



# Missouri Weekly Influenza Surveillance Report 2014-2015 Influenza Season<sup>1</sup>

## Week 42: October 12 – October 18, 2014

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

### Summary:

- The estimated influenza activity in Missouri is No Activity<sup>2</sup>.
- No laboratory-confirmed cases were reported for week 42. A season-to-date total of 50 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 1.64% and 1.1% through ILINet and ESSENCE respectively<sup>3</sup>.
- No outbreaks of influenza or ILI were reported during Week 42 in Missouri. No ILI-associated school closures were reported during Week 42.
- 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 decreased to 48 deaths during Week 41, resulting in a season-to-date total of 170 P&I associated deaths in Missouri<sup>4</sup>.
- 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>.

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

<sup>2</sup>No activity is defined as influenza-like illness activity is low and there are no lab confirmed cases. 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.

<sup>3</sup>Influenza-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.

<sup>4</sup>The 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 40-42 (September 28 – October 18, 2014)**

Influenza Type	Week 40	Week 41	Week 42	2014-2015 Season-to-Date*
Influenza A	3	11	7	21
Influenza B	8	13	7	28
Influenza Unknown Or Untyped	0	1	0	1
<b>Total</b>	<b>11</b>	<b>25</b>	<b>14</b>	<b>50</b>

\*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 42 (October 12 – October 18, 2014)**

Age Group	Week 42 Cases	Week 42 Rate*	2014-2015 <sup>†</sup> Season-to-Date	2014-2015 <sup>†</sup> Season-to-Date Rate*
00-04	1	0	6	2
05-14	1	0	2	0
15-64	8	0	33	1
65+	4	0	9	1
<b>Total</b>	<b>14</b>	<b>0</b>	<b>50</b>	<b>1</b>

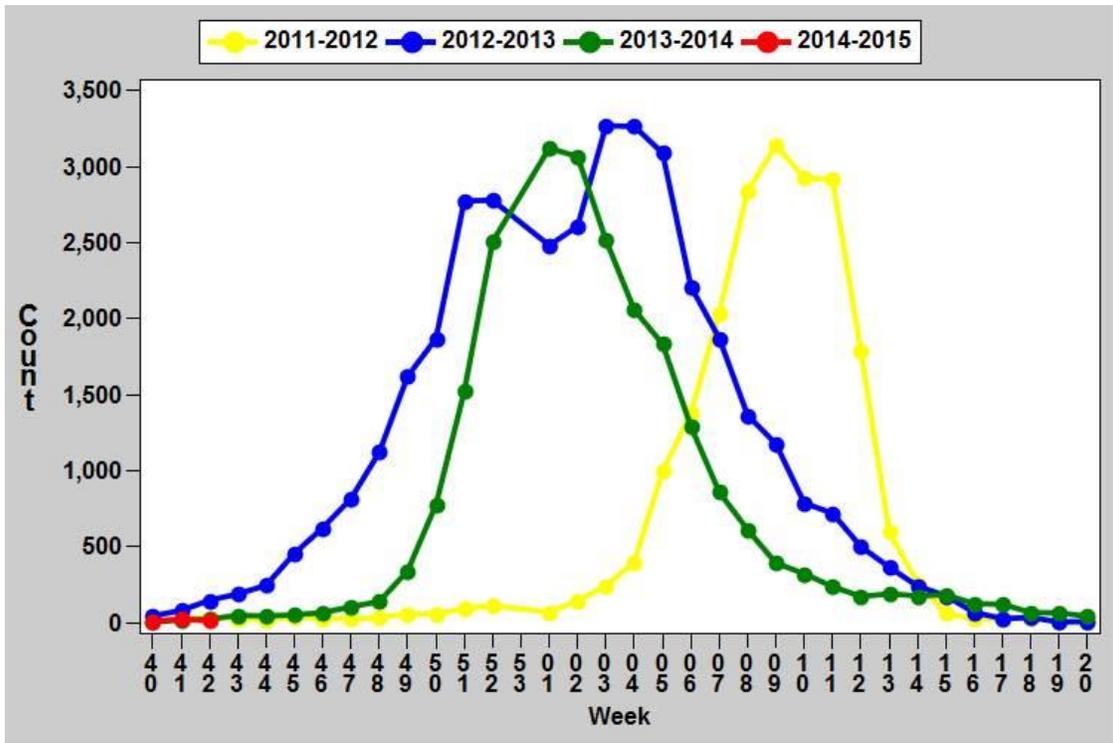
\*Incidence Rate per 100,000 population  
<sup>†</sup>Influenza Season begins Week Ending October 4, 2014 (CDC Week 40)  
Data Source: Missouri Health Information Surveillance System (WebSurv)

**Table 3. Number of Laboratory-positive Influenza Cases and Case Rates by Region, Missouri, CDC Week 42 (October 12 – October 18, 2014)**

District	Week 42 Cases	Week 42 Rate*	2014-2015 <sup>†</sup> Season-to-Date	2014-2015 <sup>†</sup> Season-to-Date Rate*
CE	2	0	9	1
EA	7	0	17	1
NW	2	0	20	1
SE	3	1	3	1
SW	0	0	1	0
<b>Total</b>	<b>14</b>	<b>0</b>	<b>50</b>	<b>1</b>

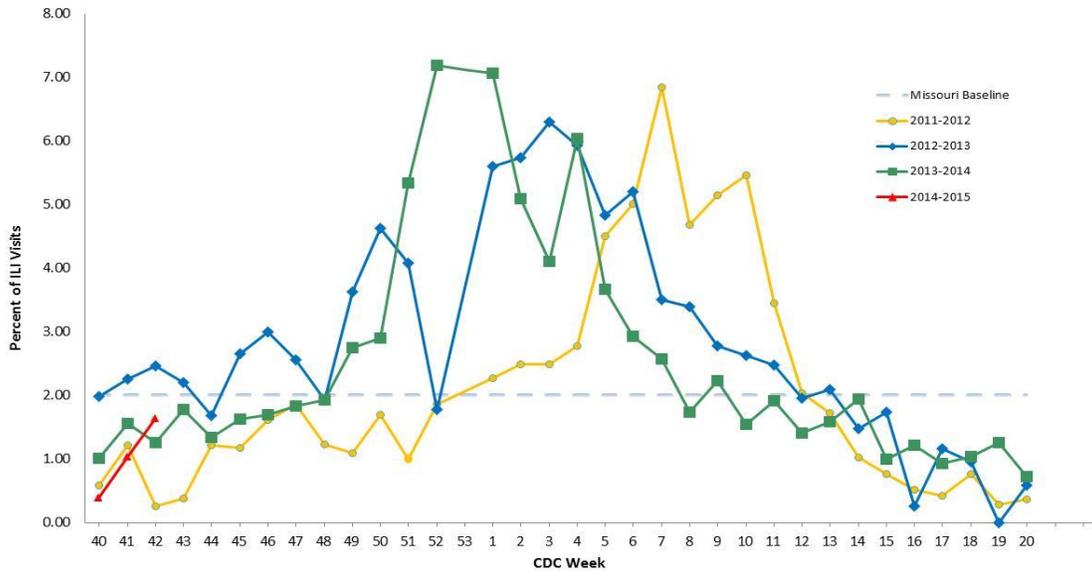
\*Incidence Rate per 100,000 population  
<sup>†</sup>Influenza Season begins Week Ending October 4, 2014 (CDC Week 40)  
Data Source: Missouri Health Information Surveillance System (WebSurv)

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



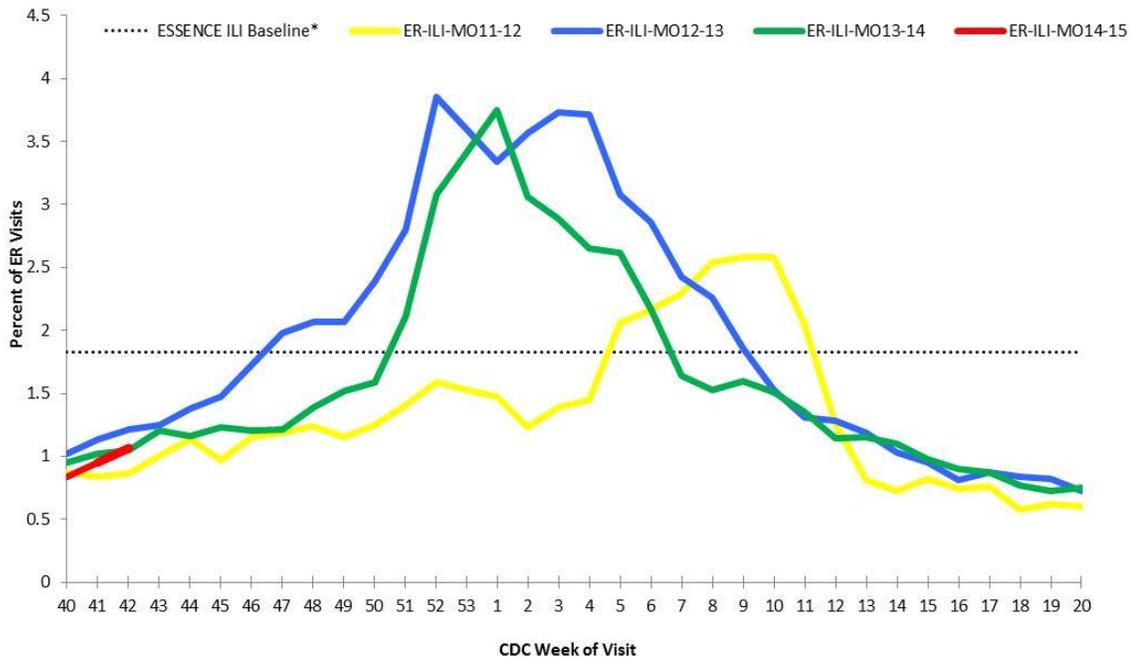
\*2014-2015 Season-to-Date through the week ending May 23, 2015 (Week 20)  
Data Source: Missouri Health Information Surveillance System (WebSurv).

**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 May 23, 2015 (Week 20)

**Graph 3. Percentage of Emergency Room Visits with Chief Complaint of Influenza-like Illness (ILI), ESSENCE Participating Hospitals in Missouri, 2011-2015<sup>†</sup>**



<sup>†</sup> 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>).

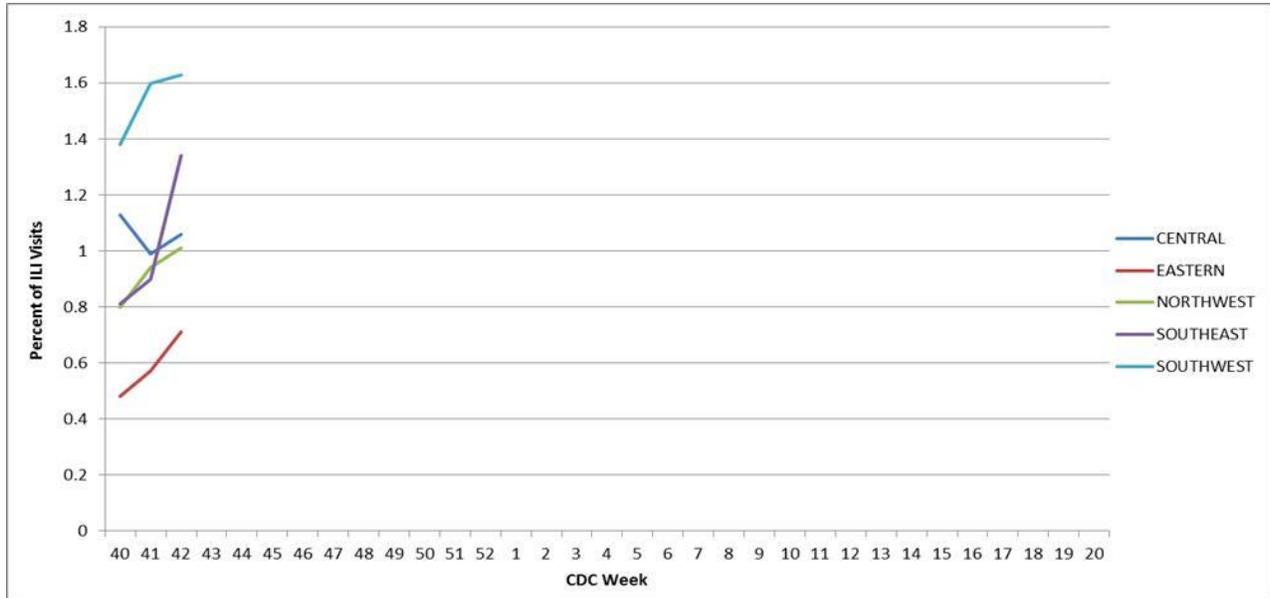
\*ESSENCE ILI Baseline is the mean of the values during previous influenza seasons (week 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.

