



Missouri Weekly Influenza Report 2012-2013 Season

Missouri is reporting “Regional” to the CDC for Week 7.

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](#).

Table 1. Reported Laboratory cases by sub-type for the Week ending February 16, 2013 (Week 7)

| Serogroups | A (non-typed) | A (H1) | A (H1N1) | A (H3) | B | A or B Untyped (rapid test) | Total |
|------------|---------------|--------|----------|--------|-----|-----------------------------|-------|
| Week 7 | 370 | 0 | 1 | 0 | 228 | 30 | 629 |

A total of two specimens were received by the State Public Health Laboratory for viral testing during week 7. One was positive for Influenza 2009 A (H1N1) and one was positive for Influenza B.

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

CDC has antigenically characterized 20 isolates so far this influenza season from Missouri: 15 were B/WISCONSIN/01/2010-LIKE and five were A/Victoria/361/2011-LIKE (H3N2) GP. 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 7 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 February 16, 2013 (Week 7)**

| Influenza Type | 2012-2013 Season | 5-Season Median | % Change from 5-Season Median |
|------------------------------|------------------|-----------------|-------------------------------|
| Influenza A | 9,764 | 6,846 | 42.6% |
| Influenza B | 18,203 | 677 | 2588.8% |
| Influenza Unknown Or Untyped | 1,720 | 372 | 362.4% |
| Total | 29,687 | 9,515 | 212.0% |

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 February 16, 2013 (Week 7)

| Age Group | 2012-2013 Season | 5-Season Median | % Change from 5-Season Median |
|--------------|------------------|-----------------|-------------------------------|
| 00-<02 | 2,339 | 856 | 173.2% |
| 02-04 | 4,288 | 1,306 | 228.3% |
| 05-14 | 10,927 | 2,798 | 290.5% |
| 15-24 | 2,409 | 1,572 | 53.2% |
| 25-49 | 5,300 | 2,042 | 159.5% |
| 50-64 | 2,424 | 566 | 328.3% |
| 65+ | 2,000 | 329 | 507.9% |
| Total | 29,687 | 9,515 | 212.0% |

Table 4. Reported Positive Influenza Tests Season-to-Date and 5-season Median by District Through Week Ending February 16, 2013 (Week 7)

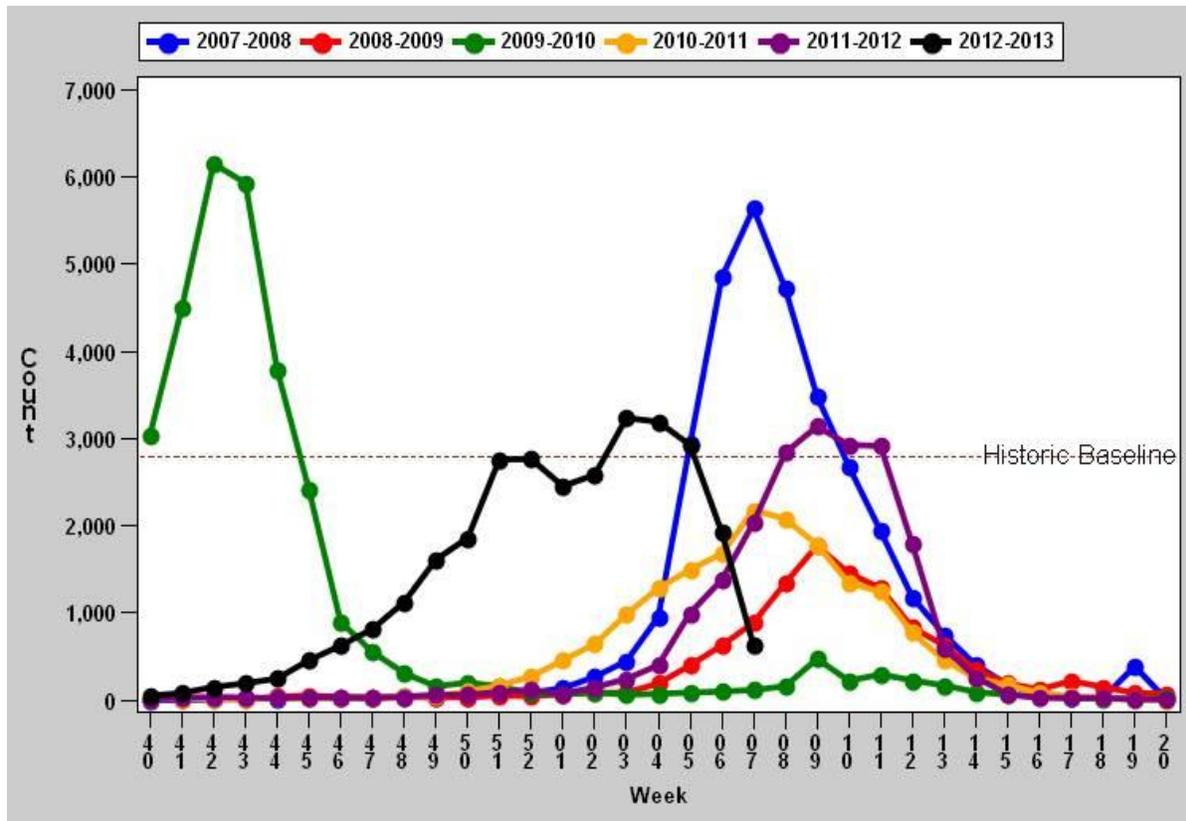
| District | 2012-2013 Season | 5-Season Median | % Change from 5-Season Median |
|--------------|------------------|-----------------|-------------------------------|
| CE | 4,153 | 1,082 | 283.8% |
| EA | 7,550 | 2,831 | 166.7% |
| NW | 9,365 | 3,249 | 188.2% |
| SE | 4,279 | 1,372 | 211.9% |
| SW | 4,340 | 1,841 | 135.7% |
| Total | 29,687 | 9,515 | 212.0% |

Table 5. Positive Respiratory Virus Results Tested by the Missouri State Public Health Laboratory Reported Season-To-Date Through the Week ending February 16, 2013 (Week 7)

| Respiratory Virus | Positive Results 2012-2013 Season | % of Tests Positive |
|-----------------------------------|-----------------------------------|---------------------|
| Influenza (all types) | 102 | 96% |
| Respiratory syncytial virus (RSV) | | |
| Parainfluenza Virus | 4 | 4% |
| Adenovirus | | |
| Enterovirus | | |
| Cytomegalovirus (CMV) | | |
| Rhinovirus | | |
| Total | 106 | 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 February 16, 2013 (Week 7)



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 February 9, 2013 (Week 6)

| Week 6 | Season-to-Date 2012-2013 | Season-to-Date 2011-2012 | Week 6 Last Season | 5 Year Weekly Median |
|------------|--------------------------|--------------------------|--------------------|----------------------|
| 111 | 1,631 | 1,802 | 107 | 84 |

Table 7. Outbreaks/School Closures Due to Influenza-like Illness Reported During the Week Ending February 16, 2013 (Week 7)

| | Outbreaks | | School Closures | |
|--|--------------------------|---------------------------|--------------------------|---------------------------|
| | Current Season 2012-2013 | Previous Season 2011-2012 | Current Season 2012-2013 | Previous Season 2011-2012 |
| Week 7 | 0 | 0 | 0 | 1 |
| Season-to-Date (Week 40-Week 7) | 3 | 5 | 14 | 5 |

Outbreaks/School Closures due to Influenza-like Illness: No school closures were reported for week 7 of the current season, no outbreaks were reported for week 7.

**Table 8. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County
Influenza-like Illness (ILI) for the Week Ending February 16, 2013 (Week 7)**

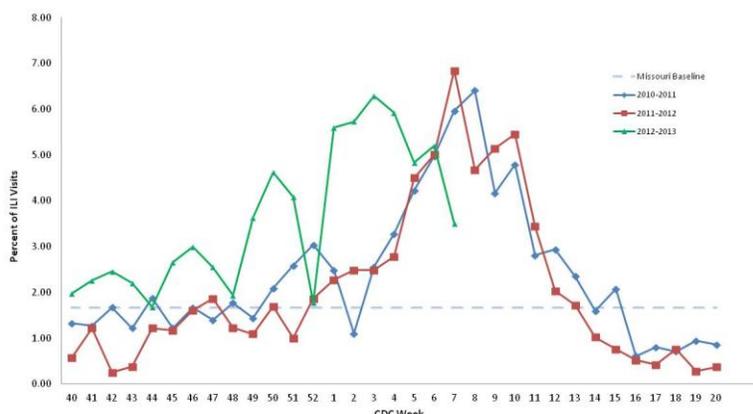
| Jurisdiction | Age 0-4 | Age 5-24 | Age 25-49 | Age 50-64 | Age 65+ | Total ILI Patients Seen | Total Patients Seen | Percent ILI |
|--------------------|-----------|-----------|-----------|-----------|----------|-------------------------|---------------------|-------------|
| Adair | 0 | 9 | 0 | 0 | 0 | 9 | 195 | 4.62 |
| Audrain | 2 | 1 | 0 | 0 | 0 | 3 | 218 | 1.38 |
| Boone | 0 | 14 | 3 | 0 | 0 | 17 | 782 | 2.17 |
| Callaway | | | | | | | | |
| Cape Girardeau | | | | | | | | |
| Clay | | | | | | | | |
| Cole | 20 | 17 | 14 | 6 | 4 | 61 | 599 | 10.18 |
| Gasconade | 3 | 2 | 3 | 2 | 0 | 10 | 303 | 3.3 |
| Greene | | | | | | | | |
| Iron | | | | | | | | |
| Jackson | 1 | 2 | 0 | 0 | 0 | 3 | 160 | 1.88 |
| Kansas City | | | | | | | | |
| Knox | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 0 |
| Marion | 0 | 0 | 0 | 0 | 1 | 1 | 100 | 1 |
| McDonald | 0 | 5 | 0 | 0 | 0 | 5 | 150 | 3.33 |
| Moniteau | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 0 |
| Nodaway | | | | | | | | |
| Pettis | | | | | | | | |
| Phelps | 0 | 2 | 0 | 0 | 0 | 2 | 338 | 0.59 |
| Putnam | 0 | 0 | 0 | 0 | 0 | 0 | 228 | 0 |
| Reynolds | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 0 |
| Saline | 2 | 8 | 3 | 1 | 1 | 15 | 203 | 7.39 |
| St. Clair | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 0 |
| State Total | 28 | 60 | 23 | 9 | 6 | 126 | 3599 | 3.50 |

*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 above the national baseline of 2.2%.

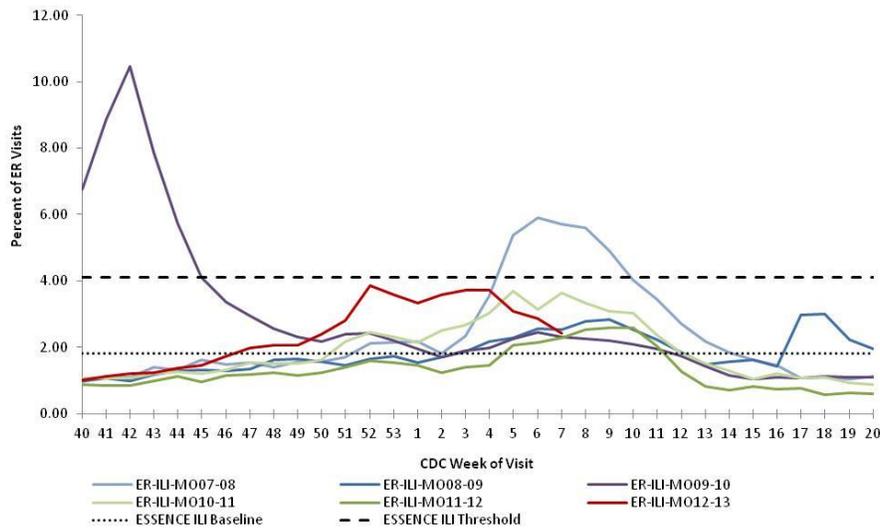
Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2012-2013 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending February 16, 2013 (Week 7)



ILINet baseline refers to the mean of the values during previous three influenza seasons (week 40-20, 2006-2009, 2010-11 and 2011-12) with low influenza activity.

The proportion of patient visits for influenza-like illness decreased to 3.50% for week ending February 16, 2013 (week 7). This is above Missouri’s baseline of 1.66%.

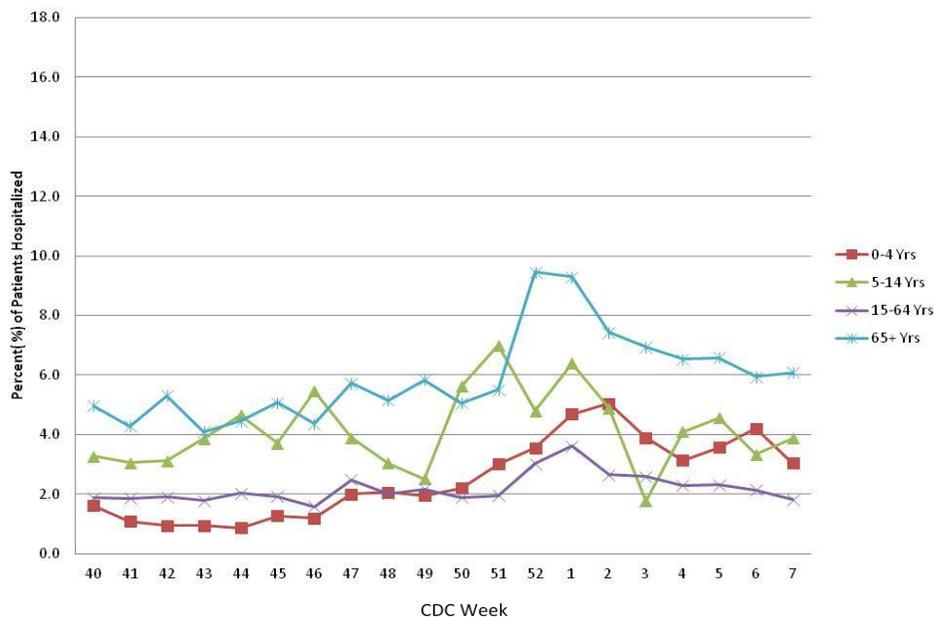
Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2007-2013 Influenza Seasons Through the Week Ending February 16, 2013 (Week 7)



*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.

