



Missouri Weekly Influenza Report 2012-2013 Season

Missouri is reporting “Local” to the CDC for Week 11.

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 March 16, 2013 (Week 11)

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 11	307	0	1	2	98	9	417

A total of three specimens were received by the State Public Health Laboratory for viral testing during week 11. Two were positive for Influenza A H3 and one was positive for Influenza A 2009 H1N1.

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

CDC has antigenically characterized 29 isolates so far this influenza season from Missouri: 18 were B/WISCONSIN/01/2010-LIKE, nine were A/Victoria/361/2011-LIKE (H3N2) GP and two was B/BRISBANE/60/2008-LIKE. Both the influenza A (H3N2) component and the influenza B component are 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 11 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 March 16, 2013 (Week 11)**

Influenza Type	2012-2013 Season	5-Season Median	% Change from 5-Season Median
Influenza A	13,217	16,219	(18.5%)
Influenza B	19,875	2,750	622.7%
Influenza Unknown Or Untyped	1,956	1,083	80.6%
Total	35,048	17,679	98.2%

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 March 16, 2013 (Week 11)

Age Group	2012-2013 Season	5-Season Median	% Change from 5-Season Median
00-<02	2,741	1,607	70.6%
02-04	5,005	3,033	65.0%
05-14	12,415	5,923	109.6%
15-24	3,023	2,415	25.2%
25-49	6,406	3,165	102.4%
50-64	2,945	1,144	157.4%
65+	2,513	708	254.9%
Total	35,048	17,679	98.2%

Table 4. Reported Positive Influenza Tests Season-to-Date and 5-season Median by District Through Week Ending March 16, 2013 (Week 11)

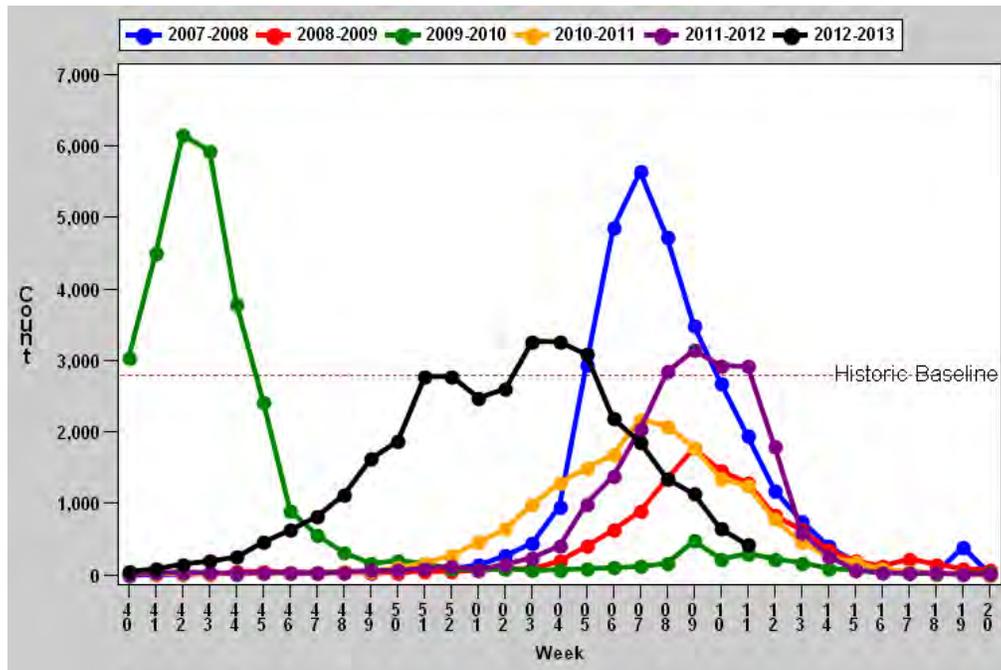
District	2012-2013 Season	5-Season Median	% Change from 5-Season Median
CE	4,715	3,268	44.3%
EA	8,539	4,883	74.9%
NW	11,058	6,021	83.7%
SE	5,373	2,009	167.4%
SW	5,363	3,381	58.6%
Total	35,048	17,679	98.2%

Table 5. Positive Respiratory Virus Results Tested by the Missouri State Public Health Laboratory Reported Season-To-Date Through the Week ending March 16, 2013 (Week 11)

Respiratory Virus	Positive Results 2012-2013 Season	% of Tests Positive
Influenza (all types)	109	96%
Respiratory syncytial virus (RSV)		
Parainfluenza Virus	4	4%
Adenovirus		
Enterovirus		
Cytomegalovirus (CMV)		
Rhinovirus		
Total	113	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 March 16, 2013 (Week 11)



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.

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending March 9, 2013 (Week 10)

Week 10	Season-to-Date 2012-2013	Season-to-Date 2011-2012	Week 10 Last Season	5 Year Weekly Median
111	2,043	2,162	85	91

Table 7. Outbreaks/School Closures Due to Influenza-like Illness Reported During the Week Ending March 16, 2013 (Week 11)

	Outbreaks		School Closures	
	Current Season 2012-2013	Previous Season 2011-2012	Current Season 2012-2013	Previous Season 2011-2012
Week 11	0	0	0	1
Season-to-Date (Week 40-Week 11)	4	12	14	14

Outbreaks/School Closures due to Influenza-like Illness: No school closures were reported for week 11 of the current season and no outbreaks were reported for week 11.

**Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County
Influenza-like Illness (ILI) for the Week Ending March 16, 2013 (Week 11)**

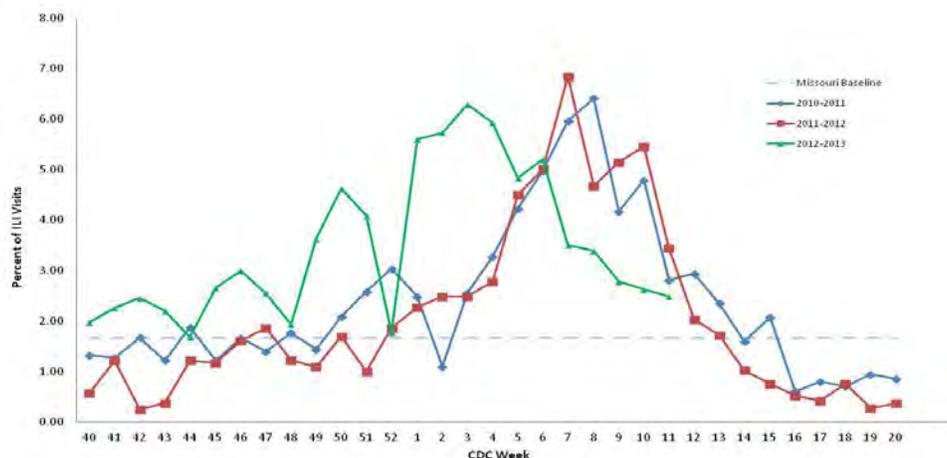
Jurisdiction	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI
Adair	0	0	0	0	0	0	0	0
Audrain	0	0	0	0	0	0	149	0
Boone								
Callaway								
Cape Girardeau	0	0	0	0	0	0	71	0
Clay								
Cole	9	14	17	3	10	53	622	8.52
Gasconade	0	1	0	0	2	3	314	0.96
Greene								
Iron								
Jackson								
Kansas City	5	22	13	7	5	52	2613	1.99
Knox								
Marion	0	0	0	0	0	0	77	0
McDonald	0	0	1	0	0	1	304	0.33
Moniteau	0	1	0	0	0	1	64	1.56
Nodaway	0	0	0	0	0	0	158	0
Pettis								
Phelps	0	0	0	0	0	0	14	0
Putnam	0	0	0	0	0	0	200	0
Reynolds	0	0	0	0	0	0	40	0
Saline	1	5	3	1	0	10	166	6.02
St. Clair	0	0	0	0	0	0	40	0
State Total	15	43	34	11	17	120	4832	2.48

*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%.

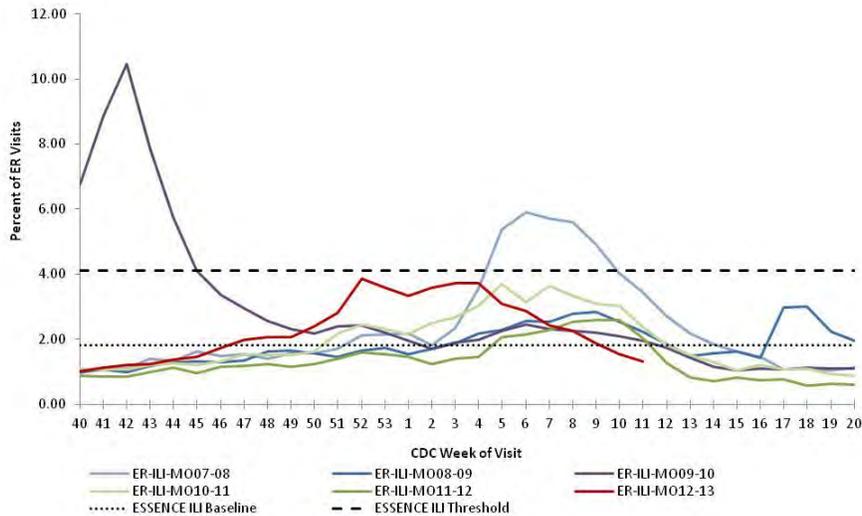
Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2012-2013 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending March 16, 2013 (Week 11)



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.

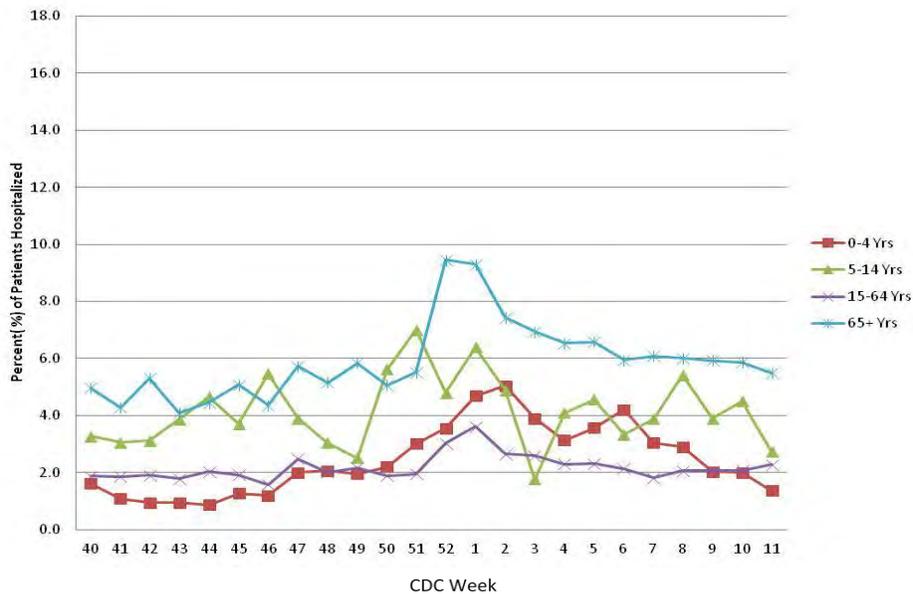
The proportion of patient visits for influenza-like illness decreased to 2.48% for week ending March 16, 2013 (Week 11). This is above Missouri’s baseline of 1.66%.

Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2007-2013 Influenza Seasons Through the Week Ending March 16, 2013 (Week 11)



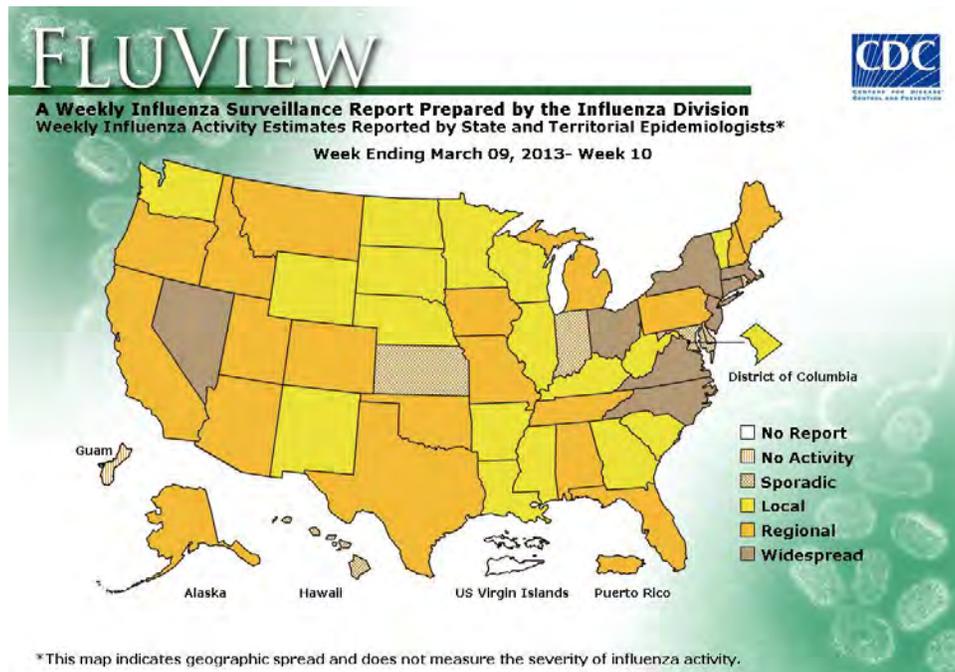
*ESSENCE ILI Baseline is the mean of the values during previous influenza seasons (week 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.
 *ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07,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

Graph 4. Percentage of Patients Hospitalized for Influenza and/or Pneumonia Syndromes Following Emergency Department Visits, By Age Group from 90 Participating Missouri Hospitals Through the Week Ending March 16, 2013 (Week 11)



*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 0-4 year age group has decreased to 1.36%, the 5-14 year age group has decreased 2.73%, and the 65 and older age group has decreased to 5.50%. The 15-64 year age group has increased to 2.28% in Week 11.



For the week ending March 16, 2013 (Week 11), Missouri reported **Local** to the CDC. Local is defined as: Increased ILI in 1 region; ILI activity in other regions is not increased **And** recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI. **OR** Two or more institutional outbreaks (ILI or lab confirmed) in 1 region; ILI activity in other regions is not increased **And** recent (within the past 3 weeks) lab evidence of influenza in region with the outbreak and virus activity is no greater than sporadic in other regions.

For the week ending March 9, 2013 (Week 10), Flu View reported eight states with widespread activity, 19 states reported regional influenza activity, 17 states reported local influenza activity, and six 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/fluactivitiesurv.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).