



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 9: February 23 – March 1, 2014

Summary

National:

- According to this week's CDC's FluView report, while influenza activity continues to decrease, it remains slightly elevated nationally.

State:

- Missouri is reporting Regional Influenza Activity to CDC, with 21,084 influenza cases reported season-to-date. This represents all laboratory and aggregate influenza reports. 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.
- A total of two specimens were received by the State Public Health Laboratory for viral testing during week 9; one was positive for 2009 H1N1 Influenza and one was 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 Influenza-like illness outbreaks reported for Week 9. There has been one Influenza-like illness outbreak reported for the 2013-2014 season. There have been no reported school closures due to Influenza-like Illness for the 2013-2014 season.
- No pediatric influenza-associated deaths were reported in Week 9, no pediatric deaths reported for the 2013-2014 season.
- In Week 9, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 2.23%. This is above the national baseline of 2.0% and below Missouri's baseline of 2.42%
- In Week 9, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 1.6%. Northwest region reported 1.3%, Central region reported 1.9%, Eastern region reported 1.1%, Southeast region reported 1.6%, and Southwest region reported 2.8%.

Table 1. Reported Laboratory cases by for the Week ending March 1, 2014 (Week 9)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 9	198	29	5	232

¹Data Source: Missouri Health Information Surveillance System (WebSurv).

A total of 232 cases were reported for week 9. Two specimens were received by the State Public Health Laboratory for viral testing during week 9. One was positive for 2009 H1N1 Influenza and one was 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 March 1, 2014 (Week 9)**

Viral Testing	Week 9 Received	Week 9 Positive	Received Season-to-Date	Positive Results 2013-2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		1		67
Influenza A (H3)		0		1
Total	2	1	146	68

*Data Source: Missouri Health Information Surveillance System (WebSurv).

**Table 3. Influenza Previous and Current Weekly Count and
Season-to-Date Count by Influenza Type
Through Week Ending March 1, 2014 (Week 9)**

Influenza Type	Week 8	Week 9	2013-2014 Season-to-Date
Influenza A	457	198	19,173
Influenza B	51	29	860
Influenza Unknown Or Untyped	34	5	1,051
Total	542	232	21,084

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

*Data Source: Missouri Health Information Surveillance System (WebSurv).

**Table 4. Influenza Previous Week, Current Week and
Season-to-Date Case Counts and Incidence
Rate By Age Group
Through Week Ending March 1, 2014 (Week 9)**

Age Group	Week 8 Case Count	Incidence Reported Week 8	Week 9 Case Count	Incidence Reported Week 9	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	132	34	63	16	4,159	1,082
05-14	75	10	32	4	3,715	473
15-64	306	8	122	3	11,952	300
65+	29	3	15	2	1,258	147
Total	542	9	232	4	21,084	351

*Data Source: Missouri Health Information Surveillance System (WebSurv)

*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 March 1, 2014 (Week 9)

District	Week 8 Case Count	Incidence Reported Week 8	Week 9 Case Count	Incidence Reported Week 9	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	54	8	25	4	2,097	314
EA	154	7	103	5	5,393	241
NW	89	6	28	2	7,834	498
SE	71	15	16	3	2,000	421
SW	174	16	60	6	3,760	356
Total	542	9	232	4	21,084	351

*Data Source: Missouri Health Information Surveillance System (WebSurv).

