



# 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 5: January 26 – February 1, 2014

### Summary

#### National:

- According to this week's CDC's FluView report, flu activity in the United States remains high overall, though some regions including the South Central and Southeast are experiencing declines in activity. Other regions, however, such as the Northeast and Mid-Atlantic are continuing to experience increases in flu 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 16,786 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 eight specimens were received by the State Public Health Laboratory for viral testing during week 5; five were positive for 2009 H1N1 Influenza and three were 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 outbreaks or school closures due to Influenza-like Illness for the 2013-2014 season.
- No pediatric influenza-associated deaths were reported in Week 5, no pediatric deaths reported for the 2013-2014 season.
- In Week 5, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) was 3.66%. This is above the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 5, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 2.6%. Northwest region reported 1.9%, Central region reported 2.3%, Eastern region reported 1.6%, Southeast region reported 3.9%, and Southwest region reported 5.0%.

**Table 1. Reported Laboratory cases by for the Week ending February 1, 2014 (Week 5)**

Serogroups	A	B	A or B Untyped (rapid test)	Total
<b>Week 5</b>	<b>962</b>	<b>37</b>	<b>45</b>	<b>1,044</b>

<sup>1</sup>Data Source: Missouri Health Information Surveillance System (WebSurv).

A total of 1,044 cases were reported for week 5. Eight specimens were received by the State Public Health Laboratory for viral testing during week 5. Five were positive for 2009 H1N1 Influenza and three 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 1, 2014 (Week 5)**

<b>Viral Testing</b>	<b>Week 5 Received</b>	<b>Week 5 Positive</b>	<b>Received Season-to-Date</b>	<b>Positive Results 2013- 2014 Season</b>
<b>Influenza A (H1)</b>		<b>0</b>		<b>0</b>
<b>Influenza A (H1N1)</b>		<b>5</b>		<b>55</b>
<b>Influenza A (H3)</b>		<b>0</b>		<b>1</b>
<b>Total</b>	<b>8</b>	<b>5</b>	<b>115</b>	<b>56</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 February 1, 2014 (Week 5)**

<b>Influenza Type</b>	<b>Week 4</b>	<b>Week 5</b>	<b>2013-2014 Season-to-Date</b>
<b>Influenza A</b>	<b>1,559</b>	<b>962</b>	<b>15,334</b>
<b>Influenza B</b>	<b>82</b>	<b>37</b>	<b>586</b>
<b>Influenza Unknown Or Untyped</b>	<b>83</b>	<b>45</b>	<b>866</b>
<b>Total</b>	<b>1,724</b>	<b>1,044</b>	<b>16,786</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 February 1, 2014 (Week 5)**

<b>Age Group</b>	<b>Week 4 Case Count</b>	<b>Incidence Reported Week 4</b>	<b>Week 5 Case Count</b>	<b>Incidence Reported Week 5</b>	<b>2013-2014 Season-to-Date Count</b>	<b>2013-2014 Season-to-Date Incidence Reported</b>
<b>00-04</b>	<b>344</b>	<b>90</b>	<b>224</b>	<b>58</b>	<b>3,280</b>	<b>854</b>
<b>05-14</b>	<b>346</b>	<b>44</b>	<b>240</b>	<b>31</b>	<b>2,933</b>	<b>373</b>
<b>15-64</b>	<b>925</b>	<b>23</b>	<b>527</b>	<b>13</b>	<b>9,582</b>	<b>240</b>
<b>65+</b>	<b>109</b>	<b>13</b>	<b>53</b>	<b>6</b>	<b>991</b>	<b>116</b>
<b>Total</b>	<b>1,724</b>	<b>29</b>	<b>1,044</b>	<b>17</b>	<b>16,786</b>	<b>279</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 February 1, 2014 (Week 5)**

District	Week 4 Case Count	Incidence Reported Week 4	Week 5 Case Count	Incidence Reported Week 5	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	135	20	92	14	1,522	228
EA	366	16	305	14	4,255	190
NW	521	33	222	14	7,119	452
SE	187	39	131	28	1,431	301
SW	515	49	294	28	2,459	233
<b>Total</b>	<b>1,724</b>	<b>29</b>	<b>1,044</b>	<b>17</b>	<b>16,786</b>	<b>279</b>

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

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

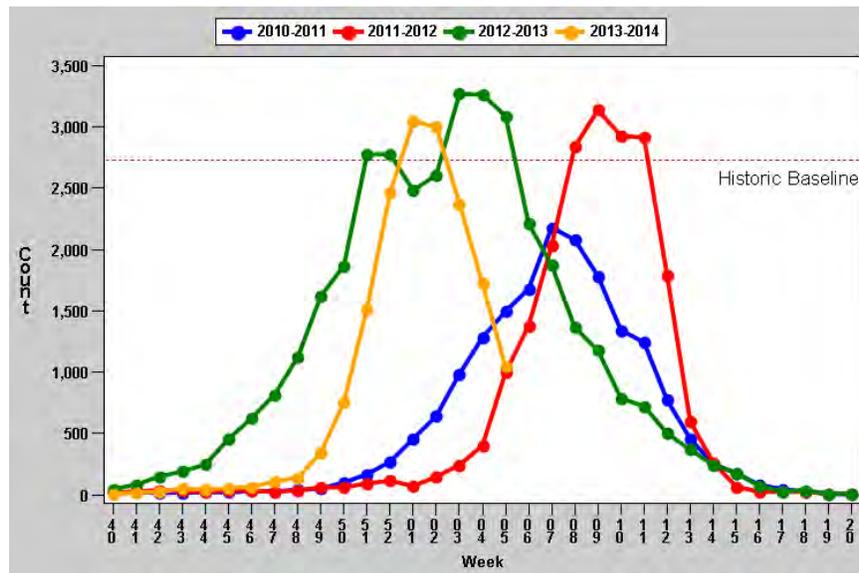
\*Rate per 100,000 population

**Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending January 25, 2014 (Week 4)**

Week 4	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 4 Last Season
100	1,279	1,379	112

\*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 1, 2014 (Week 5)**



\*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 1, 2014 (Week 5)**

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
<b>Week 5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>Season-to-Date (Week 40-Week 5)</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>13</b>

\*Data Source: Local Public Health Agencies

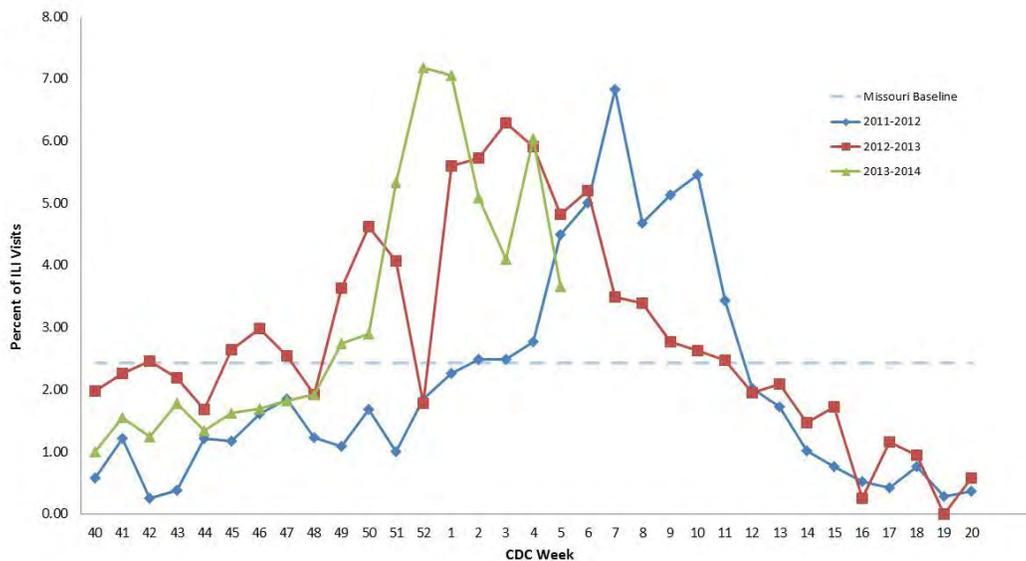
**Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending February 1, 2014 (Week 5)**

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	68	0
Clay*								
Cole	9	5	12	1	0	27	577	4.68
Gasconade*								
Greene*								
Jackson	21	25	31	7	2	86	2804	3.07
Kansas City*								
Knox	2	0	0	0	0	2	87	2.3
Marion	0	0	0	0	0	0	90	0
McDonald	3	10	10	0	0	23	380	3.05
Moniteau*								
Nodaway*								
Pettis*								
Phelps	0	2	0	0	0	2	293	0.68
Putnam*								
Reynolds*								
Saline*								
St. Louis	0	27	0	0	0	27	261	10.34
<b>State Total</b>	<b>35</b>	<b>69</b>	<b>53</b>	<b>8</b>	<b>2</b>	<b>167</b>	<b>4560</b>	<b>3.66</b>

\*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 1, 2014 (Week 5)**

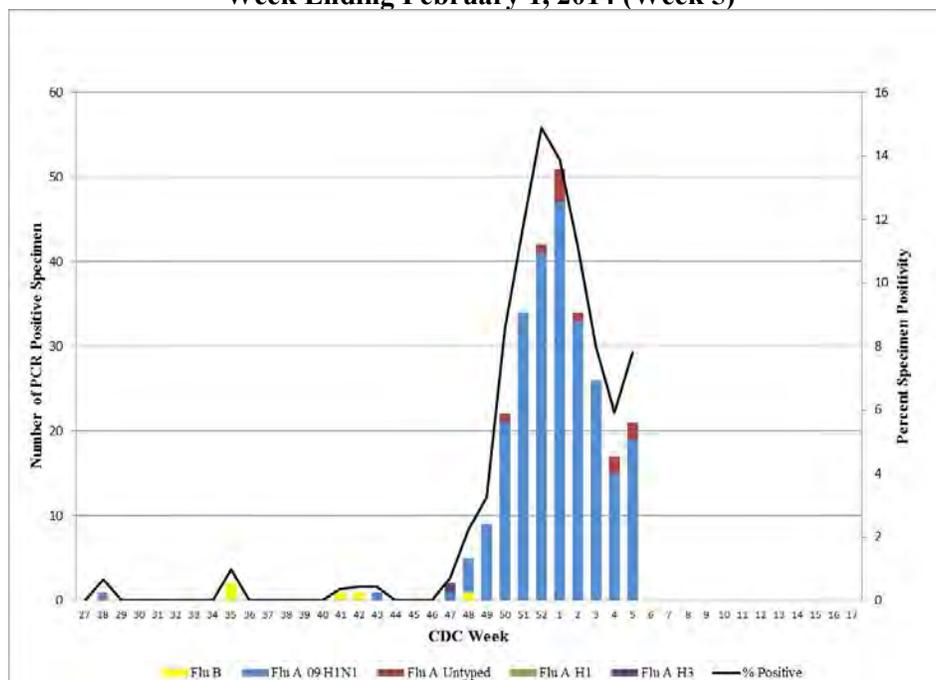


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

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

The proportion of patient visits for influenza-like illness is 3.66% for week ending February 1, 2014 (Week 5). This is above Missouri’s baseline of 2.42%.

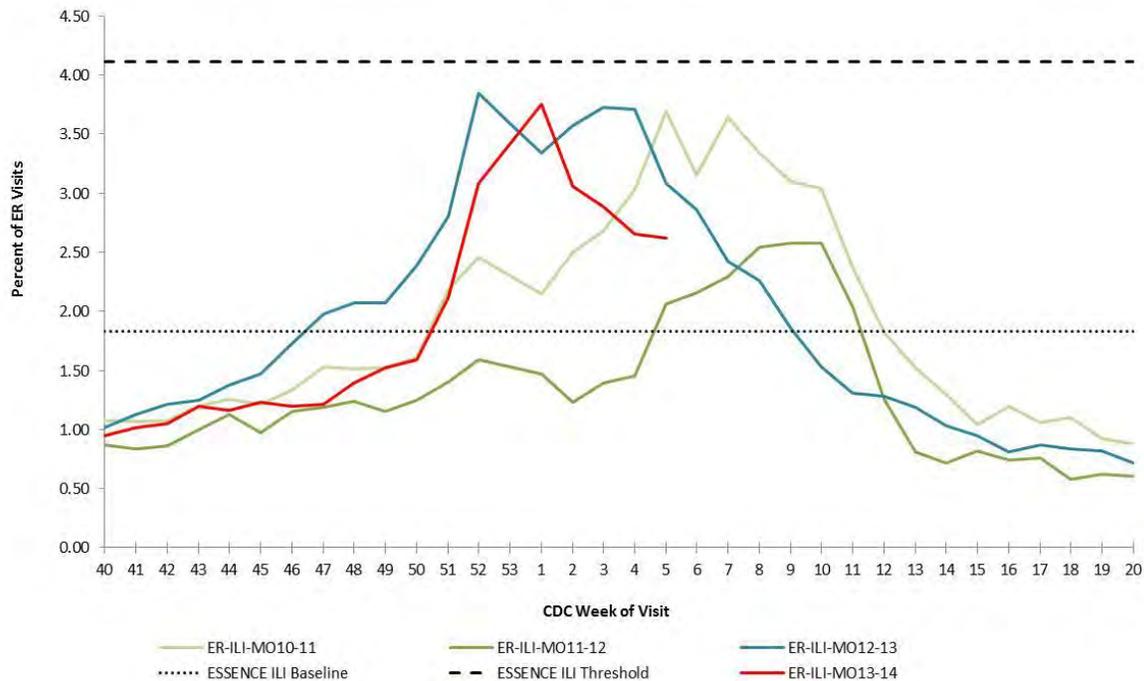
**Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending February 1, 2014 (Week 5)**



\*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 1, 2014 (Week 5)**



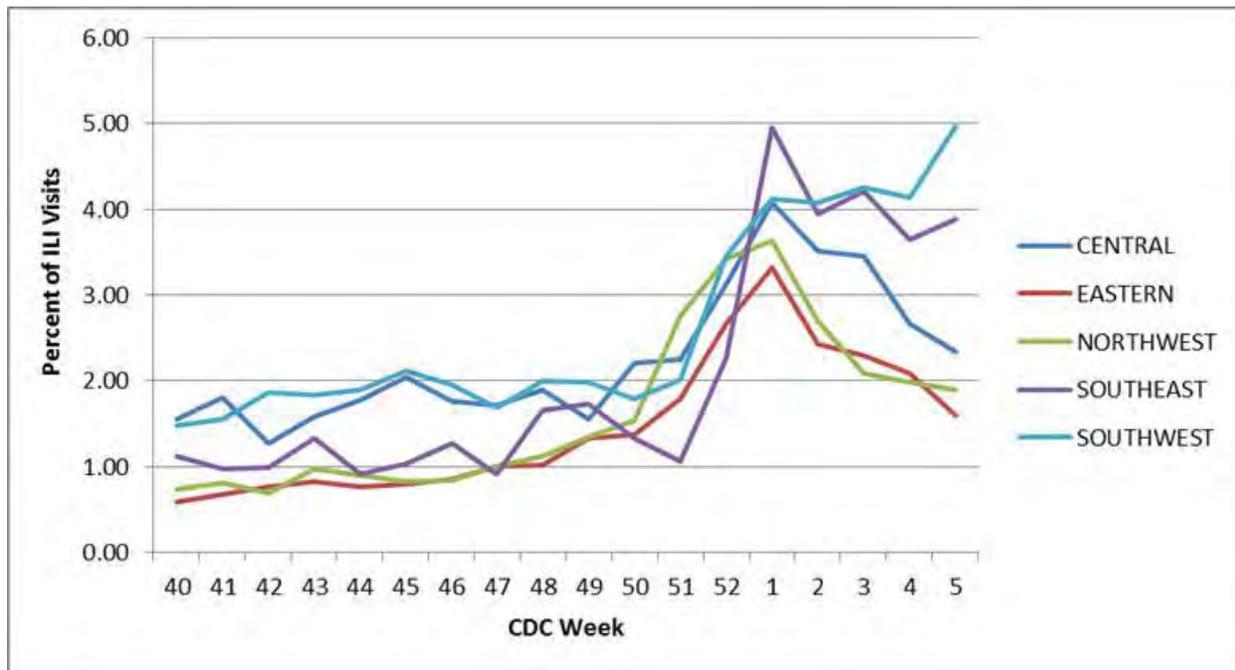
\*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.  
 \*Data Source: Hospitalization Data From: MODHSS (Missouri Department of Health and Senior Services). 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. Retrieved 2014, January 10, from <http://health.mo.gov/data/mica/mica/population.php>

**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 1, 2014 (Week 5)**

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	3.0%	3.3%	1.8%	1.6%	0.5%	1.9%
Central	7.7%	4.8%	1.7%	1.7%	0.6%	2.3%
Eastern	2.1%	1.4%	1.8%	1.9%	0.8%	1.6%
Southeast	6.0%	10.0%	3.1%	3.3%	2.0%	3.9%
Southwest	13.1%	11.2%	3.8%	2.9%	1.4%	5.0%
Statewide	5.3%	5.1%	2.3%	2.1%	0.9%	2.6%

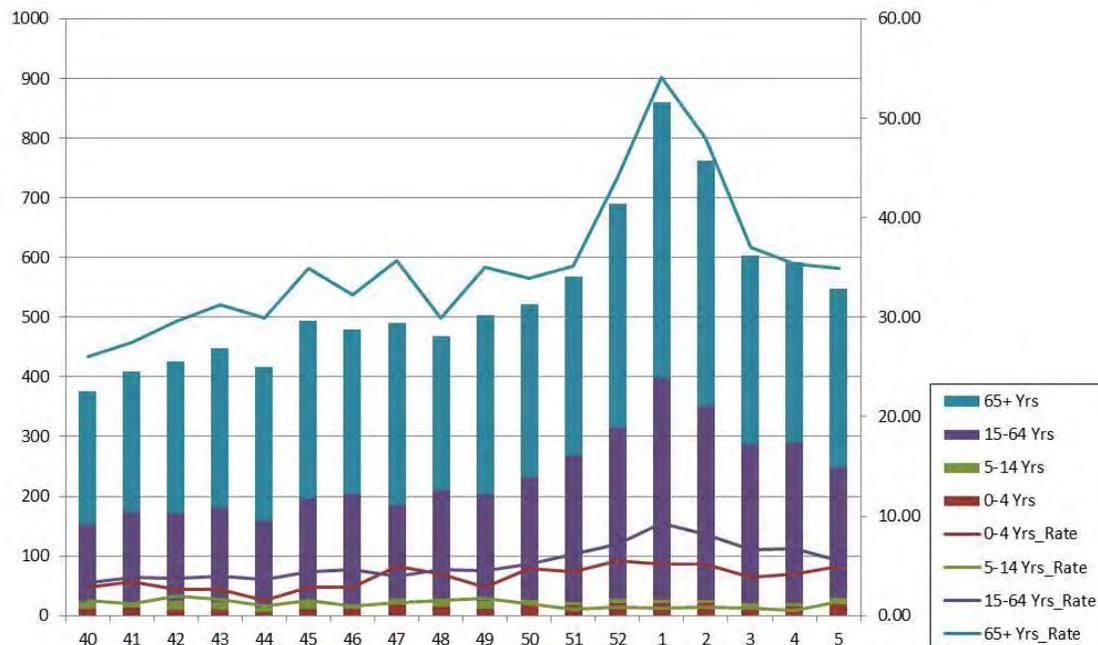
\*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved 2014, January 28, from [https://moessence.dhss.mo.gov/missouri\\_5/servlet/HomePageServlet](https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet)

**Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending February 1, 2014 (Week 5)**



\*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved 2014, January 28, 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 February 1, 2014 (Week 5)**



\*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. Retrieved 2014, January 10, from <http://health.mo.gov/data/mica/mica/population.php>

