



# Missouri Weekly Influenza Report 2013-2014 Season<sup>1</sup>

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 16: April 13 – April 19, 2014

### Summary

#### National:

- According to this week's CDC's FluView report, activity is low across most of the country.

#### State:

- Missouri is reporting Sporadic Influenza Activity to CDC, with 22,734 influenza cases reported season-to-date. This represents all laboratory and aggregate influenza reports. Sporadic Activity is defined as: influenza-like illness activity has not increased and there are isolated lab-confirmed cases or a lab-confirmed outbreak in a single institution in the state.
- Three specimens were received by the State Public Health Laboratory for viral testing during week 16, they were all 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 16. 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 16, no pediatric deaths reported for the 2013-2014 season.
- In Week 16, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 1.21%. This is below the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 16, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 0.9%. Northwest region reported 0.8%, Central region reported 0.9%, Eastern region reported 0.6%, Southeast region reported 1.3%, and Southwest region reported 1.5%.

**Table 1. Reported Laboratory cases by for the Week ending April 19, 2014 (Week 16)**

Serogroups	A	B	A or B Untyped (rapid test)	Total
<b>Week 16</b>	<b>61</b>	<b>23</b>	<b>2</b>	<b>86</b>

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

A total of 86 cases were reported for week 16. Three specimens were received by the State Public Health Laboratory for viral testing during week 16, they were all 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 April 19, 2014 (Week 16)**

Viral Testing	Week 16 Received	Week 16 Positive	Received Season-to-Date	Positive Results 2013-2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		0		70
Influenza A (H3)		0		2
<b>Total</b>	<b>3</b>	<b>0</b>	<b>154</b>	<b>72</b>

\*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 April 19, 2014 (Week 16)**

Influenza Type	Week 15	Week 16	2013-2014 Season-to-Date
Influenza A	105	61	20,448
Influenza B	47	23	1,188
Influenza Unknown Or Untyped	8	2	1,098
<b>Total</b>	<b>160</b>	<b>86</b>	<b>22,734</b>

\*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 April 19, 2014 (Week 16)**

Age Group	Week 15 Case Count	Incidence Reported Week 15	Week 16 Case Count	Incidence Reported Week 16	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	24	6	16	4	4,436	1,154
05-14	32	4	15	2	4,037	514
15-64	85	2	47	1	12,828	322
65+	19	2	8	1	1,433	168
<b>Total</b>	<b>160</b>	<b>3</b>	<b>86</b>	<b>1</b>	<b>22,734</b>	<b>378</b>

\*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 April 19, 2014 (Week 16)**

District	Week 15 Case Count	Incidence Reported Week 15	Week 16 Case Count	Incidence Reported Week 16	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	20	3	7	1	2,356	352
EA	33	1	18	1	5,857	262
NW	75	5	49	3	8,358	531
SE	13	3	9	2	2,133	449
SW	19	2	3	0	4,030	381
<b>Total</b>	<b>160</b>	<b>3</b>	<b>86</b>	<b>1</b>	<b>22,734</b>	<b>378</b>

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

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

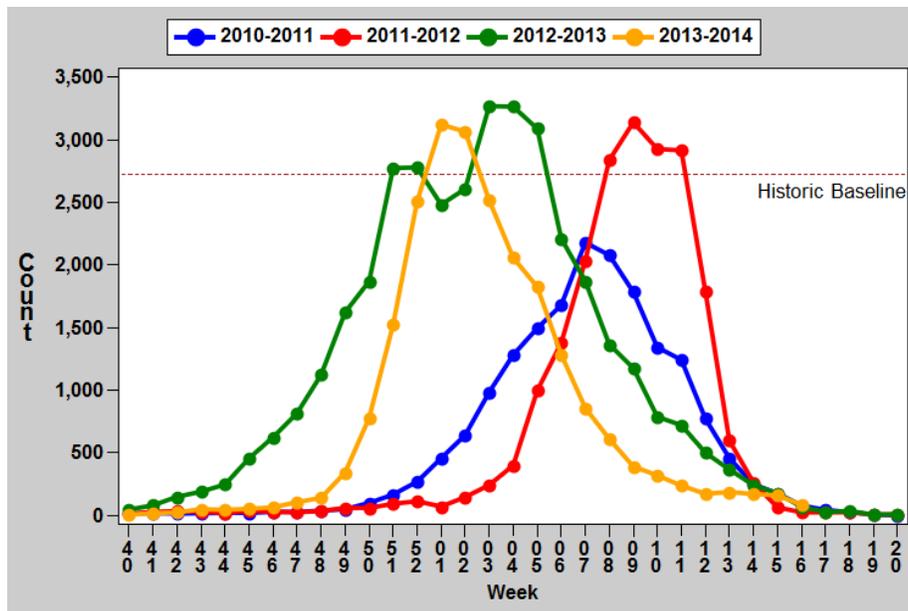
\*Rate per 100,000 population

**Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending April 12, 2014 (Week 15)**

Week 15	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 15 Last Season
81	2,225	2,576	103

\*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 April 19, 2014 (Week 16)**



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

The number of reported influenza cases for week 16 of the 2013-2014 season.

**Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending April 19, 2014 (Week 16)**

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
<b>Week 16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Season-to-Date (Week 40-Week 16)</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>14</b>

\*Data Source: Local Public Health Agencies

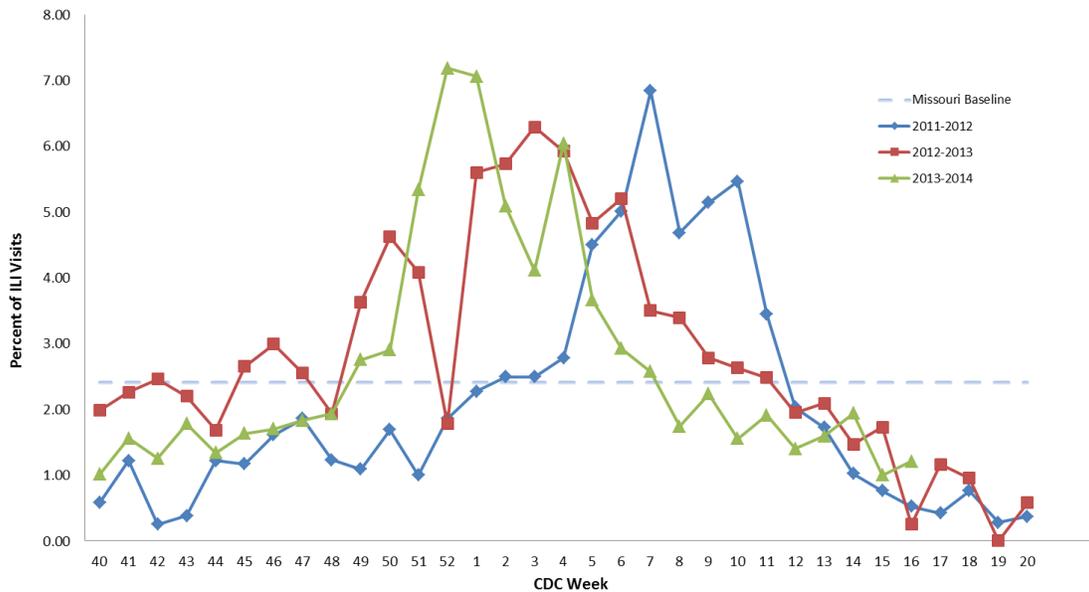
**Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending April 19, 2014 (Week 16)**

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	39	0
Clay*								
Cole	4	1	4	1	1	11	605	1.82
Gasconade*								
Greene*								
Jackson	9	14	15	2	3	43	2887	1.49
Kansas City*								
Knox*								
Marion	0	0	0	0	0	0	83	0
McDonald	0	0	0	0	0	0	380	0
Moniteau	0	0	0	0	1	1	123	0.81
Nodaway*								
Pettis*								
Phelps	0	0	2	0	0	2	346	0.58
Putnam	0	0	0	0	0	0	212	0
Reynolds	0	0	0	0	0	0	50	0
Saline*								
St. Louis*								
<b>State Total</b>	<b>13</b>	<b>15</b>	<b>21</b>	<b>3</b>	<b>5</b>	<b>57</b>	<b>4725</b>	<b>1.21</b>

\*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 April 19, 2014 (Week 16)**

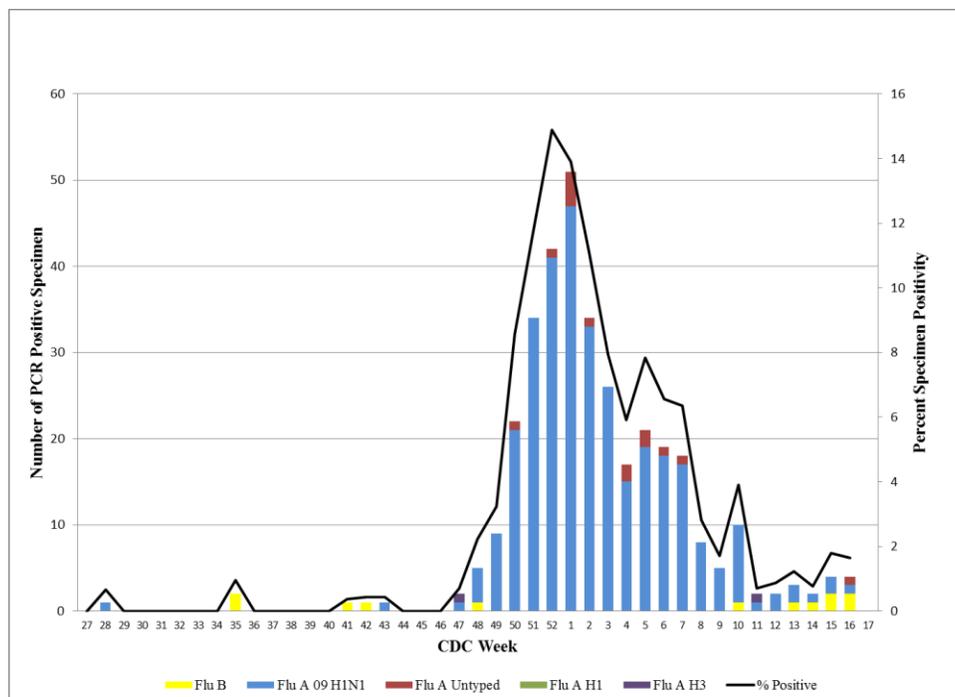


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

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

The proportion of patient visits for influenza-like illness is 1.21% for week ending April 19, 2014 (Week 16). This is below Missouri’s baseline of 2.42%.

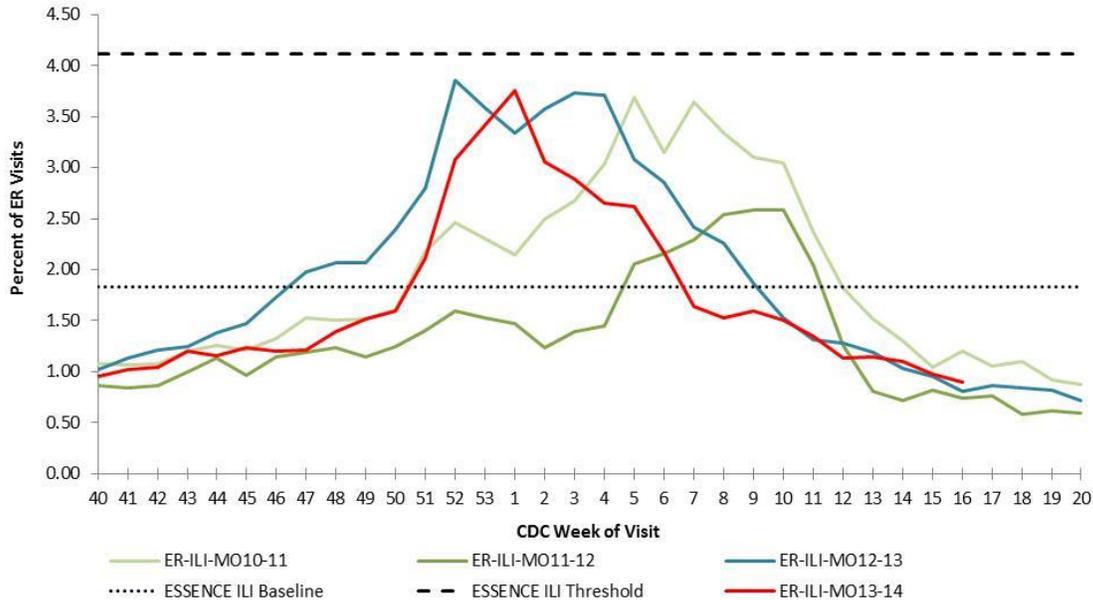
**Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending April 19, 2014 (Week 16)**



\*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 April 19, 2014 (Week 16)**



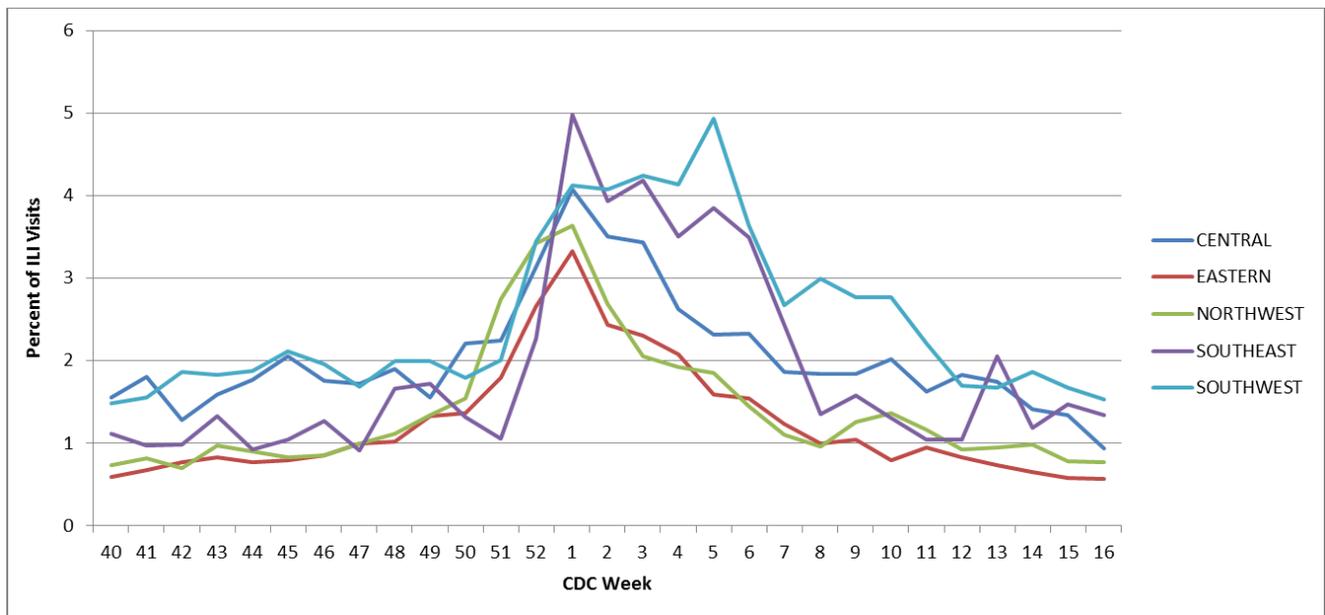
\*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.  
 \*Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from [https://moessence.dhss.mo.gov/missouri\\_5/servlet/HomePageServlet](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 April 19, 2014 (Week 16)**

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	2.2%	1.4%	0.5%	0.5%	0.5%	0.8 %
Central	5.3%	1.3%	0.8%	0.2%	0.3%	0.9%
Eastern	1.3%	1.2%	0.5%	0.3 %	0.3%	0.6%
Southeast	4.3%	4.0%	1.0%	0.5%	0.6%	1.3%
Southwest	6.6%	4.0%	0.8%	0.5%	0.5%	1.5%
<b>Statewide</b>	<b>3.0 %</b>	<b>2.0%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.9%</b>

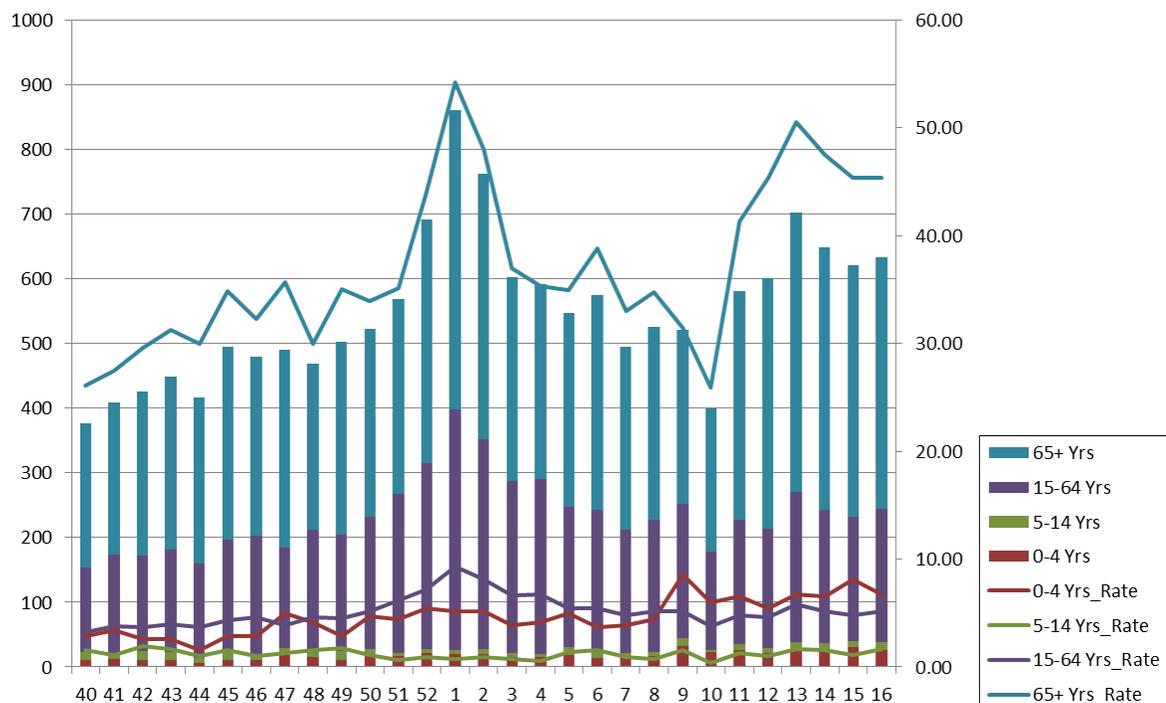
\*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from [https://moessence.dhss.mo.gov/missouri\\_5/servlet/HomePageServlet](https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet)

**Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending April 19, 2014 (Week 16)**

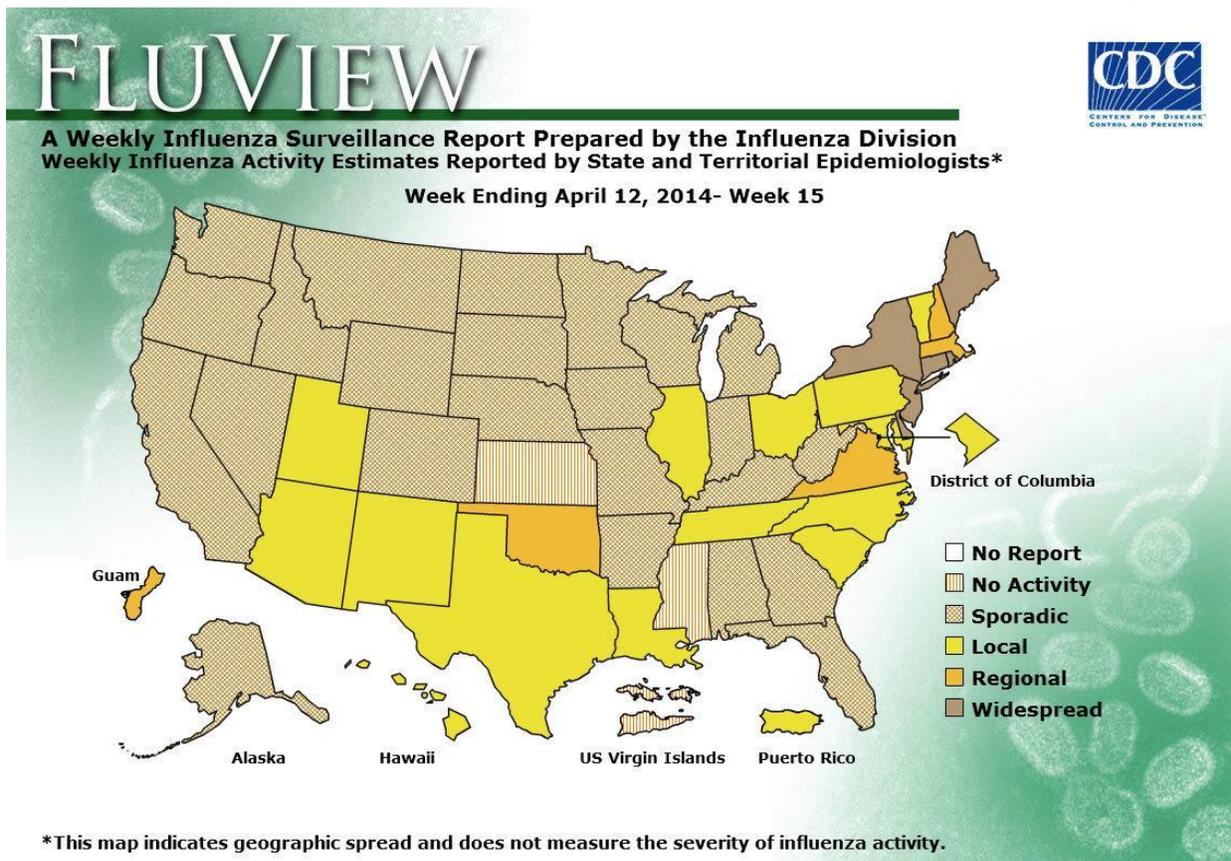


\*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from [https://moessence.dhss.mo.gov/missouri\\_5/servlet/HomePageServlet](https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet)

**Graph 6. Patients Hospitalized with Influenza and/or Pneumonia Syndromes from Participating Missouri Hospitals, by Age Group, Season-to-Date Through the Week Ending April 19, 2014 (Week 16)**



\*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 **April 19, 2014 (Week 16)**, Missouri reported **Sporadic** Influenza Activity to the CDC. Sporadic is defined as: influenza-like illness activity has not increased and there are isolated lab-confirmed cases or a lab-confirmed outbreak in a single institution in the state.

For the week ending April 12, 2014 (week 15), Flu View reported six states with widespread, four states reported regional influenza activity, 14 states reported local influenza activity, 24 states reported sporadic influenza activity, and two states reported no 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**.

<sup>1</sup>All data in this report are provisional and may change as reports are updated.

<sup>2</sup>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).