Missouri Weekly Influenza Surveillance Report
2021-2022 Influenza Season¹

Week 6: February 6, 2022 – February 12, 2022

All data are preliminary and may change as more reports are received.

Summary:

- The estimated influenza activity in Missouri is Regional².

- During Week 6, a total of 840 laboratory-positive³ influenza cases (744 influenza A, 66 influenza B and 30 untyped) were reported. A season-to-date total of 20,886 laboratory-positive influenza cases (18,596 influenza A, 2,104 influenza B, and 186 untyped) have been reported in Missouri as of Week 6. The influenza type for reported season-to-date cases includes 89% influenza A, 10.1% influenza B, and 0.9% untyped. The percentage of respiratory specimens testing positive for influenza in Missouri laboratories reporting to the National Respiratory and Enteric Virus Surveillance System (NREVSS) increased to 3.64% during Week 6, with the most common subtype being A(H3N2) (Figure 5).

- Influenza-like illness (ILI) activity for Week 6 was below baseline for the hospital emergency room visit chief complaint data reported through ESSENCE. The reported percentage of visits for ILI through ESSENCE was 1.87% (Figure 6)⁴.

- Fifteen influenza-associated deaths have been reported in Missouri as of Week 6.⁵

- Four influenza or ILI-associated outbreaks have been reported in Missouri as of Week 6.

- National influenza surveillance information is prepared by CDC and is included in the weekly FluView report, which is available online at http://www.cdc.gov/flu/weekly/fluactivitysurv.htm.

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¹The 2021-2022 influenza season begins CDC Week 40 (week ending October 9, 2021) and ends CDC Week 39 (week ending October 1, 2022).

²Regional is defined as: Increased ILI in two regions and elevated numbers of laboratory-confirmed influenza in those regions.

³Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

⁴ILI is defined by ESSENCE as Emergency Department chief complaints for Influenza or (FeverPlus and (Cough or SoreThroat) and not NonILIfevers).

⁵All influenza-associated deaths became reportable in Missouri in 2016.
Surveillance Data:

Interactive Maps

The jurisdiction-specific influenza data are provided through interactive maps available at [https://arcg.is/G5LWv](https://arcg.is/G5LWv).

Click on the jurisdiction to view the influenza data specific to that jurisdiction.

- Reported Laboratory-positive Influenza Cases by Influenza Type by Jurisdiction, CDC Week 6
- Reported Week-specific Rate per 100,000 Population, CDC Week 6
- Reported Laboratory-positive Influenza Cases by Influenza Type by Jurisdiction, Season-to-Date
- Reported Rate per 100,000 Population, Season-to-Date

Data Figures

Figure 1. Number of Laboratory-positive\(^\dagger\) Influenza Cases by Influenza Type, Missouri, CDC Weeks 4-6 (January 23, 2021 – February 12, 2022)\(^\dagger\)

<table>
<thead>
<tr>
<th>Influenza Type</th>
<th>Week 4</th>
<th>Week 5</th>
<th>Week 6</th>
<th>2021-2022* Season-to-Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza A</td>
<td>1,209</td>
<td>1,076</td>
<td>744</td>
<td>18,569</td>
</tr>
<tr>
<td>Influenza B</td>
<td>168</td>
<td>98</td>
<td>66</td>
<td>2,104</td>
</tr>
<tr>
<td>Influenza Unknown Or Untyped</td>
<td>16</td>
<td>23</td>
<td>30</td>
<td>186</td>
</tr>
<tr>
<td>Total</td>
<td>1,393</td>
<td>1,197</td>
<td>840</td>
<td>20,886</td>
</tr>
</tbody>
</table>

\(^\dagger\) Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

\(^\dagger\) Influenza season begins with the week ending October 9, 2021 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv).

Figure 2. Number of Laboratory-positive\(^\dagger\) Influenza Cases and Case Rates by Age Group, Missouri, CDC Week 6 (February 6, 2022 – February 12, 2022)\(^\dagger\)

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Week 6 Cases</th>
<th>Week 6 Rate(^\dagger)</th>
<th>2021-22* Season-to-Date</th>
<th>2021-2022* Season-to-Date Rate(^\dagger)</th>
</tr>
</thead>
<tbody>
<tr>
<td>00-04</td>
<td>147</td>
<td>39.94</td>
<td>2,990</td>
<td>812.32</td>
</tr>
<tr>
<td>05-24</td>
<td>421</td>
<td>26.92</td>
<td>10,637</td>
<td>680.11</td>
</tr>
<tr>
<td>25-49</td>
<td>139</td>
<td>7.15</td>
<td>3,960</td>
<td>203.80</td>
</tr>
<tr>
<td>50-64</td>
<td>65</td>
<td>5.42</td>
<td>1,750</td>
<td>145.81</td>
</tr>
<tr>
<td>65+</td>
<td>68</td>
<td>6.40</td>
<td>1,549</td>
<td>145.85</td>
</tr>
<tr>
<td>Total</td>
<td>840</td>
<td>13.69</td>
<td>20,886</td>
<td>340.31</td>
</tr>
</tbody>
</table>

