



# Missouri Weekly Influenza Surveillance Report 2021-2022 Influenza Season<sup>1</sup>

## Week 18: May 1, 2022 – May 7, 2022

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

### Summary:

- The estimated influenza activity in Missouri is Local<sup>2</sup>.
- During Week 18, a total of 649 laboratory-positive<sup>3</sup> influenza cases (621 influenza A, 27 influenza B and 1 untyped) were reported. A season-to-date total of 41,979 laboratory-positive influenza cases (38,682 influenza A, 3,039 influenza B, and 258 untyped) have been reported in Missouri as of Week 18. The influenza type for reported season-to-date cases includes 92.2% influenza A, 7.2% influenza B, and 0.6% untyped. The percentage of respiratory specimens testing positive for influenza in Missouri laboratories reporting to the National Respiratory and Enteric Virus Surveillance System (NREVSS) decreased to 1.0% during Week 18, with the most common subtype being A(H3N2) (Figure 5).
- Influenza-like illness (ILI) activity for Week 18 was at baseline for the hospital emergency room visit chief complaint data reported through ESSENCE. The reported percentage of visits for ILI through ESSENCE was 1.70% (Figure 6).<sup>4</sup>
- Twenty-six influenza-associated deaths have been reported in Missouri as of Week 18.<sup>5</sup>
- Eight influenza or ILI-associated outbreaks have been reported in Missouri as of Week 18.
- 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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<sup>1</sup>The 2021- 2022 influenza season begins CDC Week 40 (week ending October 9, 2021) and ends CDC Week 39 (week ending October 1, 2022).

<sup>2</sup>Local: Increased ILI in one region and elevated numbers of laboratory-confirmed influenza cases in that region.

<sup>3</sup>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.

<sup>4</sup>ILI is defined by ESSENCE as Emergency Department chief complaints for Influenza or (FeverPlus and (Cough or SoreThroat) and not NonILIFevers).

<sup>5</sup>All 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>.

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 18
- Reported Week-specific Rate per 100,000 Population, CDC Week 18
- 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<sup>†</sup> Influenza Cases by Influenza Type, Missouri, CDC Weeks 16-18 (April 17, 2021 – May 7, 2022)\***

Influenza Type	Week 16	Week 17	Week 18	2021-2022* Season-to-Date
Influenza A	1,303	1,041	621	38,682
Influenza B	62	56	27	3,039
Influenza Unknown Or Untyped	2	5	1	258
<b>Total</b>	<b>1,367</b>	<b>1,102</b>	<b>649</b>	<b>41,979</b>

<sup>†</sup>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 with the week ending October 9, 2021 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv).

**Figure 2. Number of Laboratory-positive<sup>†</sup> Influenza Cases and Case Rates by Age Group, Missouri, CDC Week 18 (May 1, 2022 – May 7, 2022)\*\***

Age Group	Week 18 Cases	Week 18 Rate <sup>‡</sup>	2021-22* Season-to-Date	2021-2022* Season-to-Date Rate <sup>‡</sup>
00-04	130	35.32	6,621	1,798.79
05-24	314	20.08	21,336	1,364.19
25-49	120	6.18	7,623	392.31
50-64	40	3.33	3,206	267.12
65+	45	4.24	3,193	300.65
<b>Total</b>	<b>649</b>	<b>10.57</b>	<b>41,979</b>	<b>683.98</b>

<sup>†</sup>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)

<sup>‡</sup>Incidence Rate per 100,000 population

**Figure 3. Number of Laboratory-positive<sup>†</sup> Influenza Cases and Case Rates by Region, Missouri, CDC Week 18 (April 24, 2022 – April 30, 2022)<sup>\*\*</sup>**

