



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 11: March 9 – March 15, 2014

Summary

National:

- According to this week's CDC's FluView report, influenza activity in the United States continues to decline nationally.

State:

- Missouri is reporting Local Influenza Activity to CDC, with 21,689 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 11; it was positive for 2009 H1N1 Influenza. 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 11. 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 11, no pediatric deaths reported for the 2013-2014 season.
- In Week 11, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 1.91%. This is below the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 11, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 1.4%. Northwest region reported 1.2%, Central region reported 1.6%, Eastern region reported 1.0%, Southeast region reported 1.1%, and Southwest region reported 2.2%.

Table 1. Reported Laboratory cases by for the Week ending March 15, 2014 (Week 11)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 11	122	26	2	150

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

A total of 150 cases were reported for week 11. One specimen was received by the State Public Health Laboratory for viral testing during week 11. It was positive for 2009 H1N1 Influenza.

**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 15, 2014 (Week 11)**

Viral Testing	Week 11 Received	Week 11 Positive	Received Season-to-Date	Positive Results 2013-2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		1		68
Influenza A (H3)		0		2
Total	1	1	148	70

*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 15, 2014 (Week 11)**

Influenza Type	Week 10	Week 11	2013-2014 Season-to-Date
Influenza A	235	122	19,673
Influenza B	31	26	947
Influenza Unknown Or Untyped	8	2	1,069
Total	274	150	21,689

*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 15, 2014 (Week 11)**

Age Group	Week 10 Case Count	Incidence Reported Week 10	Week 11 Case Count	Incidence Reported Week 11	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	61	16	32	8	4,280	1,114
05-14	53	7	24	3	3,830	488
15-64	136	3	76	2	12,264	308
65+	24	3	18	2	1,315	154
Total	274	5	150	2	21,689	361

*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 15, 2014 (Week 11)

District	Week 10 Case Count	Incidence Reported Week 10	Week 11 Case Count	Incidence Reported Week 11	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	17	3	14	2	2,171	325
EA	67	3	56	3	5,542	248
NW	78	5	40	3	7,992	508
SE	36	8	8	2	2,079	437
SW	76	7	32	3	3,905	370
Total	274	5	150	2	21,689	361

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

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

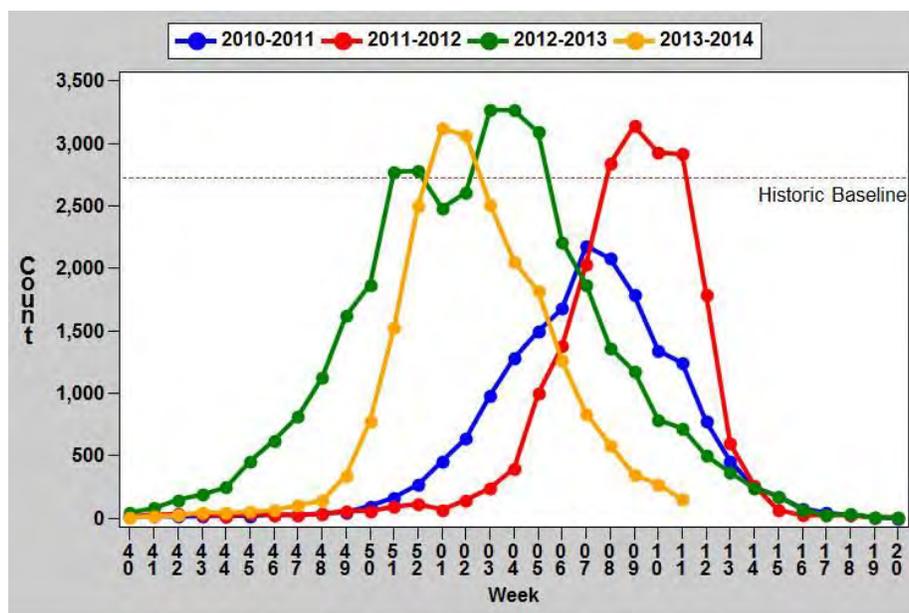
*Rate per 100,000 population

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending March 8, 2014 (Week 10)

Week 10	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 10 Last Season
87	1,799	2,043	111

*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 15, 2014 (Week 11)



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

The number of reported influenza cases for week 11 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending March 15, 2014 (Week 11)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 11	0	1	0	0
Season-to-Date (Week 40-Week 11)	1	4	0	14

*Data Source: Local Public Health Agencies

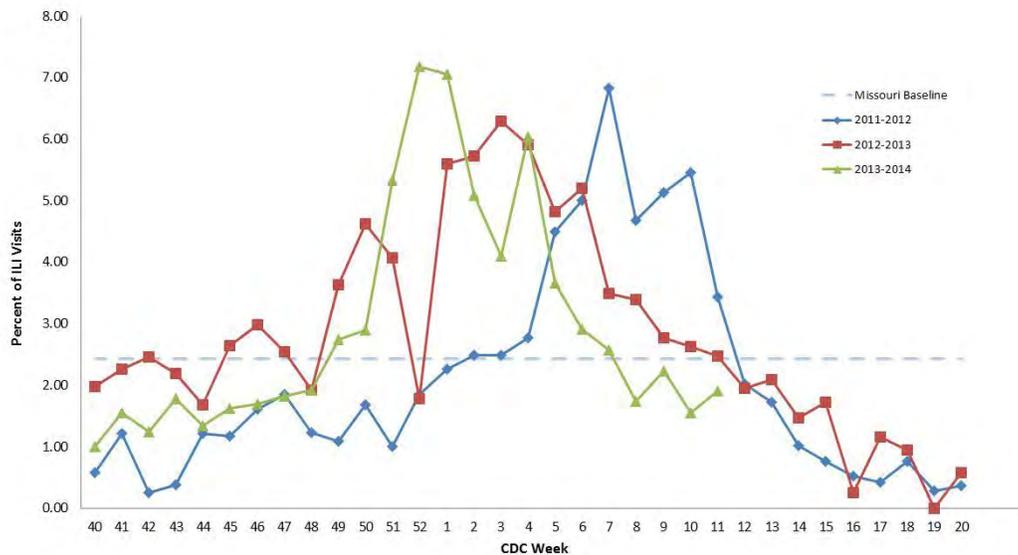
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending March 15, 2014 (Week 11)

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	63	0
Clay*								
Cole*								
Gasconade*								
Greene*								
Jackson*								
Kansas City*								
Knox*								
Marion	0	0	0	0	0	0	81	0
McDonald	2	6	4	2	0	14	356	3.93
Moniteau	0	0	0	0	0	0	100	0
Nodaway*								
Pettis*								
Phelps	0	0	0	0	0	0	281	0
Putnam	1	0	1	0	0	2	229	0.87
Reynolds*								
Saline	1	2	3	2	1	9	173	5.2
St. Louis	0	0	1	0	0	1	78	1.28
State Total	4	8	9	4	1	26	1361	1.91%

*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 (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 15, 2014 (Week 11)

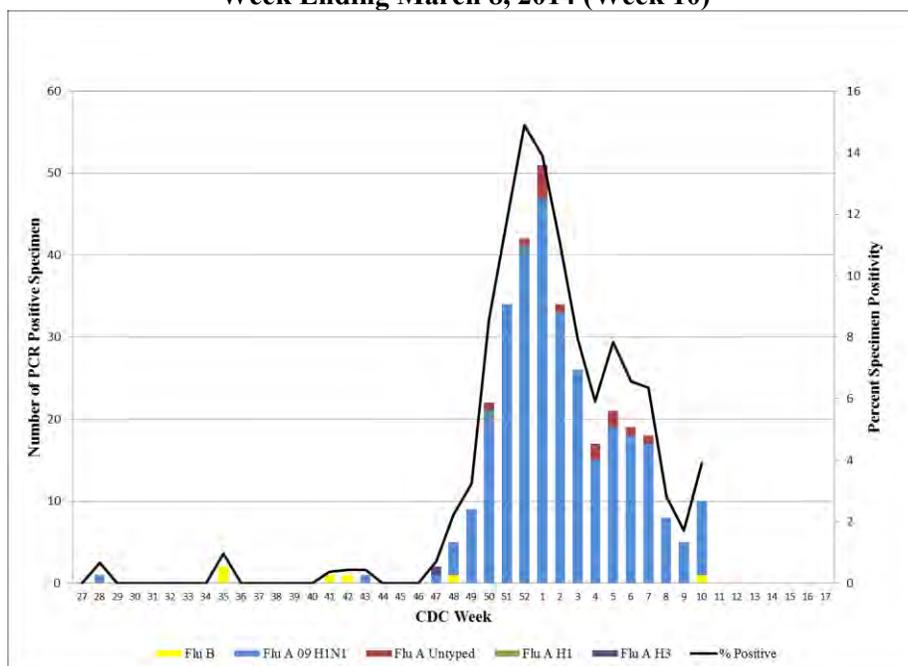


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

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

The proportion of patient visits for influenza-like illness is 1.91% for week ending March 15, 2014 (Week 11). This is below Missouri’s baseline of 2.42%.

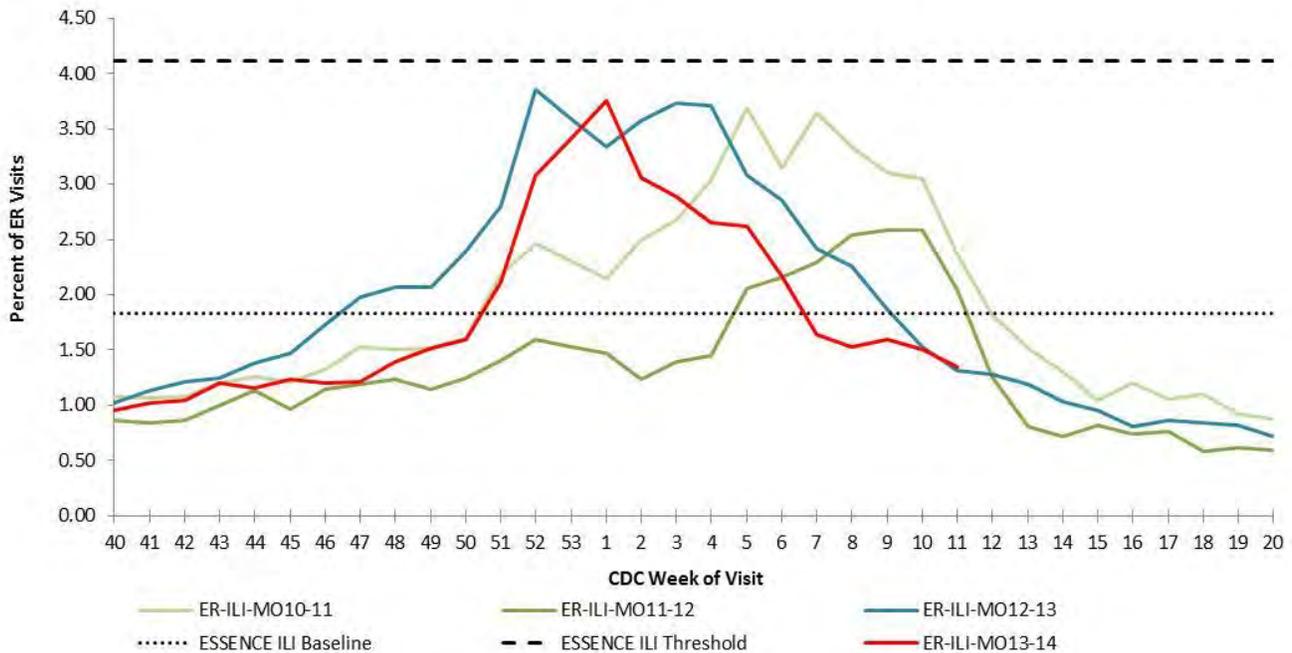
Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending March 8, 2014 (Week 10)



*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 15, 2014 (Week 11)**



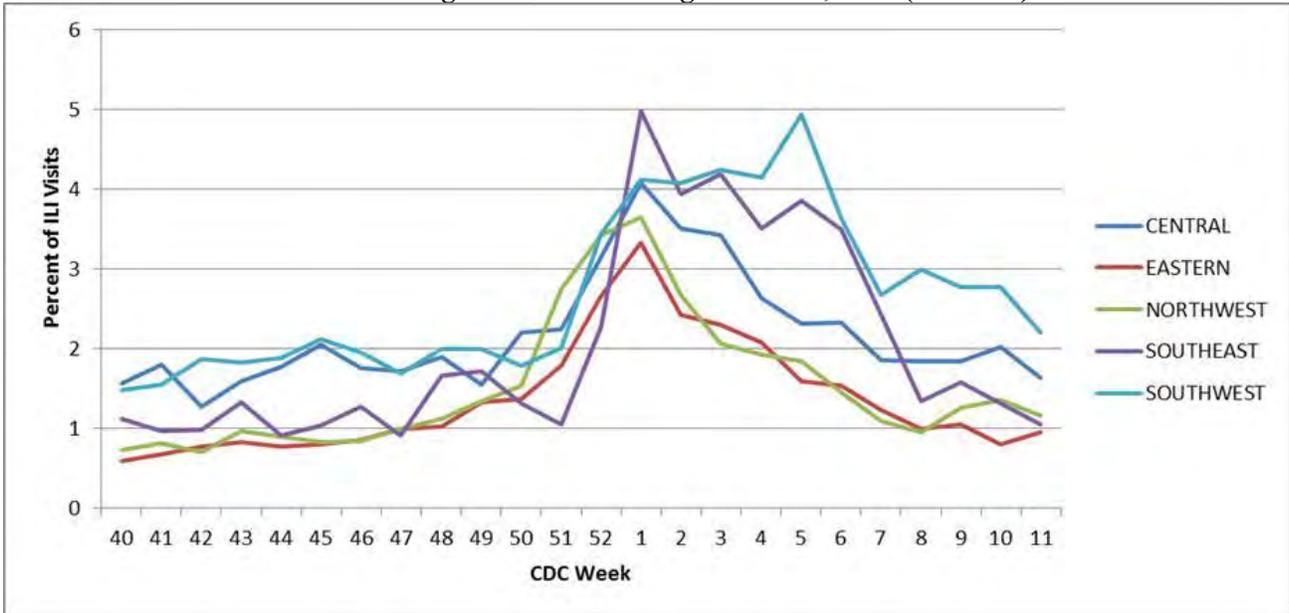
*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.
 *Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance 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 15, 2014 (Week 11)

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	3.3%	2.7%	0.7%	0.7%	0.4%	1.2 %
Central	6.6%	2.3%	1.5%	0.9%	0.2%	1.6%
Eastern	1.9%	1.7%	0.9%	0.8%	0.3%	1.0%
Southeast	2.2%	3.7%	0.7%	0.7%	0.4%	1.1%
Southwest	9.9%	4.7%	1.1%	0.7%	0.7%	2.2%
Statewide	4.4%	2.8%	0.9%	0.8%	0.4%	1.4%

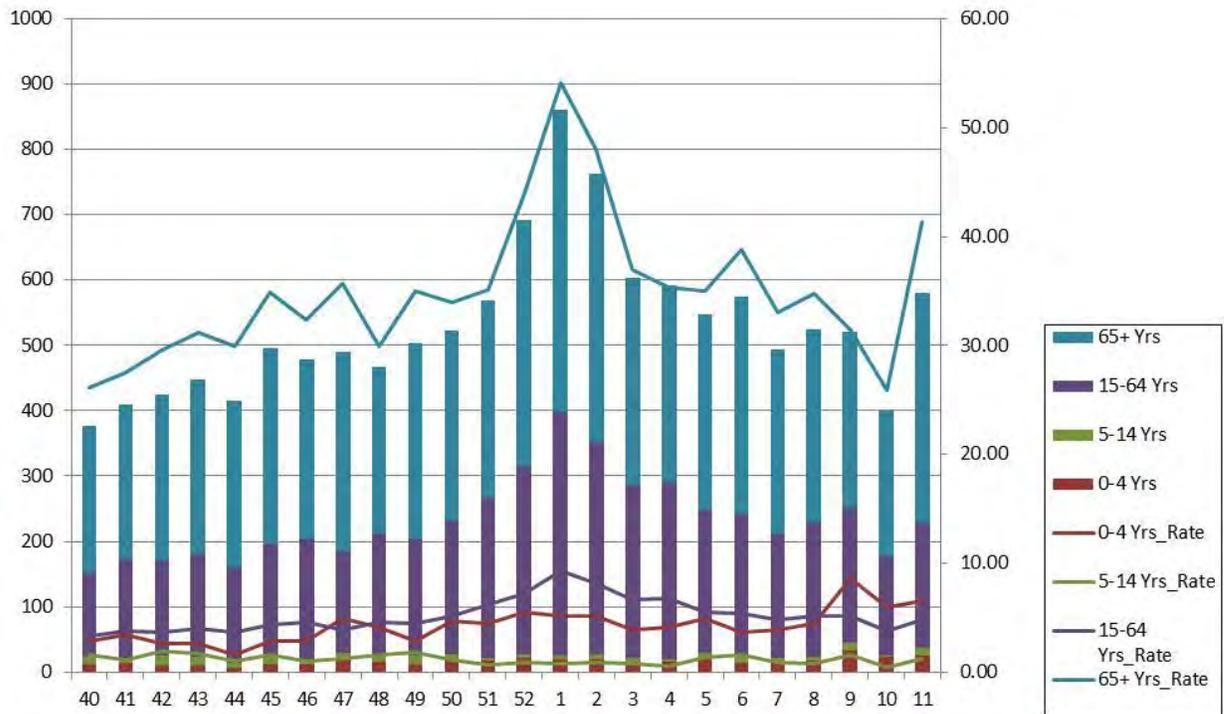
*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending March 15, 2014 (Week 11)

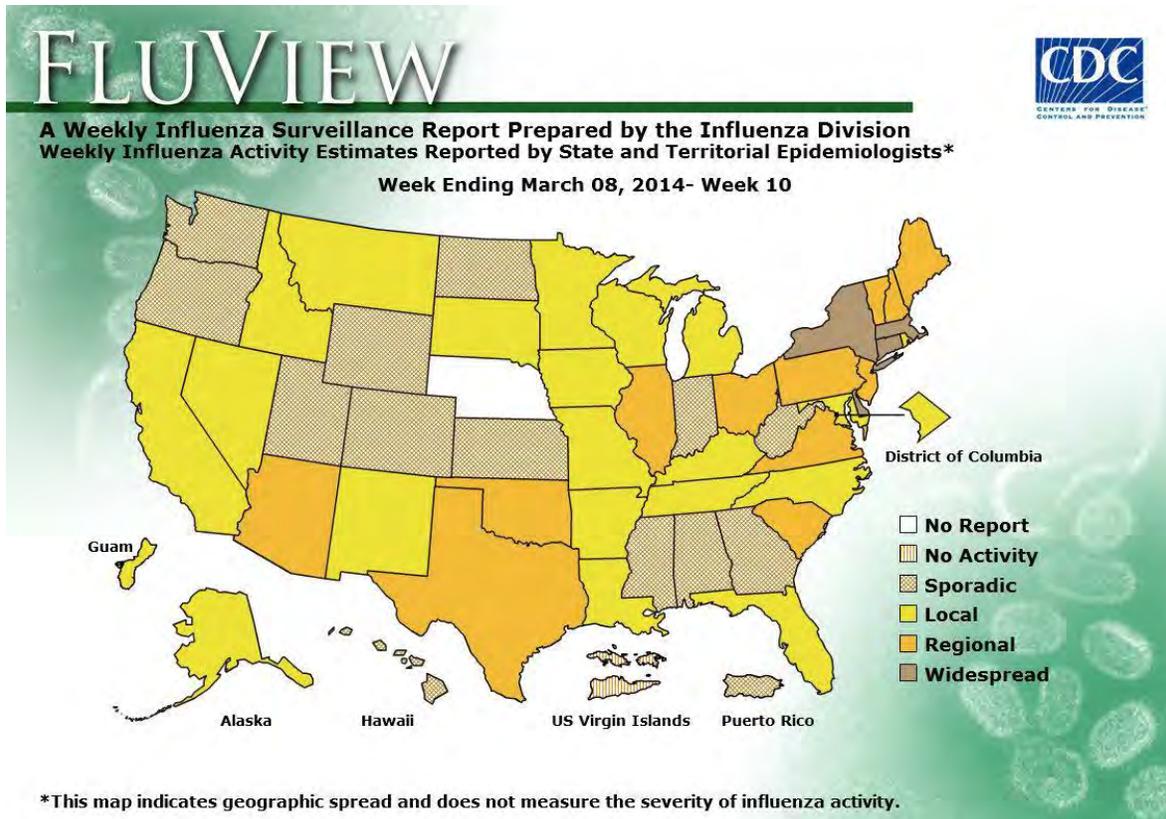


*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from http://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

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 15, 2014 (Week 11)



*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>



For the week ending **March 15, 2014 (Week 11)**, Missouri reported **Local** Influenza Activity to the CDC. Local 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.

For the week ending March 8, 2014 (week 10), Flu View reported four states with widespread, 12 states reported regional influenza activity, 20 states reported local influenza activity, 13 states reported sporadic influenza activity, and one state did not report. 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**.

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

²*Influenza 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).