\(^\dagger\) Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

\(^\dagger\) Influenza season begins week ending October 3, 2020 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv)

\(^\dagger\) Incidence Rate per 100,000 population
Figure 3. Number of Laboratory-positive\(^{†}\) Influenza Cases and Case Rates by Region, Missouri, CDC Week 6 (February 6, 2022 – February 12, 2022)\(^{‡}\)

<table>
<thead>
<tr>
<th>Region</th>
<th>Week 6 Cases</th>
<th>Week 6 Rate(^{‡})</th>
<th>2021-22* Season-to-Date</th>
<th>2021-22* Season-to-Date Rate(^{‡})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central</td>
<td>57</td>
<td>8.45</td>
<td>2,651</td>
<td>392.85</td>
</tr>
<tr>
<td>Eastern</td>
<td>187</td>
<td>8.25</td>
<td>6,625</td>
<td>292.13</td>
</tr>
<tr>
<td>Northwest</td>
<td>172</td>
<td>10.51</td>
<td>4,749</td>
<td>290.15</td>
</tr>
<tr>
<td>Southeast</td>
<td>94</td>
<td>21.74</td>
<td>2,410</td>
<td>557.31</td>
</tr>
<tr>
<td>Southwest</td>
<td>330</td>
<td>31.41</td>
<td>4,451</td>
<td>423.65</td>
</tr>
<tr>
<td>Total</td>
<td>840</td>
<td>13.69</td>
<td>20,886</td>
<td>340.31</td>
</tr>
</tbody>
</table>

\(^{†}\)Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

\(^{‡}\)Influenza season begins week ending October 3, 2020 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv)

\(^{‡}\)Incidence Rate per 100,000 population

Figure 4. Number of Laboratory-positive\(^{†}\) Influenza Cases by CDC Week, Missouri, 2018-2022\(^{‡}\)

\(^{†}\)Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

\(^{‡}\)2021-2022 season-to-date through the week ending May 21, 2022 (Week 20). Data Source: Missouri Health Information Surveillance System (WebSurv)
Figure 5. Season-to-Date PCR (+) Tests for Influenza in Missouri

![Graph showing season-to-date PCR (+) tests for Influenza in Missouri.]

Data Source: National Respiratory and Enteric Virus Surveillance System (NREVSS), Centers for Disease Control and Prevention (CDC). 2021-2022 season-to-date through the week ending February 12, 2022 (Week 6).

Figure 6. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, 2018-2022 Influenza Seasons

![Graph showing percentage of ED visits for ILI in ESSENCE hospitals.]

*The ESSENCE ILI Baseline is the mean percent of ILI visits for each week during the previous three flu seasons when percentage of ILI visits were less than 2% of total visits, plus two standard deviations. Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.*
Figure 7. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, by Age Group, Region and Statewide, Week 6, 2021*

Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.

*The ILI data from a small number of sites located in the Northwest Region of the state is temporarily unavailable in ESSENCE. Therefore, the ILI data for the Northwest Region should be interpreted with caution.

Figure 8. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, by Region and Statewide, 2021-2022 Influenza Season*

Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.

*The ILI data from a small number of sites located in the Northwest Region of the state is temporarily unavailable in ESSENCE. Therefore, the ILI data for the Northwest Region should be interpreted with caution.
Figure 9. Weekly Rate of Patients Hospitalized with Influenza and/or Pneumonia Syndromes in Missouri Hospitals, 2018-2022 Influenza Seasons

Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, HL7 Messaging Portal. Population data from Missouri Census Data Center 2017 (https://census.missouri.edu).

Figure 10. Number of Patients Hospitalized with Influenza and/or Pneumonia Syndromes in Participating Missouri Hospitals, by Age Group, Week 6, 2021-2022 Influenza Season

Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, HL7 Messaging Portal.
Additional Influenza Data Sources:

Centers for Disease Control and Prevention: National Influenza Surveillance (FluView):
http://www.cdc.gov/flu/weekly/fluactivitysurv.htm

The National Respiratory and Enteric Virus Surveillance System (NREVSS):
https://www.cdc.gov/surveillance/nrevss/

World Health Organization: International Influenza Surveillance:
http://www.who.int/influenza/surveillance_monitoring/en/