



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 8: February 16 – February 22, 2014

Summary

National:

- According to this week's CDC's FluView report, while influenza activity is decreasing, it remains elevated nationally.

State:

- Missouri is reporting Regional Influenza Activity to CDC, with 20,438 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 seven specimens were received by the State Public Health Laboratory for viral testing during week 8; four 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 Influenza-like illness outbreaks reported for Week 8. 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 8, no pediatric deaths reported for the 2013-2014 season.
- In Week 8, the percentage of visits for influenza-like-illness (ILI) reported by the Missouri Outpatient ILI Surveillance Network (ILINet) is 1.74%. This is below the national baseline of 2.0% and Missouri's baseline of 2.42%
- In Week 8, the statewide rate of Influenza-like Illness visits per total visits to hospital emergency rooms reported through the ESSENCE syndromic surveillance system was 1.5%. Northwest region reported 1.0%, Central region reported 1.9%, Eastern region reported 1.0%, Southeast region reported 1.4%, and Southwest region reported 3.0%.

Table 1. Reported Laboratory cases by for the Week ending February 22, 2014 (Week 8)

Serogroups	A	B	A or B Untyped (rapid test)	Total
Week 8	327	22	24	373

¹Data Source: Missouri Health Information Surveillance System (WebSurv).

A total of 373 cases were reported for week 8. Seven specimens were received by the State Public Health Laboratory for viral testing during week 8. Four 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 22, 2014 (Week 8)**

Viral Testing	Week 8 Received	Week 8 Positive	Received Season-to-Date	Positive Results 2013-2014 Season
Influenza A (H1)		0		0
Influenza A (H1N1)		3		66
Influenza A (H3)		0		1
Total	7	4	144	67

*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 22, 2014 (Week 8)**

Influenza Type	Week 7	Week 8	2013-2014 Season-to-Date
Influenza A	668	327	18,616
Influenza B	49	22	787
Influenza Unknown Or Untyped	28	24	1,035
Total	745	373	20,438

*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 22, 2014 (Week 8)**

Age Group	Week 7 Case Count	Incidence Reported Week 7	Week 8 Case Count	Incidence Reported Week 8	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
00-04	151	39	90	23	3,993	1,039
05-14	93	12	60	8	3,603	459
15-64	447	11	203	5	11,620	292
65+	54	6	20	2	1,222	143
Total	745	12	373	6	20,438	340

*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 22, 2014 (Week 8)

District	Week 7 Case Count	Incidence Reported Week 7	Week 8 Case Count	Incidence Reported Week 8	2013-2014 Season-to-Date Count	2013-2014 Season-to-Date Incidence Reported
CE	85	13	39	6	2,055	307
EA	220	10	120	5	5,240	234
NW	127	8	56	4	7,760	493
SE	105	22	60	13	1,971	414
SW	208	20	98	9	3,412	323
Total	745	12	373	6	20,438	340

