



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 17: April 20 – April 26, 2014

Summary

National:

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

State:

- Missouri is reporting Sporadic Influenza Activity to CDC, with 22,841 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.
- Two specimens were received by the State Public Health Laboratory for viral testing during week 17; one was positive for 2009 H1N1 Influenza and one was positive for Influenza B. 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 17. 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 17, no pediatric deaths reported for the 2013-2014 season.
- In Week 17, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 0.93%. This is below the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 17, 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 1.2%, Eastern region reported 0.5%, Southeast region reported 0.9%, and Southwest region reported 1.5%.

Table 1. Reported Laboratory cases by for the Week ending April 26, 2014 (Week 17)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 17	56	15	1	72

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

A total of 72 cases were reported for week 17. Two specimens were received by the State Public Health Laboratory for viral testing during week 17, one was positive for 2009 H1N1 Influenza and one was positive for Influenza B.

**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 26, 2014 (Week 17)**

Viral Testing	Week 17 Received	Week 17 Positive	Received Season-to-Date	Positive Results 2013-2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		1		71
Influenza A (H3)		0		2
Influenza B		1		1
Total	2	0	156	74

*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 26, 2014 (Week 17)**

Influenza Type	Week 16	Week 17	2013-2014 Season-to-Date
Influenza A	72	56	20,524
Influenza B	31	15	1,213
Influenza Unknown Or Untyped	3	1	1,104
Total	106	72	22,841

*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 26, 2014 (Week 17)**

Age Group	Week 16 Case Count	Incidence Reported Week 16	Week 17 Case Count	Incidence Reported Week 17	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	19	5	6	2	4,449	1,158
05-14	17	2	12	2	4,054	516
15-64	60	2	39	1	12,884	323
65+	10	1	15	2	1,454	170
Total	106	2	72	1	22,841	380

*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 26, 2014 (Week 17)

District	Week 16 Case Count	Incidence Reported Week 16	Week 17 Case Count	Incidence Reported Week 17	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	9	1	7	1	2,366	354
EA	19	1	5	0	5,865	262
NW	56	4	51	3	8,428	535
SE	10	2	6	1	2,140	450
SW	12	1	3	0	4,042	383
Total	106	2	72	1	22,841	380

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

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

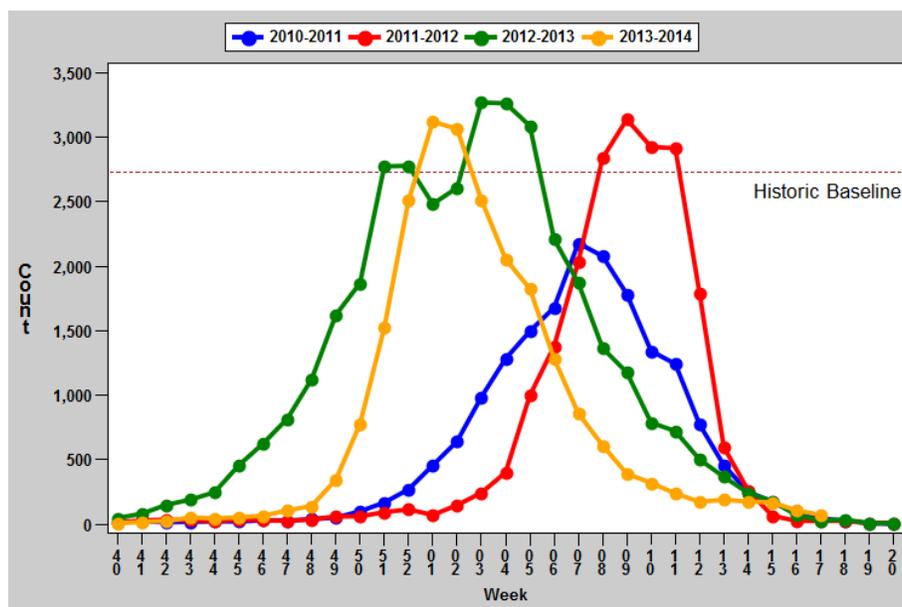
*Rate per 100,000 population

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending April 19, 2014 (Week 16)

Week 16	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 16 Last Season
57	2,282	2,576	88

*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 26, 2014 (Week 17)



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

The number of reported influenza cases for week 17 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending April 26, 2014 (Week 17)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 17	0	0	0	0
Season-to-Date (Week 40-Week 17)	1	7	0	14

*Data Source: Local Public Health Agencies

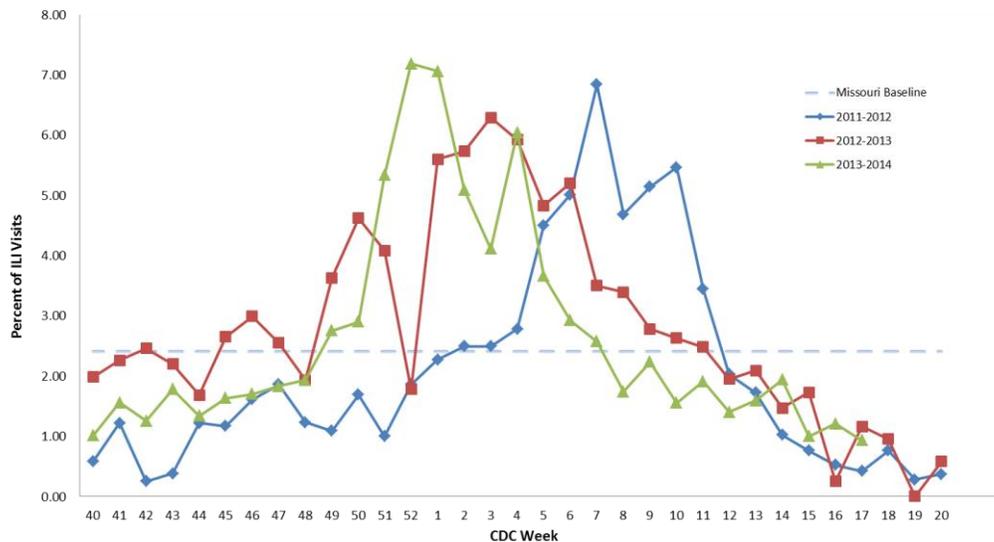
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending April 26, 2014 (Week 17)

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	53	0
Clay*								
Cole	5	1	1	1	1	9	667	1.35
Gasconade*								
Greene*								
Jackson*								
Kansas City*								
Knox	1	4	0	1	1	7	90	7.78
Marion	0	0	0	0	0	0	74	0
McDonald	0	0	0	0	0	0	274	0
Moniteau	0	0	0	0	0	0	153	0
Nodaway*								
Pettis*								
Phelps	0	2	0	0	0	2	259	0.77
Putnam	0	0	0	1	0	1	228	0.44
Reynolds*								
Saline	0	0	1	0	0	1	131	0.76
St. Louis	0	0	0	0	0	0	211	0
State Total	6	7	2	3	2	20	2140	0.93

*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 26, 2014 (Week 17)

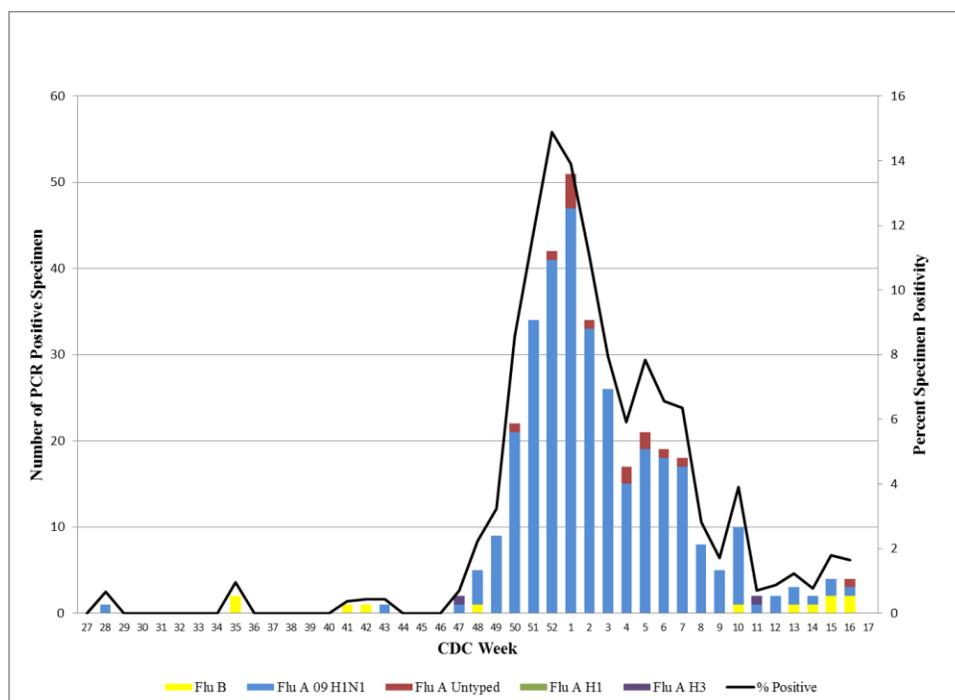


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

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

The proportion of patient visits for influenza-like illness is 0.93% for week ending April 26, 2014 (Week 17). This is below Missouri’s baseline of 2.42%.

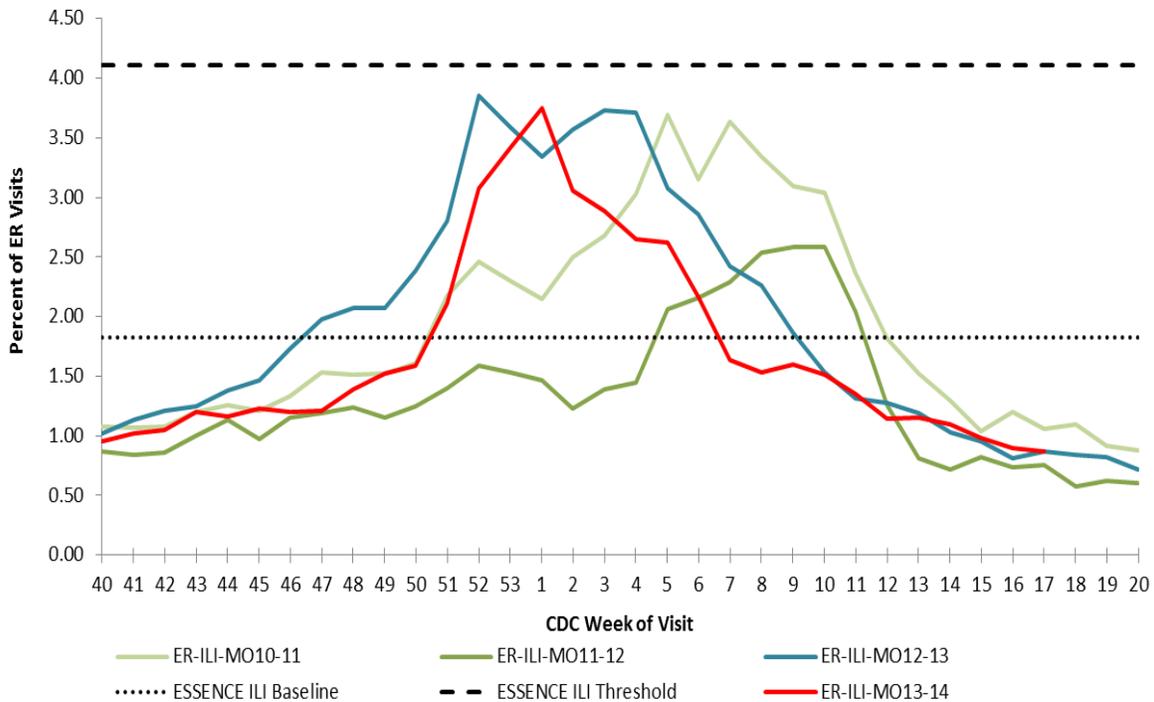
Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending April 19, 2014 (Week 16)



*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 26, 2014 (Week 17)**



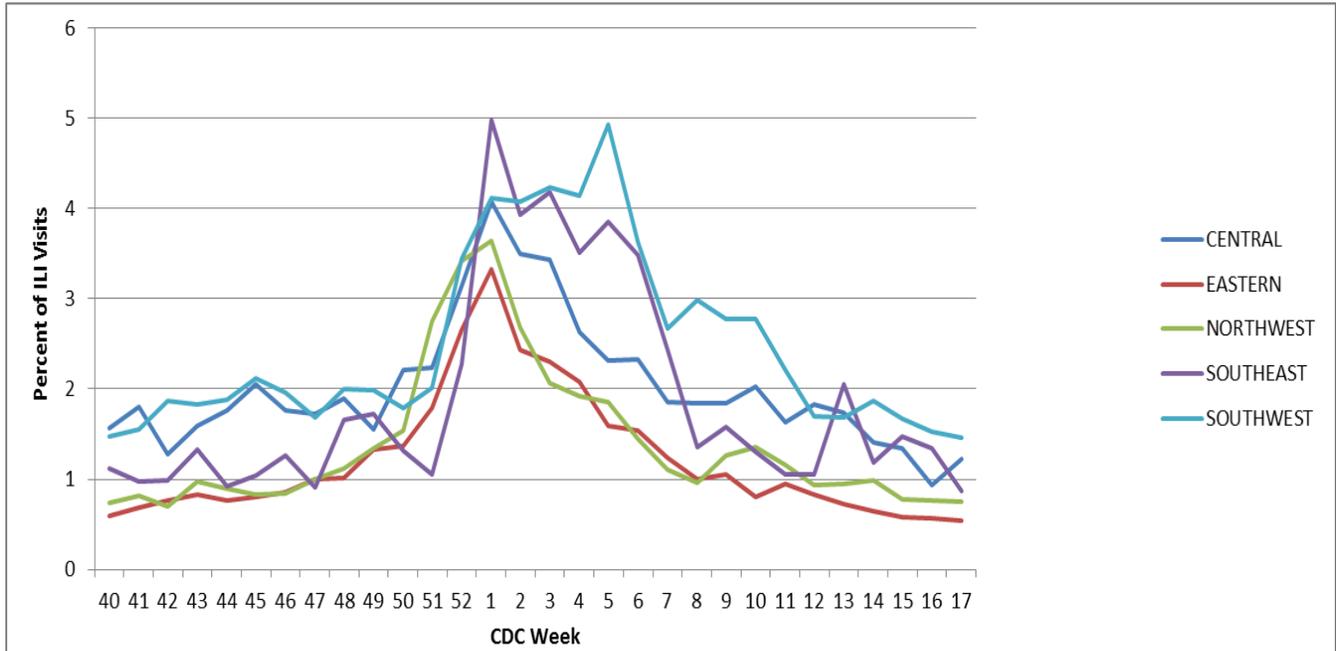
*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.
 *Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance 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 April 26, 2014 (Week 17)**

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	1.3%	1.9%	0.7%	0.4%	0.4%	0.8 %
Central	6.2%	2.0%	1.0%	0.4%	0.2%	1.2%
Eastern	1.1%	0.9%	0.5%	0.4%	0.2 %	0.5%
Southeast	4.6%	1.9%	0.4%	0.6%	0.2%	0.9%
Southwest	6.3%	3.7%	0.9%	0.4%	0.4%	1.5%
Statewide	3.0 %	2.0%	0.6%	0.4%	0.4%	0.9%

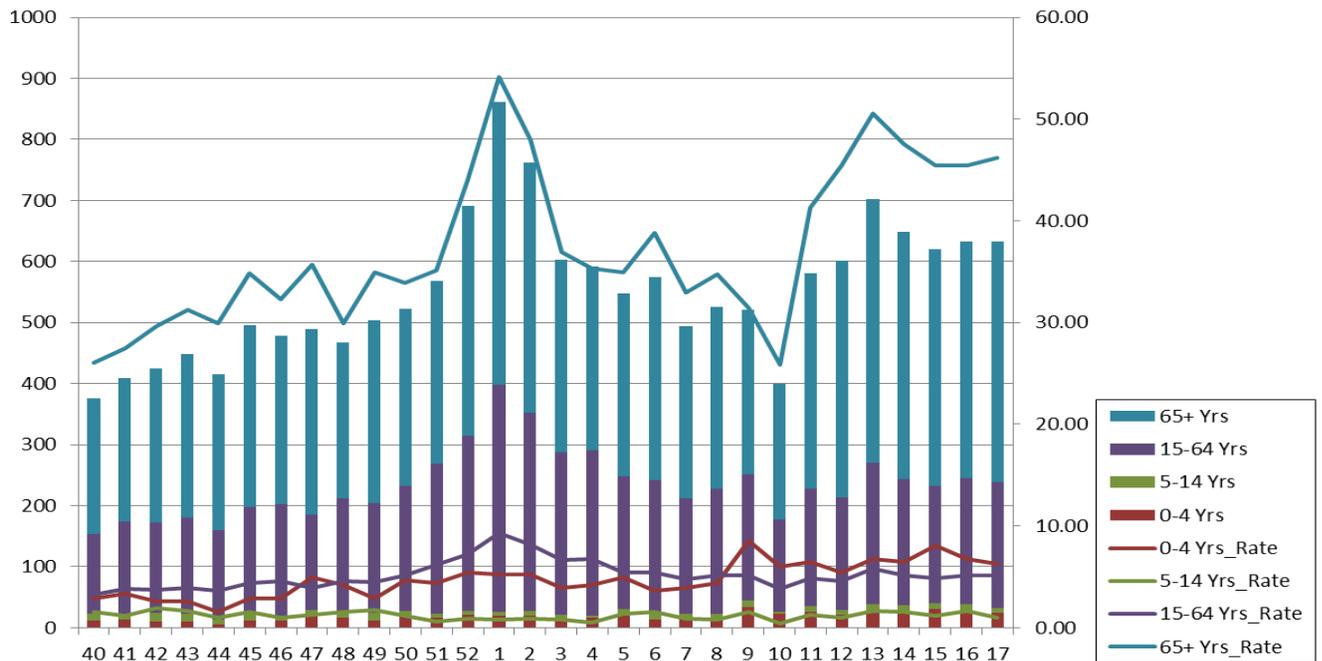
*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending April 26, 2014 (Week 17)



*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 April 26, 2014 (Week 17)



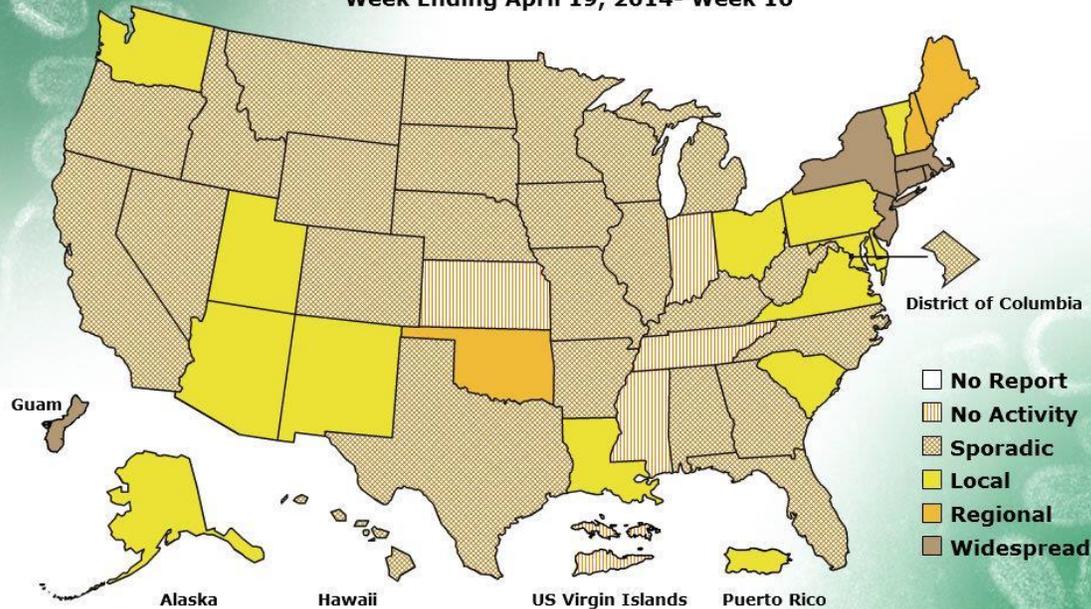
*Data Source: Hospitalization Data From: MODHSS (Missouri Department of Health and Senior Services). HL7 Messaging Portal. Retrieved 2014, January 28, from <http://intsvcs1.cds.state.mo.us/msgportal/> Population Data From: MODHSS (Missouri Department of Health and Senior Services). MICA. Population MICA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

FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending April 19, 2014- Week 16



*This map indicates geographic spread and does not measure the severity of influenza activity.

For the week ending **April 26, 2014 (Week 17)**, 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 19, 2014 (week 16), Flu View reported five states with widespread, three states reported regional influenza activity, 13 states reported local influenza activity, 25 states reported sporadic influenza activity, and four 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**.

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).