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

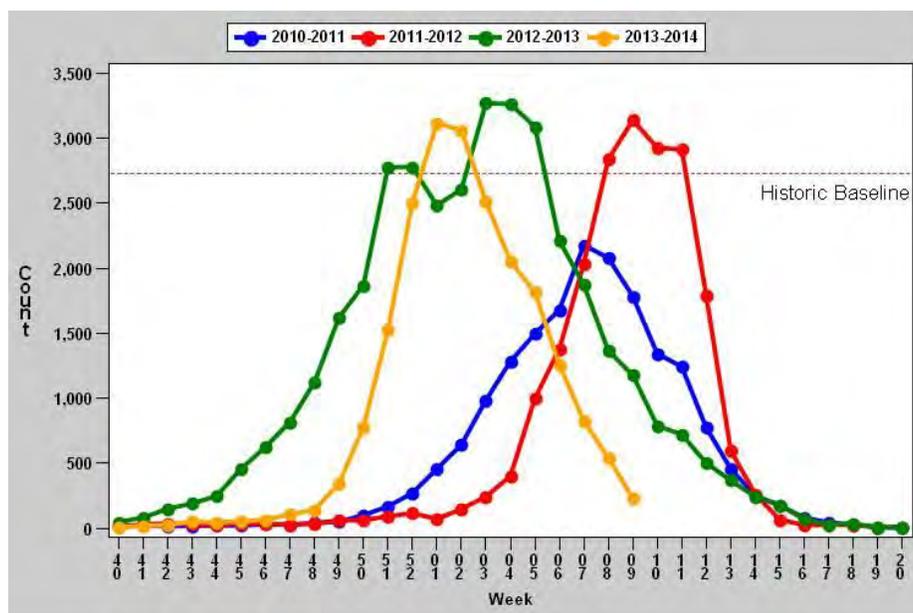
*Rate per 100,000 population

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending February 22, 2014 (Week 8)

Week 8	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 8 Last Season
73	1,647	1,843	91

*Data Source: Bureau of Vital Records

Graph 1. Reported Influenza Cases 2013-2014 Season-To-Date as compared to the previous Three Influenza Seasons Through the Week Ending March 1, 2014 (Week 9)



*Data Source: Missouri Health Information Surveillance System (WebSurv).

The number of reported influenza cases for week 9 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending March 1, 2014 (Week 9)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 9	0	0	0	0
Season-to-Date (Week 40-Week 9)	1	3	0	14

*Data Source: Local Public Health Agencies

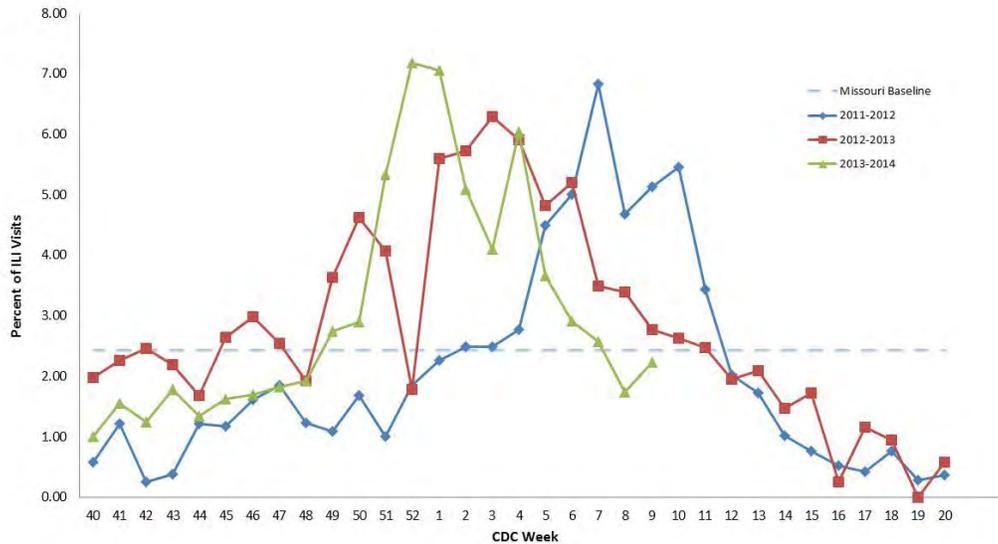
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending March 1, 2014 (Week 9)

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	1	0	0	0	0	1	79	1.27
Clay*								
Cole	7	6	4	2	1	20	584	3.42
Gasconade*								
Greene*								
Jackson	10	19	22	3	4	58	2658	2.18
Kansas City*								
Knox*								
Marion	0	0	0	0	0	0	97	0
McDonald	4	7	1	1	0	13	285	4.56
Moniteau	0	1	0	0	0	1	133	0.75
Nodaway*								
Pettis	0	0	1	0	0	1	304	0.33
Phelps*								
Putnam*								
Reynolds*								
Saline*								
St. Louis	0	3	0	0	0	3	218	1.38
State Total	22	36	28	6	5	97	4358	2.23

*No weekly data reported.