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

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

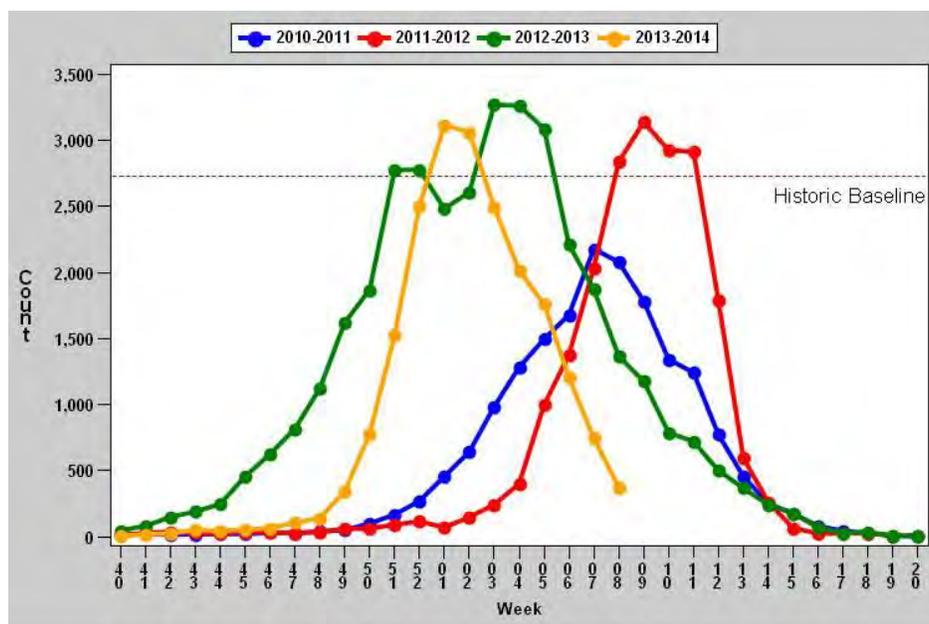
*Rate per 100,000 population

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending February 15, 2014 (Week 7)

Week 7	Season-to-Date 2013-2014	Season-to-Date 2012-2013	Week 7 Last Season
84	1,574	1,752	121

*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 22, 2014 (Week 8)



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

The number of reported influenza cases for week 8 of the 2013-2014 season.

Table 7. Outbreaks/Closures Due to Influenza-like Illness Reported During the Week Ending February 22, 2014 (Week 8)

	Outbreaks		Closures	
	Current Season 2013-2014	Previous Season 2012-2013	Current Season 2013-2014	Previous Season 2012-2013
Week 8	0	1	0	0
Season-to-Date (Week 40-Week 8)	1	3	0	14

*Data Source: Local Public Health Agencies

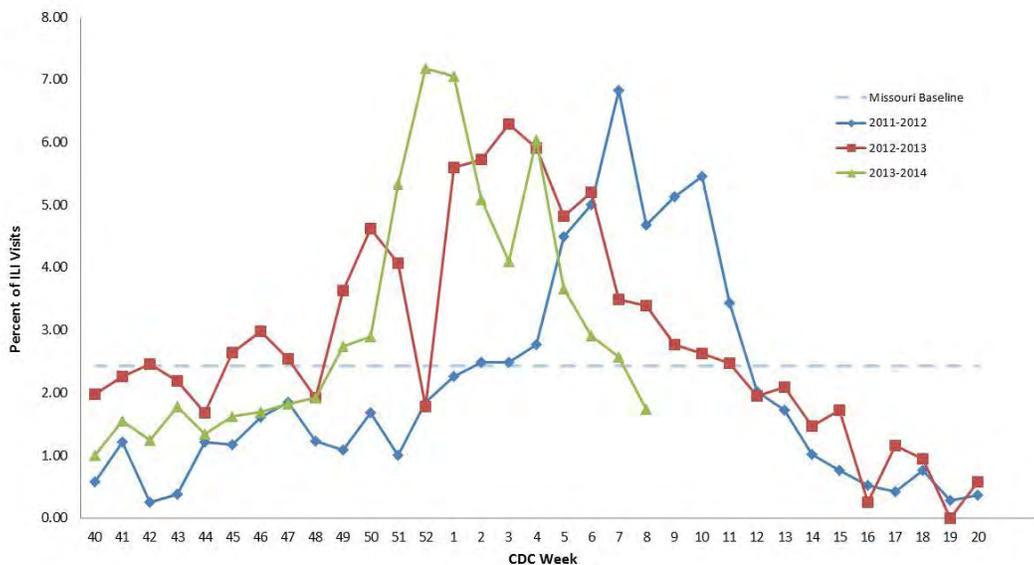
Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending February 22, 2014 (Week 8)

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	0	5	0	0	0	5	669	0.75
Callaway*								
Cape Girardeau	0	0	0	0	0	0	39	0
Clay*								
Cole	9	1	3	0	0	13	637	2.04
Gasconade*								
Greene	0	5	1	1	0	7	664	1.05
Jackson	15	14	19	0	5	53	2698	1.96
Kansas City*								
Knox	0	0	0	0	0	0	90	0
Marion	0	0	0	0	0	0	78	0
McDonald	0	4	6	0	0	10	407	2.46
Moniteau	0	0	0	2	0	2	172	1.16
Nodaway*								
Pettis*								
Phelps	0	1	1	0	0	2	270	0.74
Putnam*								
Reynolds	0	0	0	0	0	0	45	0
Saline	2	1	2	3	1	9	168	5.36
St. Louis	0	5	1	0	0	6	219	2.74
State Total	26	36	33	6	6	107	6156	1.74

