



# 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 7: February 9 – February 15, 2014

#### Summary

##### National:

- According to this week's CDC's FluView report, despite a decrease in several key indicators, influenza activity remains elevated nationally. Some states that saw earlier increases in flu activity are now beginning to see decreases. Other states are continuing to see high levels of flu activity or are seeing continued increases in activity.

##### State:

- Missouri is reporting Regional Influenza Activity to CDC, with 19,521 influenza cases reported season-to-date. This represents all laboratory and aggregate influenza reports. Regional Activity is defined as: Increased ILI in at least 2 regions but less than half of the regions, AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions. OR Institutional outbreaks (ILI or lab confirmed) in at least 2 regions, but fewer than half of the regions, AND recent lab confirmed influenza in the affected regions.
- A total of eight specimens were received by the State Public Health Laboratory for viral testing during week 7; three were positive for 2009 H1N1 Influenza and five 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 Influenza-like illness outbreaks reported for Week 7. There has been one Influenza-like illness outbreak reported for the 2013-2014 season. There have no reported school closures due to Influenza-like Illness for the 2013-2014 season.
- No pediatric influenza-associated deaths were reported in Week 7, no pediatric deaths reported for the 2013-2014 season.
- In Week 7, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 2.57%. This is above the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 7, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 1.6%. Northwest region reported 1.1%, Central region reported 1.8%, Eastern region reported 1.2%, Southeast region reported 2.4%, and Southwest region reported 2.7%.

**Table 1. Reported Laboratory cases by for the Week ending February 15, 2014 (Week 7)**

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 7	446	16	12	474

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

A total of 474 cases were reported for week 7. Eight specimens were received by the State Public Health Laboratory for viral testing during week 7. Three were positive for 2009 H1N1 Influenza and five 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 15, 2014 (Week 7)**

Viral Testing	Week 7 Received	Week 7 Positive	Received Season-to-Date	Positive Results 2013- 2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		3		62
Influenza A (H3)		0		1
<b>Total</b>	<b>8</b>	<b>3</b>	<b>137</b>	<b>63</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 15, 2014 (Week 7)**

Influenza Type	Week 6	Week 7	2013-2014 Season-to-Date
Influenza A	1,029	446	17,810
Influenza B	68	16	727
Influenza Unknown Or Untyped	33	12	984
<b>Total</b>	<b>1,130</b>	<b>474</b>	<b>19,521</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 15, 2014 (Week 7)**

Age Group	Week 6 Case Count	Incidence Reported Week 6	Week 7 Case Count	Incidence Reported Week 7	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	229	60	99	26	3,789	986
05-14	207	26	61	8	3,442	438
15-64	612	15	276	7	11,119	279
65+	82	10	38	4	1,171	137
<b>Total</b>	<b>1,130</b>	<b>19</b>	<b>474</b>	<b>8</b>	<b>19,521</b>	<b>325</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 15, 2014 (Week 7)**

District	Week 6 Case Count	Incidence Reported Week 6	Week 7 Case Count	Incidence Reported Week 7	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	141	21	18	3	1,872	280
EA	276	12	190	8	5,026	225
NW	196	12	74	5	7,543	479
SE	154	32	51	11	1,837	386
SW	363	34	141	13	3,243	307
<b>Total</b>	<b>1,130</b>	<b>19</b>	<b>474</b>	<b>8</b>	<b>19,521</b>	<b>325</b>

