



# Missouri Weekly Influenza Report 2010-2011 Season<sup>1</sup>

Missouri is reporting “Sporadic Activity” to the CDC for Week 16<sup>2</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](#).

Table 1. Reported Laboratory cases by sub-type for the Week ending April 23, 2011 (Week 16)

| Serogroups | A (non-typed) | A (H1) | A (H1N1) | A (H3) | B  | A or B Untyped (rapid test) | Total |
|------------|---------------|--------|----------|--------|----|-----------------------------|-------|
| Week 16    | 28            | 0      | 0        | 0      | 26 | 0                           | 54    |

No specimens were received by the State Public Health Laboratory for viral testing during week 16.

Table 2. Influenza Season-to-Date and 5-season Median by Influenza Type Through Week Ending April 23, 2011 (Week 16)

| Influenza Type               | 2010-2011 Season | 5-Season Median | % Change from 5-Season Median |
|------------------------------|------------------|-----------------|-------------------------------|
| Influenza A                  | 10,484           | 9,104           | 15.2%                         |
| Influenza B                  | 6,271            | 2,193           | 186.0%                        |
| Influenza Unknown Or Untyped | 801              | 2,829           | ( 71.7%)                      |
| Total                        | 17,556           | 14,765          | 18.9%                         |

Table 3. Influenza Season-to-Date and 5-season Median by Age Group Through Week Ending April 23, 2011 (Week 16)

| Age Group | 2010-2011 Season | 5-Season Median | % Change from 5-Season Median |
|-----------|------------------|-----------------|-------------------------------|
| 00-<02    | 1,572            | 1,695           | ( 7.3%)                       |
| 02-04     | 2,464            | 2,495           | ( 1.2%)                       |
| 05-14     | 5,570            | 6,439           | ( 13.5%)                      |
| 15-24     | 2,640            | 2,106           | 25.4%                         |
| 25-49     | 3,483            | 2,181           | 59.7%                         |
| 50-64     | 1,010            | 924             | 9.3%                          |
| 65+       | 817              | 351             | 132.8%                        |
| Total     | 17,556           | 14,765          | 18.9%                         |

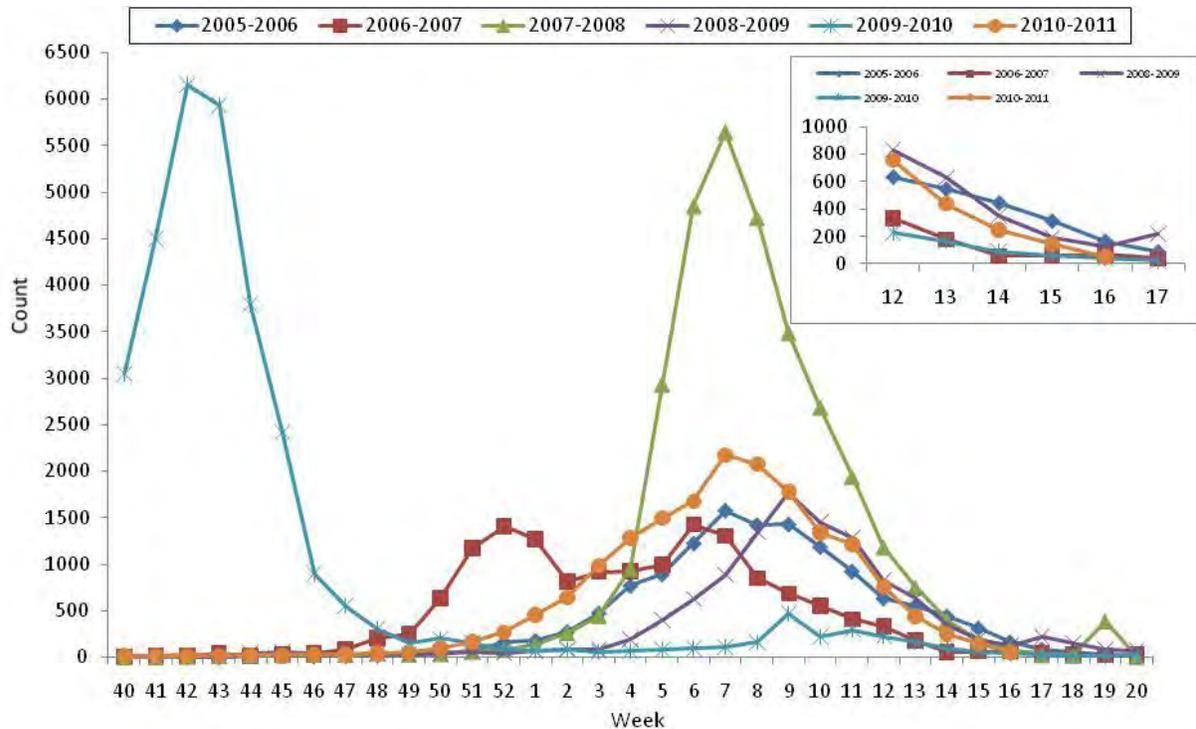
Table 4. Influenza Season-to-Date and 5-season Median by District Through Week Ending April 23, 2011 (Week 16)

