



Missouri Weekly Influenza Report 2013-2014 Season¹

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](#).

Week 4: January 19 – January 25, 2014

Summary

National:

- According to this week's CDC's FluView report, flu activity remains high overall but is declining in parts of the country while increasing in other parts of the country.
- H1N1 viruses continue to predominate across the country. Anyone aged 6 months and older who has not received a flu vaccine yet this season should get one as soon as possible after consulting with a health care provider. All flu vaccines are designed to protect against H1N1 viruses.

State:

- Missouri is reporting Widespread Influenza Activity to CDC, with 14,856 influenza cases reported season-to-date. This represents all laboratory and aggregate influenza reports. Widespread Activity is defined as: Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the state.
- A total of ten specimens were received by the State Public Health Laboratory for viral testing during week 4; two were positive for 2009 H1N1 Influenza and eight were negative. The most common influenza subtype detected by the State Public Health Laboratory has been 2009 H1N1 Influenza this season.
- There have been no reported outbreaks or school closures due to Influenza-like Illness for the 2013-2014 season.
- No pediatric influenza-associated deaths were reported in Week 4, no pediatric deaths reported for the 2013-2014 season.
- In Week 4, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 2.7%. Northwest region reported 2.0%, Central region reported 2.7%, Eastern region reported 2.1%, Southeast region reported 3.6%, and Southwest region reported 4.1%.

Table 1. Reported Laboratory cases by for the Week ending January 25, 2014 (Week 4)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 4	949	38	39	1,026

A total of 1,026 cases were reported for week 4. Ten specimens were received by the State Public Health Laboratory for viral testing during week 4. Two were positive for 2009 H1N1 Influenza and eight were negative.

**Table 2. Culture Confirmed cases reported by the State Public Health Laboratory
Reported Current Weekly Count and Season-To-Date
Through the Week ending January 25, 2014 (Week 4)**

Viral Testing	Week 4 Received	Week 4 Positive	Received Season-to-Date	Positive Results 2013-2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		2		50
Influenza A (H3)		0		1
Total	10	2	107	51

**Table 3. Influenza Previous and Current Weekly Count and
Season-to-Date Count by Influenza Type
Through Week Ending January 25, 2014 (Week 4)**

Influenza Type	Week 3	Week 4	2013-2014 Season-to-Date
Influenza A	2,030	949	13,584
Influenza B	72	38	495
Influenza Unknown Or Untyped	144	39	777
Total	2,246	1,026	14,856

*Influenza Season begins Week Ending October 5, 2013 (Week 40)

**Table 4. Influenza Previous Week, Current Week and
Season-to-Date Case Counts and Incidence
Rate By Age Group
Through Week Ending January 25, 2014 (Week 4)**

Age Group	Week 3 Case Count	Incidence Reported Week 3	Week 4 Case Count	Incidence Reported Week 4	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	458	119	193	50	2,875	748
05-14	370	47	172	22	2,490	317
15-64	1,293	32	597	15	8,614	216
65+	125	15	64	7	877	103
Total	2,246	37	1,026	17	14,856	247

*Influenza Season begins Week Ending October 5, 2013 (Week 40)

*Rate per 100,000 population

Table 5. Influenza Previous Week, Current Week and Season-to-Date Case Counts and Incidence Rate By Region Through Week Ending January 25, 2014 (Week 4)

District	Week 3 Case Count	Incidence Reported Week 3	Week 4 Case Count	Incidence Reported Week 4	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	239	36	104	16	1,366	204
EA	532	24	267	12	3,752	168
NW	775	49	356	23	6,726	427
SE	272	57	62	13	1,175	247
SW	428	41	237	22	1,837	174
Total	2,246	37	1,026	17	14,856	247

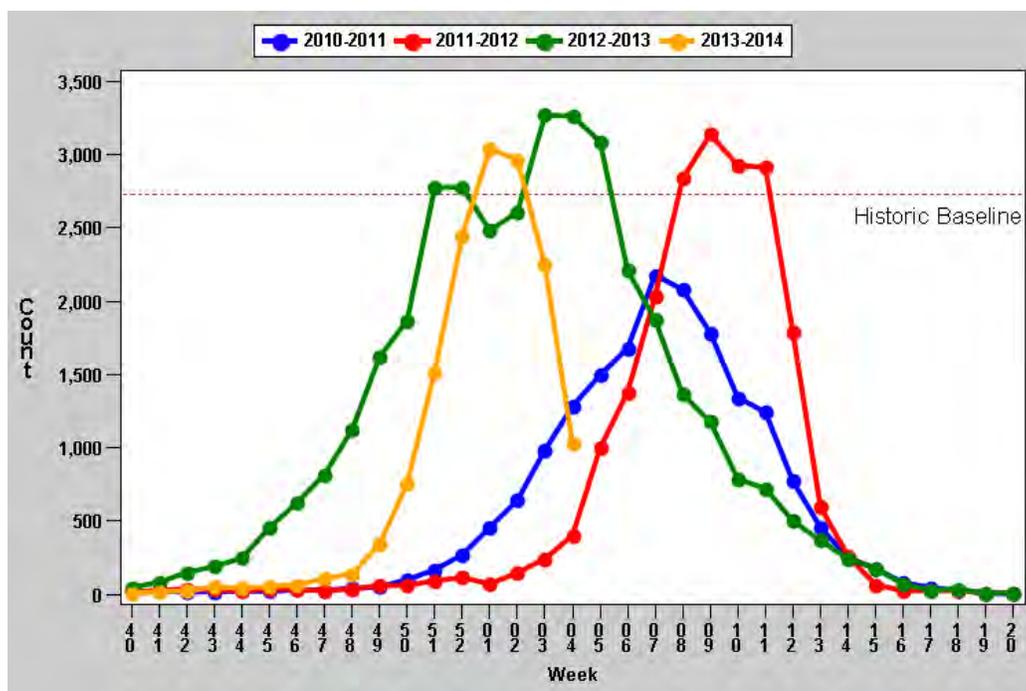
*Influenza Season begins Week Ending October 5, 2013 (Week 40)

*Rate per 100,000 population

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending January 18, 2014 (Week 3)

Week 3	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 3 Last Season
121	1,179	1,267	127

Graph 1. Reported Influenza Cases 2013-2014 Season-To-Date as compared to the previous Three Influenza Seasons Through the Week Ending January 25, 2014 (Week 4)



The number of reported influenza cases for week 4 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending January 25, 2014 (Week 4)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 4	0	0	0	1
Season-to-Date (Week 40-Week 4)	0	2	0	11

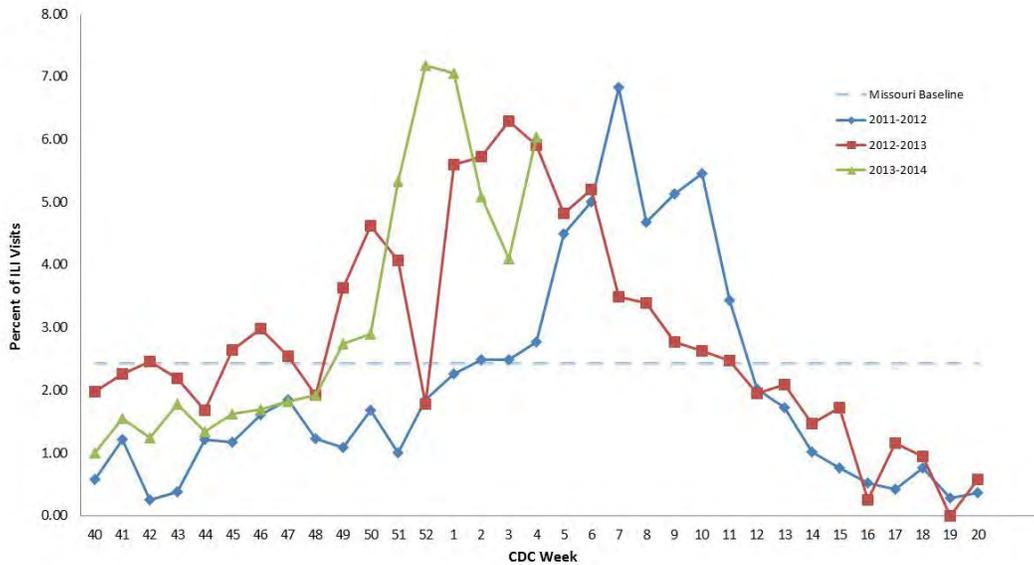
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending January 25, 2014 (Week 4)

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	45	0
Clay*								
Cole	14	9	16	2	4	45	538	8.36
Gasconade*								
Greene*								
Jackson*								
Kansas City*								
Knox	1	0	1	2	0	4	94	4.26
Marion	0	0	0	0	0	0	78	0
McDonald	0	8	12	0	0	20	424	4.72
Moniteau	0	2	2	2	0	6	147	4.08
Nodaway*								
Pettis*								
Phelps	0	5	1	0	0	6	248	2.42
Putnam*								
Reynolds	4	1	0	0	0	5	33	15.15
Saline*								
St. Louis	0	22	1	1	0	24	214	11.21
State Total	19	47	33	7	4	110	1821	6.04

*No weekly data reported.

1. Only counties with sentinel provider(s) are listed above.
2. To learn about ILINet, view the following website: <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>
3. This is above the national baseline of 2.0%.

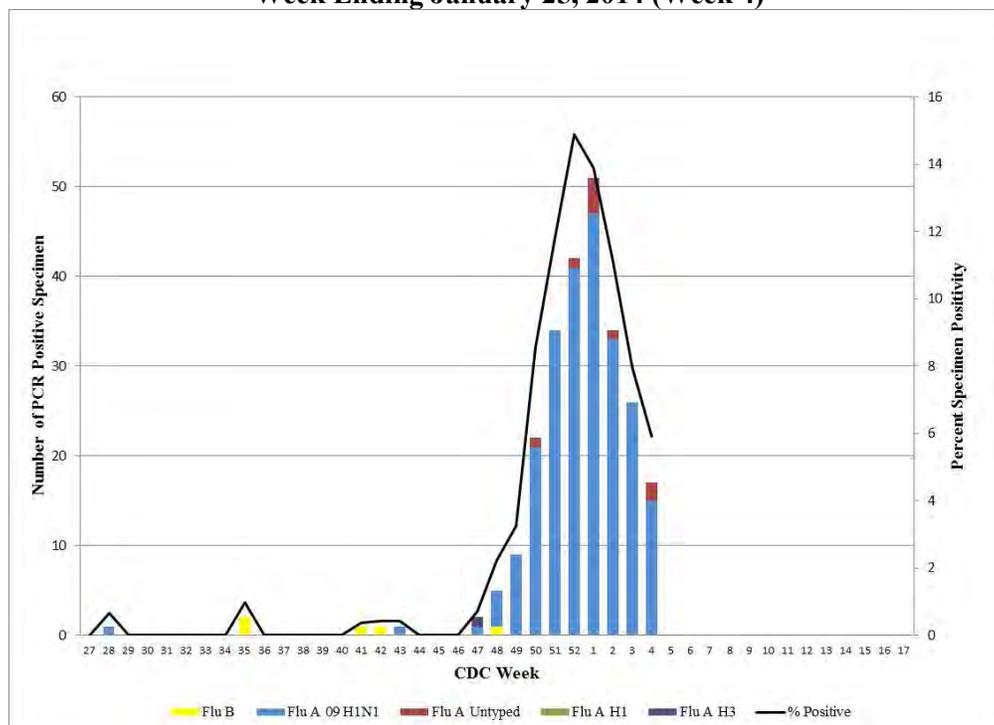
Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2013-2014 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending January 25, 2014 (Week 4)



ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

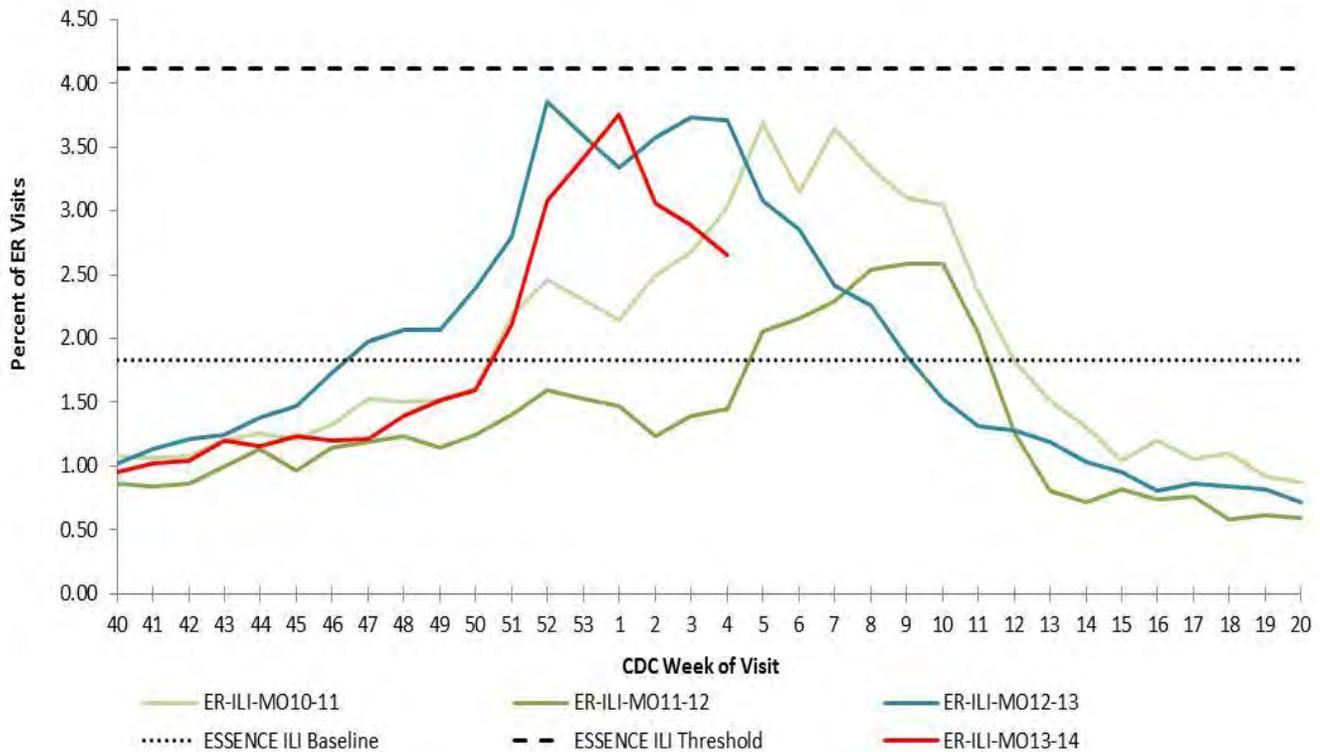
The proportion of patient visits for influenza-like illness is 6.04% for week ending January 25, 2014 (Week 4). This is above Missouri’s baseline of 2.42%.

Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending January 25, 2014 (Week 4)



*This data is based on testing in all age groups in St Louis metro and SE Missouri.

Graph 4. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2010-2014 Influenza Seasons Through the Week Ending January 25, 2014 (Week 4)

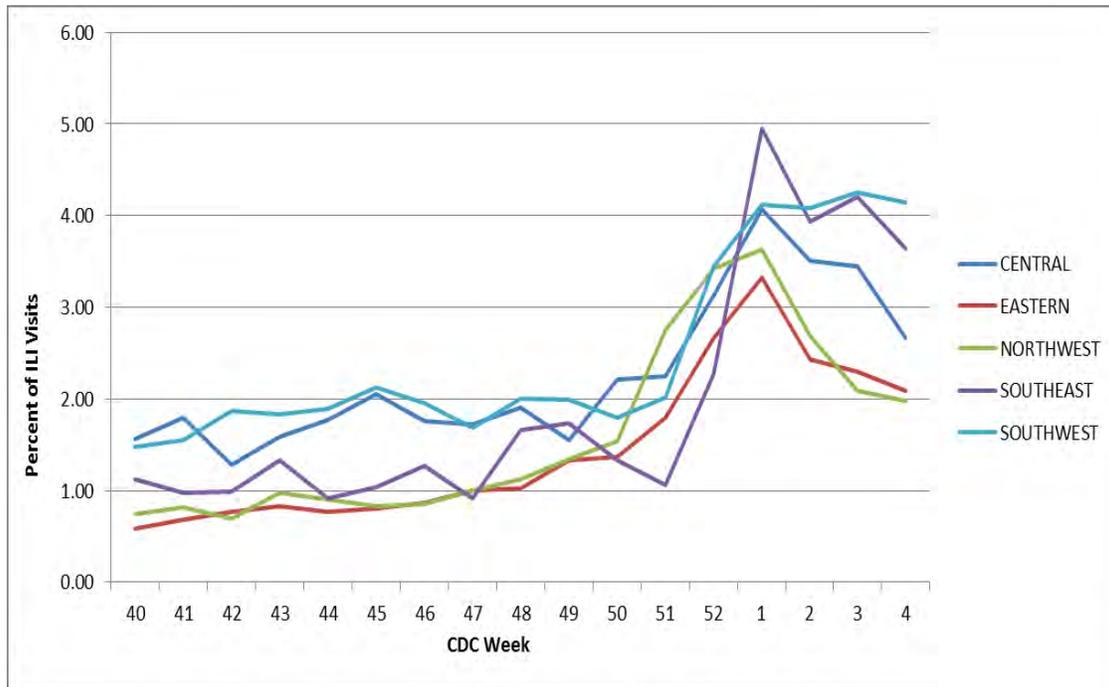


*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.

Table 9. Percentage of Influenza-like Illness (ILI) Visits per Total Visits to Hospital Emergency Rooms from ESSENCE By District and Statewide For Week Ending January 25, 2014 (Week 4)

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	3.6%	2.7%	2.1%	1.3%	0.7%	2.0%
Central	4.9%	6.4%	2.3%	2.2%	0.7%	2.7%
Eastern	3.4%	2.3%	2.3%	2.0%	1.1%	2.1%
Southeast	11.3%	9.1%	2.5%	2.9%	0.7%	3.6%
Southwest	11.8%	9.2%	3.3%	2.6%	0.8%	4.1%
Statewide	5.6%	5.0%	2.5%	2.0%	0.9%	2.7%

Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending January 25, 2014 (Week 4)



Graph 6. Patients Hospitalized with Influenza and/or Pneumonia Syndromes from Participating Missouri Hospitals, by Age Group, Season-to-Date Through the Week Ending January 25, 2014 (Week 4)