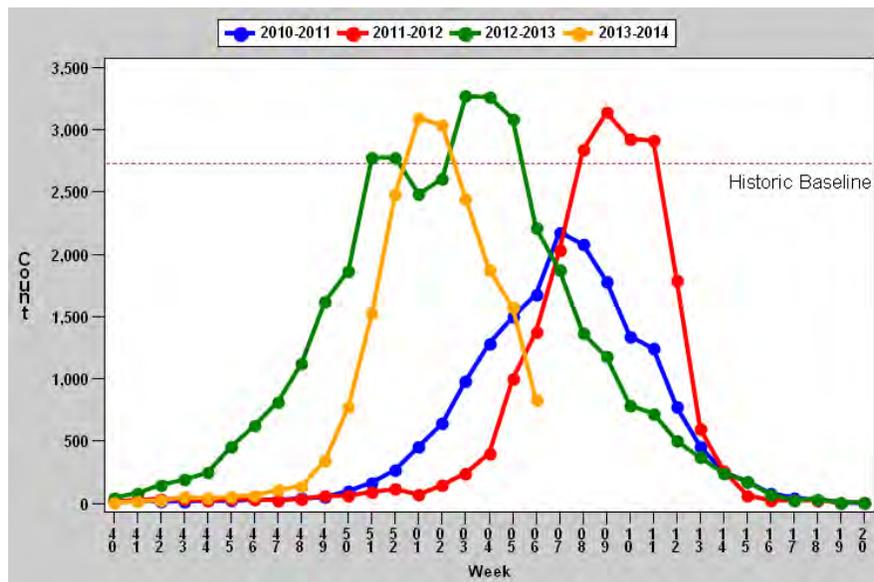
\*Data Source: Missouri Health Information Surveillance System (WebSurv).  
 \*Influenza Season begins Week Ending October 5, 2013 (Week 40)  
 \*Rate per 100,000 population

**Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending February 8, 2014 (Week 6)**

Week 6	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 6 Last Season
90	1,490	1,631	111

\*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 15, 2014 (Week 7)**



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

The number of reported influenza cases for week 7 of the 2013-2014 season.

**Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending February 15, 2014 (Week 7)**

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
<b>Week 7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Season-to-Date (Week 40-Week 7)</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>14</b>

\*Data Source: Local Public Health Agencies

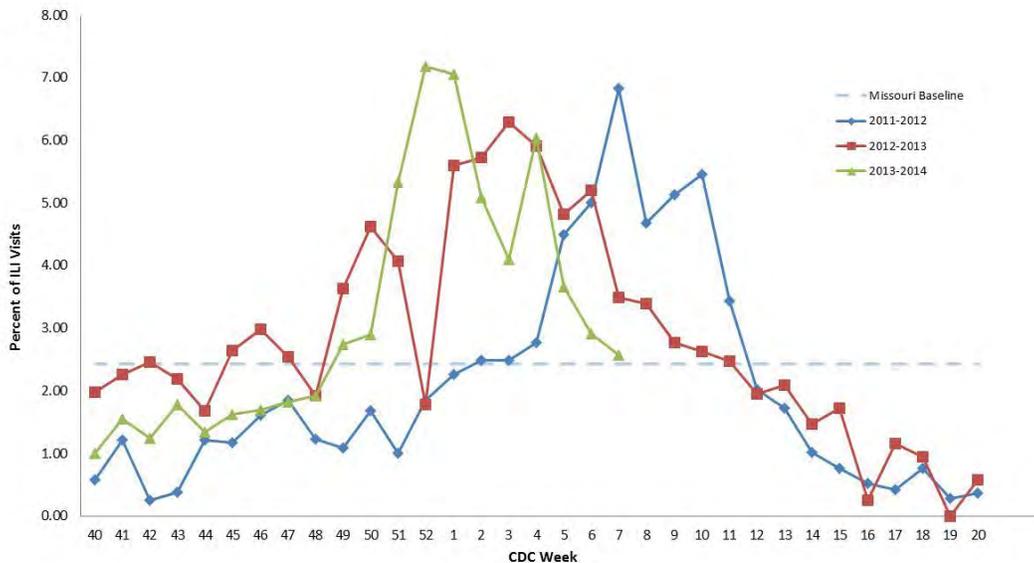
**Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending February 15, 2014 (Week 7)**

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	0	5	0	0	0	5	126	3.97
Audrain	1	0	0	0	0	1	149	0.67
Boone*								
Callaway*								
Cape Girardeau	0	0	0	0	0	0	54	0
Clay*								
Cole	9	8	8	4	3	32	564	5.67
Gasconade*								
Greene*								
Jackson	15	14	13	7	6	55	2601	2.11
Kansas City*								
Knox	0	0	0	0	0	0	86	0
Marion	0	0	0	0	0	0	82	0
McDonald	0	0	1	1	0	2	284	0.70
Moniteau	0	0	0	0	0	0	162	0
Nodaway*								
Pettis*								
Phelps	0	1	2	0	0	3	291	1.03
Putnam*								
Reynolds*								
Saline	4	5	6	1	1	17	172	9.88
St. Louis	0	6	2	0	0	8	217	3.69
<b>State Total</b>	<b>29</b>	<b>39</b>	<b>32</b>	<b>13</b>	<b>10</b>	<b>123</b>	<b>4788</b>	<b>2.57</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 15, 2014 (Week 7)**

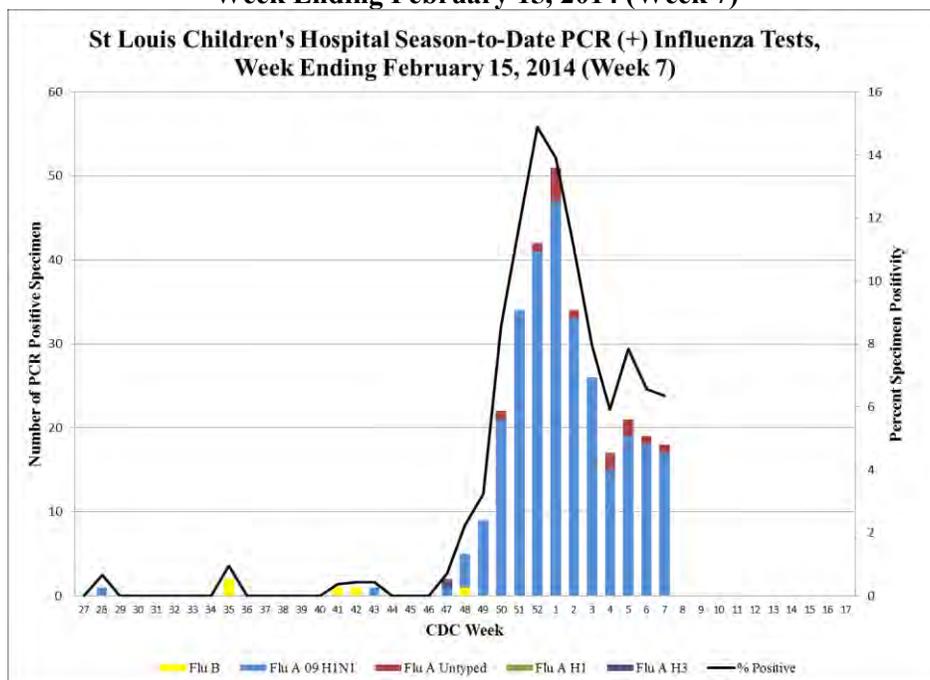


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

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

The proportion of patient visits for influenza-like illness is 2.57% for week ending February 15, 2014 (Week 7). This is above Missouri’s baseline of 2.42%.