| District | 2010-2011 Season | 5-Season Median | % Change from 5-Season Median |
|----------|------------------|-----------------|-------------------------------|
| CE       | 1,785            | 1,867           | ( 4.4%)                       |
| EA       | 4,829            | 4,425           | 9.1%                          |
| NW       | 4,444            | 4,005           | 11.0%                         |
| SE       | 2,757            | 1,786           | 54.4%                         |
| SW       | 3,741            | 3,605           | 3.8%                          |
| Total    | 17,556           | 14,765          | 18.9%                         |

**Table 5. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending April 16, 2011 (Week 15)**

| Week 15 | Season-to-Date 2010-2011 | Season-to-Date 2009-2010 | Week 15 Last Season | 5 Year Weekly Median |
|---------|--------------------------|--------------------------|---------------------|----------------------|
| 72      | 2,603                    | 1,807                    | 61                  | 106                  |

**Graph 1. Reported Influenza Cases 2010-2011 Season-To-Date as compared to the previous Five Influenza Seasons Through the Week Ending April 23, 2011 (Week 16)**



The number of reported influenza cases for week 16 of the 2010-2011 season is following historical trends. The 2007-2008 season has higher case counts due to the mismatch of the vaccine and the circulating influenza strain.

**Table 6: Outbreaks/Closures Due to Influenza-like Illness**

|                                  | Outbreaks                |                           | Closures                 |                           |
|----------------------------------|--------------------------|---------------------------|--------------------------|---------------------------|
|                                  | Current Season 2010-2011 | Previous Season 2009-2010 | Current Season 2010-2011 | Previous Season 2009-2010 |
| Week 16                          | 0                        | 0                         | 0                        | 0                         |
| Season-to-date (Week 40-Week 16) | 5                        | 14                        | 0                        | 58                        |

**Table 7. U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) by County  
Influenza-like Illness (ILI) for the Week Ending April 23, 2011 (Week 16)**

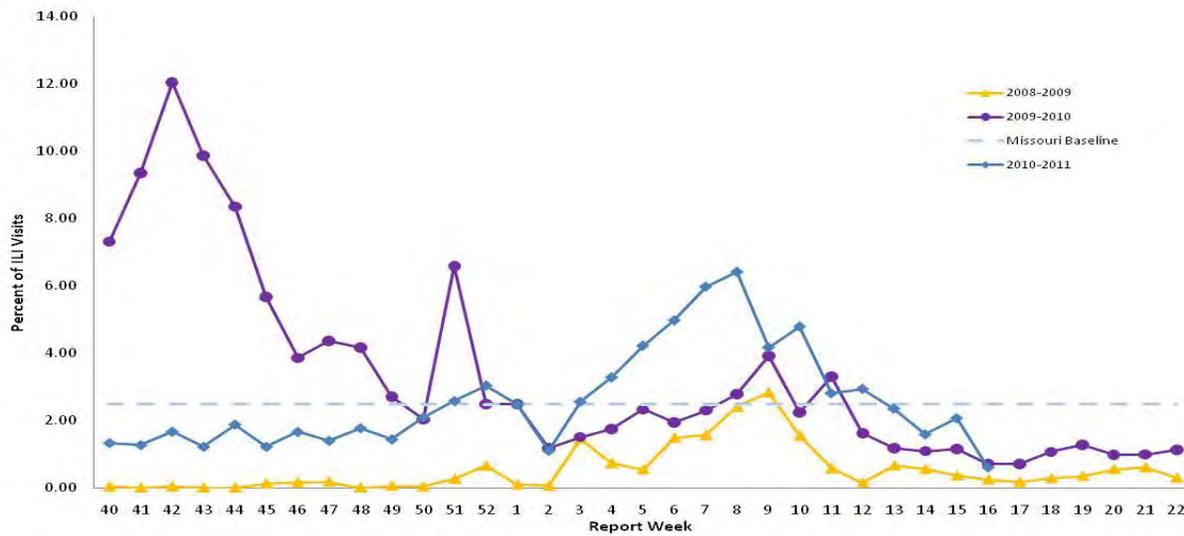
| Jurisdiction   | Age<br>0-4 | Age<br>5-24 | Age<br>25-49 | Age<br>50-64 | Age<br>65+ | Total ILI<br>Patients<br>Seen | Total<br>Patients<br>Seen | Percent<br>ILI |
|----------------|------------|-------------|--------------|--------------|------------|-------------------------------|---------------------------|----------------|
| Adair          |            |             |              |              |            |                               |                           |                |
| Audrain        |            |             |              |              |            |                               |                           |                |
| Boone          | 0          | 0           | 0            | 0            | 0          | 0                             | 557                       | 0              |
| Buchanan       |            |             |              |              |            |                               |                           |                |
| Butler         |            |             |              |              |            |                               |                           |                |
| Callaway       |            |             |              |              |            |                               |                           |                |
| Cape Girardeau |            |             |              |              |            |                               |                           |                |
| Clay           | 0          | 0           | 0            | 0            | 0          | 0                             | 164                       | 0              |
| Cole           | 3          | 4           | 2            | 0            | 2          | 11                            | 612                       | 1.8            |
| Greene         |            |             |              |              |            |                               |                           |                |
| Howell         |            |             |              |              |            |                               |                           |                |
| Iron           |            |             |              |              |            |                               |                           |                |
| Jackson        | 2          | 1           | 0            | 0            | 0          | 3                             | 196                       | 1.53           |
| Kansas City    |            |             |              |              |            |                               |                           |                |
| Knox           |            |             |              |              |            |                               |                           |                |
| Lawrence       |            |             |              |              |            |                               |                           |                |
| Marion         | 0          | 0           | 0            | 0            | 0          | 0                             | 106                       | 0              |
| McDonald       | 0          | 0           | 0            | 0            | 0          | 0                             | 356                       | 0              |
| Moniteau       | 0          | 0           | 0            | 0            | 0          | 0                             | 101                       | 0              |
| Nodaway        |            |             |              |              |            |                               |                           |                |
| Pettis         |            |             |              |              |            |                               |                           |                |
| Phelps         |            |             |              |              |            |                               |                           |                |
| Putnam         | 0          | 0           | 0            | 0            | 0          | 0                             | 91                        | 0              |
| Reynolds       | 0          | 0           | 0            | 0            | 0          | 0                             | 50                        | 0              |
| Saline         |            |             |              |              |            |                               |                           |                |
| St. Clair      | 0          | 0           | 0            | 0            | 0          | 0                             | 72                        | 0              |
| State Total    | 5          | 5           | 2            | 0            | 2          | 14                            | 2,305                     | 0.61           |

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

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

\*\*\*This is **below** the national baseline of 2.5%.

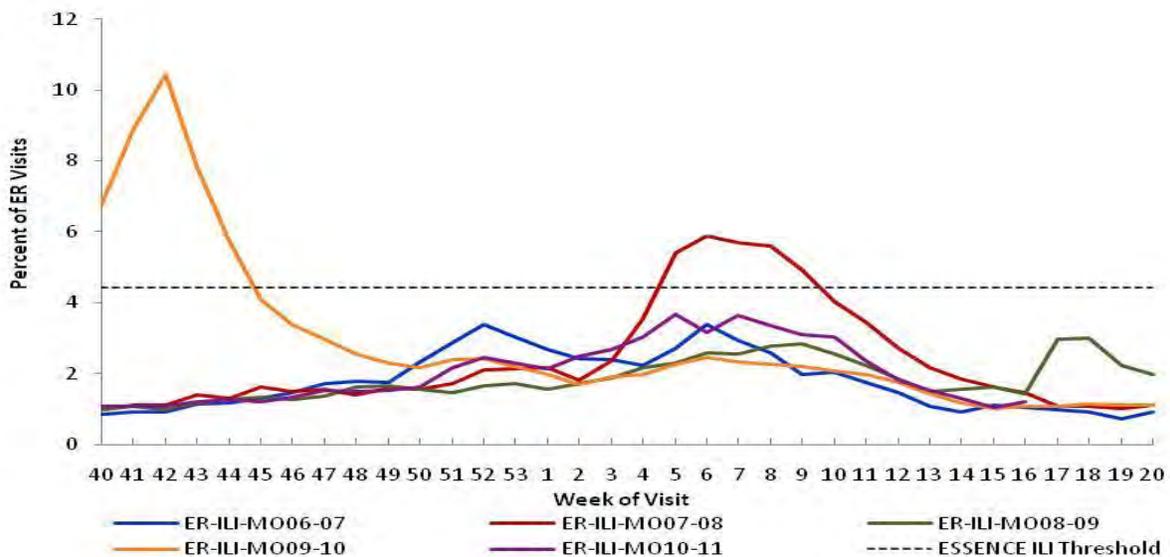
**Graph 2. Percentage of Visits for Influenza-like-Illness (ILI) Reported by the Missouri Outpatient ILI Surveillance Network (ILINet) 2010-2011 Season-To-Date as compared to the previous Two Influenza Seasons Through the Week Ending April 23, 2011 (Week 16)**



ILINet baseline refers to the mean plus two standard deviations of the values during previous influenza seasons (week 40-20).

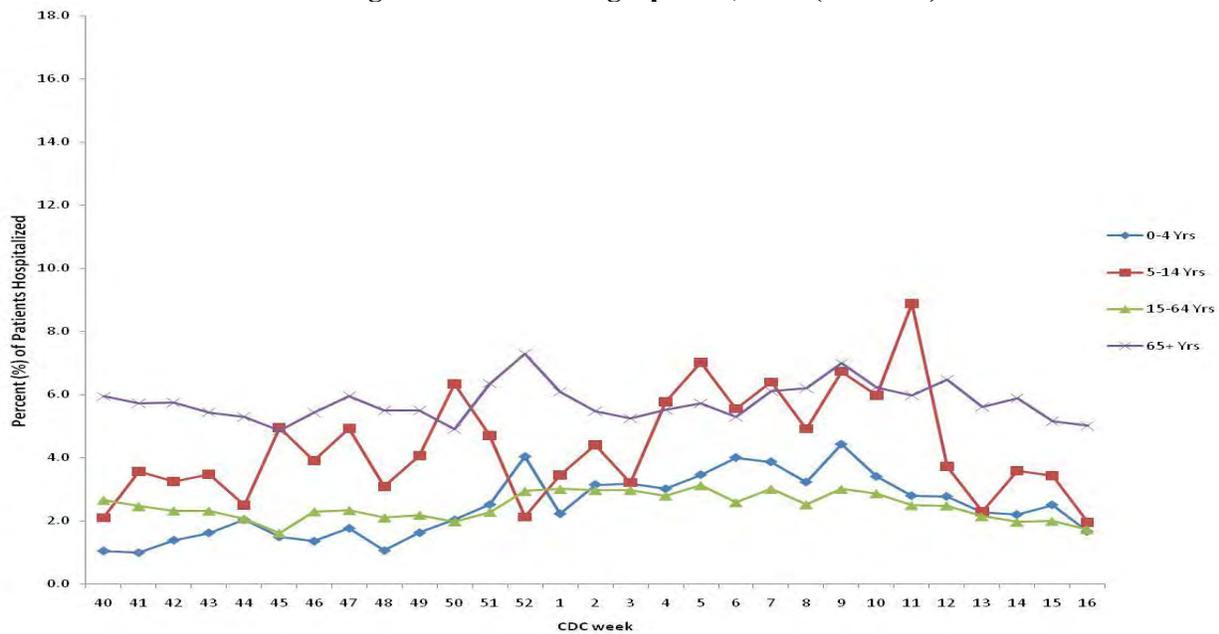
The proportion of patient visits for influenza-like illness has decreased from 2.07% for week 15 to 0.61% for the week ending April 23, 2011 (week 16), as reported by ILINet in Missouri. This is below Missouri’s baseline of 2.47%.

**Graph 3. Weekly Percentage of Influenza-like Illness Chief Complaints in ESSENCE Participating Hospitals 2006-2011 Influenza Seasons Through the Week Ending April 23, 2011 (Week 16)**

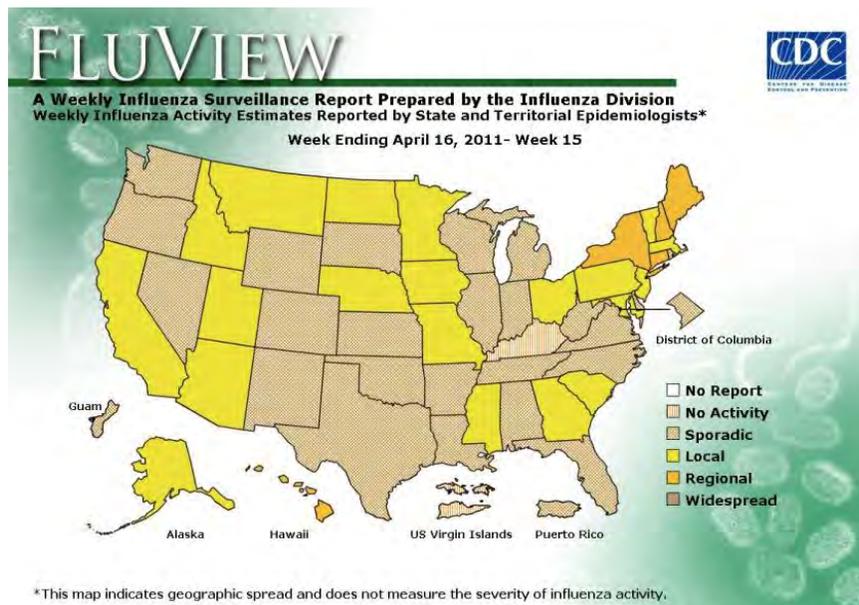


\*ESSENCE ILI Threshold refers to the mean plus 2 standard deviations of the values during previous influenza seasons (week 40-20, 2006-2007) when influenza activity was low.

**Graph 4. Percentage of Patients Hospitalized for Influenza and/or Pneumonia Syndromes By Age Group from 81 Participating Missouri Hospitals Through the Week Ending April 23, 2011 (Week 16)**



All age groups have decreased in Week 16.



For the week ending April 23, 2011 (Week 16), Missouri reported **Sporadic** activity to the CDC. Sporadic activity is defined as no increase in influenza-like illness activity, and isolated lab confirmed cases of influenza or a lab confirmed outbreak in a single institution in the state.

For the week ending April 16, 2011 (Week 15), Flu View reported no states with widespread influenza activity; five states reported regional influenza activity; twenty states reported local influenza activity; twenty four states reported sporadic influenza activity and one state reported no 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.

### **Contact Us**

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

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<sup>1</sup>*All data in this report are provisional and may change as reports are updated.*

<sup>2</sup>*Influenza activity codes are reported to CDC each Tuesday.*

**Data Sources:** Laboratory-confirmed cases are reported to DHSS through the passive communicable disease surveillance system. 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).