**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 42 (October 12 – October 18, 2014)**

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Total Percentage
Northwest	1.9%	1.9%	0.9 %	0.8%	0.2%	1.0%
Central	4.4%	1.5 %	0.9%	0.7%	0.3%	1.1%
Eastern	1.5%	1.4%	0.8%	0.4%	0.2%	0.7 %
Southeast	5.4%	4.1%	1.1%	0.5%	0.2%	1.3%
Southwest	5.8%	4.5%	1.2%	0.5 %	0.3 %	1.6 %
Statewide	<b>2.9 %</b>	<b>2.4%</b>	<b>0.9 %</b>	<b>0.5%</b>	<b>0.2%</b>	<b>1.1%</b>

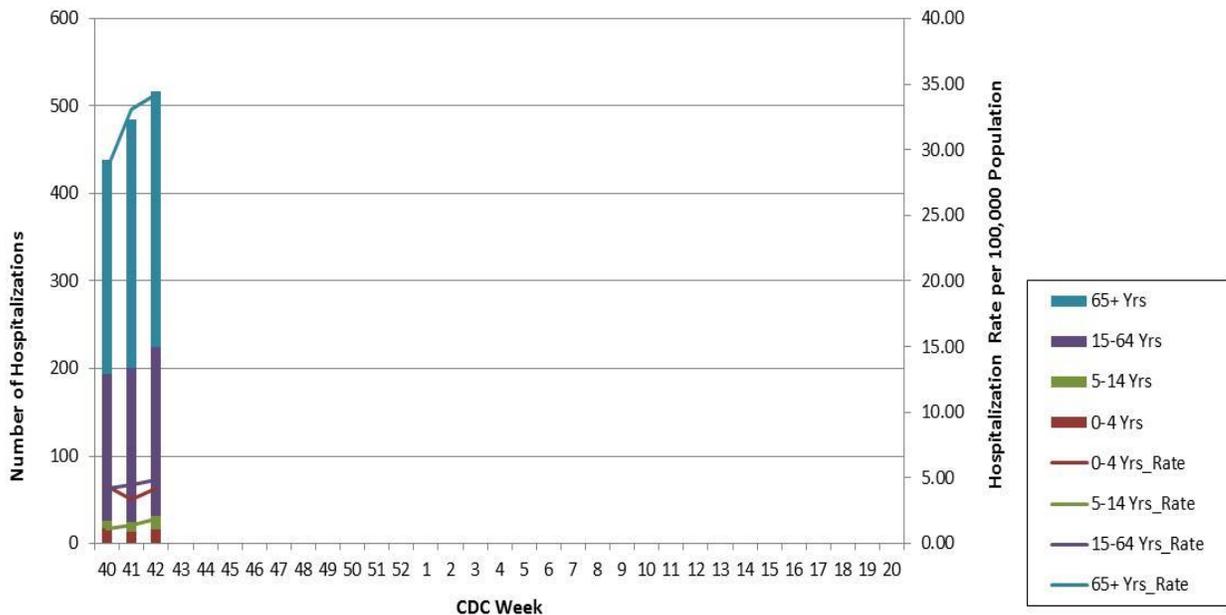
\*2014-2015 Season-to-Date through the week ending May 23, 2015 (Week 20)

**Graph 4. 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 May 23, 2015 (Week 20)

**Graph 5. 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 May 23, 2015 (Week 20)

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>).