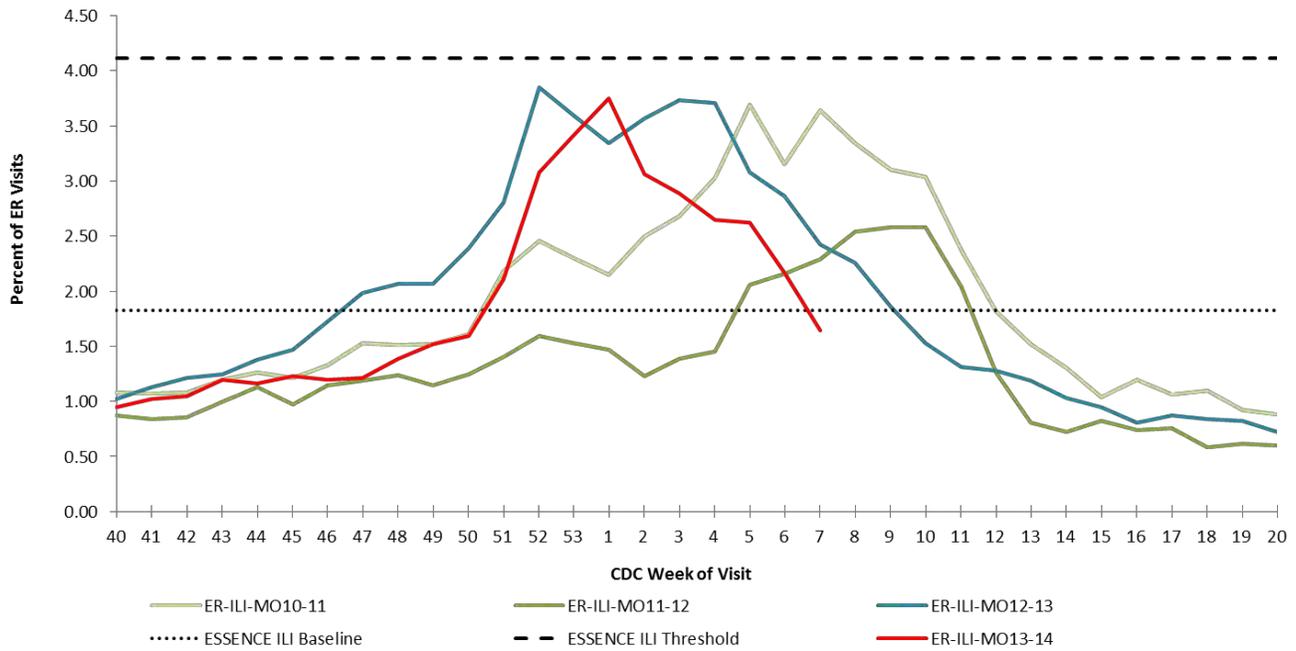
**Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending February 15, 2014 (Week 7)**



\*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 15, 2014 (Week 7)**



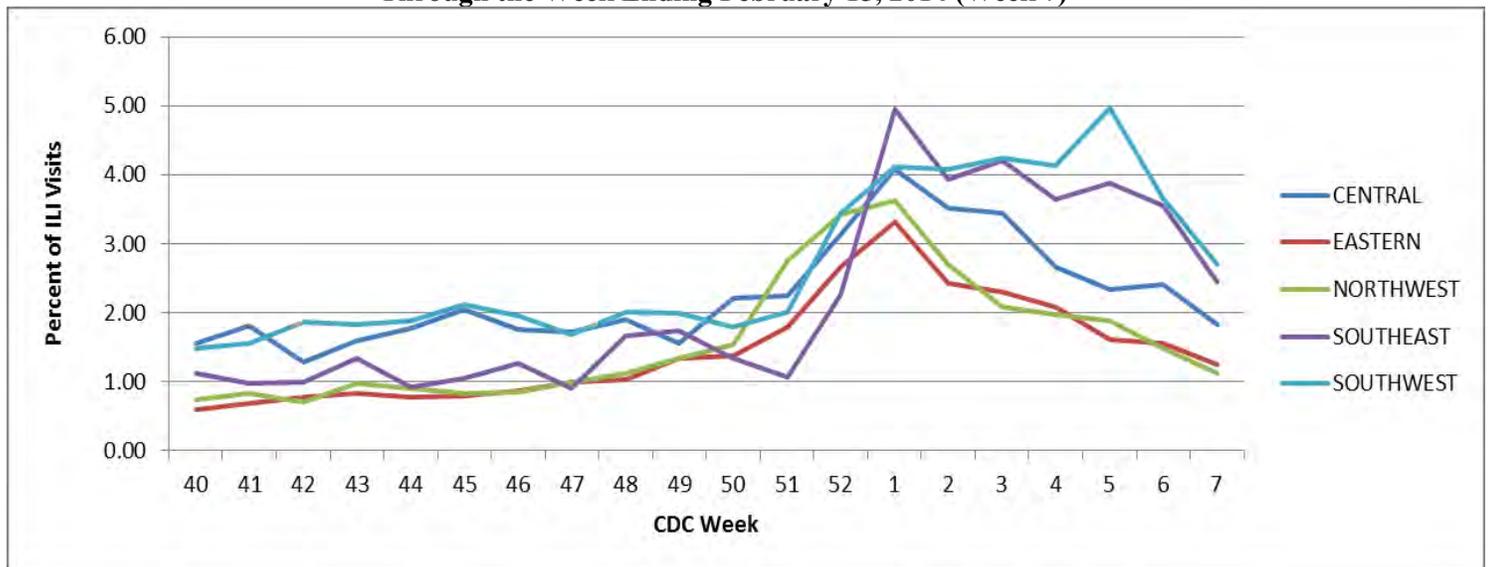
\*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.  
 \*Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance 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 February 15, 2014 (Week 7)**

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	2.4%	2.7%	0.9%	0.7%	0.5%	1.1%
Central	3.8%	4.1%	1.9%	1.1%	0.7%	1.8%
Eastern	2.1%	1.7%	1.4%	1.3%	0.4%	1.2%
Southeast	8.8%	4.3%	1.8%	2.2%	1.1%	2.4%
Southwest	10.6%	5.7%	1.6%	1.7%	0.7%	2.7%
Statewide	4.4%	3.2%	1.4%	1.3%	0.5%	1.6%

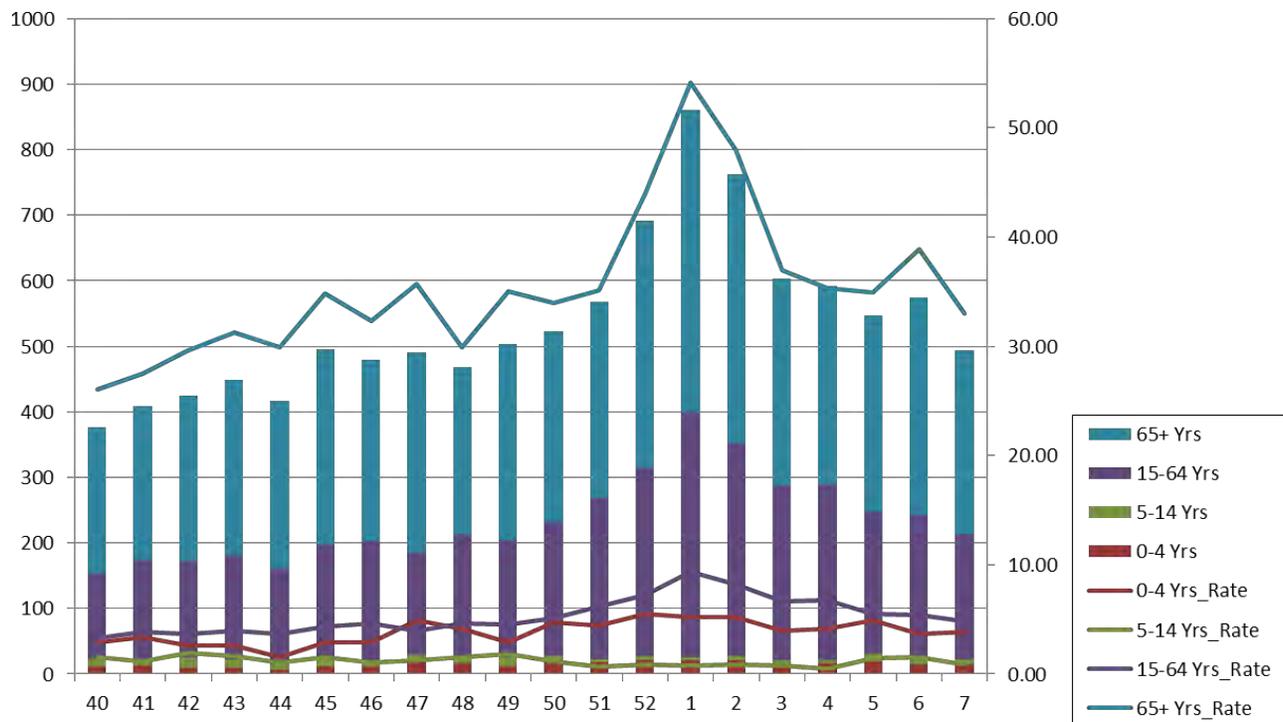
\*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from [https://moessence.dhss.mo.gov/missouri\\_5/servlet/HomePageServlet](https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet)

**Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending February 15, 2014 (Week 7)**



\*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 February 15, 2014 (Week 7)**



\*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>

