Missouri Weekly Influenza Report
2012-2013 Season

Missouri is reporting "Sporadic" to the CDC for Week 19.

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 May 11, 2013 (Week 19)

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 19	3	0	0	0	2	0	5

No specimens were received by the State Public Health Laboratory for viral testing during week 19.

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

CDC has antigenically characterized 42 isolates so far this influenza season from Missouri: 21 were B/WISCONSIN/01/2010-LIKE, 15 were A/Victoria/361/2011-LIKE (H3N2) GP, two was B/BRISBANE/60/2008-LIKE, and four A/CALIFORNIA/07/2009-LIKE (H1N1)pdm09. 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 19 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 May 11, 2013 (Week 19)

Influenza Type	2012-2013 Season	5-Season Median	% Change from 5-Season Median
Influenza A	14,613	18,132	(19.4%)
Influenza B	20,398	3,826	433.1%
Influenza Unknown Or Untyped	2,019	1,336	51.1%
Total	37,030	20,476	80.8%

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 May 11, 2013 (Week 19)

Age Group	2012-2013 Season	5-Season Median	% Change from 5-Season Median
00-<02	2,912	1,864	56.2%
02-04	5,217	3,476	50.1%
05-14	12,820	6,506	97.0%
15-24	3,227	2,668	21.0%
25-49	6,953	3,521	97.5%
50-64	3,178	1,294	145.6%
65+	2,723	828	228.9%
Total	37,030	20,476	80.8%

Table 4. Reported Positive Influenza Tests Season-to-Date and 5-season Median by District Through Week Ending May 11, 2013 (Week 19)

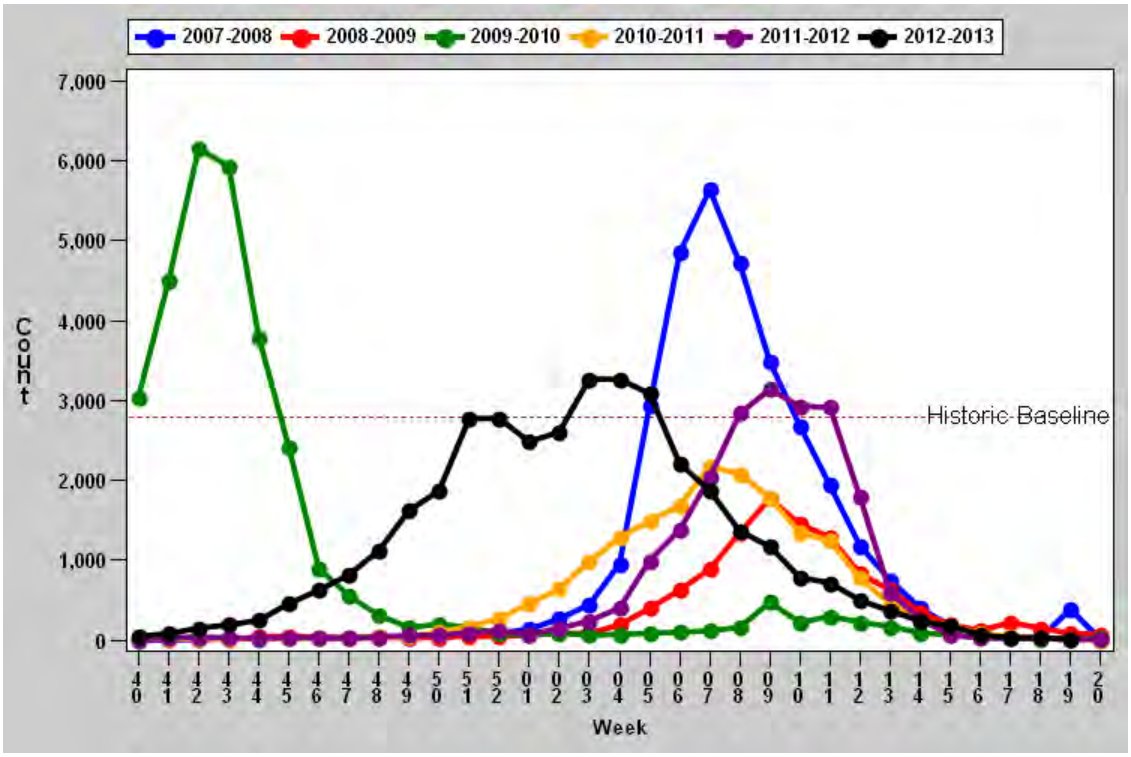
District	2012-2013 Season	5-Season Median	% Change from 5-Season Median
CE	5,086	3,340	52.3%
EA	9,290	6,051	53.5%
NW	11,418	6,454	76.9%
SE	5,600	2,126	163.4%
SW	5,636	3,766	49.7%
Total	37,030	20,476	80.8%

Table 5. Positive Respiratory Virus Results Tested by the Missouri State Public Health Laboratory Reported Season-To-Date Through the Week ending May 11, 2013 (Week 19)

Respiratory Virus	Positive Results 2012-2013 Season	% of Tests Positive
Influenza (all types)	117	96%
Respiratory syncytial virus (RSV)		
Parainfluenza Virus	4	3%
Adenovirus	1	1%
Enterovirus		
Cytomegalovirus (CMV)		
Rhinovirus		
Total	122	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 May 11, 2013 (Week 19)



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 May 4, 2013 (Week 18)

Week 18	Season-to-Date 2012-2013	Season-to-Date 2011-2012	Week 18 Last Season	5 Year Weekly Median
86	2,811	3,002	72	77

Table 7. Outbreaks/School Closures Due to Influenza-like Illness Reported During the Week Ending May11, 2013 (Week 19)

	Outbreaks		School Closures	
	Current Season 2012-2013	Previous Season 2011-2012	Current Season 2012-2013	Previous Season 2011-2012
Week 19	0	0	0	0
Season-to-Date (Week 40-Week 19)	7	14	14	14

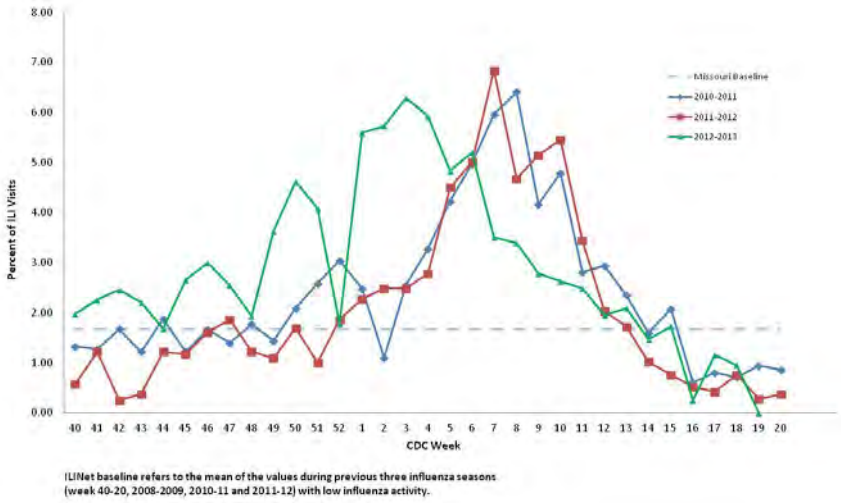
Outbreaks/School Closures due to Influenza-like Illness: No school closures were reported for week 19 of the current season; no outbreaks were reported for week 19.

Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending May 11, 2013 (Week 19)

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	58	0
Clay								
Cole								
Gasconade								
Greene								
Iron								
Jackson	0	0	0	0	0	0	202	0
Kansas City								
Knox								
Marion	0	0	0	0	0	0	104	0
McDonald	0	0	0	0	0	0	91	0
Moniteau								
Nodaway								
Pettis								
Phelps	0	0	0	0	0	0	327	0
Putnam	0	0	0	0	0	0	253	0
Reynolds								
Saline								
St. Clair								
State Total	0	0	0	0	0	0	1035	0

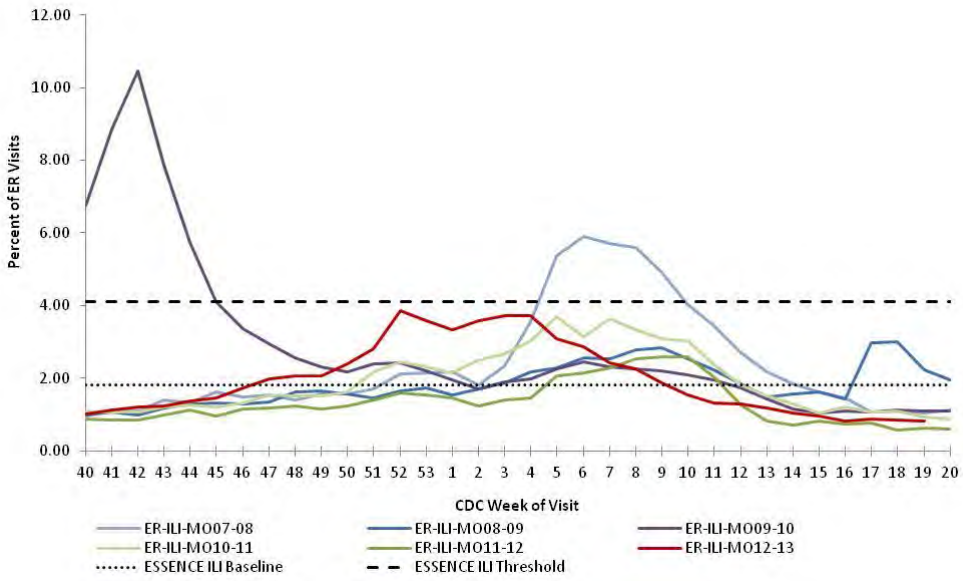
*Only counties with sentinel provider(s) are listed above.
**To learn about ILINet, view the following website: http://www.cdc.gov/flu/weekly/fluactivitysurv.htm
***This is the below the national baseline of 2.2%.

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 May 11, 2013 (Week 19)



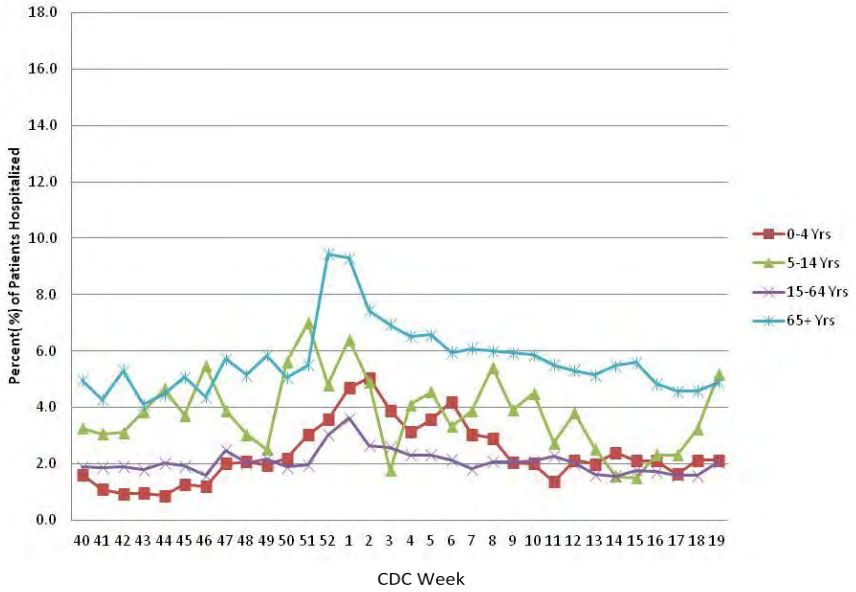
The proportion of patient visits for influenza-like illness decreased to 0% for week ending May 11, 2013 (Week 19). This is below Missouri's baseline of 1.66%.

Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2007-2013 Influenza Seasons Through the Week Ending May 11, 2013 (Week 19)



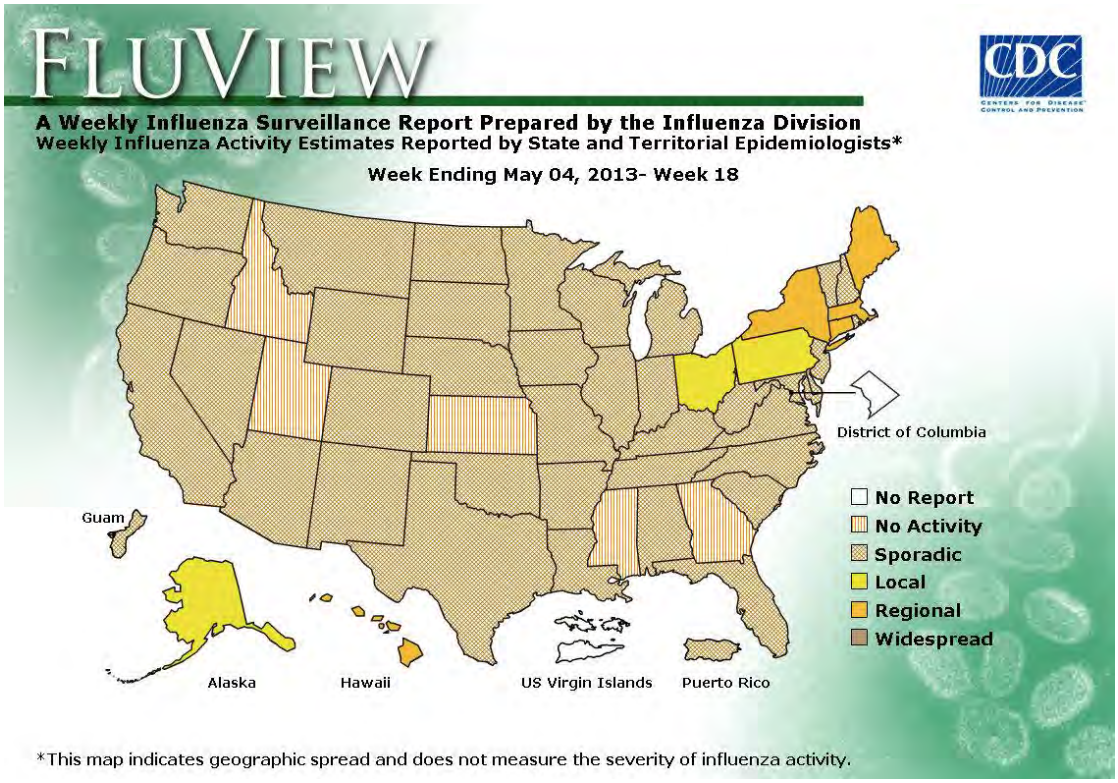
*ESSENCE ILI Baseline is the mean of the values during previous influenza seasons (week 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.
*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 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 May 11, 2013 (Week 19)



*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 2.12%. The 5-14 year age group has increased to 5.17%, the 15-64 year age group has increased to 2.05%, and the 65 and older age group has increased to 4.89% in Week 19.



For the week ending May 11, 2013 (Week 19), Missouri reported **Sporadic** to the CDC**.** Sporadic is defined as: influenza-like illness activity has not increased and there are isolated lab-confirmed cases or a lab- confirmed outbreak in a single institution in the state.

For the week ending May 4, 2013 (Week 18), Flu View reported no states with widespread activity, five states reported regional influenza activity, three states reported local influenza activity, 37 states reported sporadic influenza activity and five states reported no 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).