



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 10: March 2 – March 8, 2014

Summary

National:

- According to this week's CDC's FluView report, influenza activity continues to decrease nationwide.

State:

- Missouri is reporting Local Influenza Activity to CDC, with 21,364 influenza cases reported season-to-date. This represents all laboratory and aggregate influenza reports. Local Activity 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.
- One specimen was received by the State Public Health Laboratory for viral testing during week 10; it was positive for Influenza A H3. 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 10. 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 10, no pediatric deaths reported for the 2013-2014 season.
- In Week 10, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 1.55%. This is below the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 10, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 1.5%. Northwest region reported 1.4%, Central region reported 2.0%, Eastern region reported 0.8%, Southeast region reported 1.3%, and Southwest region reported 2.8%.

Table 1. Reported Laboratory cases by for the Week ending March 8, 2014 (Week 10)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 10	121	19	5	145

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

A total of 145 cases were reported for week 10. One specimen was received by the State Public Health Laboratory for viral testing during week 10. It was positive for Influenza A H3.

**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 8, 2014 (Week 10)**

Viral Testing	Week 10 Received	Week 10 Positive	Received Season-to-Date	Positive Results 2013-2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		0		67
Influenza A (H3)		1		2
Total	1	1	147	69

*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 8, 2014 (Week 10)**

Influenza Type	Week 9	Week 10	2013-2014 Season-to-Date
Influenza A	274	121	19,393
Influenza B	52	19	907
Influenza Unknown Or Untyped	8	5	1,064
Total	334	145	21,364

*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 8, 2014 (Week 10)**

Age Group	Week 9 Case Count	Incidence Reported Week 9	Week 10 Case Count	Incidence Reported Week 10	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	77	20	29	8	4,206	1,094
05-14	53	7	32	4	3,779	481
15-64	182	5	76	2	12,102	304
65+	22	3	8	1	1,277	149
Total	334	6	145	2	21,364	355

*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 8, 2014 (Week 10)

District	Week 9 Case Count	Incidence Reported Week 9	Week 10 Case Count	Incidence Reported Week 10	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	49	7	13	2	2,151	322
EA	115	5	42	2	5,453	244
NW	55	3	54	3	7,917	503
SE	39	8	26	5	2,050	431
SW	76	7	10	1	3,793	359
Total	334	6	145	2	21,364	355

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

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

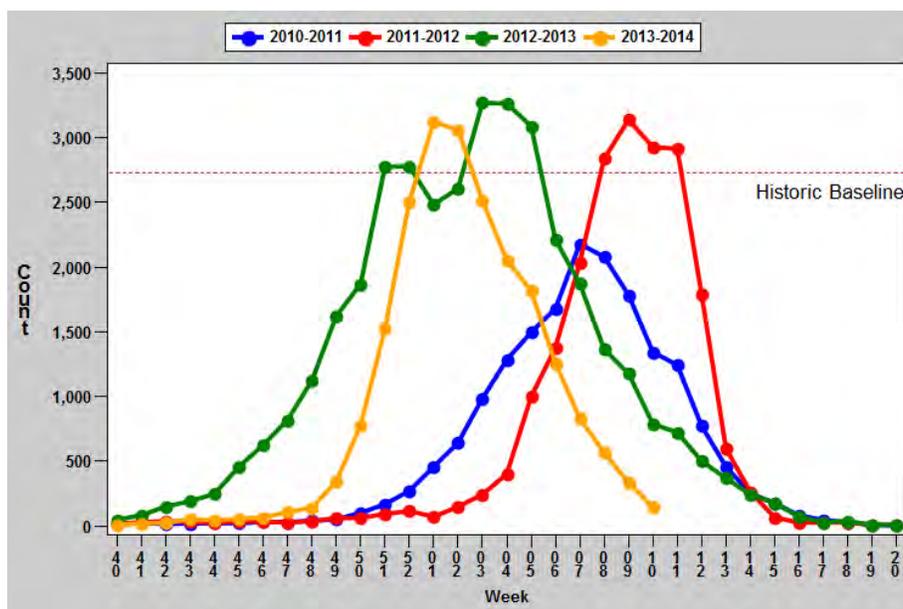
*Rate per 100,000 population

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending March 1, 2014 (Week 9)

Week 9	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 9 Last Season
65	1,712	1,932	89

*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 8, 2014 (Week 10)



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

The number of reported influenza cases for week 10 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending March 8, 2014 (Week 10)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 10	0	0	0	0
Season-to-Date (Week 40-Week 10)	1	3	0	14

*Data Source: Local Public Health Agencies

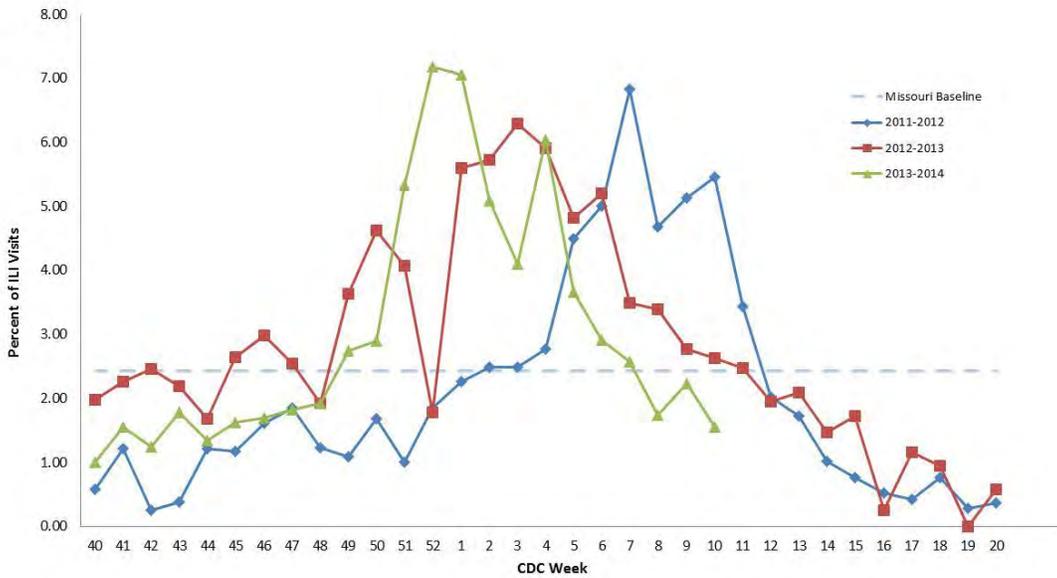
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending March 8, 2014 (Week 10)

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	3	0	0	0	3	145	2.07
Audrain*								
Boone	0	2	1	0	0	3	699	0.43
Callaway*								
Cape Girardeau*								
Clay*								
Cole	6	1	4	1	2	14	573	2.44
Gasconade*								
Greene	0	0	1	0	0	1	714	0.14
Jackson	19	14	18	2	5	58	2553	2.27
Kansas City*								
Knox*								
Marion	0	0	0	0	0	0	87	0
McDonald	1	2	2	1	1	7	243	2.88
Moniteau	0	0	0	0	0	0	152	0
Nodaway*								
Pettis*								
Phelps	0	1	0	0	0	1	303	0.33
Putnam*								
Reynolds*								
Saline*								
St. Louis	0	1	0	0	0	1	210	0.48
State Total	26	24	26	4	8	88	5679	1.55

*No weekly data reported.

1. Only counties with sentinel provider(s) are listed above.
2. This is below the national baseline of 2.0%.
3. Data Source: U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)
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 8, 2014 (Week 10)

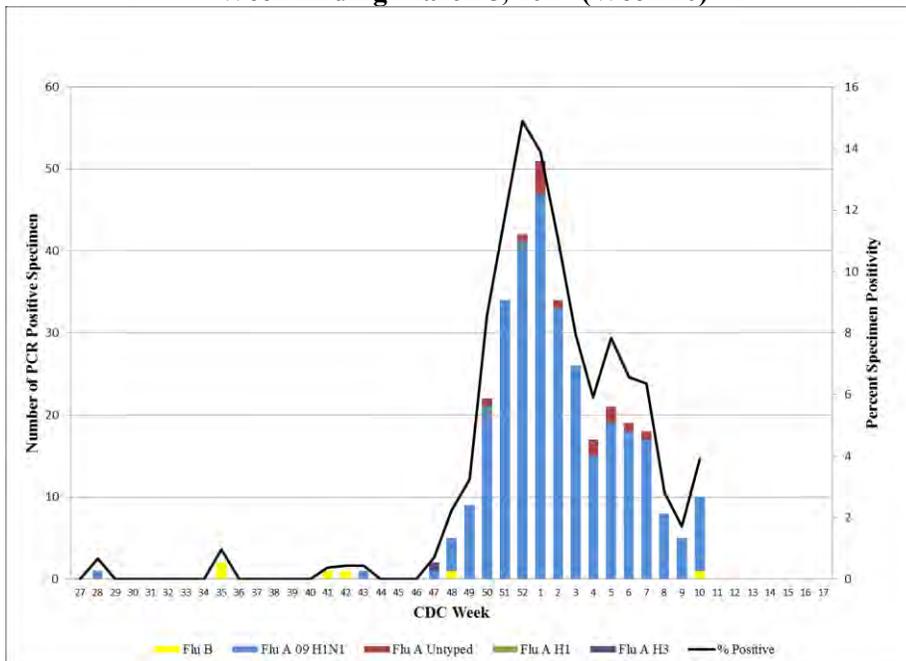


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

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

The proportion of patient visits for influenza-like illness is 1.55% for week ending March 8, 2014 (Week 10). This is below Missouri’s baseline of 2.42%.

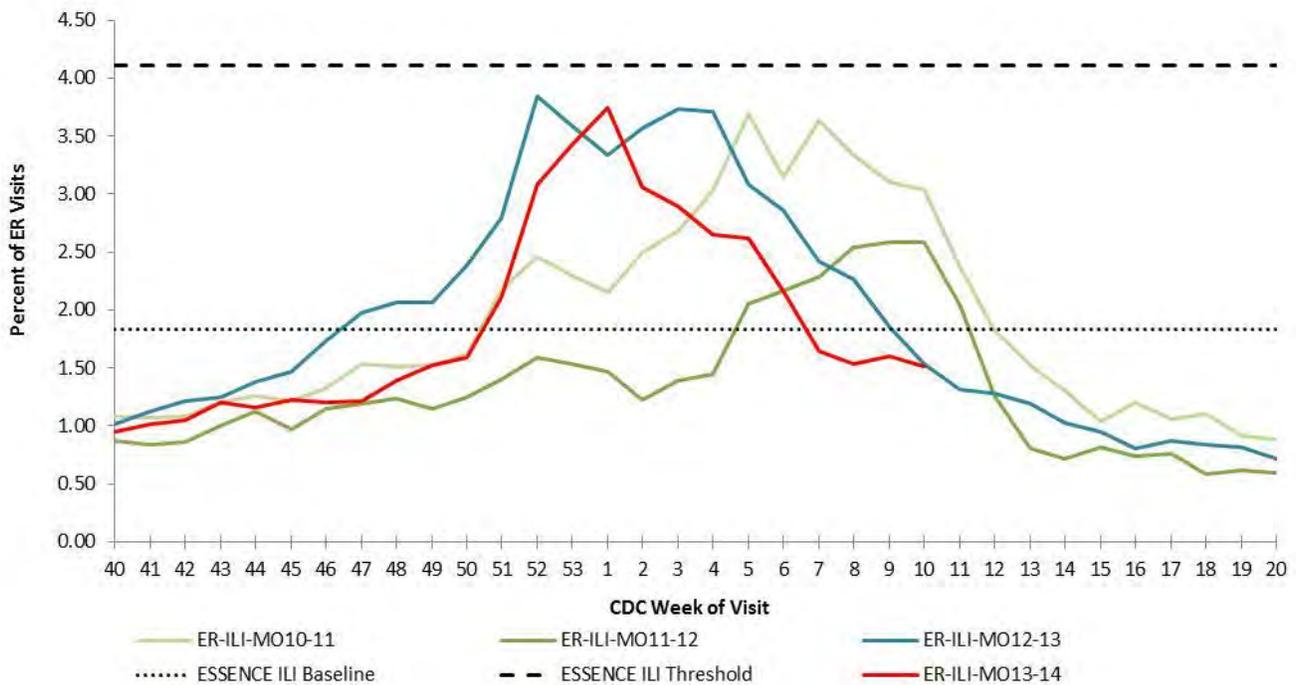
Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending March 8, 2014 (Week 10)



*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 8, 2014 (Week 10)**



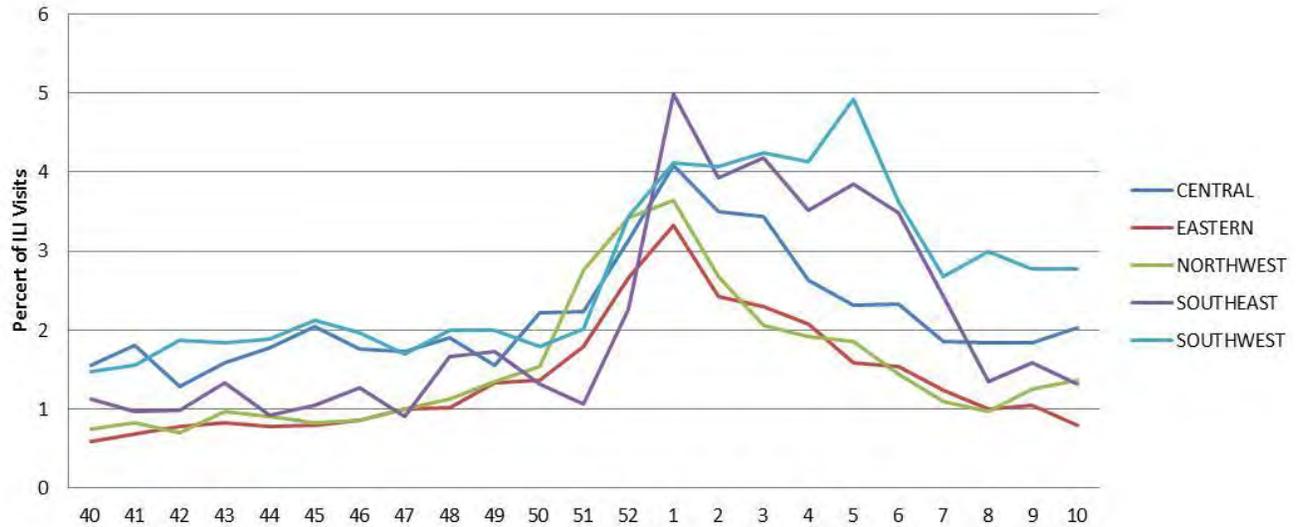
*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.
 *Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance 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 8, 2014 (Week 10)

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	2.9%	3.0%	1.1%	0.5%	0.7%	1.4%
Central	7.1%	3.0%	1.6%	1.1%	0.9%	2.0%
Eastern	2.1%	1.2%	0.8%	0.5%	0.2%	0.8%
Southeast	8.5%	2.6%	0.6%	1.3%	0.5%	1.3%
Southwest	9.9%	5.2%	1.8%	1.4%	0.8%	2.8%
Statewide	4.7%	2.8%	1.2%	0.7%	0.6%	1.5%

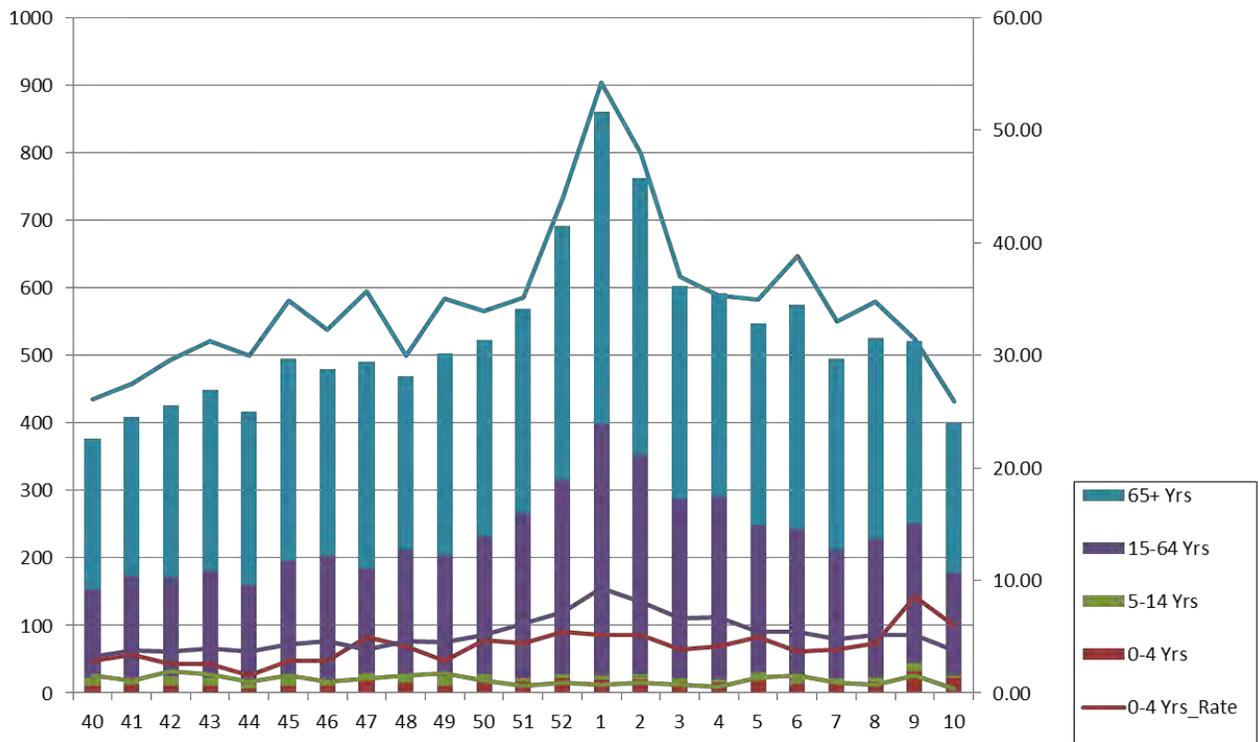
*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending March 8, 2014 (Week 10)



*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 8, 2014 (Week 10)



*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>

