



Missouri Weekly Influenza Report 2012-2013 Season

Missouri is reporting “Sporadic” to the CDC for Week 20.

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.

THIS IS THE FINAL REPORT FOR THE 2012-2013 SEASON.

Table 1. Reported Laboratory cases by sub-type for the Week ending May 18, 2013 (Week 20)

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 20	1	0	0	0	3	0	4

No specimens were received by the State Public Health Laboratory for viral testing during week 20.

No variant influenza viruses have been detected in Missouri as of this report for the 2012-2013 influenza season.

CDC has antigenically characterized 42 isolates so far this influenza season from Missouri: 21 were B/WISCONSIN/01/2010-LIKE, 15 were A/Victoria/361/2011-LIKE (H3N2) GP, two was B/BRISBANE/60/2008-LIKE, and four A/CALIFORNIA/07/2009-LIKE (H1N1)pdm09. Both the influenza A (H3N2) component and the influenza B component are in the 2012-2013 influenza vaccine for the Northern Hemisphere. The national antigenic characterization results may be found in the CDC weekly flu report at <http://www.cdc.gov/flu/weekly/>.

Missouri has no reported Influenza-Associated Pediatric deaths as of week 20 for the 2012-2013 influenza season.

**Table 2. Reported Positive Influenza Tests
Season-to-Date and 5-season Median by Influenza Type
Through Week Ending May 18, 2013 (Week 20)**

Influenza Type	2012-2013 Season	5-Season Median	% Change from 5-Season Median
Influenza A	14,615	18,135	(19.4%)
Influenza B	20,403	3,845	430.6%
Influenza Unknown Or Untyped	2,019	1,338	50.9%
Total	37,037	20,485	80.8%

NOTE: The influenza counts presented each week do not reflect the actual number of influenza cases in the state. These counts are the number of patients who have been tested by a health care provider, have had a positive flu test, and were reported to public health. Influenza can cause mild to severe illness. Most individuals with mild illness do not seek medical attention or go to a doctor. Those who are ill enough to go to a doctor are not always tested. All data in this report are provisional.

Table 3. Reported Positive Influenza Tests Season-to-Date and 5-season Median by Age Group Through Week Ending May 18, 2013 (Week 20)

Age Group	2012-2013 Season	5-Season Median	% Change from 5-Season Median
00-<02	2,913	1,865	56.2%
02-04	5,217	3,476	50.1%
05-14	12,820	6,506	97.0%
15-24	3,228	2,669	20.9%
25-49	6,955	3,521	97.5%
50-64	3,179	1,297	145.1%
65+	2,725	828	229.1%
Total	37,037	20,485	80.8%

Table 4. Reported Positive Influenza Tests Season-to-Date and 5-season Median by District Through Week Ending May 18, 2013 (Week 20)

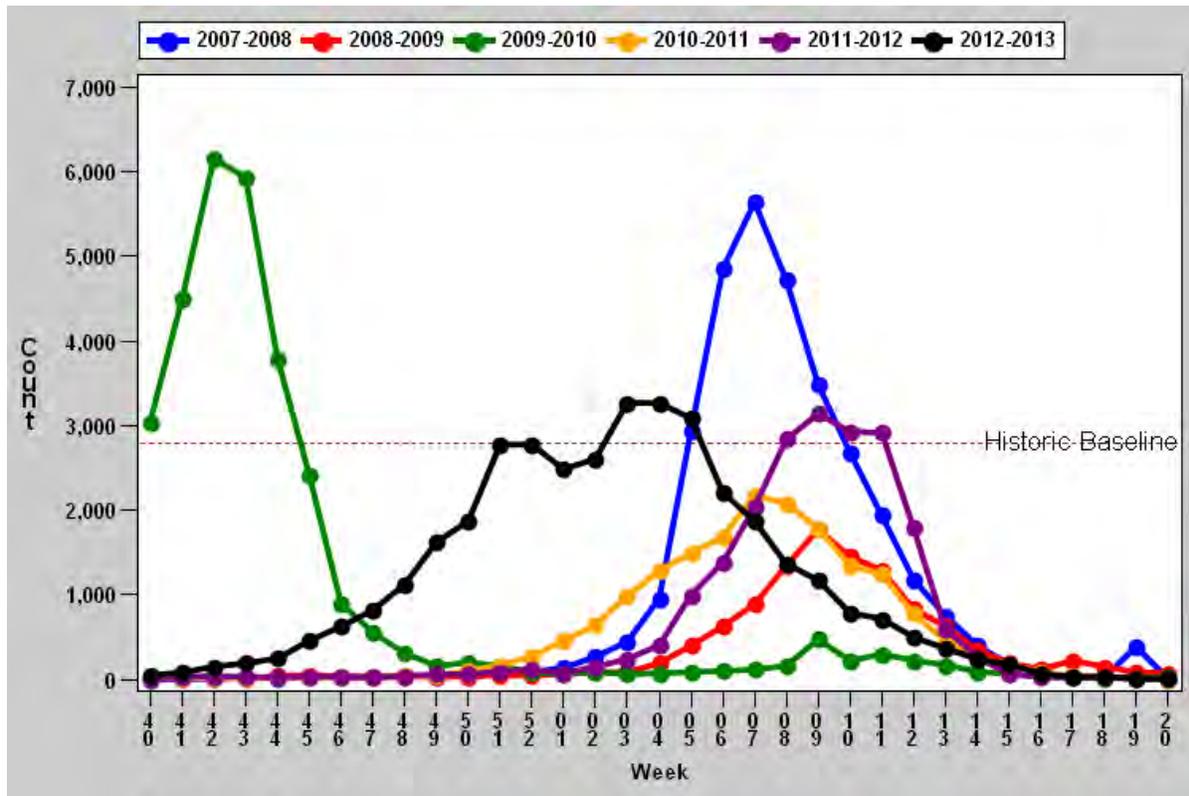
District	2012-2013 Season	5-Season Median	% Change from 5-Season Median
CE	5,088	3,340	52.3%
EA	9,290	6,052	53.5%
NW	11,422	6,461	76.8%
SE	5,601	2,126	163.5%
SW	5,636	3,767	49.6%
Total	37,037	20,485	80.8%

Table 5. Positive Respiratory Virus Results Tested by the Missouri State Public Health Laboratory Reported Season-To-Date Through the Week ending May 18, 2013 (Week 20)

Respiratory Virus	Positive Results 2012-2013 Season	% of Tests Positive
Influenza (all types)	117	96%
Respiratory syncytial virus (RSV)		
Parainfluenza Virus	4	3%
Adenovirus	1	1%
Enterovirus		
Cytomegalovirus (CMV)		
Rhinovirus		
Total	122	100%

Note: Of the viruses listed in Table 5, influenza is the only one that is reportable in Missouri. For a complete list of reportable diseases and conditions: <http://health.mo.gov/living/healthcondiseases/communicable/communicabledisease/index.php>

Graph 1. Reported Influenza Cases 2012-2013 Season-To-Date as compared to the previous Five Influenza Seasons Through the Week Ending May 18, 2013 (Week 20)



Note: Historic Baseline is calculated as the mean weekly count of the reported confirmed flu cases plus 3 standard deviation from the 2008-2009, 2010-2011 and 2011-2012 flu seasons.

Table 6. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending May 11, 2013 (Week 19)

Week 19	Season-to-Date 2012-2013	Season-to-Date 2011-2012	Week 19 Last Season	5 Year Weekly Median
79	2,890	3,065	63	82

Table 7. Outbreaks/School Closures Due to Influenza-like Illness Reported During the Week Ending May 18, 2013 (Week 20)

	Outbreaks		School Closures	
	Current Season 2012-2013	Previous Season 2011-2012	Current Season 2012-2013	Previous Season 2011-2012
Week 20	0	0	0	0
Season-to-Date (Week 40-Week 20)	7	14	14	14

Outbreaks/School Closures due to Influenza-like Illness: No school closures were reported for week 20 of the current season; no outbreaks were reported for week 20.

Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County Influenza-like Illness (ILI) for the Week Ending May 18, 2013 (Week 20)

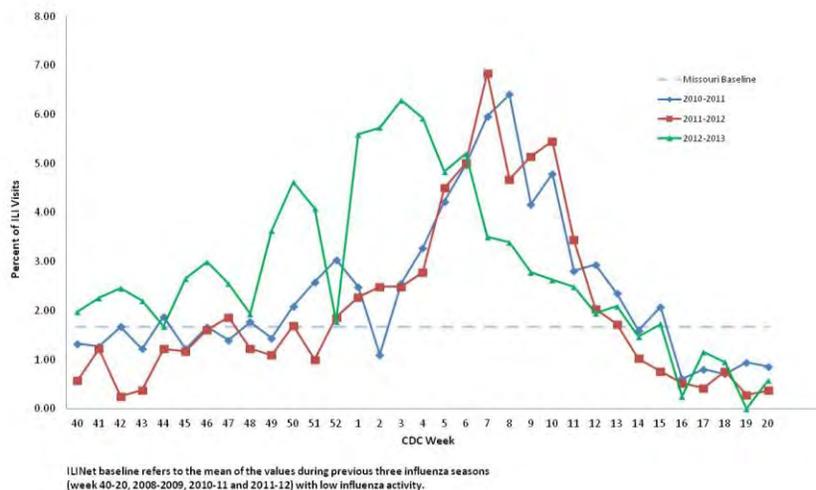
Jurisdiction	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI
Adair								
Audrain	0	0	0	0	0	0	159	0
Boone	0	0	0	0	0	0	633	0
Callaway								
Cape Girardeau	0	0	0	0	0	0	60	0
Clay								
Cole	1	1	5	0	1	8	672	1.19
Gasconade	0	0	0	0	0	0	395	0
Greene								
Iron								
Jackson								
Kansas City	9	11	4	1	1	26	2878	0.9
Knox								
Marion	0	0	0	0	0	0	79	0
McDonald	0	0	0	0	0	0	338	0
Moniteau	0	0	0	0	0	0	135	0
Nodaway								
Pettis								
Phelps	0	0	0	0	0	0	227	0
Putnam	0	0	0	0	0	0	208	0
Reynolds	0	0	0	0	0	0	39	0
Saline								
St. Clair								
State Total	10	12	9	1	2	34	5,823	0.58

*Only counties with sentinel provider(s) are listed above.

**To learn about ILINet, view the following website: <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>

***This is the below the national baseline of 2.2%.

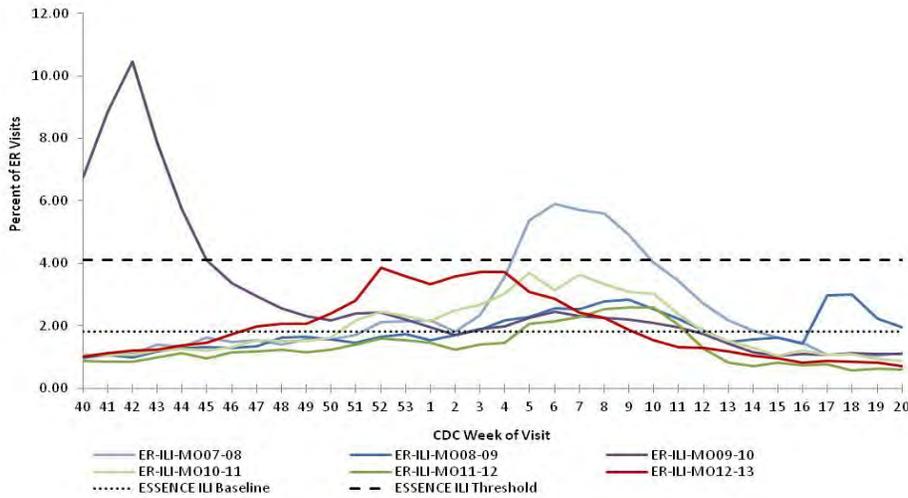
Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2012-2013 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending May 18, 2013 (Week 20)



ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2008-2009, 2010-11 and 2011-12) with low influenza activity.

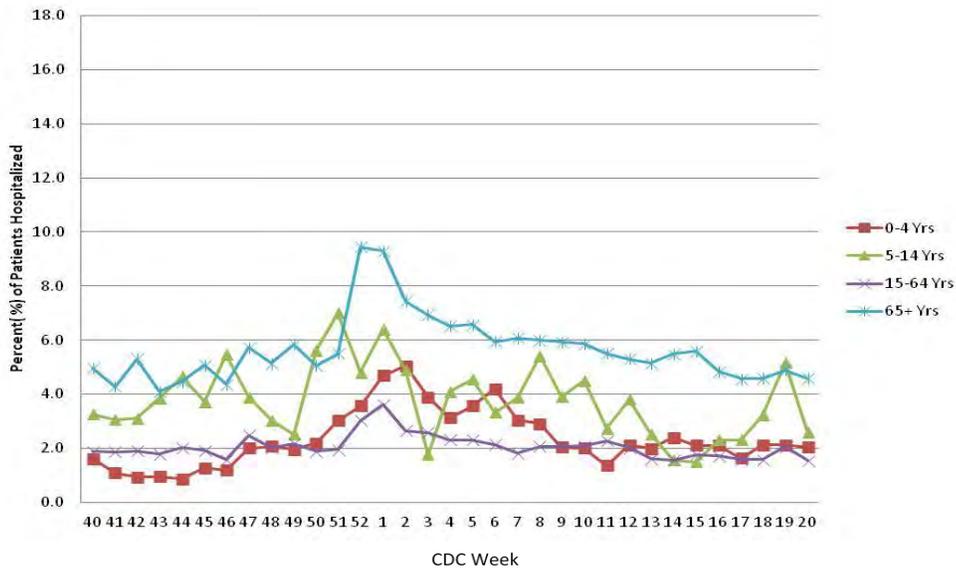
The proportion of patient visits for influenza-like illness increased to 0.58% for week ending May 18, 2013 (Week 20). This is below Missouri’s baseline of 1.66%.

Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2007-2013 Influenza Seasons Through the Week Ending May 18, 2013 (Week 20)



*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.
 *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.

Graph 4. Percentage of Patients Hospitalized for Influenza and/or Pneumonia Syndromes Following Emergency Department Visits, By Age Group from 90 Participating Missouri Hospitals Through the Week Ending May 18, 2013 (Week 20)



*Please use caution when comparing current 2011-2013 influenza season inpatient hospitalization numbers to previous years due to major revisions to the inpatient database environment.

The 0-4 year age group has decreased to 2.05% the 5-14 year age group has decreased to 2.59%, the 15-64 year age group has decreased to 1.55%, and the 65 and older age group has decreased to 4.59% in Week 20.

