



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 6: February 2 – February 8, 2014

Summary

National:

- According to this week's CDC's FluView report, influenza activity remains elevated nationally. Some states that saw earlier increases in flu activity are now beginning to see decreases. Other states are continuing to see high levels of flu activity or are seeing continued increases 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 18,499 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 14 specimens were received by the State Public Health Laboratory for viral testing during week 6; four were positive for 2009 H1N1 Influenza and ten were negative. The most common influenza subtype detected by the State Public Health Laboratory has been 2009 H1N1 Influenza this season.
- There has been one Influenza-like illness outbreak reported for Week 6. There have no reported school closures due to Influenza-like Illness for the 2013-2014 season.
- No pediatric influenza-associated deaths were reported in Week 6, no pediatric deaths reported for the 2013-2014 season.
- In Week 6, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 2.92%. This is above the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 6, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 2.2%. Northwest region reported 1.5%, Central region reported 2.4%, Eastern region reported 1.6%, Southeast region reported 3.6%, and Southwest region reported 3.7%.

Table 1. Reported Laboratory cases by for the Week ending February 8, 2014 (Week 6)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 6	775	41	12	828

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

A total of 828 cases were reported for week 6. Fourteen specimens were received by the State Public Health Laboratory for viral testing during week 6. Four were positive for 2009 H1N1 Influenza and ten 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 February 8, 2014 (Week 6)**

Viral Testing	Week 6 Received	Week 6 Positive	Received Season-to-Date	Positive Results 2013- 2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		4		59
Influenza A (H3)		0		1
Total	14	4	129	60

*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 February 8, 2014 (Week 6)**

Influenza Type	Week 5	Week 6	2013-2014 Season-to-Date
Influenza A	1,451	775	16,912
Influenza B	70	41	673
Influenza Unknown Or Untyped	55	12	914
Total	1,576	828	18,499

*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 February 8, 2014 (Week 6)**

Age Group	Week 5 Case Count	Incidence Reported Week 5	Week 6 Case Count	Incidence Reported Week 6	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	331	86	160	42	3,589	934
05-14	381	49	161	20	3,292	419
15-64	783	20	451	11	10,528	264
65+	81	9	56	7	1,089	127
Total	1,576	26	828	14	18,499	308

*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 February 8, 2014 (Week 6)

District	Week 5 Case Count	Incidence Reported Week 5	Week 6 Case Count	Incidence Reported Week 6	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	132	20	84	13	1,655	247
EA	434	19	252	11	4,810	215
NW	275	17	153	10	7,415	471
SE	274	58	92	19	1,682	354
SW	461	44	247	23	2,937	278
Total	1,576	26	828	14	18,499	308

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

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

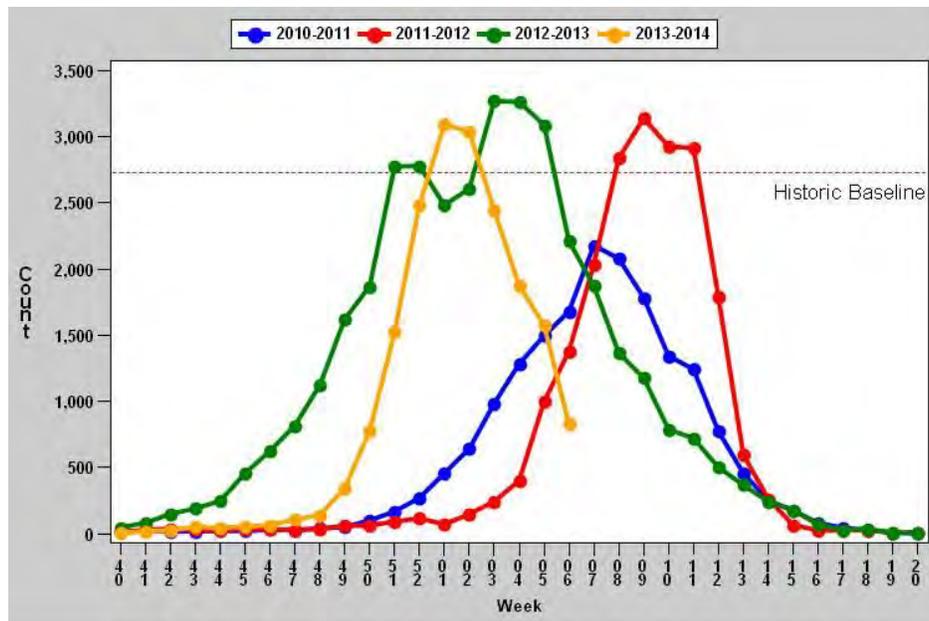
*Rate per 100,000 population

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending February 1, 2014 (Week 5)

Week 5	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 5 Last Season
121	1,400	141	1,520

*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 February 8, 2014 (Week 6)



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

The number of reported influenza cases for week 5 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending February 8, 2014 (Week 6)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 6	1	0	0	1
Season-to-Date (Week 40-Week 6)	1	2	0	14

*Data Source: Local Public Health Agencies

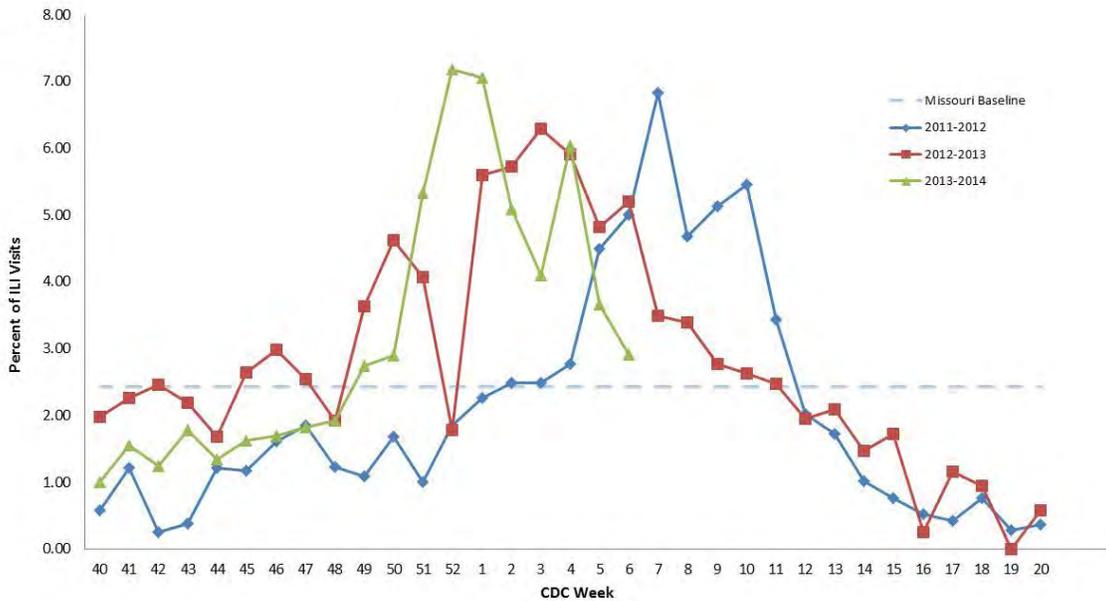
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending February 8, 2014 (Week 6)

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	0	1	5	0	0	6	164	3.66
Cape Girardeau	0	0	0	0	0	0	39	0
Clay*								
Cole	13	6	6	6	2	33	479	6.89
Gasconade*								
Greene*								
Jackson	15	17	25	4	4	65	2491	2.61
Kansas City*								
Knox	0	0	0	0	0	0	72	0
Marion	0	0	0	0	0	0	79	0
McDonald	1	4	2	0	0	7	275	2.55
Moniteau	0	1	1	0	0	2	94	2.13
Nodaway	0	0	0	0	0	0	142	0
Pettis	0	1	0	0	0	1	189	0.53
Phelps	0	2	0	0	0	2	248	0.81
Putnam*								
Reynolds*								
Saline*								
St. Louis	0	14	2	0	0	16	248	6.45
State Total	29	46	41	10	6	132	4520	2.92

*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>

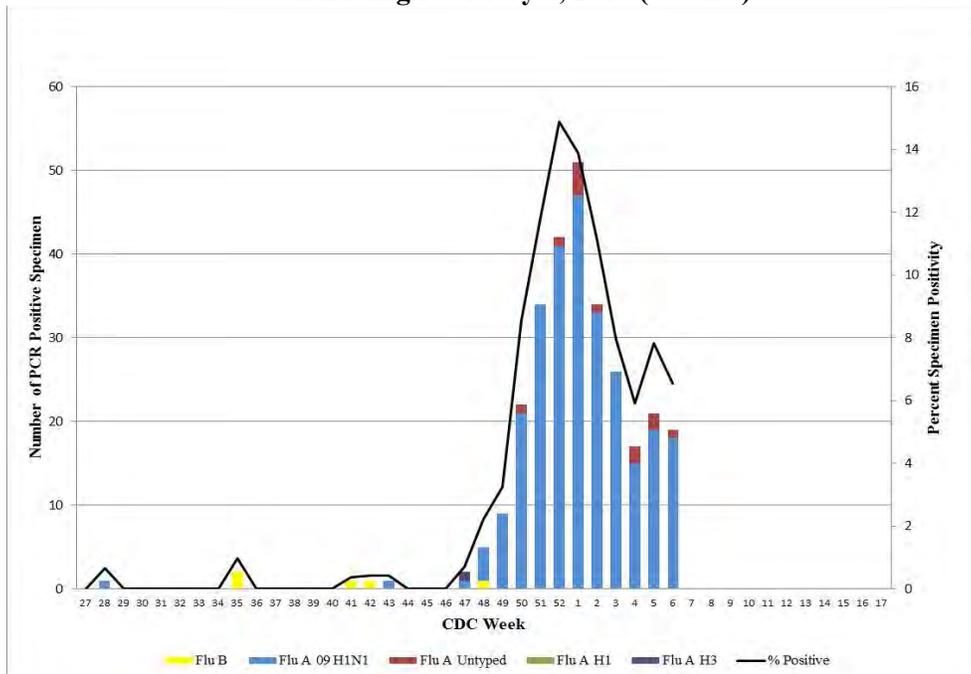
Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2013-2014 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending February 8, 2014 (Week 6)



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)

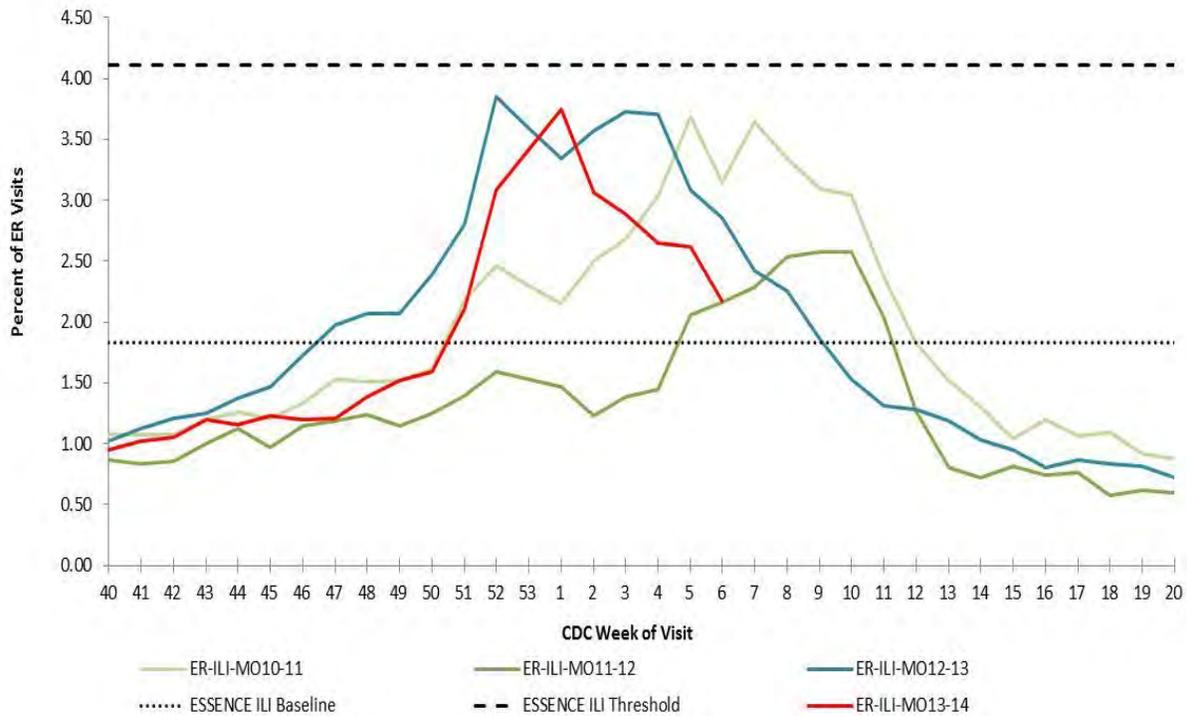
The proportion of patient visits for influenza-like illness is 2.92% for week ending February 8, 2014 (Week 6). This is above Missouri’s baseline of 2.42%.

Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending February 8, 2014 (Week 6)



*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 February 8, 2014 (Week 6)



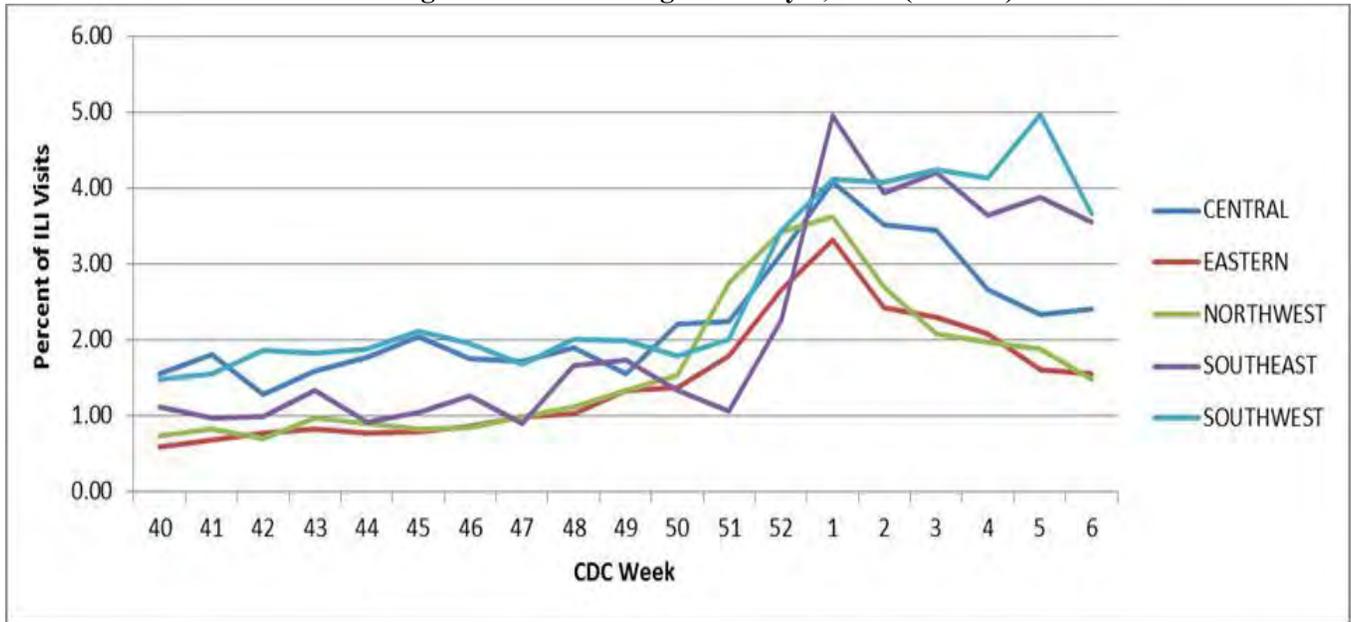
*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.
 *Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance 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 February 8, 2014 (Week 6)

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	3.4%	2.9%	1.3%	0.9%	0.6%	1.5%
Central	8.1%	3.7%	1.8%	1.8%	1.2%	2.4%
Eastern	2.9%	2.1%	1.7%	1.2%	0.7%	1.6%
Southeast	11.0%	7.4%	3.4%	2.1%	0.8%	3.6%
Southwest	11.9%	7.1%	2.6%	2.8%	0.8%	3.7%
Statewide	5.7%	3.9%	1.9%	1.6%	0.7%	2.2%

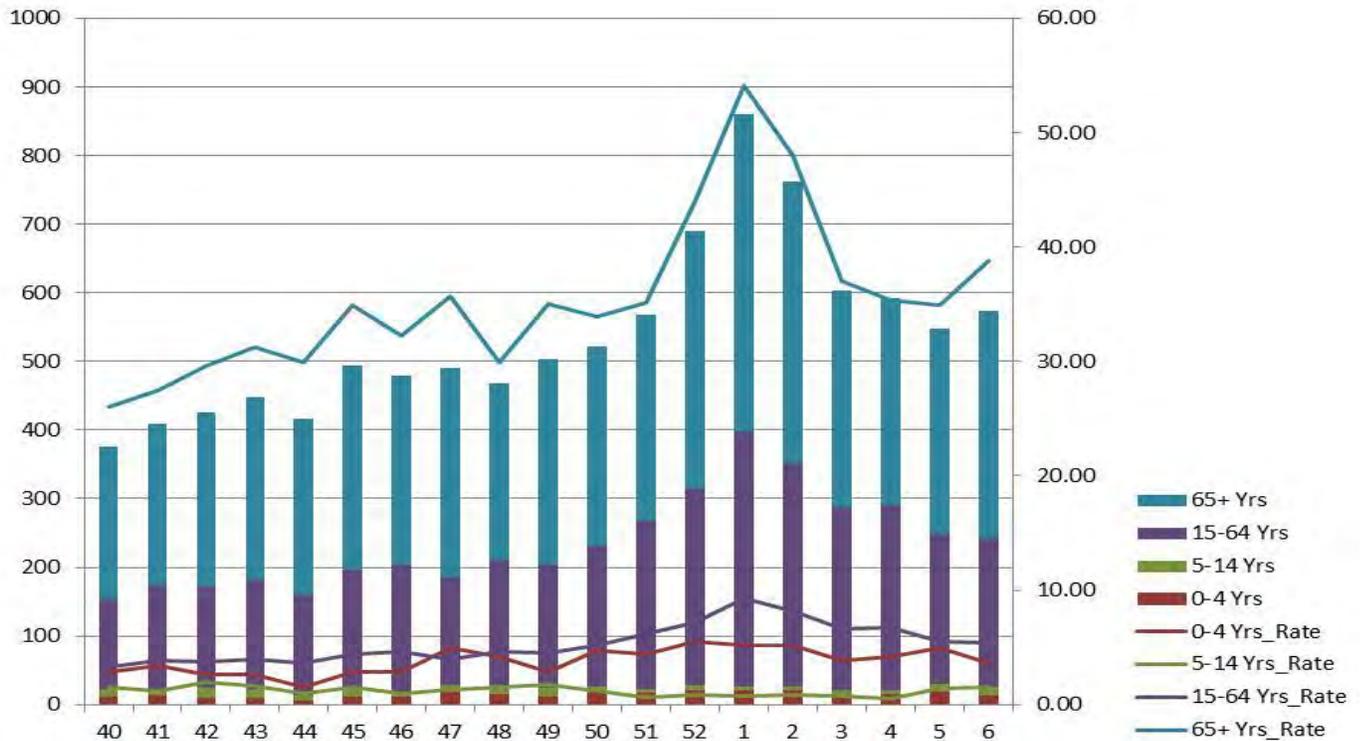
*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending February 8, 2014 (Week 6)

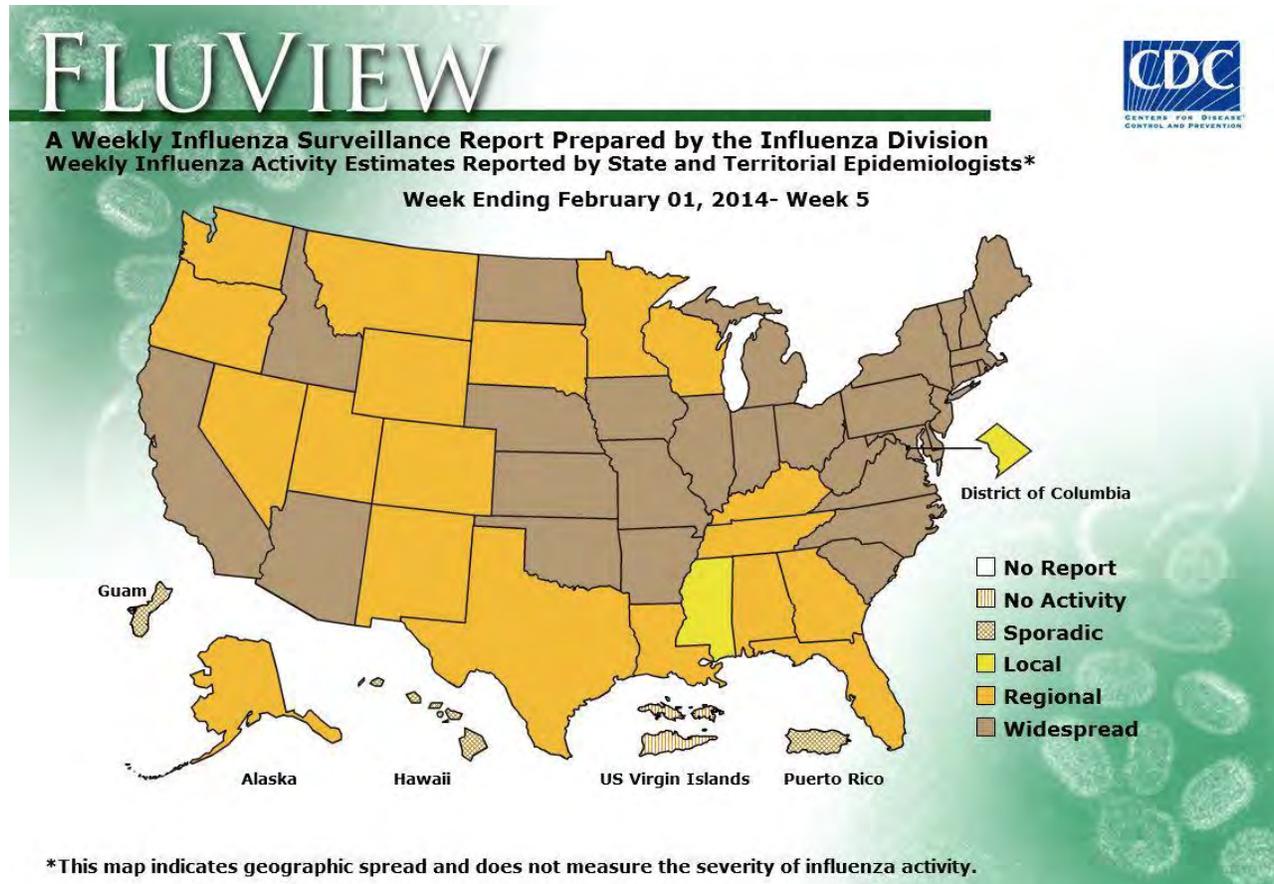


*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 6. Patients Hospitalized with Influenza and/or Pneumonia Syndromes from Participating Missouri Hospitals, by Age Group, Season-to-Date Through the Week Ending February 8, 2014 (Week 6)



*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 **February 8, 2014 (Week 6)**, 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 February 1, 2014 (week 5), Flu View reported 29 states with widespread, 19 states reported regional influenza activity, one state reported local influenza activity, and one state reported sporadic 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).