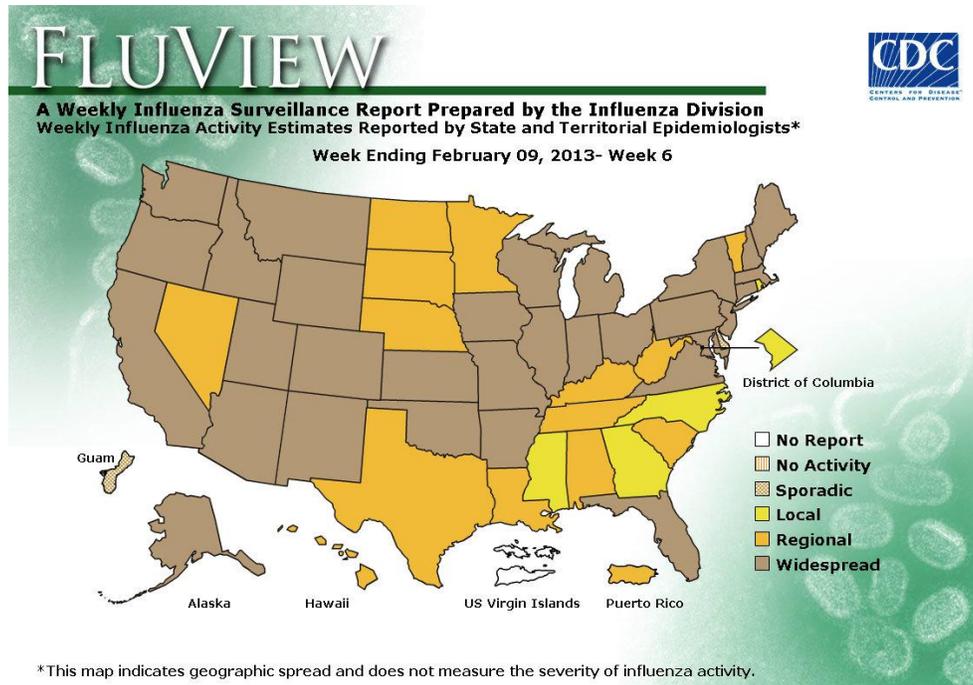
*ESSENCE ILI Threshold refers to the mean plus 3 standard deviations of the values during previous influenza seasons (weeks 40-20, 2006-07, 2008-09 and 2010-2011) when influenza activity was low.

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 February 16, 2013 (Week 7)



*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 5-14 year age group increased to 4.20% and the 65 and older increased to 4.20%. The 0-4 year age group decreased to 3.04% and the 15-64 year decreased to 1.81%.



For the week ending February 16, 2013 (Week 7), Missouri reported **Regional** Influenza Activity to the CDC. 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.

For the week ending February 9, 2013 (week 6), Flu View reported 31 states with widespread activity, 14 states reported regional influenza activity, four states reported local influenza activity, and one state reported sporadic influenza activity. 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 codes are reported to CDC each Tuesday. The current U.S. influenza weekly report (FluView) may be found at <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>.

Antiviral Resistance: For more information on antiviral medications, please see <http://www.cdc.gov/flu/professionals/antivirals/index.htm>.

International Influenza Activity: The CDC compiles information from several sources and releases an international influenza summary. This report can be found at <http://www.cdc.gov/flu/international/activity.htm>.

Information regarding Infection Control of Influenza: Information on the control of influenza in various health care settings may be found on the CDC website at <http://www.cdc.gov/flu/professionals/infectioncontrol/>

Contact Us

The Missouri Department of Health and Senior Services after hours number for reporting disease cases and emergencies is **1-800-392-0272**.

Data Sources: Laboratory-confirmed cases of influenza are reported to DHSS through the passive communicable disease surveillance system. Laboratory-confirmed testing methods include: PCR, Culture, and Rapid methodology. Suspected influenza clusters and outbreaks are reported through the active surveillance system. Pneumonia and influenza deaths are reported through the DHSS Bureau of Vital Records. Influenza-like illness data by age category and total number of patient visits by week are reported voluntarily by participants in the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet).