



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



Travis County Influenza Surveillance

Epidemiologic Overview:

- High levels of Influenza activity has been reported in Travis County, with the percentage of positive influenza tests by both rapid² and PCR⁷ testing from surveillance sites about 39.7% during week 52.
- Seasonal influenza B, H3N2, and H1N1 has been identified for laboratory specimens in Travis County in recent weeks.
- Rhinovirus, Adenovirus, and Parainfluenza, has been identified for laboratory specimens in the Travis County area this season.

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

Week Ending	11/10/2012	11/17/2012	11/24/2012	12/1/2012	12/8/2012	12/15/2012	12/22/2012	12/29/2012
MMWR Week	45	46	47	48	49	50	51	52
# Influenza Rapid Tests Performed	434	291	412	504	1250	1773	1271	2155
# Total Positive Influenza Tests	59	90	157	174	437	573	386	855
% Positive Influenza Tests	13.6%	30.9%	38.1%	34.5%	35.0%	32.3%	30.4%	39.7%
# Positive A Influenza	8	21	42	48	216	184	142	414
# Positive B Influenza	38	53	97	109	165	313	165	396
# Non-Differentiated Influenza ³	13	16	18	17	56	76	79	45
# Influenza-associated Deaths	0	0	0	0	0	0	0	0

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](#)

[Center of Disease Control and Prevention](#)

[World Health Organization](#)

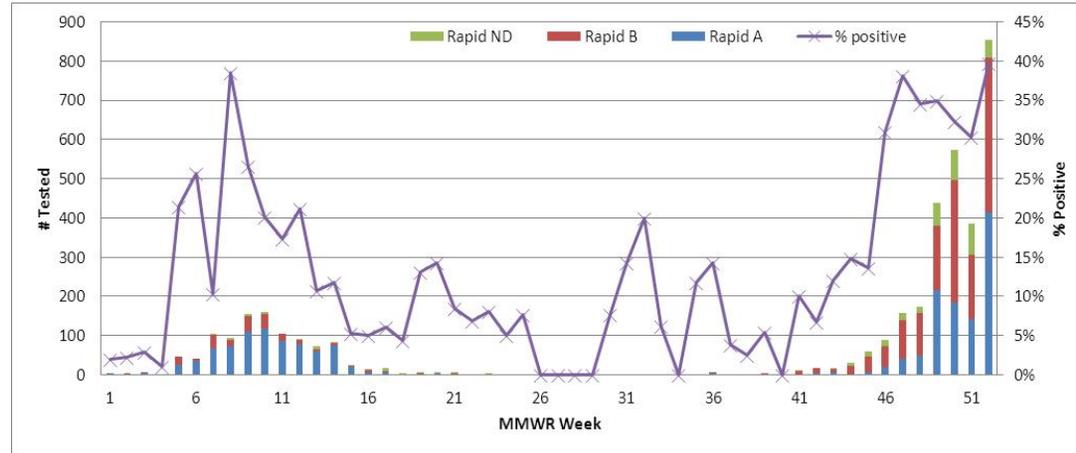
Austin/Travis County influenza surveillance does not attempt to capture all cases of influenza or influenza-like illness. These data should be used to for trending purposes over time and for identifying types/strains of influenza that are occurring the Austin area rather than for estimating the total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



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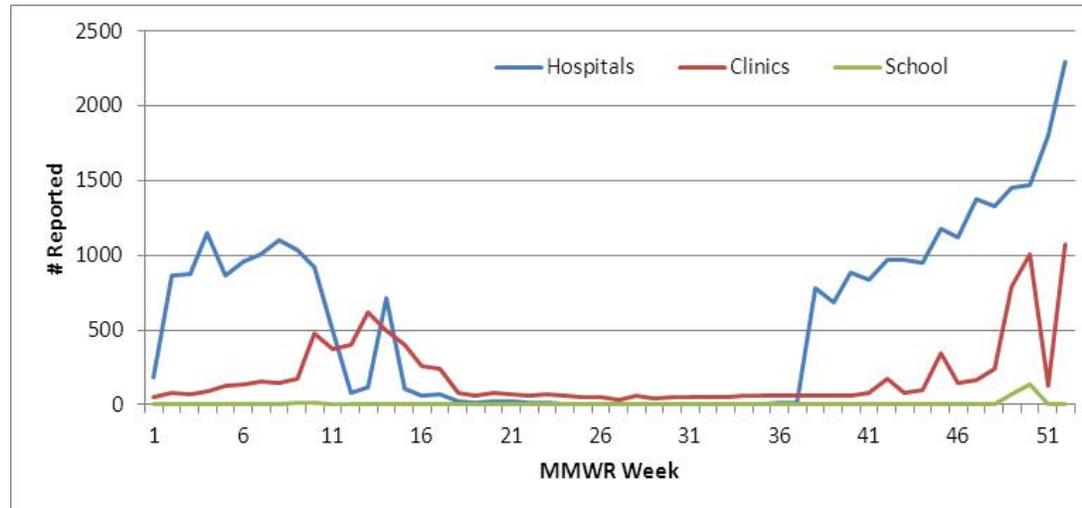


**Figure 2. Percent Positive Rapid Influenza Tests by Week,
Travis County: 2012-2013^{1,2,3,4}**



Data source: Austin/Travis County Influenza surveillance reporters.

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



Data source: Austin/Travis County Influenza surveillance reporters.

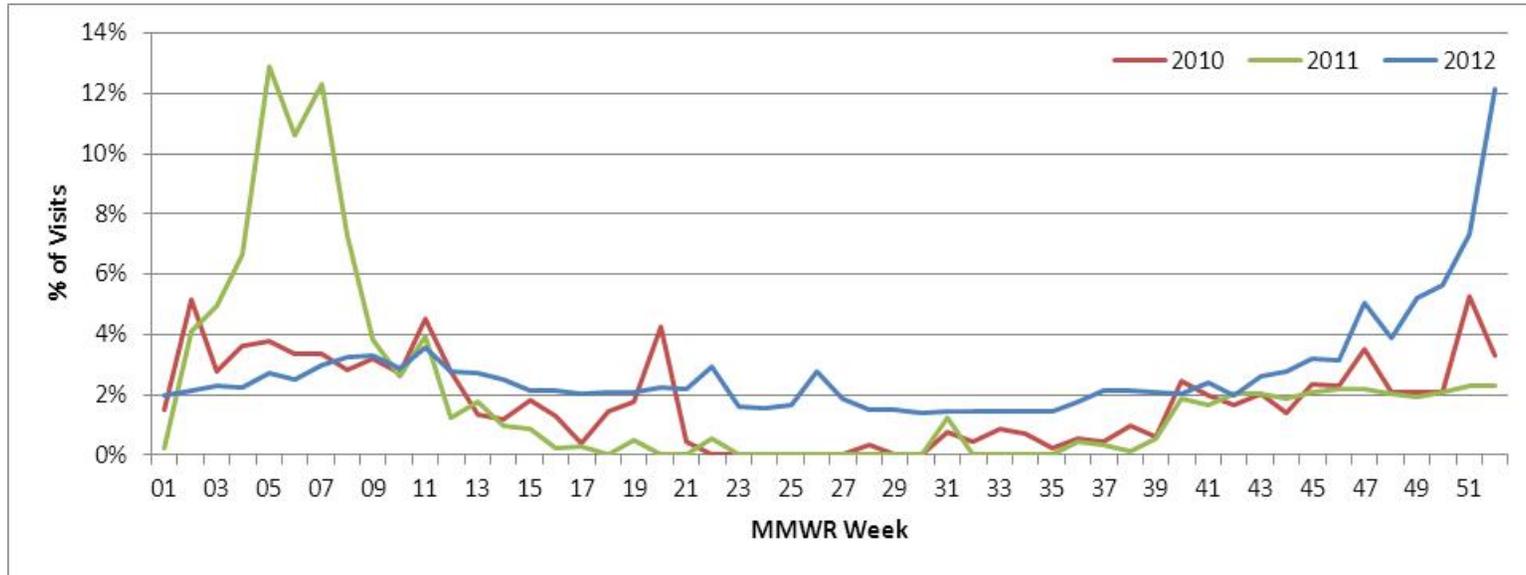
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Figure 4. Percentage of Visits Due to Influenza-like-Illness Reported by Travis County Participants in ILINet: 2009-2012⁵



Data source: CDC ILI.net system

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

	03/24/2012- 50/13/2012	05/19/2012- 7/15/2012	7/14/2012 - 8/25/2012	8/26/2012- 10/27/2012	10/28/2012- 12/29/2012
MMWR Week	12-19	20-27	28-34	35-43	44-52
Influenza A (Total Positive PCR Tests)	9	1	0	0	14
Subtype					
Seasonal H1N1	0	1	0	0	12
Seasonal H3	9	0	0	0	0
Not Subtyped	0	0	0	0	0
Influenza B (Total Positive PCR Tests)	4	1	0	0	16
PCR Negative Specimens	2	0	1	0	3

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

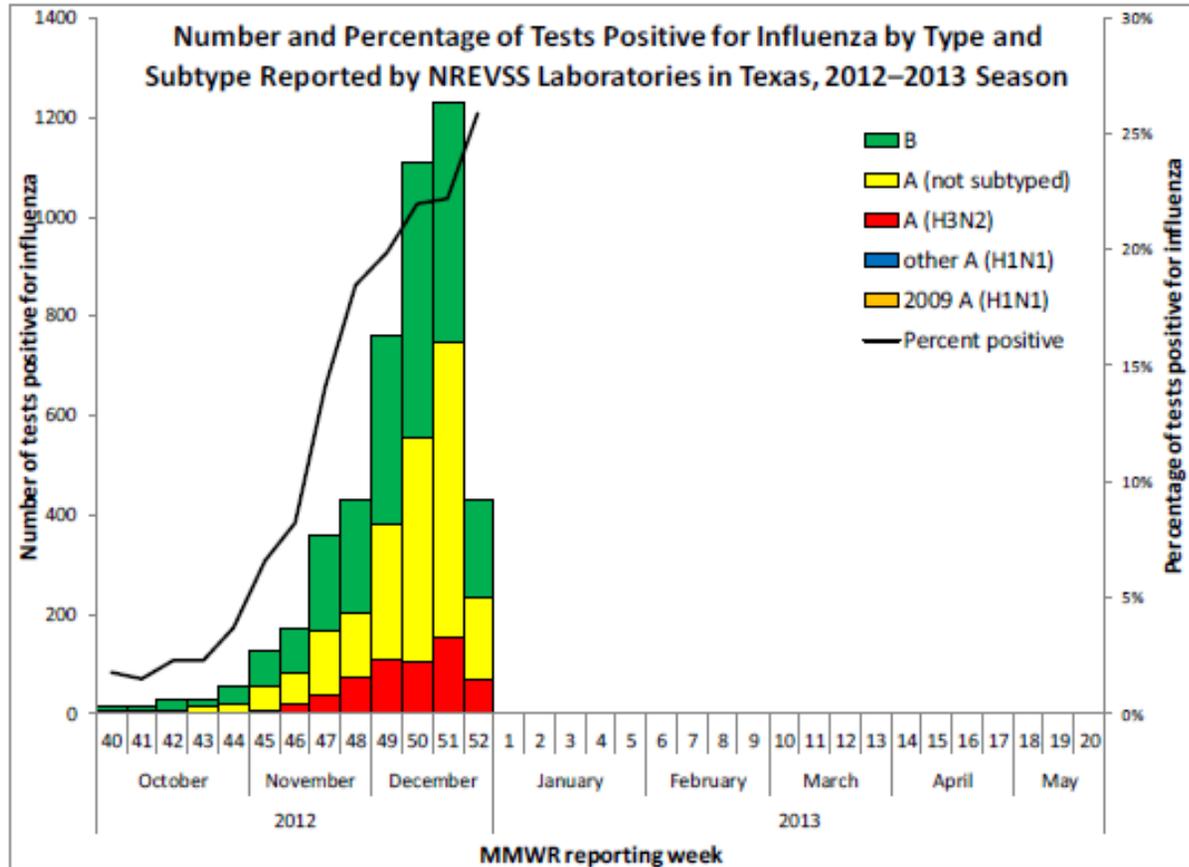
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Figure 6. DSHS NREVSS Laboratory Data



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 52:⁸

Since September 1, 2012, CDC has reported antigenic characterization results from one influenza A (H1N1) virus, seven 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) [7]

- Seven 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 52:⁸

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>.

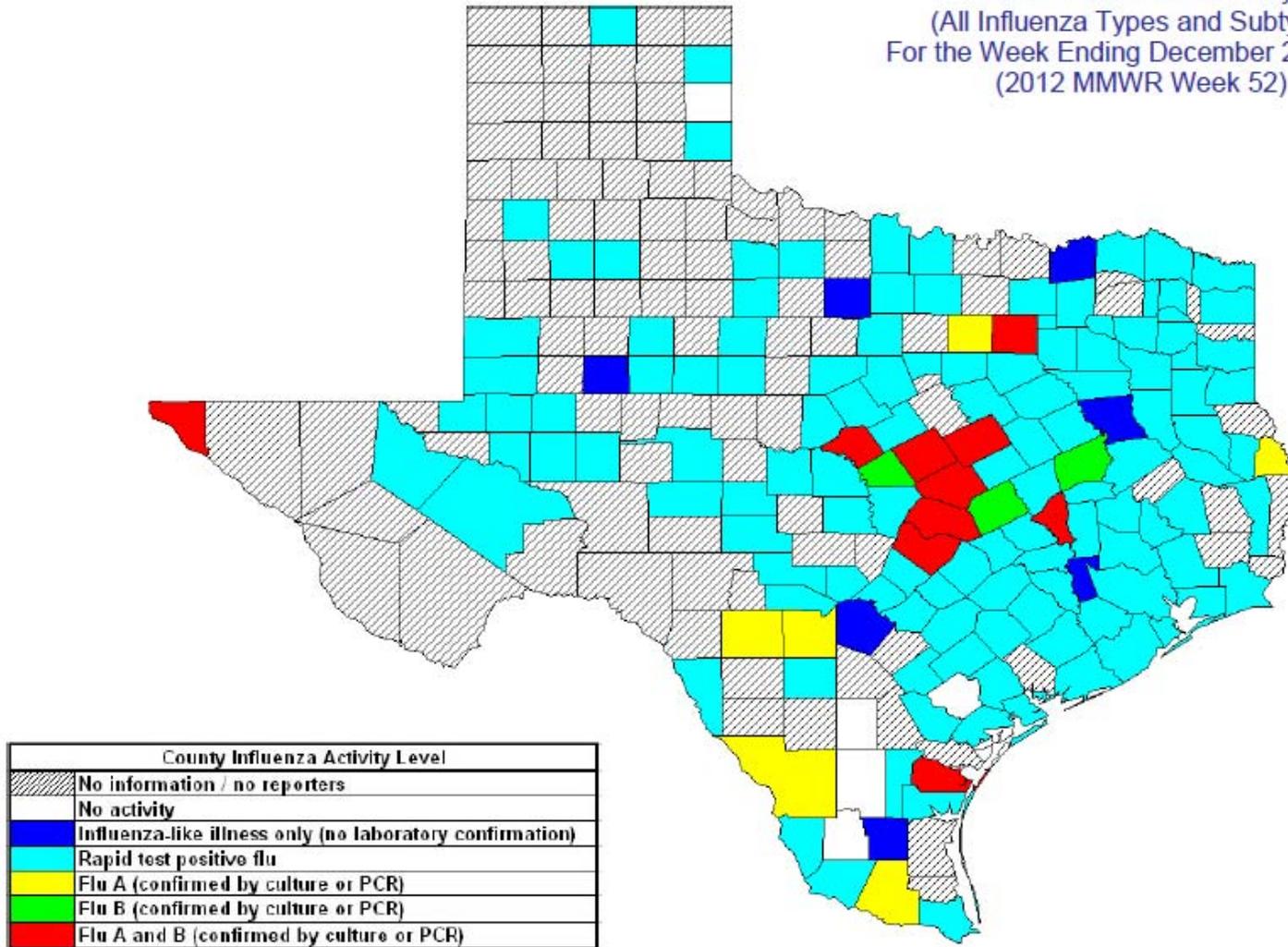


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Figure 7. Statewide Influenza Activity^{9,10,11}

Statewide Influenza Activity
(All Influenza Types and Subtypes)
For the Week Ending December 29, 2012
(2012 MMWR Week 52)



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

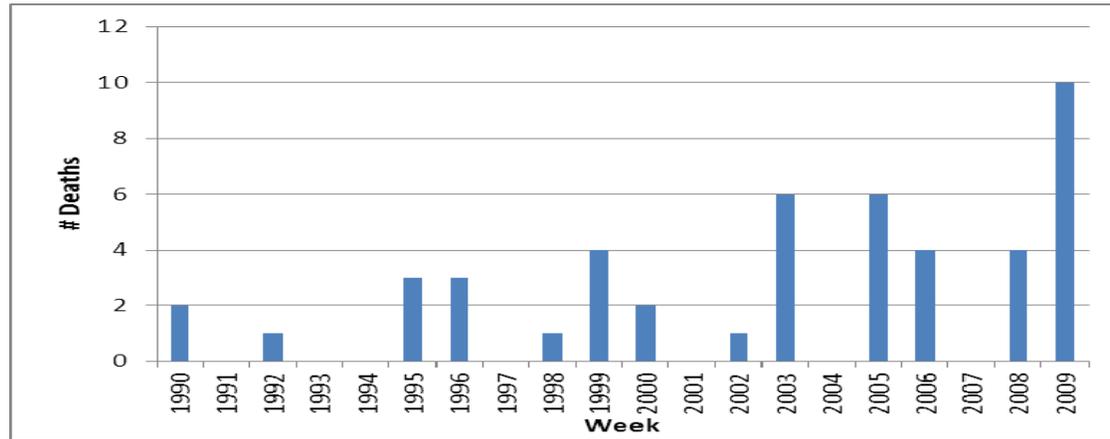
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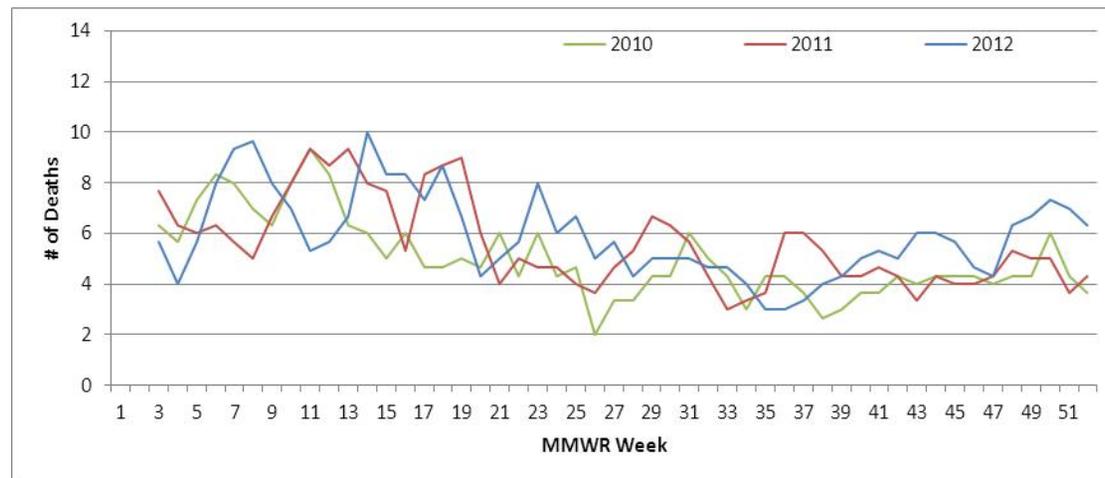


**Figure 8. Annual Influenza Related Mortality,
Travis County: 1990-2009**



Data source: Texas Department of State Health Services <http://soupsfin.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>.

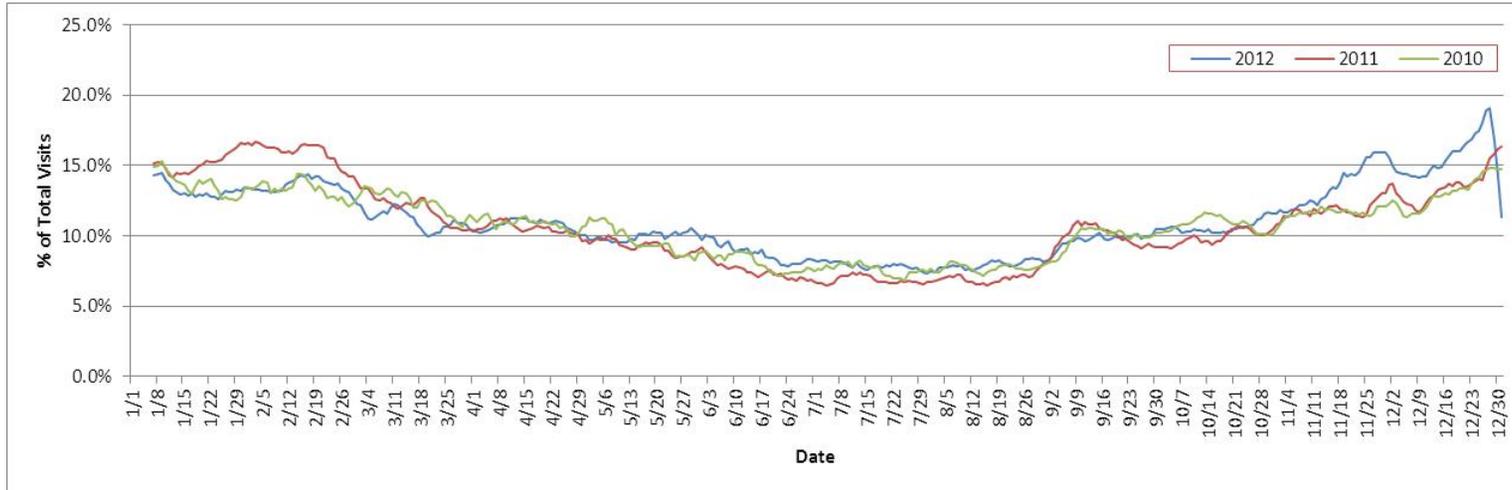
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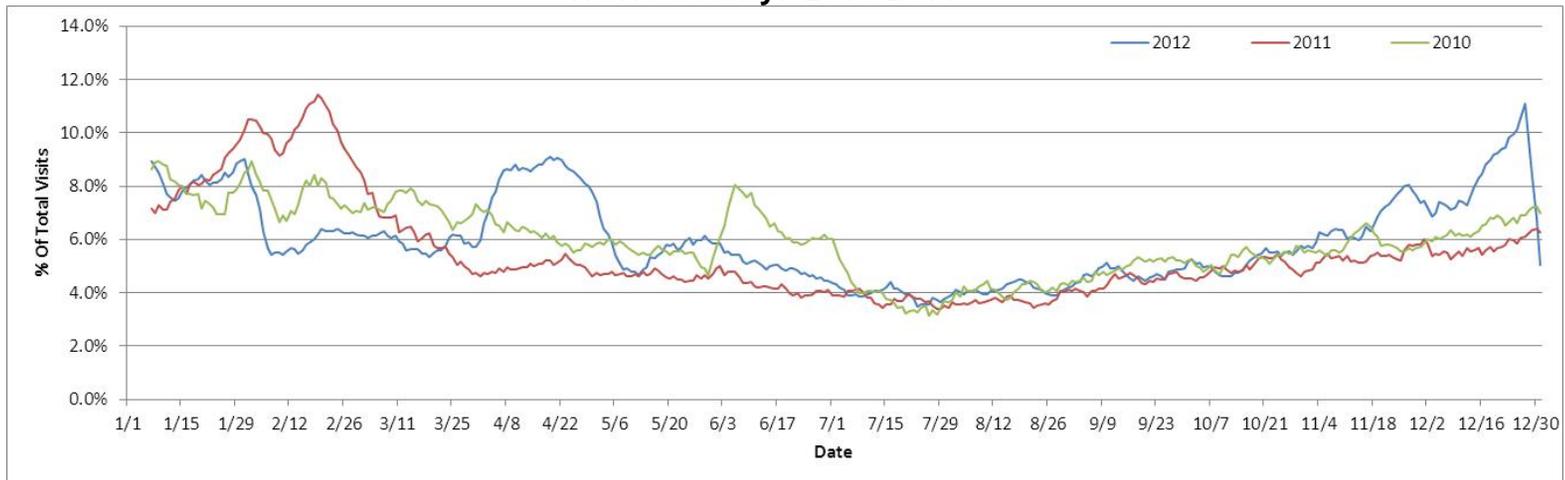


Figure 10. RODS Syndromic Surveillance for the Respiratory Prodrome Category, Travis County: 2010-2011



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: 2010-2011



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

Figure 12. Other Respiratory Viruses Reported for Texas by DSHS Week 52

Virus	Number of Laboratories Testing	Tests Performed	Positive Tests	Percentage of Tests Positive
Adenovirus (respiratory)	4	596	7	1.17%
HMPV	4	412	10	2.43%
Parainfluenza virus	4	596	25	4.19%
Rhinovirus	3	393	97	24.68%
RSV	6	558	140	25.09%

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 from if the influenza activity occurring in the Austin/Travis County area.
- 2 Data represents 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.

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