



Missouri Weekly Influenza Report 2012-2013 Season

Missouri is reporting “Regional” to the CDC for Week 52.

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 December 29, 2012 (Week 52)

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 52	229	0	0	0	967	49	1,245

A total of seven specimens were received by the State Public Health Laboratory for viral testing during week 52. Four were positive for Influenza B and three were 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 51 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 December 29, 2012 (Week 52)**

Influenza Type	2012-2013 Season	5-Season Median	% Change from 5-Season Median
Influenza A	1,285	306	318.6%
Influenza B	8,262	143	5677.6%
Influenza Unknown Or Untyped	295	46	541.3%
Total	9,842	584	1858.3%

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 December 29, 2012 (Week 52)

Age Group	2012-2013 Season	5-Season Median	% Change from 5-Season Median
00-<02	724	48	1408.3%
02-04	1,552	80	1840.0%
05-14	4,598	136	3280.9%
15-24	566	48	1079.2%
25-49	1,433	149	861.7%
50-64	611	57	971.9%
65+	358	49	630.6%
Total	9,842	584	1585.3%

Table 4. Reported Positive Influenza Tests Season-to-Date and 5-season Median by District Through Week Ending December 29, 2012 (Week 52)

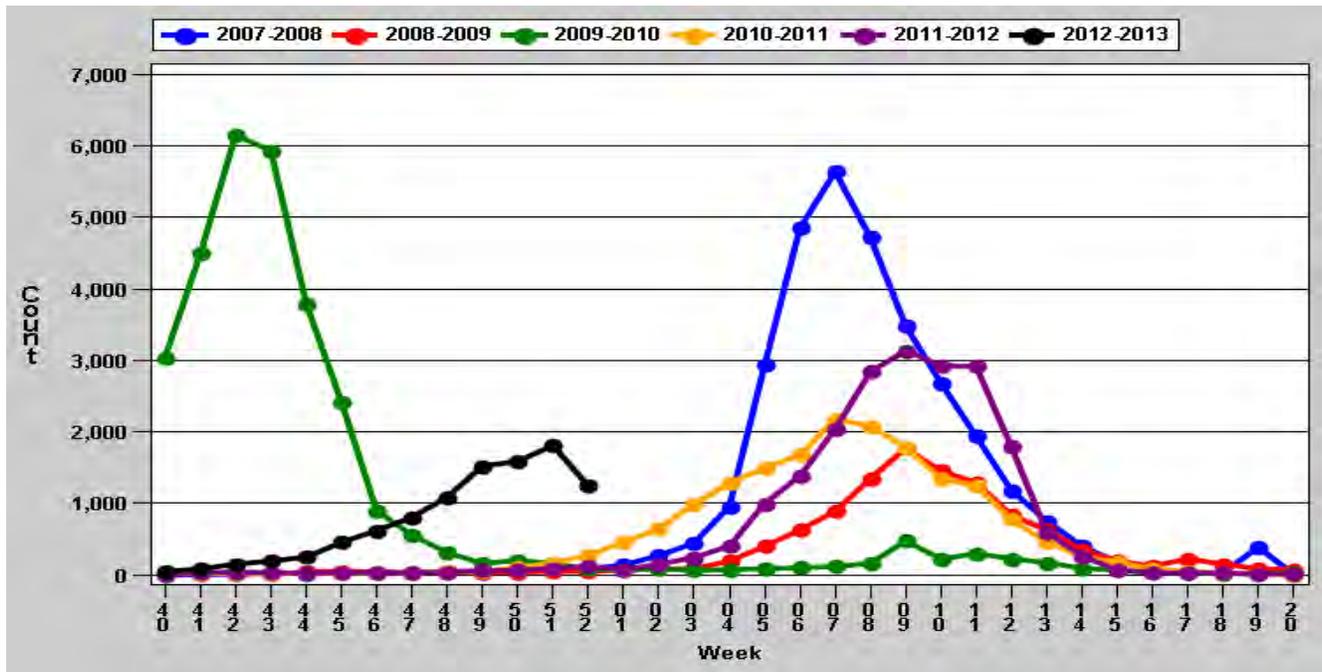
District	2012-2013 Season	5-Season Median	% Change from 5-Season Median
CE	2,127	99	2048.5%
EA	3,934	106	3611.3%
NW	2,100	121	1635.5%
SE	1,156	56	1964.3%
SW	525	117	348.7%
Total	9,842	584	1585.3%

Table 5. Positive Respiratory Virus Results Tested by the Missouri State Public Health Laboratory Reported Season-To-Date Through the Week ending December 29, 2012 (Week 52)

Respiratory Virus	Positive Results 2012-2013 Season	% of Test Positive
Influenza (all types)	41	91%
Respiratory syncytial virus (RSV)	0	
Parainfluenza Virus	4	9%
Adenovirus	0	
Enterovirus	0	
Cytomegalovirus (CMV)	0	
Rhinovirus	0	
Total	45	100%

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 December 29, 2012 (Week 52)



The number of reported influenza cases for week 52 of the 2012-2013 season is above historical trends.

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 22, 2012 (Week 51)

Week 51	Season-to-Date 2012-2013	Season-to-Date 2011-2012	Week 51 Last Season	5 Year Weekly Median
78	874	1,063	81	69

Table 7. Outbreaks/School Closures Due to Influenza-like Illness Reported During the Week Ending December 29, 2012 (Week 52)

	Outbreaks		School Closures	
	Current Season 2012-2013	Previous Season 2011-2012	Current Season 2012-2013	Previous Season 2011-2012
Week 52	0	0	0	0
Season-to-Date (Week 40-Week 52)	1	0	5	0

Outbreaks/School Closures due to Influenza-like Illness: No school closure or outbreaks were reported for week 52 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 December 29, 2012 (Week 52)

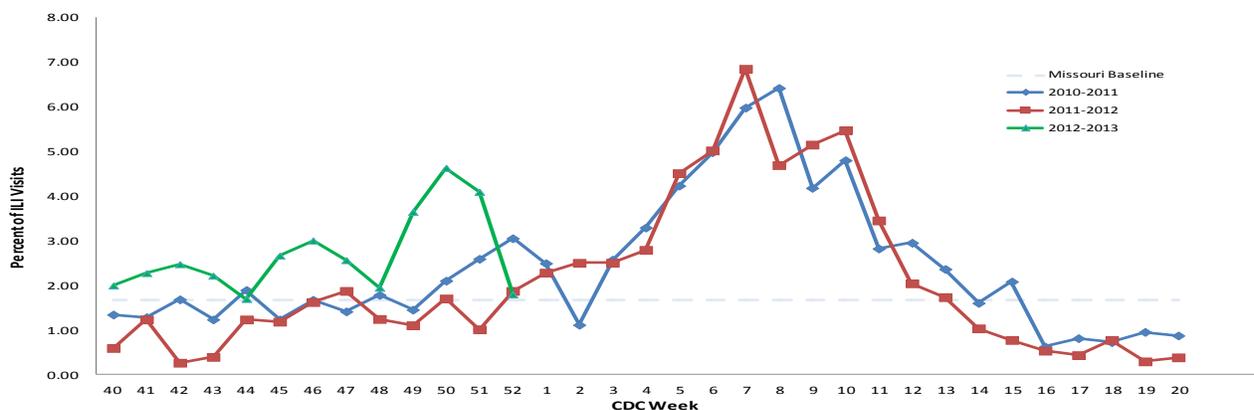
Jurisdiction	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI
Adair								
Audrain								
Boone								
Callaway								
Cape Girardeau	0	0	0	0	0	0	4	0
Clay	1	0	2	0	0	105	3	2.86%
Cole								
Gasconade	2	2	2	0	0	278	6	2.16%
Greene								
Iron								
Jackson								
Kansas City								
Knox	0	0	0	0	0	43	0	0
Marion	0	0	1	0	0	133	1	0.75%
McDonald	0	0	0	0	0	108	0	0
Moniteau								
Nodaway	0	0	0	0	0	0	0	0
Pettis								
Phelps	0	0	0	0	0	12	0	0
Putnam	1	1	2	1	1	163	6	3.68%
Reynolds	0	0	0	0	0	39	0	0
Saline								
St. Clair	0	0	0	0	0	2	0	0
State Total	4	3	8	1	1	957	17	1.78%

*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 below the national baseline of 2.2%.

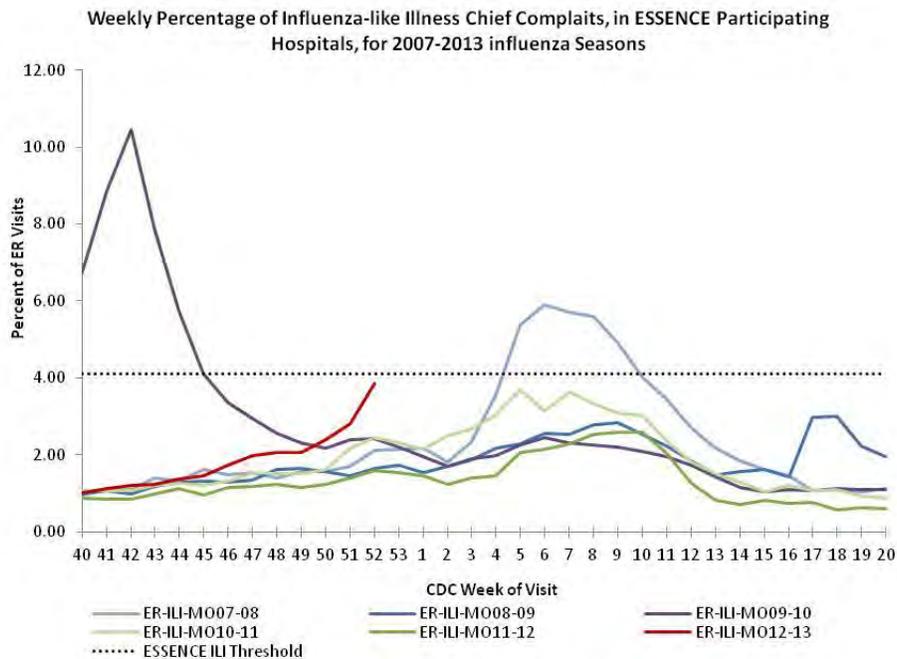
Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2012-2013 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending December 29, 2012 (Week 52)



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 decreased to 1.78% for week ending December 29, 2012 (week 52). The decrease is most likely due to holiday closures of several sentinel sites. This is above Missouri’s baseline of 1.66%.

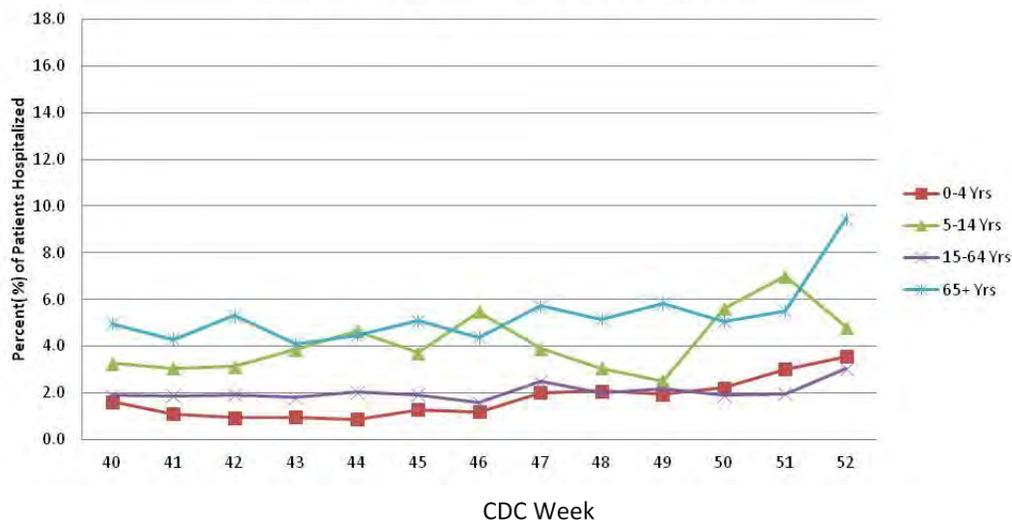
Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2007-2013 Influenza Seasons Through the Week Ending December 29, 2012 (Week 52)



*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.

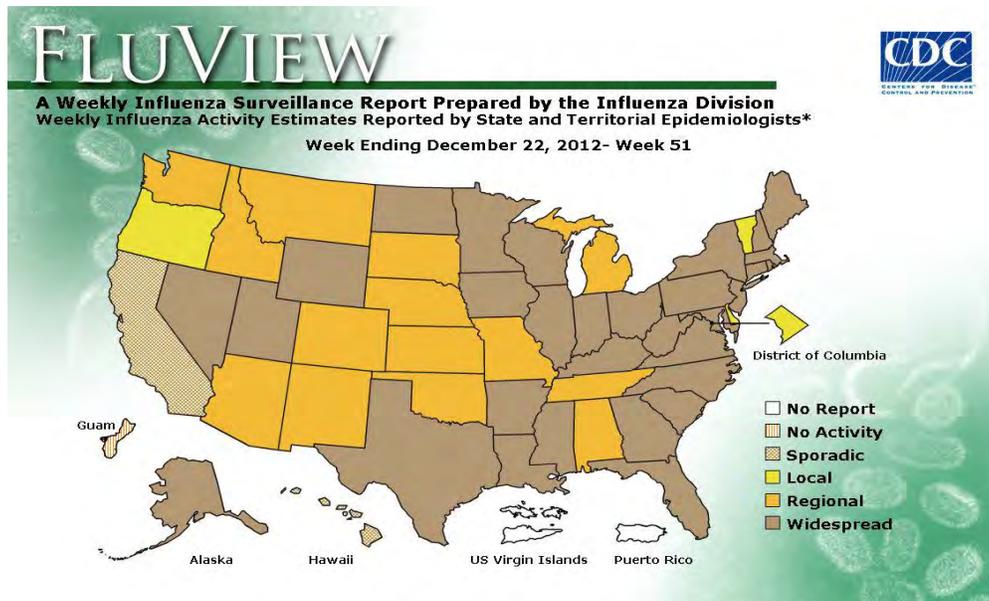
Graph 4. Percentage of Patients Hospitalized for Influenza and/or Pneumonia Syndromes By Age Group from 90 Participating Missouri Hospitals Through the Week Ending December 29, 2012 (Week 52)

Trends for Patients Hospitalized with Influenza and/or Pneumonia Syndromes from Participating Missouri hospitals, by Age Group, from CDC Week 40, 2012



*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 65 and older age group increased to 9.45%, the 0-4 year age group increased to 3.56%, and the 15-64 year age group increased to 3.02%. The 5-14 year age group decreased to 4.80%.



For the week ending December 29, 2012 (Week 52), Missouri reported **Regional** Influenza Activity to the CDC. Regional Activity is defined as: Increased ILI in at least 2 regions but less than half of the regions, **AND** recent (within the past 3 weeks) lab confirmed influenza in the affected regions. **OR** Institutional outbreaks (ILI or lab confirmed) in at least 2 regions, but fewer than half of the regions, **AND** recent lab confirmed influenza in the affected regions.

For the week ending December 22, 2012 (week 51), Flu View reported 31 states with widespread activity, 14 states reported regional influenza activity, three states reported local influenza activity, and two states reported sporadic influenza activity. The influenza activity reported by state and territorial epidemiologists indicates geographic spread of influenza viruses, but does not measure the severity of influenza activity.

Influenza activity codes are reported to CDC each Tuesday. The current U.S. influenza weekly report (FluView) may be found at <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>.

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

International Influenza Activity: The CDC compiles information from several sources and releases an international influenza summary. This report can be found at <http://www.cdc.gov/flu/international/activity.htm>.

Information regarding Infection Control of Influenza: Information on the control of influenza in various health care settings may be found on the CDC website at <http://www.cdc.gov/flu/professionals/infectioncontrol/>

Contact Us

The Missouri Department of Health and Senior Services after hours number for reporting disease cases and emergencies is **1-800-392-0272**.

Data Sources: Laboratory-confirmed cases of influenza are reported to DHSS through the passive communicable disease surveillance system. Laboratory-confirmed testing methods include: PCR, Culture, and Rapid methodology. Suspected influenza clusters and outbreaks are reported through the active surveillance system. Pneumonia and influenza deaths are reported through the DHSS Bureau of Vital Records. Influenza-like illness data by age category and total number of patient visits by week are reported voluntarily by participants in the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet).