



Missouri Weekly Influenza Surveillance Report 2014-2015 Influenza Season¹

Week 46: November 9 – November 15, 2014

All data are preliminary and may change as more reports are received.

Summary:

- The estimated influenza activity in Missouri is Sporadic².
- No laboratory-confirmed cases were reported for week 46. A season-to-date total of 288 influenza cases have been reported in Missouri.
- Influenza-like illness activity continues to remain below baseline for both the Missouri Outpatient ILI Surveillance Network (ILINet) and hospital emergency room visit chief complaint data reported through ESSENCE. The reported percentage of visits for ILI was 1.53% and 1.3% through ILINet and ESSENCE respectively³.
- No outbreaks of influenza or ILI were reported during Week 46 in Missouri. No ILI-associated school closures were reported during Week 46.
- No influenza-associated pediatric deaths have been reported in Missouri to date, this influenza season. Deaths involving Pneumonia and Influenza (P&I) reported to the Bureau of Vital Records increased to 102 deaths during Week 45, resulting in a season-to-date total of 434 P&I associated deaths in Missouri⁴.
- National influenza activity and surveillance information is prepared by the Centers for Disease Control and Prevention (CDC). The information including a weekly report (FLUVIEW) is available online at <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>.

¹The 2014-2015 influenza season in Missouri began CDC Week 40 (Week ending October 4, 2014) through CDC Week 20 (week ending May 23, 2015).

²Sporadic 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. The influenza activity reported by state and territorial epidemiologists indicates geographic spread of influenza viruses, but does not measure the severity of influenza activity. Influenza activity is reported to the Centers for Disease Control and Prevention each Wednesday during the influenza season.

³Influenza-like Illness (ILI) is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat without a known cause other than influenza.

⁴The P&I data are available one week later. The P&I data for the CDC Week provided is the most current data available.

Surveillance Data:

Table 1. Number of Laboratory-positive Influenza Cases by Influenza Type, Missouri, CDC Week 44-46 (October 26 – November 15, 2014)

Influenza Type	Week 44	Week 45	Week 46	2014-2015 Season-to-Date*
Influenza A	32	32	77	199
Influenza B	7	10	5	81
Influenza Unknown Or Untyped	1	2	2	8
Total	40	44	84	288

*Influenza Season begins Week Ending October 4, 2014 (CDC Week 40)
Data Source: Missouri Health Information Surveillance System (WebSurv).

Table 2. Number of Laboratory-positive Influenza Cases and Case Rates by Age Group, Missouri, CDC Week 46 (November 9 – November 15, 2014)

Age Group	Week 46 Cases	Week 46 Rate*	2014-2015 [†] Season-to-Date	2014-2015 [†] Season-to-Date Rate*
00-04	8	2	35	9
05-14	32	4	61	8
15-64	36	1	148	4
65+	8	1	44	5
Total	84	1	288	5

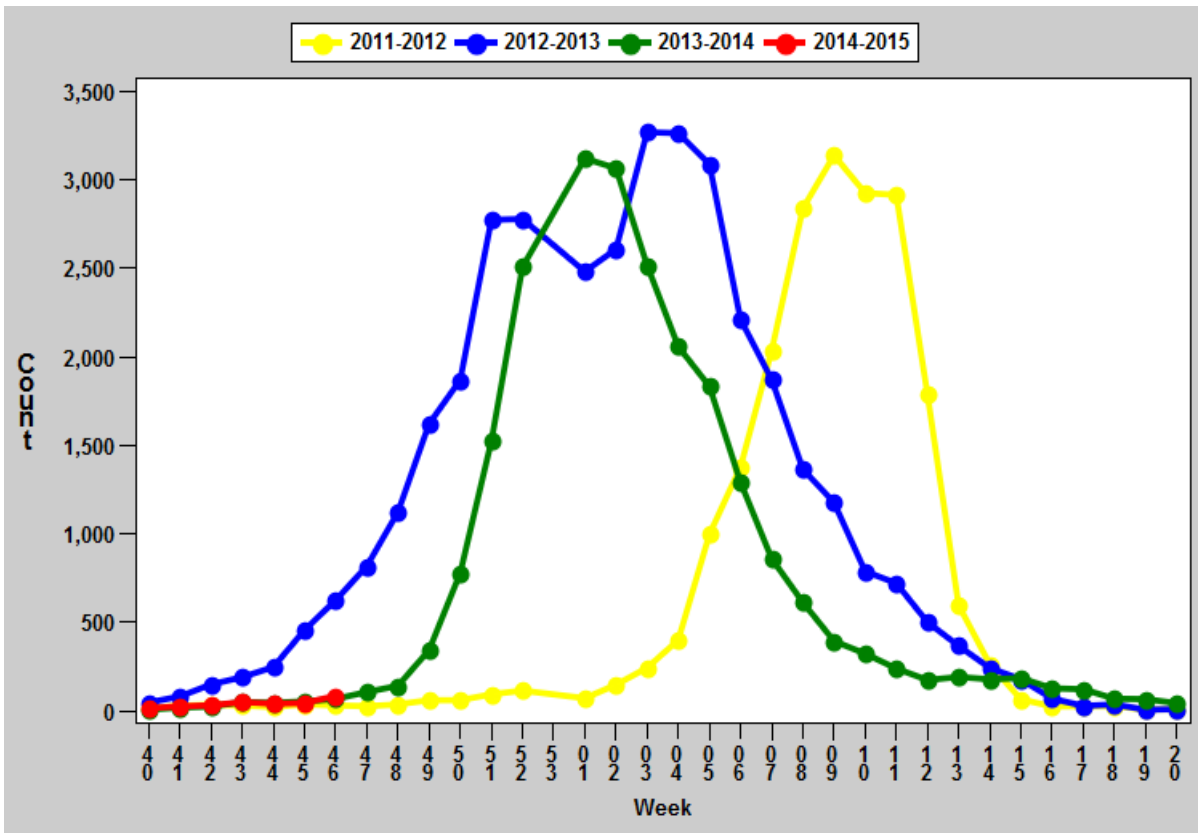
*Incidence Rate per 100,000 population
[†]Influenza Season begins Week Ending October 4, 2014 (CDC Week 40)
Data Source: Missouri Health Information Surveillance System (WebSurv)

Table 3. Number of Laboratory-positive Influenza Cases and Case Rates by Region, Missouri, CDC Week 46 (November 9 – November 15, 2014)

District	Week 46 Cases	Week 46 Rate*	2014-2015 [†] Season-to-Date	2014-2015 [†] Season-to-Date Rate*
CE	5	1	31	5
EA	55	2	135	6
NW	14	1	90	6
SE	9	2	20	4
SW	1	0	12	1
Total	84	1	288	5

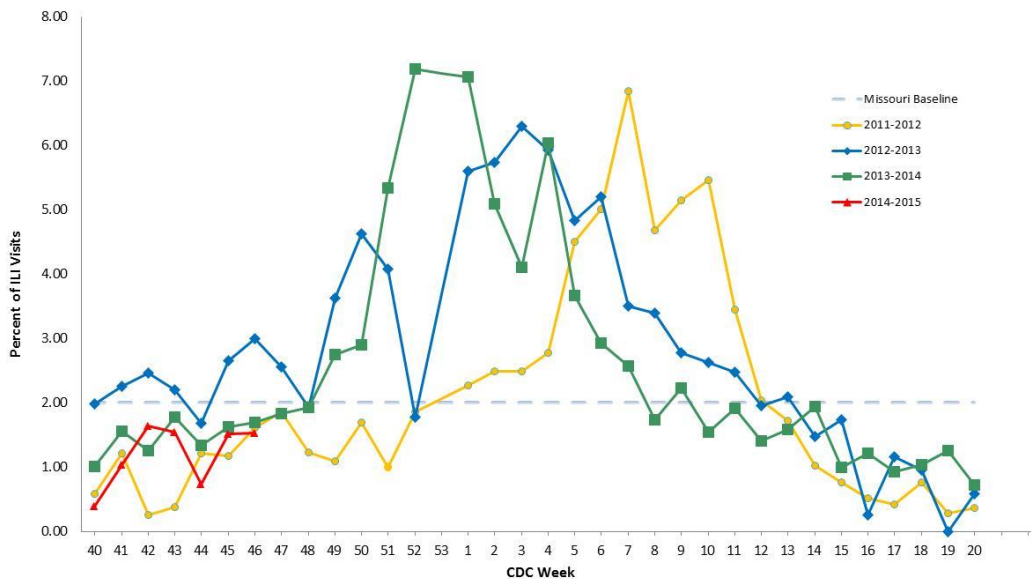
*Incidence Rate per 100,000 population
[†]Influenza Season begins Week Ending October 4, 2014 (CDC Week 40)
Data Source: Missouri Health Information Surveillance System (WebSurv)

Graph 1. Number of Laboratory-positive Influenza Cases by CDC Week, Missouri, 2011-2015*



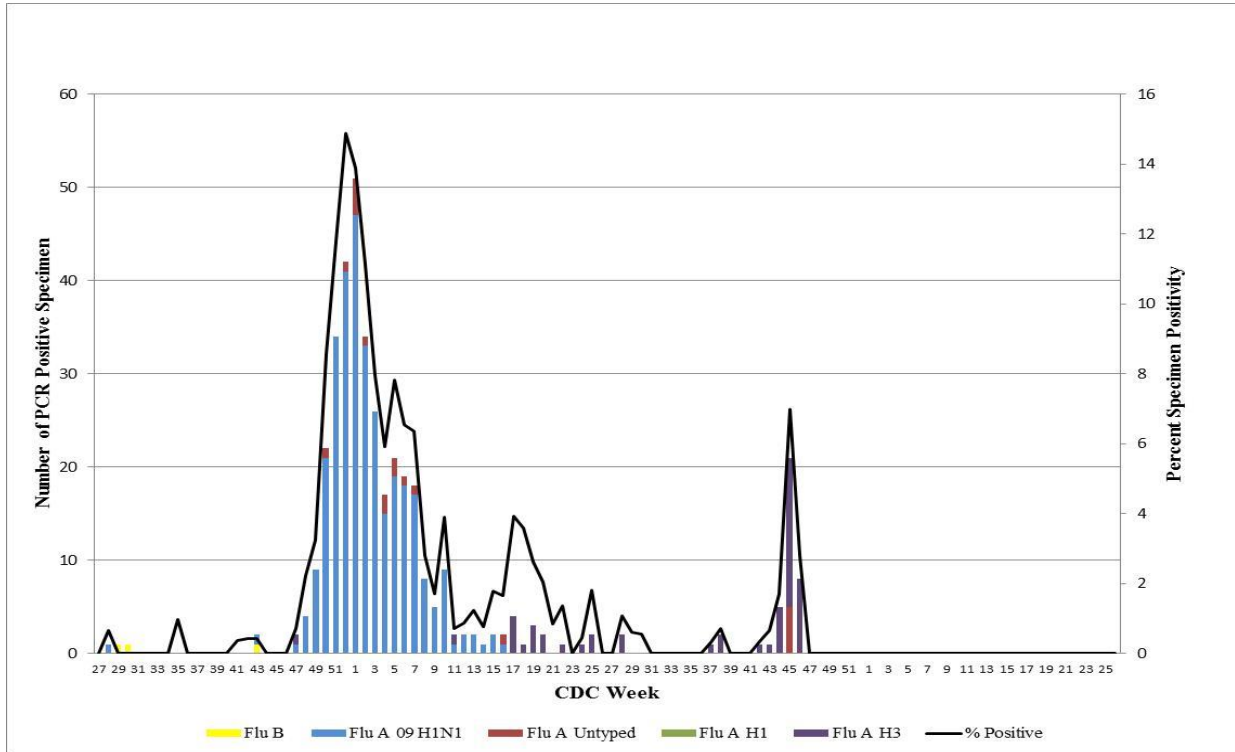
*2014-2015 Season-to-Date through the week ending November 15, 2014 (Week 46)
Data Source: Missouri Health Information Surveillance System (WebSurv).

Graph 2. Percentage of Visits for Influenza-like-Illness (ILI), Missouri Outpatient ILI Surveillance Network (ILINet) 2011-2015*



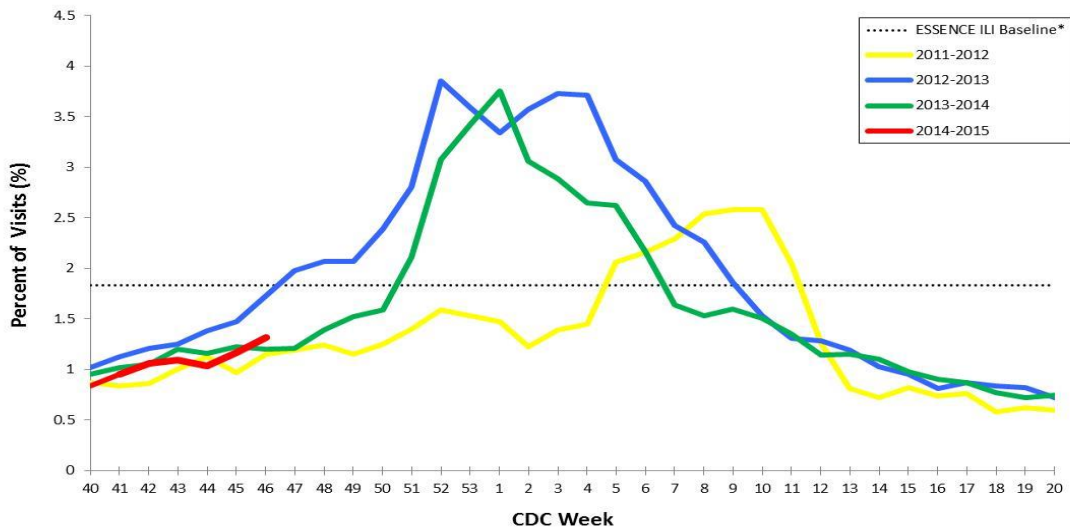
*2014-2015 Season-to-Date through the week ending November 15, 2014 (Week 46)

Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Test by CDC Week



*Data Source: St. Louis Children’s Hospitals
 *This data is based on testing in all age groups in St Louis metro and SE Missouri
 *†Influenza Season begins Week Ending October 4, 2014 (CDC Week 40)

Graph 4. Percentage of Emergency Room Visits with Chief Complaint of Influenza-like Illness (ILI), ESSENCE Participating Hospitals in Missouri, 2011-2015†

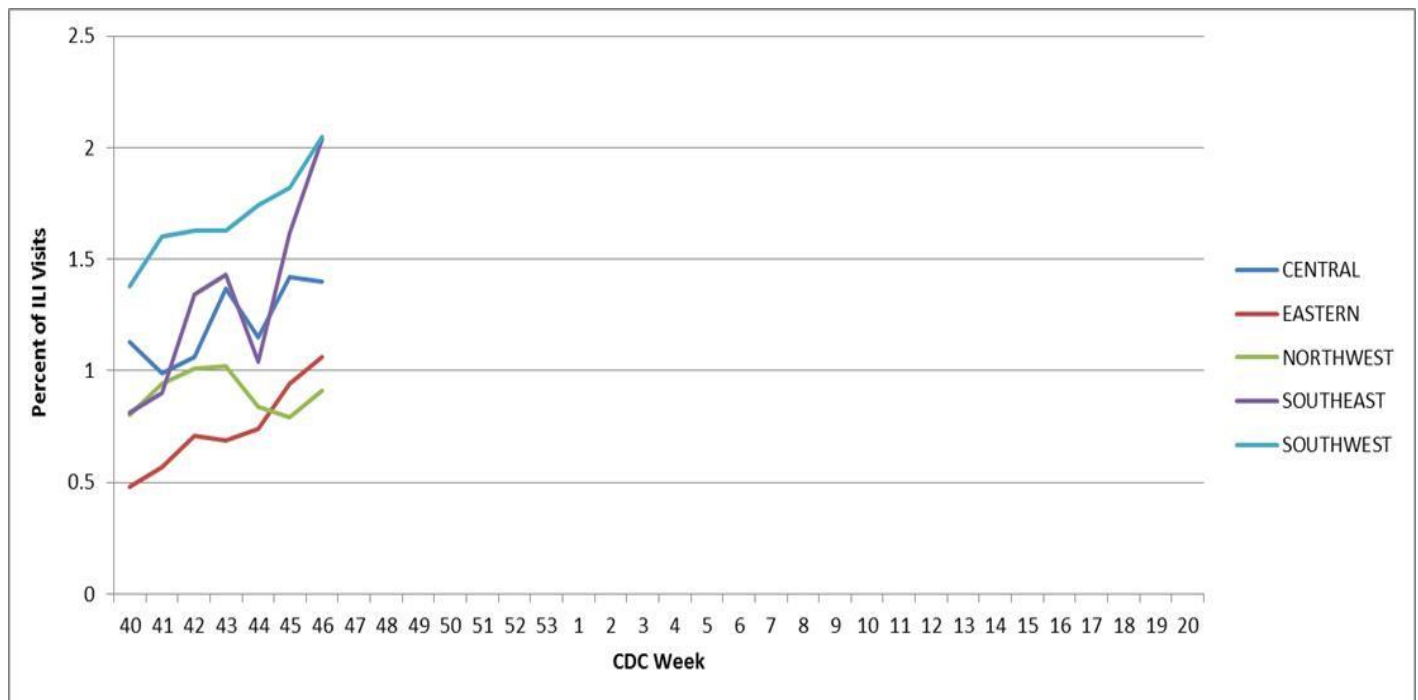


† Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE. Includes data from 95 reporting facilities in Missouri (<http://health.mo.gov/data/essence/pdf/moilmap.pdf>).
 *ESSENCE ILI Baseline is the mean of the values during previous influenza seasons (week 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.

Table 4. Percentage of Emergency Room Visits with Chief Complaint of Influenza-like Illness (ILI) from ESSENCE Participating Hospitals by Age Group, Missouri, CDC Week 46 (November 9 – November 15, 2014)

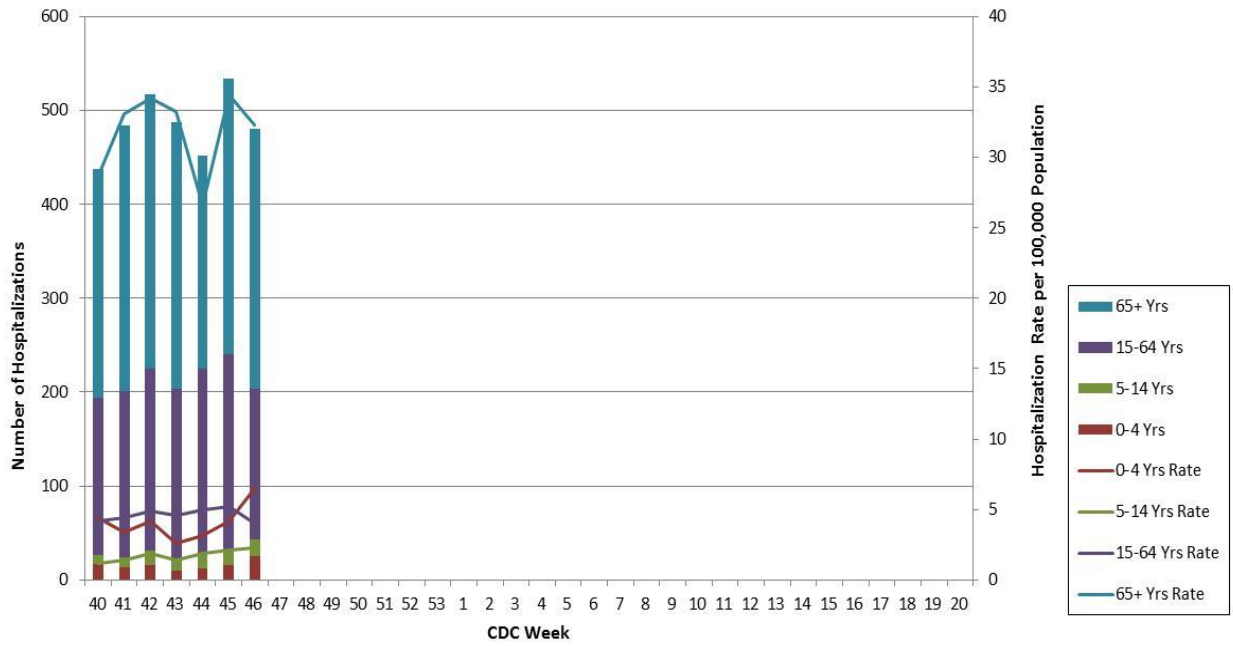
District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Total Percentage
Northwest	1.9%	1.8%	0.7%	0.8%	0.3%	0.9%
Central	5.0%	2.9%	1.3%	0.4%	0.3%	1.4%
Eastern	1.6%	2.3%	1.0%	0.9%	0.4%	1.1%
Southeast	8.8%	6.8%	1.4%	0.0%	0.2%	2.0%
Southwest	7.4%	4.7 %	1.6%	0.6%	0.4%	2.1%
Statewide	3.4%	3.1%	1.1%	0.7%	0.4 %	1.3%

Graph 5. Percentage of Emergency Room Visits with the Chief Complaint of Influenza-like Illness (ILI) for each District by CDC Week, ESSENCE Participating Hospitals in Missouri, 2014-2015*



*2014-2015 Season-to-Date through the week ending November 15, 2014 (Week 46)

Graph 6. Number and Rate of Patients by Age Group Hospitalized with Influenza and/or Pneumonia Syndromes at Participating Missouri Hospitals, by CDC Week, 2014-2015*



*2014-2015 Season-to-Date through the week ending November 15, 2014 (Week 46)

Data Source: Hospitalization data from Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE HL7 messaging portal. Includes data from 95 reporting facilities in Missouri (<http://health.mo.gov/data/essence/pdf/moimap.pdf>). Population data from DHSS Population MICA 2012 (<http://health.mo.gov/data/mica/mica/population.php>).