



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 3: January 12 – January 18, 2014

Summary

National:

- According to this week's CDC's FluView report, influenza activity in the United States remains high overall, with some states showing increases in activity while others are experiencing declines in activity.
- 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 12,229 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 21 specimens were received by the State Public Health Laboratory for viral testing during week 3; 15 were positive for 2009 H1N1 Influenza and six 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 3, no pediatric deaths reported for the 2013-2014 season.
- In Week 3, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 2.9%. Northwest region reported 2.1%, Central region reported 3.5%, Eastern region reported 2.3%, Southeast region reported 4.2%, and Southwest region reported 4.3%.

Table 1. Reported Laboratory cases by for the Week ending January 18, 2014 (Week 3)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 3	933	22	49	1,004

A total of 1,004 cases were reported for week 3. Twenty-one specimens were received by the State Public Health Laboratory for viral testing during week 3. Fifteen were positive for 2009 H1N1 Influenza and six 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 18, 2014 (Week 3)**

Viral Testing	Week 3 Received	Week 3 Positive	Received Season-to-Date	Positive Results 2013- 2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		15		48
Influenza A (H3)		0		1
Total	21	15	97	49

**Table 3. Influenza Previous and Current Weekly Count and
Season-to-Date Count by Influenza Type
Through Week Ending January 18, 2014 (Week 3)**

Influenza Type	Week 2	Week 3	2013-2014 Season-to-Date
Influenza A	2,580	933	11,222
Influenza B	56	22	397
Influenza Unknown Or Untyped	112	49	610
Total	2,748	1,004	12,229

*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
Reported Per 100,000 By Age Group
Through Week Ending January 18, 2014 (Week 3)**

Age Group	Week 2 Case Count	Incidence Reported Week 2	Week 3 Case Count	Incidence Reported Week 3	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	554	144	226	59	2,395	623
05-14	330	42	122	16	2,004	255
15-64	1,663	42	574	14	7,085	178
65+	201	24	82	10	745	87
Total	2,748	46	1,004	17	12,229	203

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

Table 5. Influenza Previous Week, Current Week and Season-to-Date Case Counts and Incidence Reported Per 100,000 By Region Through Week Ending January 18, 2014 (Week 3)

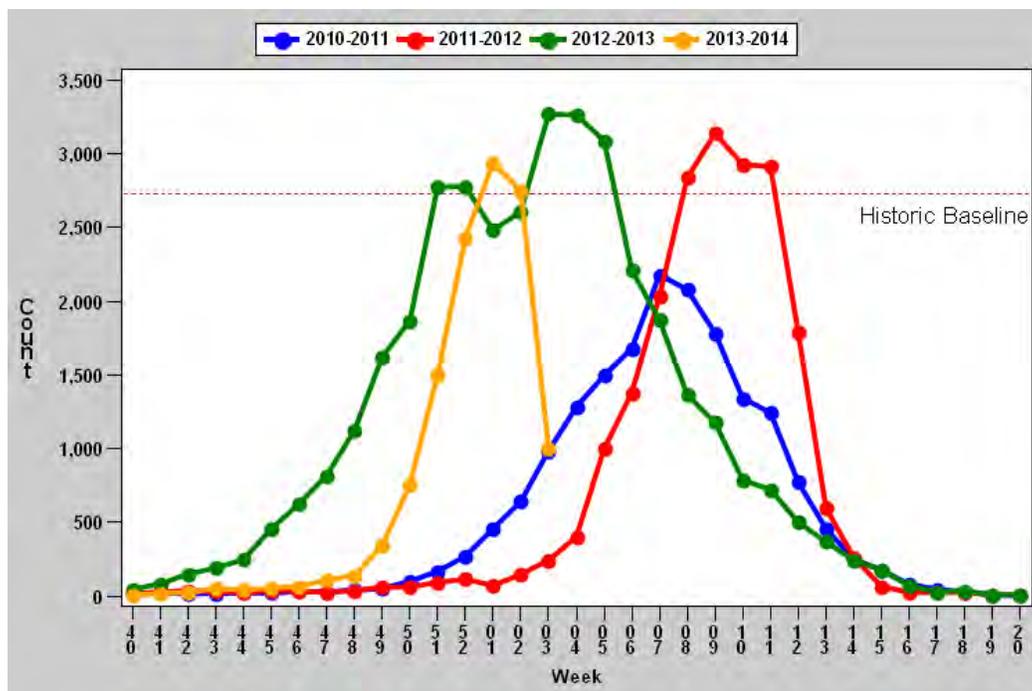
District	Week 2 Case Count	Incidence Reported Week 2	Week 3 Case Count	Incidence Reported Week 3	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	167	25	60	9	947	142
EA	815	36	457	20	3,258	146
NW	1,160	74	319	20	5,869	373
SE	328	69	93	20	934	196
SW	278	26	75	7	1,221	116
Total	2,748	46	1,004	17	12,229	203

