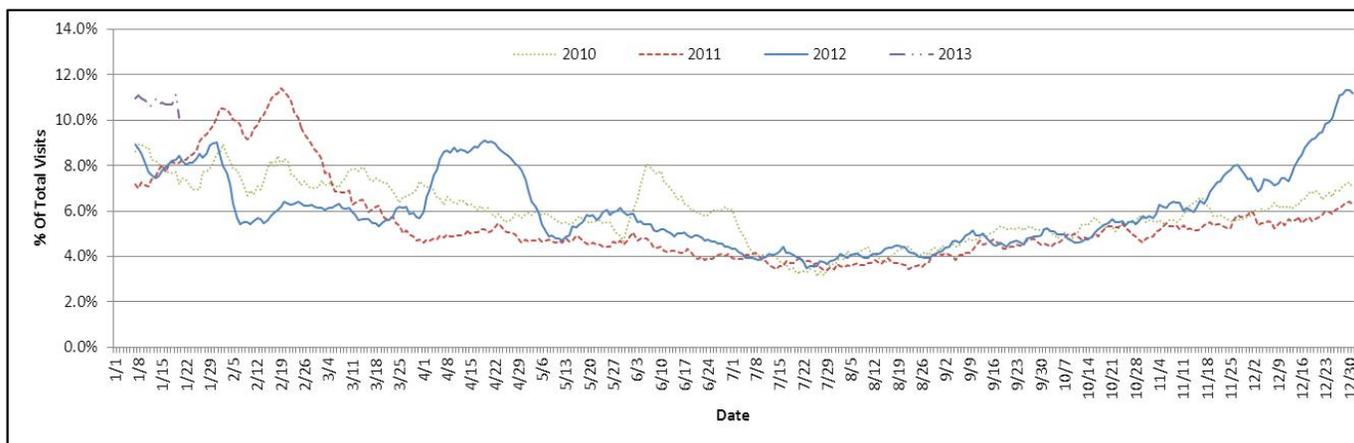


Figure 10. RODS Syndromic Surveillance for the Respiratory Prodrome Category, Travis County: 2010-2013



Data source: University of Pittsburgh Real-time Outbreak and Disease Surveillance System, data is an aggregation of Austin area chief complaint hospital data

Figure 11. RODS Syndromic Surveillance for Influenza-like-Illness, Travis County: 2010-2013



Data source: University of Pittsburgh Real-time Outbreak and Disease Surveillance System, data is an aggregation of Austin area chief complaint hospital data

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Figure 12. Other Respiratory Viruses Reported for Texas by DSHS Week 1

Virus	Number of Laboratories Testing	Tests Performed	Positive Tests	Percentage of Tests Positive
Adenovirus (respiratory)	4	438	4	0.91%
HMPV	3	324	3	0.93%
Parainfluenza virus	4	438	11	2.51%
Rhinovirus	2	314	48	15.29%
RSV	13	554	163	29.42%

This table was obtained from the Texas Influenza Surveillance Report <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2013/>

- 1 Influenza is not a reportable condition in Texas; therefore, data is provided by sentinel surveillance reporters and is only a sample of the influenza activity occurring in the Austin/Travis County area.
- 2 Data represent rapid influenza testing, these tests provide quick results reporting only influenza A or B (no subtyping). Early in flu seasons results should be used with caution due to false positive results which can occur, especially during times when influenza activity is low.
- 3 Non-Differentiated refers to rapid test results that do not differentiate between influenza A and B.
- 4 Influenza data is collected from a variety of reporters; the number of reporters can vary week to week.
- 5 Data for Austin/Travis County ILI reporters only; the number of reporters can vary week to week.
- 6 Influenza is confirmed via PCR testing and a further subtyping may be performed. PCR testing is performed for specimens referred by area influenza surveillance reporters.
- 7 PCR testing is performed for specimens referred by area sentinel influenza surveillance reporters. Providers interested in becoming sentinel providers may call the Austin/Travis County Health and Human Services Epidemiology and Health Statistics Unit at (512) 972-5555.
- 8 Antigenic characterization and antiviral resistance is obtained from the Texas Influenza Surveillance Report <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2013/>.
- 9 Influenza activity level corresponds to current MMWR week only and does not reflect previous weeks' activity.
- 10 The majority of influenza cases are not reportable by law to the Texas Department of State Health Services. This map contains data from sentinel sites and does not represent all influenza cases in the state.
- 11 Positive laboratory results are reported according to specimen collection date or date received in the lab if the former is unknown.