*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 February 22, 2014 (Week 8)

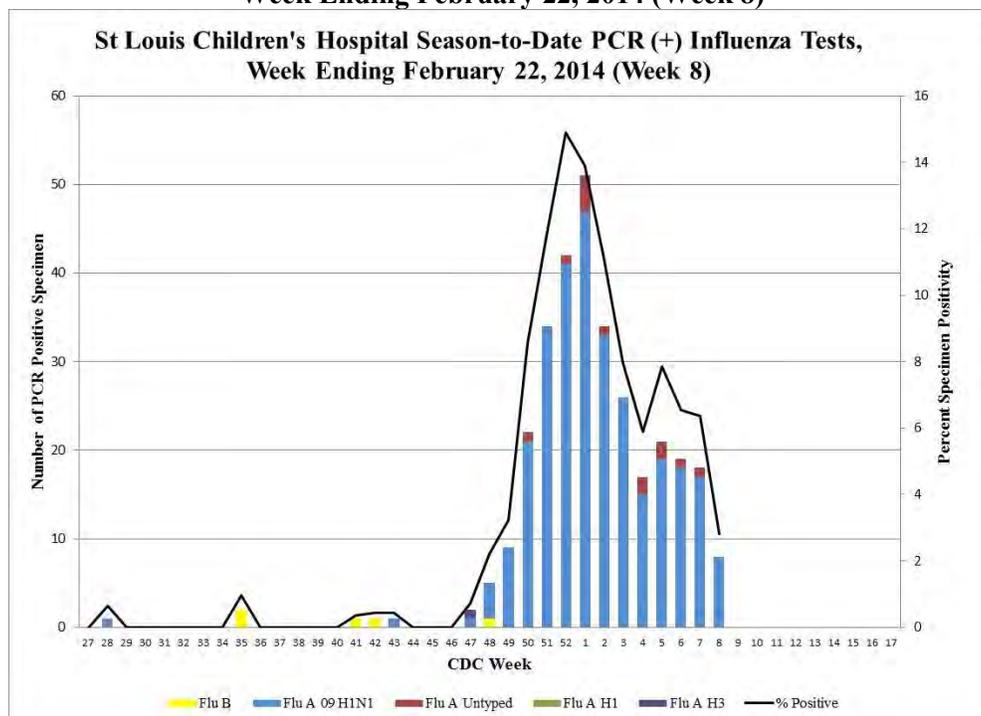


ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2010-11, 2011-12 and 2012-13) with low influenza activity.

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

The proportion of patient visits for influenza-like illness is 1.74% for week ending February 22, 2014 (Week 8). This is below Missouri’s baseline of 2.42%.

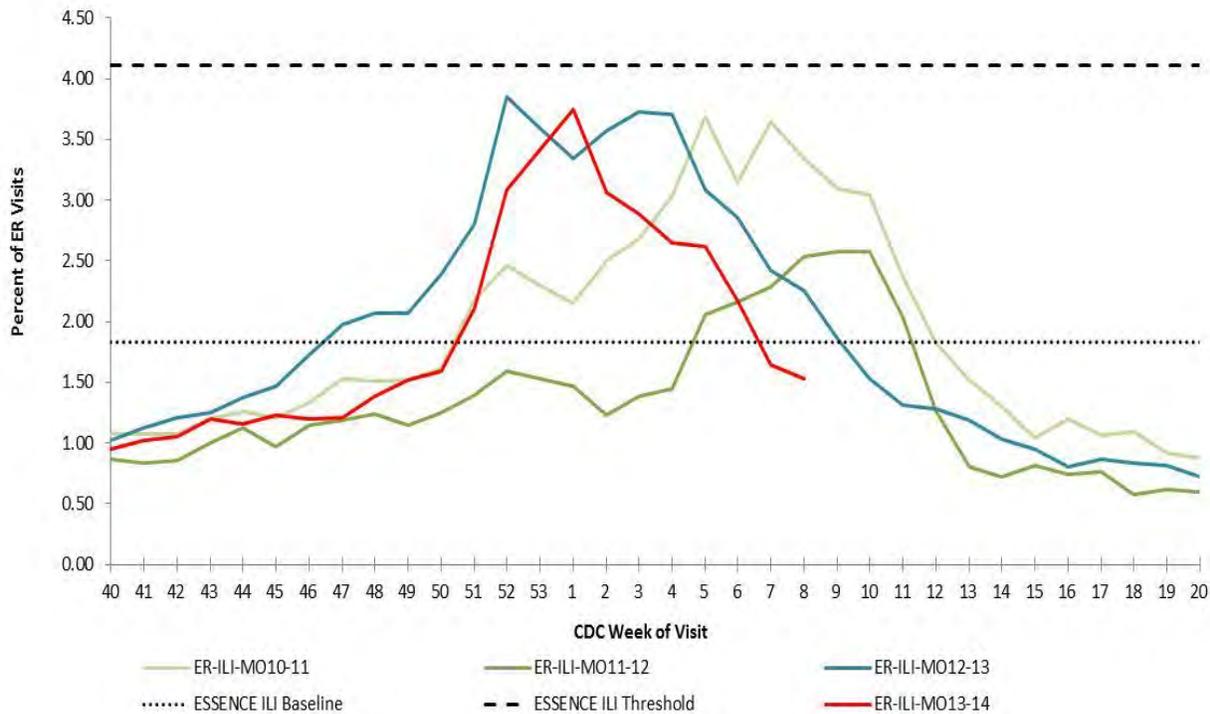
Graph 3. St. Louis Children’s Hospital Season-to-Date PCR (+) Influenza Tests Week Ending February 22, 2014 (Week 8)



*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 22, 2014 (Week 8)



*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.

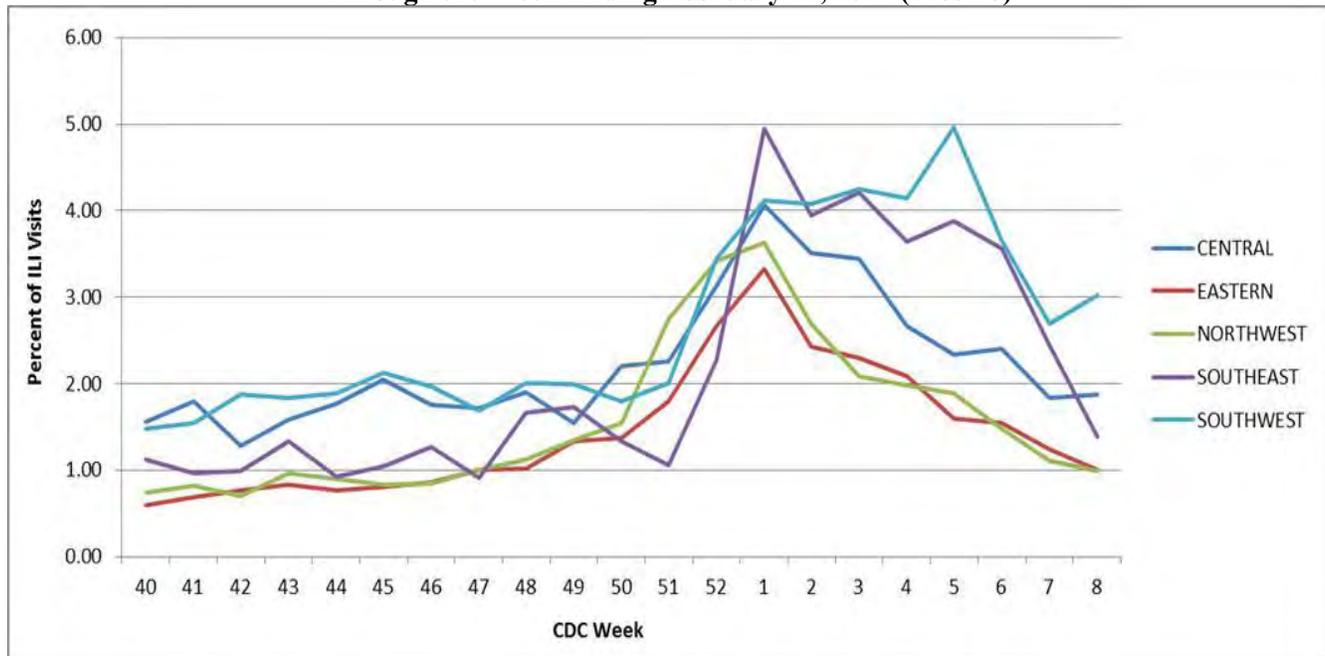
*Data Source: : MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

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 February 22, 2014 (Week 8)

District	Age 0-4	Age 5-17	Age 18-44	Age 45-64	Age 65+	Overall Rate
Northwest	2.6%	1.7%	0.8%	0.6%	0.3%	1.0%
Central	7.5%	3.7%	1.6%	0.6%	0.8%	1.9%
Eastern	1.9%	1.3%	1.3%	0.6%	0.3%	1.0%
Southeast	4.0%	4.0%	0.9%	1.0%	0.5%	1.4%
Southwest	9.8%	6.8%	2.2%	1.6%	0.7%	3.0%
Statewide	4.3%	3.1%	1.4%	0.8%	0.5%	1.5%

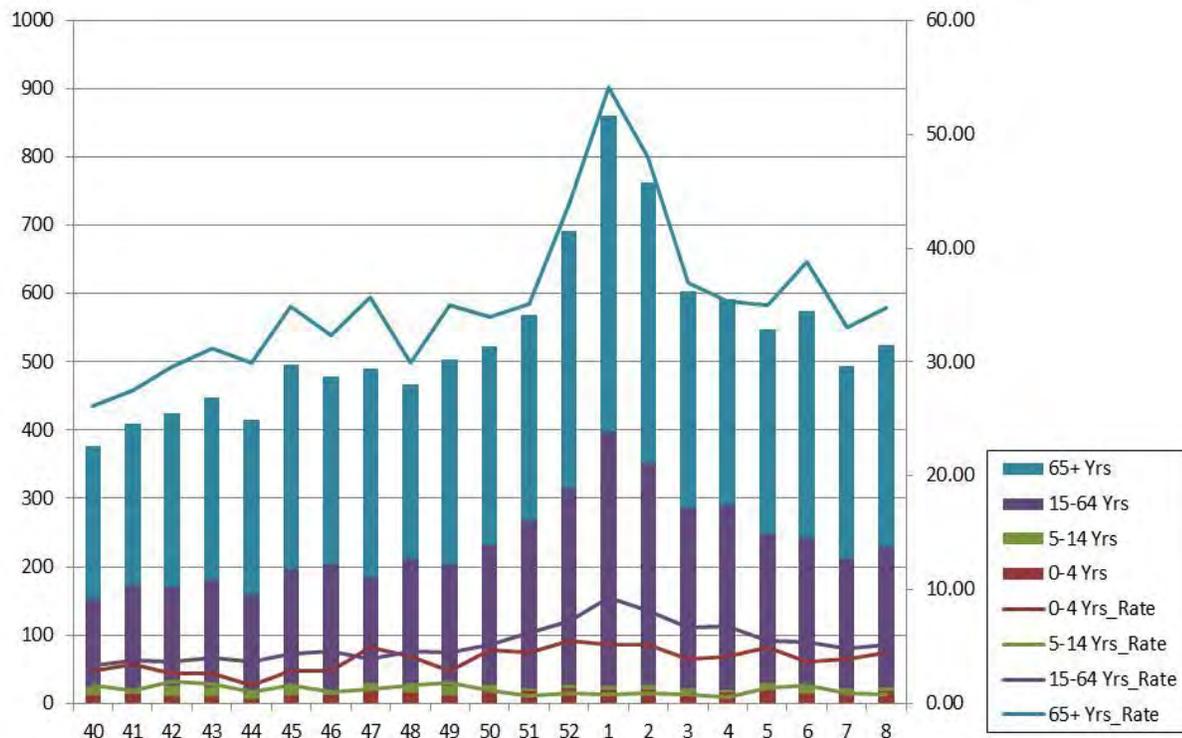
*Data Source: MODHSS (Missouri Department of Health and Senior Services). ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics). Retrieved from https://moessence.dhss.mo.gov/missouri_5/servlet/HomePageServlet

Graph 5. Percentage of Influenza-like Illness (ILI) from Total ESSENCE Visits to Hospital Emergency Rooms By CDC Week Through the Week Ending February 22, 2014 (Week 8)



*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 February 22, 2014 (Week 8)



*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>