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

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending January 11, 2014 (Week 2)

Week 2	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 2 Last Season
113	1,058	127	1,140

Graph 1. Reported Influenza Cases 2013-2014 Season-To-Date as compared to the previous Three Influenza Seasons Through the Week Ending January 18, 2014 (Week 3)



The number of reported influenza cases for week 3 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending January 18, 2014 (Week 3)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 3	0	1	0	3
Season-to-Date (Week 40-Week 3)	0	2	0	10

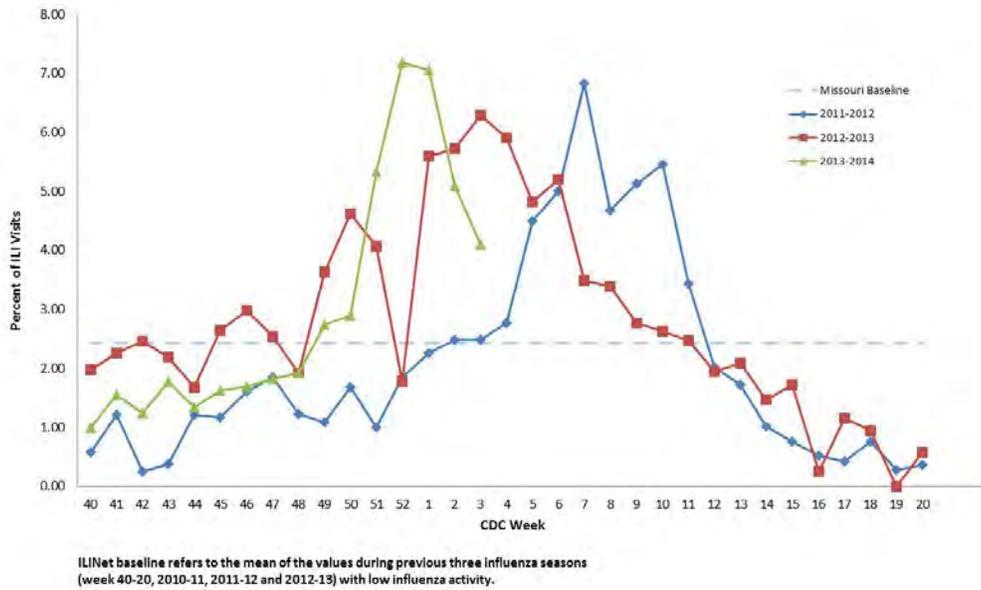
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending January 18, 2014 (Week 3)

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	3	6	0	0	0	9	166	5.42
Audrain*								
Boone	0	0	0	0	0	0	205	0
Callaway*								
Cape Girardeau*								
Clay*								
Cole	8	5	15	8	9	45	598	7.53
Gasconade	4	3	2	3	0	12	368	3.26
Greene*								
Jackson	10	5	0	0	0	15	246	6.1
Kansas City*								
Knox	0	1	0	1	0	2	88	2.27
Marion	0	0	0	0	0	0	81	0
McDonald	0	4	5	0	0	9	437	2.06
Moniteau*								
Nodaway*								
Pettis*								
Phelps	0	0	0	0	0	0	203	0
Putnam	0	2	0	0	2	4	205	1.95
Reynolds*								
Saline*								
St. Louis	0	22	0	0	0	22	275	8
State Total	25	48	22	12	11	118	2872	4.11

*No weekly data reported.

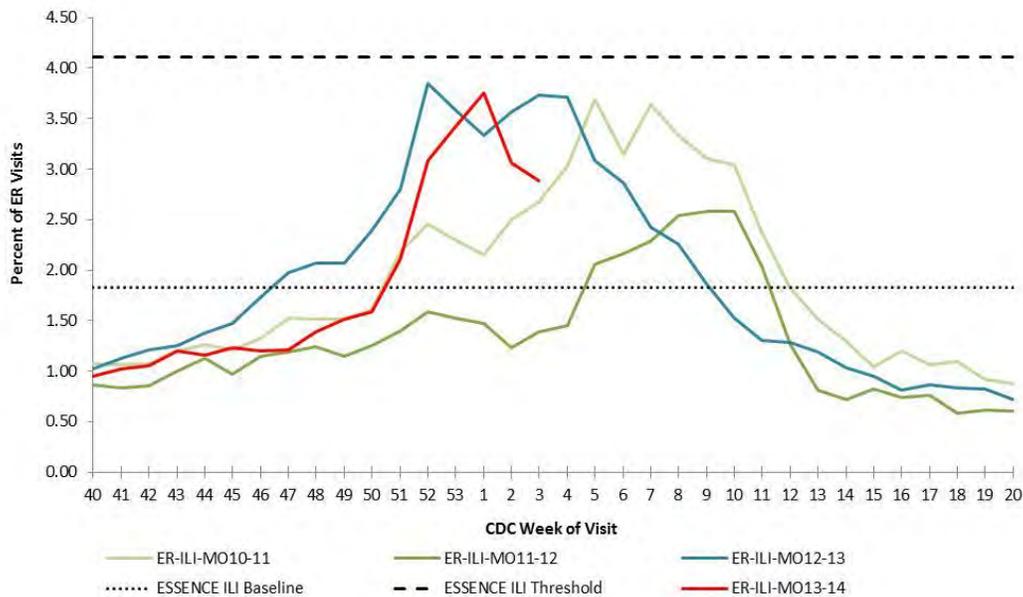
1. Only counties with sentinel provider(s) are listed above.
2. To learn about ILINet, view the following website: <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>
3. This is above the national baseline of 2.0%.

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 18, 2014 (Week 3)



The proportion of patient visits for influenza-like illness is 4.11% for week ending January 18, 2014 (Week 3). This is above Missouri’s baseline of 2.42%.

Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2010-2014 Influenza Seasons Through the Week Ending January 18, 2014 (Week 3)

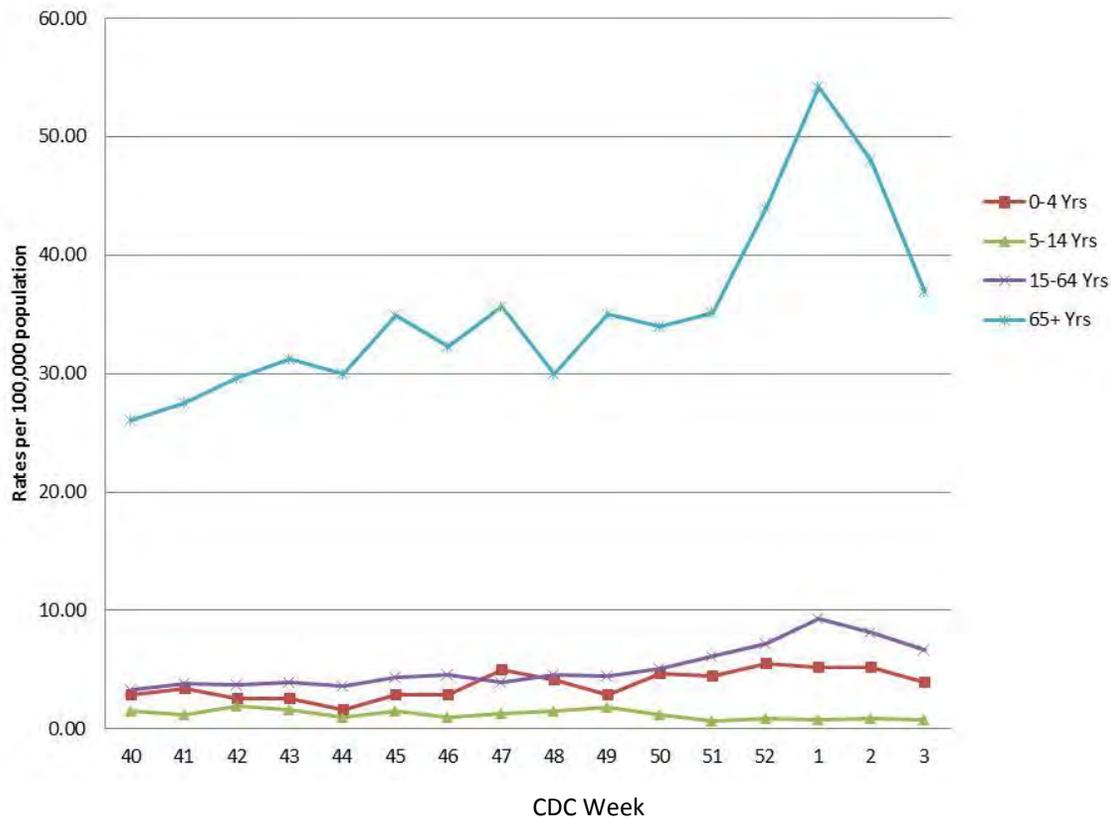


*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.

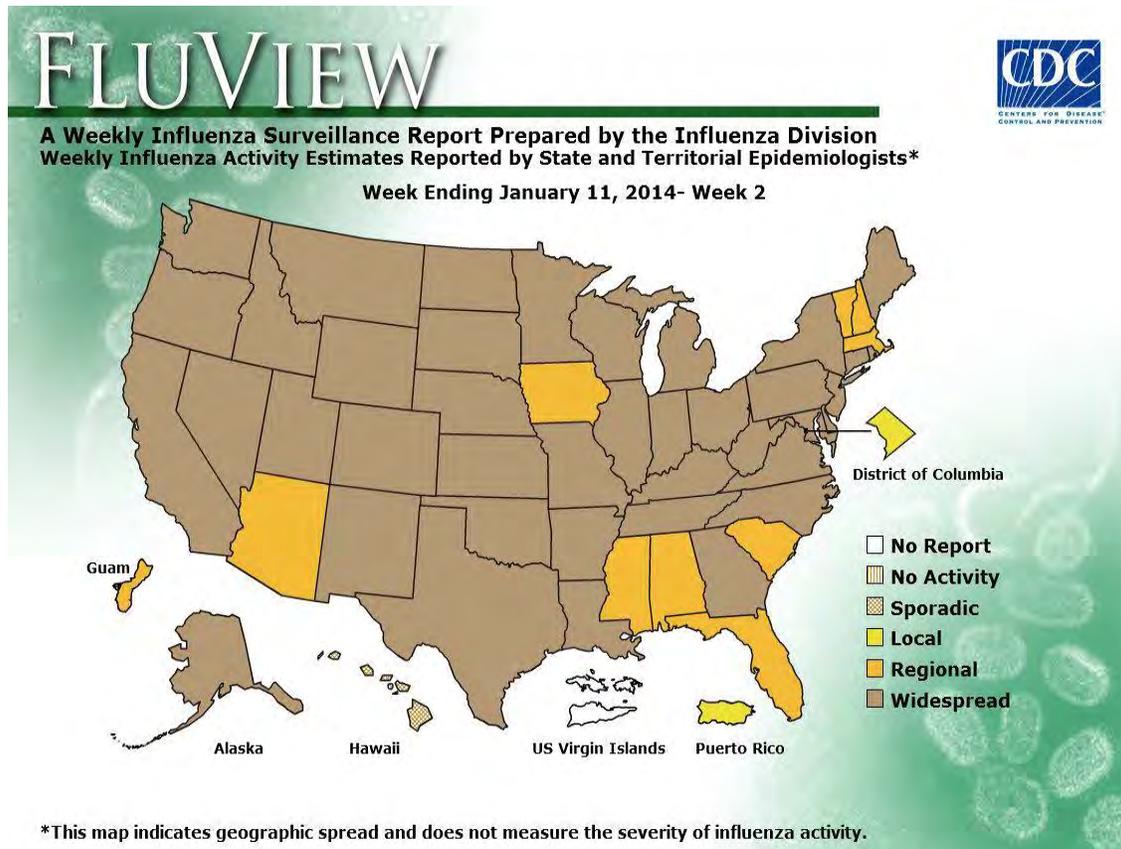
Table 9. Percentage of Influenza-like Illness (ILI) Visits per Total Visits to Hospital Emergency Rooms from ESSENCE By District and Statewide For Week Ending January 18, 2014 (Week 3)

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	3.1%	3.3%	2.2%	1.7%	0.8%	2.1%
Central	10.2%	4.9%	4.0%	1.9%	1.1%	3.5%
Eastern	2.7%	2.4%	3.0%	2.1%	1.0%	2.3%
Southeast	10.6%	10.7%	3.8%	2.0%	1.7%	4.2%
Southwest	12.7%	8.6%	3.9%	2.5%	1.0%	4.3%
Statewide	5.7%	4.9%	3.1%	2.1%	1.0%	2.9%

Graph 4. Rate of Patients Hospitalized for Influenza and/or Pneumonia Syndromes By Age Group from Participating Missouri Hospitals Through the Week Ending January 18, 2014 (Week 3)



*Incidence rates are calculated using the population estimates for the different age groups in Missouri.



For the week ending **January 18, 2014 (Week 3)**, Missouri reported **Widespread** Influenza Activity to the CDC. 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.

For the week ending January 11, 2014 (week 2), Flu View reported 40 states with widespread, nine states reported regional influenza activity, one state reported sporadic influenza activity, and no states reported local 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.

Contact Us

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

¹All data in this report are provisional and may change as reports are updated.

²Influenza activity codes are reported to CDC each Tuesday.

Data Sources: Laboratory-confirmed cases are reported to DHSS through the passive communicable disease surveillance system. 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).