1. Only counties with sentinel provider(s) are listed above.
2. This is above the national baseline of 2.0%.
3. Data Source: U.S. Outpatient Influenza-like Illness Surveillance Network (ILI)
4. To learn about ILINet, view the following website: <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>

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 March 1, 2014 (Week 9)

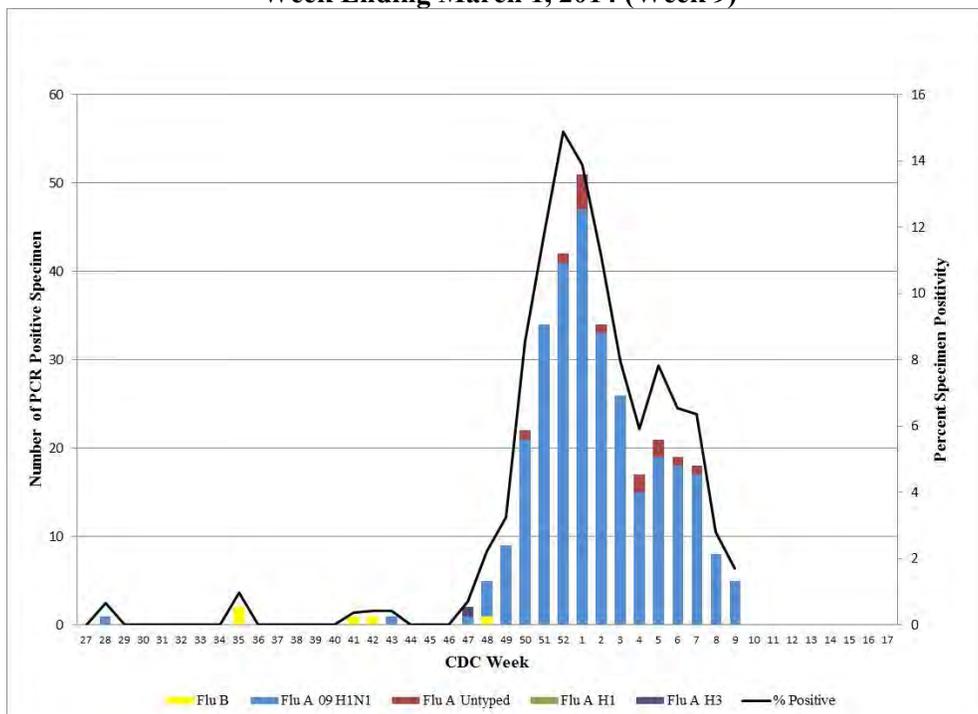


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

*Data Source: U.S. Outpatient Influenza-like Illness Surveillance Network (ILINET)

The proportion of patient visits for influenza-like illness is 2.23% for week ending March 1, 2014 (Week 9). This is below Missouri’s baseline of 2.42%.

