



# Missouri Weekly Influenza Report 2012-2013 Season

**Missouri is reporting “Widespread” to the CDC for Week 1.**

To view influenza maps click here. Each map will give county data by placing the cursor over the county. To view progression maps of influenza throughout the state by jurisdiction click here, or by rate click here.

**Table 1. Reported Laboratory cases by sub-type for the Week ending January 5, 2013 (Week 1)**

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 1	428	0	0	3	1,021	63	1,515

A total of four specimens were received by the State Public Health Laboratory for viral testing during week 1. Three were positive for Influenza A H3 and one was negative.

No variant influenza viruses have been detected in Missouri as of this report for the 2012-2013 influenza season.

CDC has antigenically characterized nine isolates so far this influenza season from Missouri: All nine were B/WISCONSIN/01/2010-LIKE. The influenza B/WISCONSIN/01/2010-LIKE was included in the 2012-2013 influenza vaccine for the Northern Hemisphere. The national antigenic characterization results may be found in the CDC weekly flu report at <http://www.cdc.gov/flu/weekly/>.

Missouri has no reported Influenza-Associated Pediatric deaths as of week 1 for the 2012-2013 influenza season.

**Table 2. Reported Positive Influenza Tests  
Season-to-Date and 5-season Median by Influenza Type  
Through Week Ending January 5, 2013 (Week 1)**

Influenza Type	2012-2013 Season	5-Season Median	% Change from 5-Season Median
Influenza A	2,059	395	420.5%
Influenza B	10,467	186	5527.4%
Influenza Unknown Or Untyped	539	56	862.5%
Total	13,065	655	1894.7%

**NOTE:** The influenza counts presented each week do not reflect the actual number of influenza cases in the state. These counts are the number of patients who have been tested by a health care provider, have had a positive flu test, and were reported to public health. Influenza can cause mild to severe illness. Most individuals with mild illness do not seek medical attention or go to a doctor. Those who are ill enough to go to a doctor are not always tested. All data in this report are provisional.

**Table 3. Reported Positive Influenza Tests Season-to-Date and 5-season Median by Age Group Through Week Ending January 5, 2013 (Week 1)**

Age Group	2012-2013 Season	5-Season Median	% Change from 5-Season Median
00-<02	989	72	1273.6%
02-04	1,965	88	2133.0%
05-14	5,721	154	3614.9%
15-24	775	70	1007.1%
25-49	2,078	156	1232.1%
50-64	957	68	1307.4%
65+	580	69	740.6%
<b>Total</b>	<b>13,065</b>	<b>655</b>	<b>1894.7%</b>

**Table 4. Reported Positive Influenza Tests Season-to-Date and 5-season Median by District Through Week Ending January 5, 2013 (Week 1)**

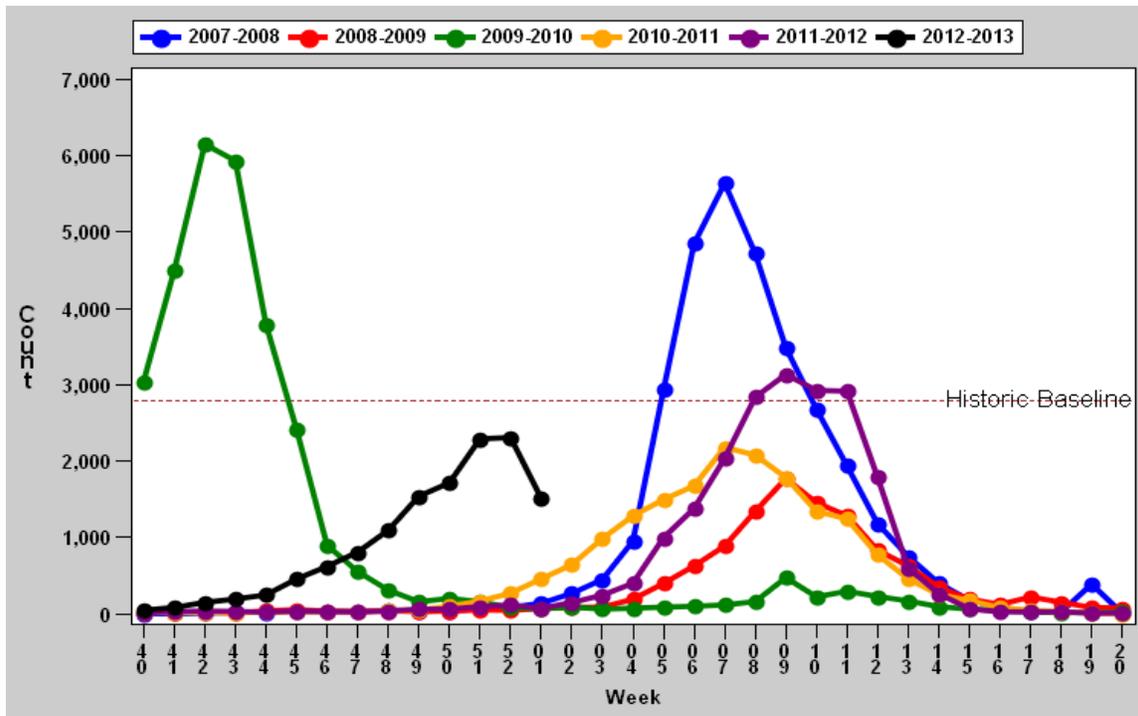
District	2012-2013 Season	5-Season Median	% Change from 5-Season Median
CE	2,487	122	1938.5%
EA	4,925	128	3747.7%
NW	3,183	164	1840.9%
SE	1,452	88	1550.0%
SW	1,018	149	583.2%
<b>Total</b>	<b>13,065</b>	<b>655</b>	<b>1894.7%</b>

**Table 5. Positive Respiratory Virus Results Tested by the Missouri State Public Health Laboratory Reported Season-To-Date Through the Week ending January 5, 2013 (Week 1)**

Respiratory Virus	Positive Results 2012-2013 Season	% of Tests Positive
Influenza (all types)	44	92%
Respiratory syncytial virus (RSV)	0	
Parainfluenza Virus	4	8%
Adenovirus	0	
Enterovirus	0	
Cytomegalovirus (CMV)	0	
Rhinovirus	0	
<b>Total</b>	<b>48</b>	<b>100%</b>

**Note:** Of the viruses listed in Table 5, influenza is the only one that is reportable in Missouri. For a complete list of reportable diseases and conditions: <http://health.mo.gov/living/healthcondiseases/communicable/communicabledisease/index.php>

**Graph 1. Reported Influenza Cases 2012-2013 Season-To-Date as compared to the previous Five Influenza Seasons Through the Week Ending January 5, 2013 (Week 1)**



**Note:** Historic Baseline is calculated as the mean weekly count of the reported confirmed flu cases plus 3 standard deviation from the 2008-2009, 2010-2011 and 2011-2012 flu seasons.

The number of influenza cases is higher than usual for this time of the year. Influenza is cyclical and the peak can vary from season-to-season. Based on historical data, influenza season often peaks in February. This year cases are occurring earlier than in recent seasons. However, we do not yet know when this seasons peak will be, it's still early in the season.

**Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending December 29, 2012 (Week 52)**

Week 52	Season-to-Date 2012-2013	Season-to-Date 2011-2012	Week 52 Last Season	5 Year Weekly Median
63	937	1,146	83	69

**Table 7. Outbreaks/School Closures Due to Influenza-like Illness Reported During the Week Ending January 5, 2013 (Week 1)**

	Outbreaks		School Closures	
	Current Season 2012-2013	Previous Season 2011-2012	Current Season 2012-2013	Previous Season 2011-2012
Week 1	0	0	0	0
Season-to-Date (Week 40-Week 1)	1	0	5	0

**Outbreaks/School Closures due to Influenza-like Illness:** No school closures or outbreaks were reported for week 1 of the current season.

**Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending January 5, 2013 (Week 1)**

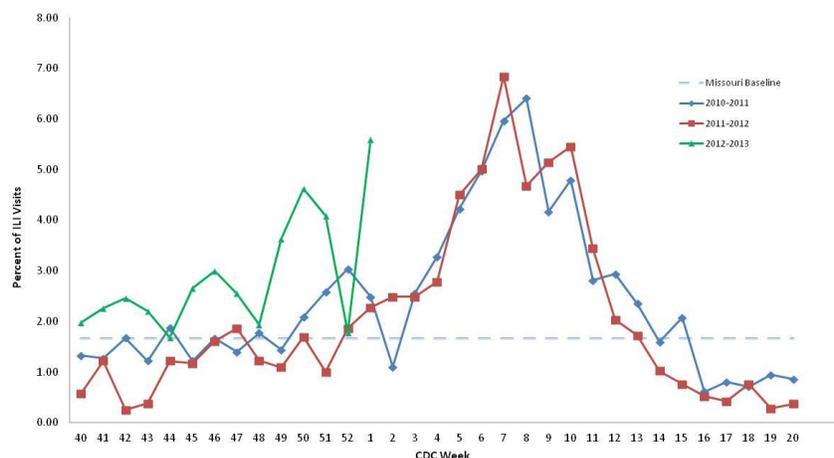
Jurisdiction	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI
Adair	0	0	0	0	0	0	0	0
Audrain	2	3	0	0	0	5	160	3.12
Boone	0	0	1	0	0	1	154	0.65
Callaway	3	8	14	1	3	29	200	14.50
Cape Girardeau	1	0	0	0	0	1	51	1.96
Clay	0	1	2	0	0	3	140	2.14
Cole	28	16	14	12	20	90	698	12.89
Gasconade								
Greene	0	0	0	0	0	0	269	0
Iron								
Jackson	49	30	47	18	14	158	3,228	4.89
Kansas City								
Knox								
Marion	0	0	0	0	0	0	81	0
McDonald	0	6	1	1	3	11	206	5.34
Moniteau	0	0	0	0	0	0	17	0
Nodaway	0	0	0	0	0	0	0	0
Pettis								
Phelps	0	0	0	0	0	0	36	0
Putnam	0	0	0	0	1	1	161	0.62
Reynolds	0	0	0	0	0	0	59	0
Saline	5	2	7	1	1	16	155	10.32
St. Clair	0	0	0	0	0	0	7	0
<b>State Total</b>	<b>88</b>	<b>66</b>	<b>86</b>	<b>33</b>	<b>42</b>	<b>315</b>	<b>5622</b>	<b>5.60</b>

\*Only counties with sentinel provider(s) are listed above.

\*\*To learn about ILINet, view the following website: <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>

\*\*\*This is the above the national baseline of 2.2%.

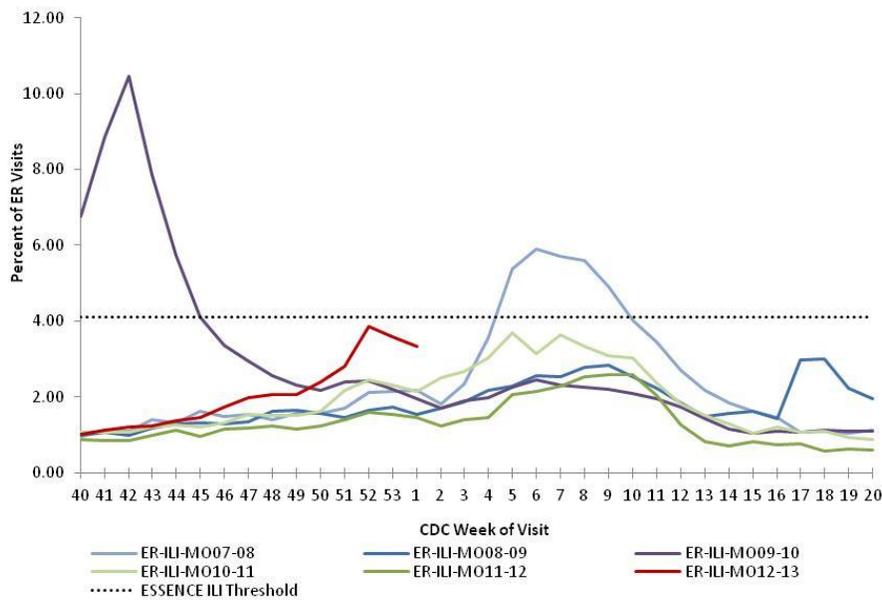
**Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2012-2013 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending January 5, 2013 (Week 1)**



ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2008-2009, 2010-11 and 2011-12) with low influenza activity.

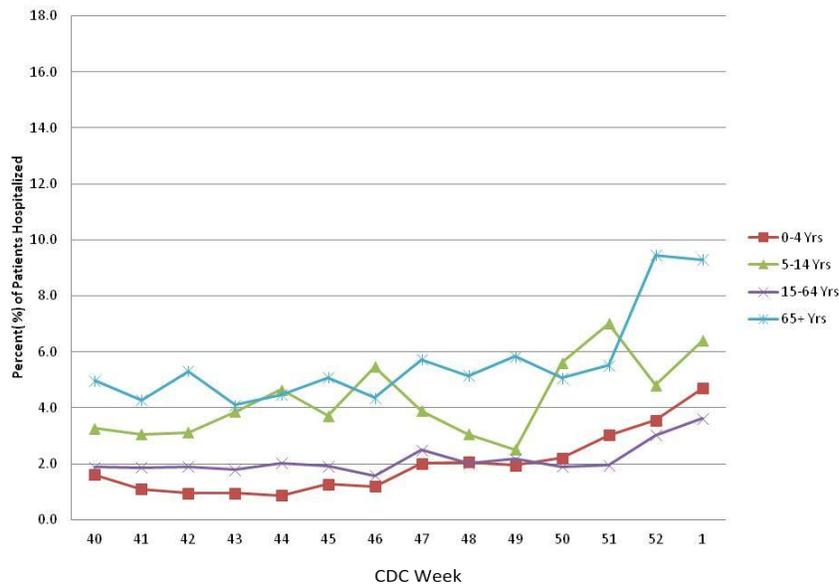
The proportion of patient visits for influenza-like illness increased to 5.60% for week ending January 5, 2013 (week 1). This is above Missouri’s baseline of 1.66%.

**Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2007-2013 Influenza Seasons Through the Week Ending January 5, 2013 (Week 1)**



\*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.

**Graph 4. Percentage of Patients Hospitalized for Influenza and/or Pneumonia Syndromes By Age Group from 90 Participating Missouri Hospitals Through the Week Ending January 5, 2013 (Week 1)**



\*Please use caution when comparing current 2011-2013 influenza season inpatient hospitalization numbers to previous years due to major revisions to the inpatient database environment.

The 5-14 year age group increased to 6.40%, the 0-4 year age group increased to 4.69%, and the 15-64 year age group increased to 3.61%. The 65 and older age group decreased to 9.30%.