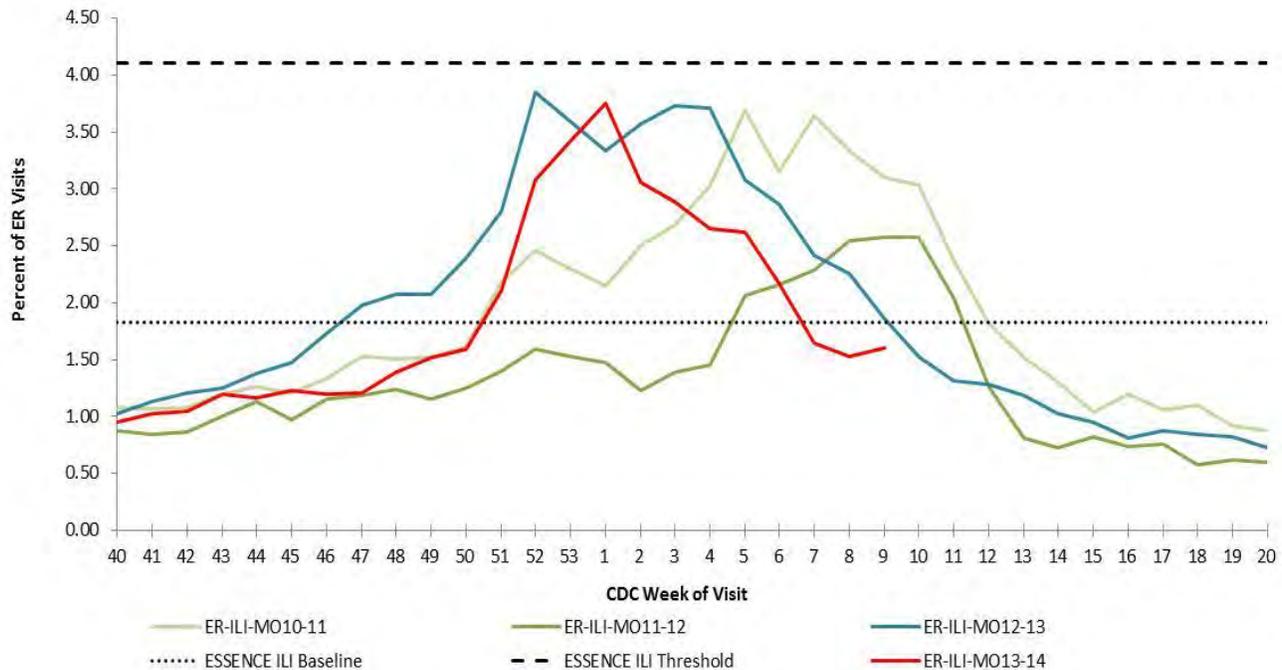
Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending March 1, 2014 (Week 9)



*Data Source: St. Louis Children’s Hospitals

*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 March 1, 2014 (Week 9)



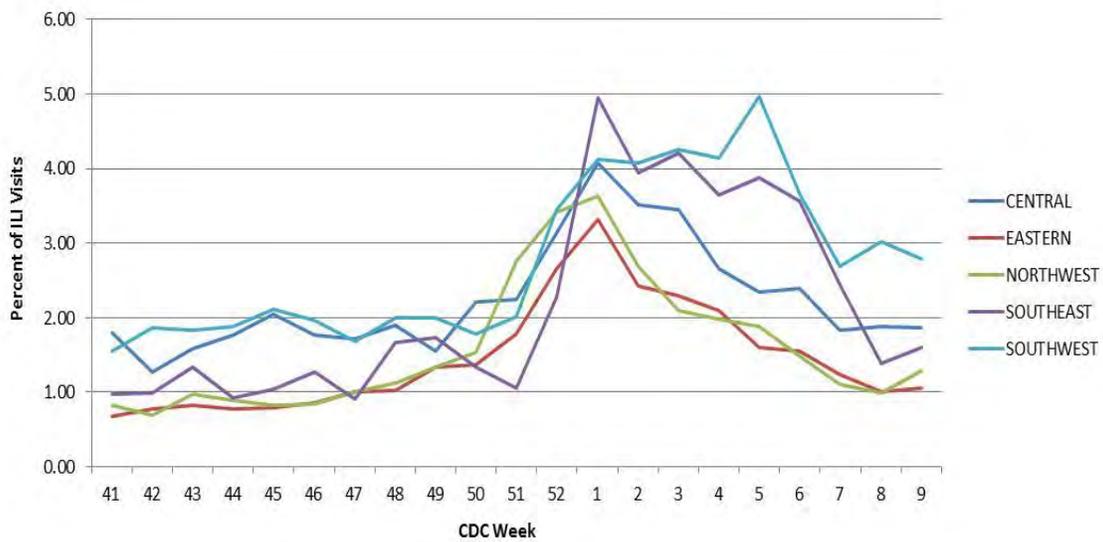
*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.
 *Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

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 March 1, 2014 (Week 9)

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	2.7%	3.1%	1.0%	0.8%	0.4%	1.3%
Central	7.1%	3.2%	1.3%	0.8%	0.7%	1.9%
Eastern	2.0%	2.3%	1.1%	0.7%	0.3%	1.1%
Southeast	5.3%	4.1%	1.0%	1.3%	0.5%	1.6%
Southwest	10.4%	5.2%	1.5%	1.4%	1.0%	2.8%
Statewide	4.6%	3.4%	1.2%	0.9%	0.5%	1.6%

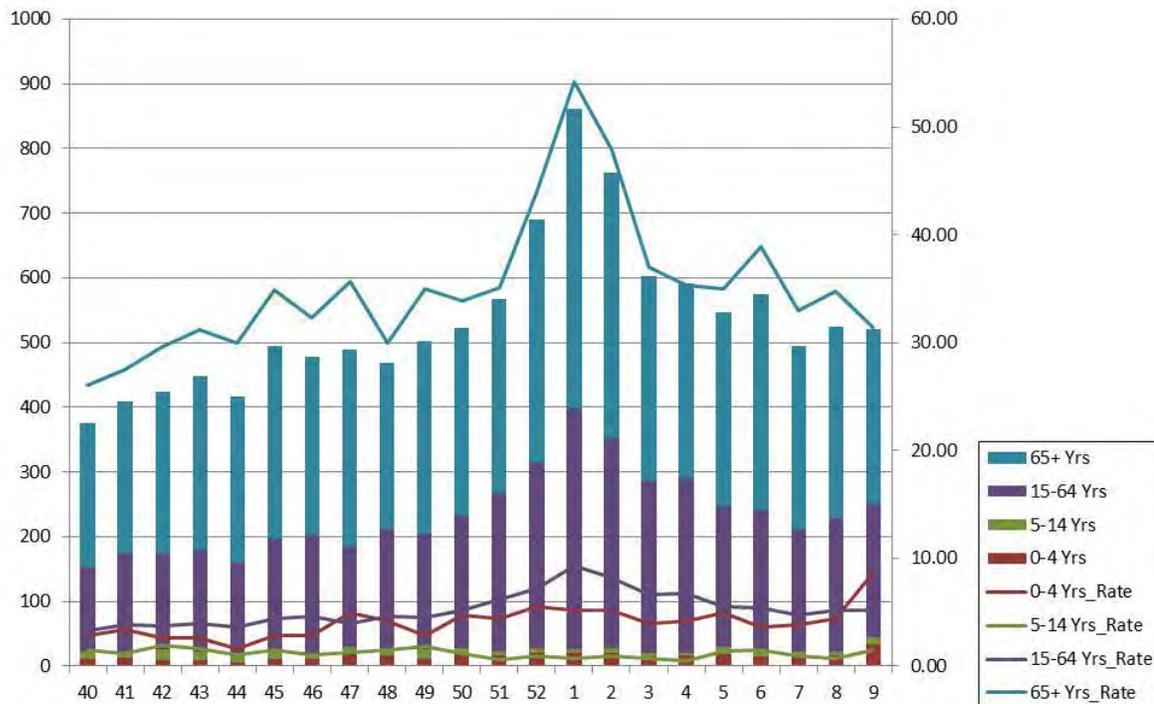
*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending March 1, 2014 (Week 9)



*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 6. Patients Hospitalized with Influenza and/or Pneumonia Syndromes from Participating Missouri Hospitals, by Age Group, Season-to-Date Through the Week Ending March 1, 2014 (Week 9)



*Data Source: Hospitalization Data From: MODHSS (Missouri Department of Health and Senior Services). HL7 Messaging Portal. Retrieved 2014, January 28, from <http://intsvcs1.cds.state.mo.us/msgportal/> Population Data From: MODHSS (Missouri Department of Health and Senior Services). MICA. Population MICA 2012. Retrieved from <http://health.mo.gov/data/mica/mica/population.php>