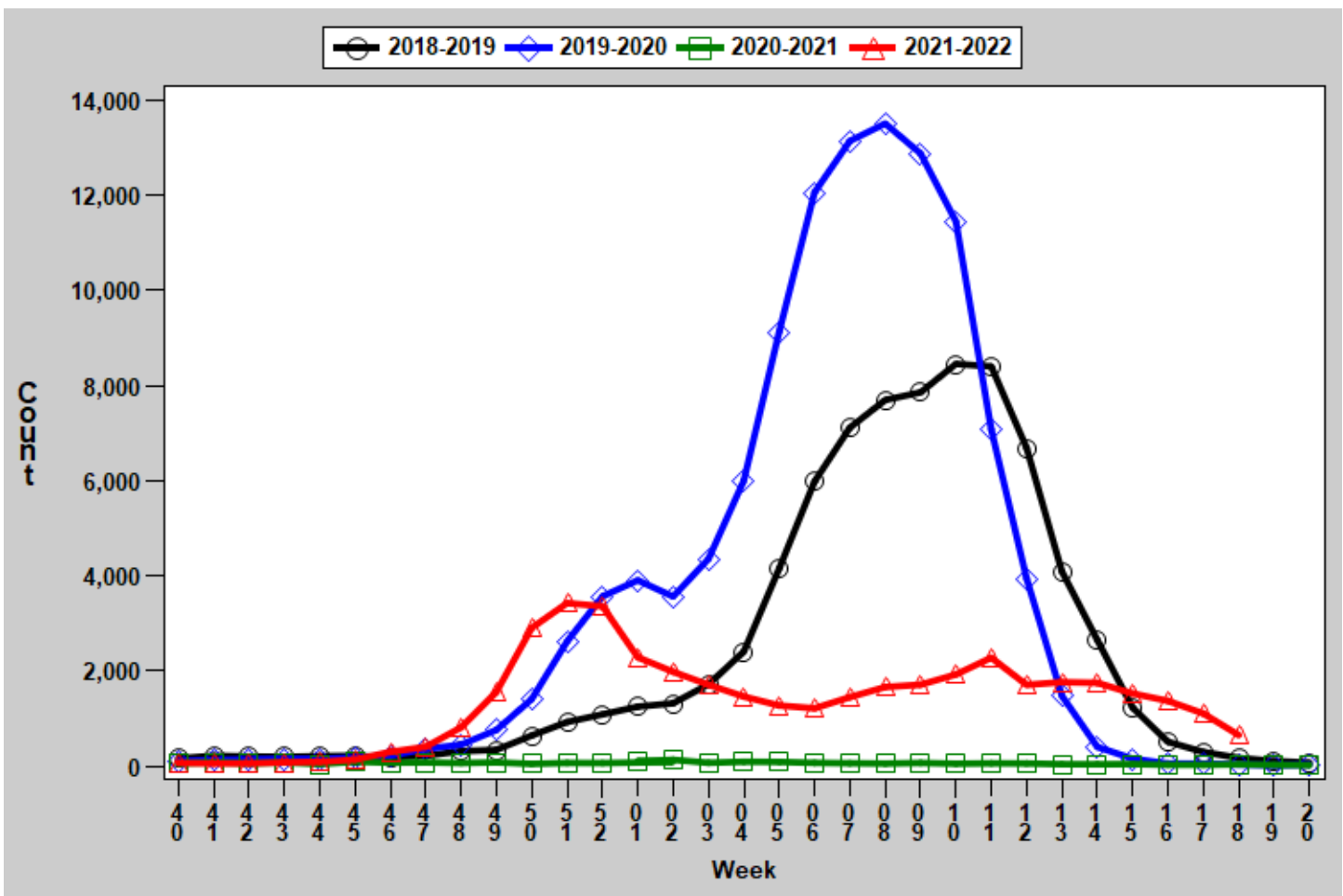
Region	Week 18 Cases	Week 18 Rate <sup>‡</sup>	2021-22* Season-to-Date	2021-22* Season-to-Date Rate <sup>‡</sup>
Central	47	6.96	4,424	655.58
Eastern	365	16.09	12,500	551.20
Northwest	135	8.25	10,860	663.51
Southeast	58	13.41	4,848	1,121.09
Southwest	44	4.19	9,347	889.66
<b>Total</b>	<b>649</b>	<b>10.57</b>	<b>41,979</b>	<b>683.98</b>

<sup>†</sup>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.

<sup>\*\*</sup>Influenza season begins week ending October 3, 2020 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv)

<sup>‡</sup>Incidence Rate per 100,000 population

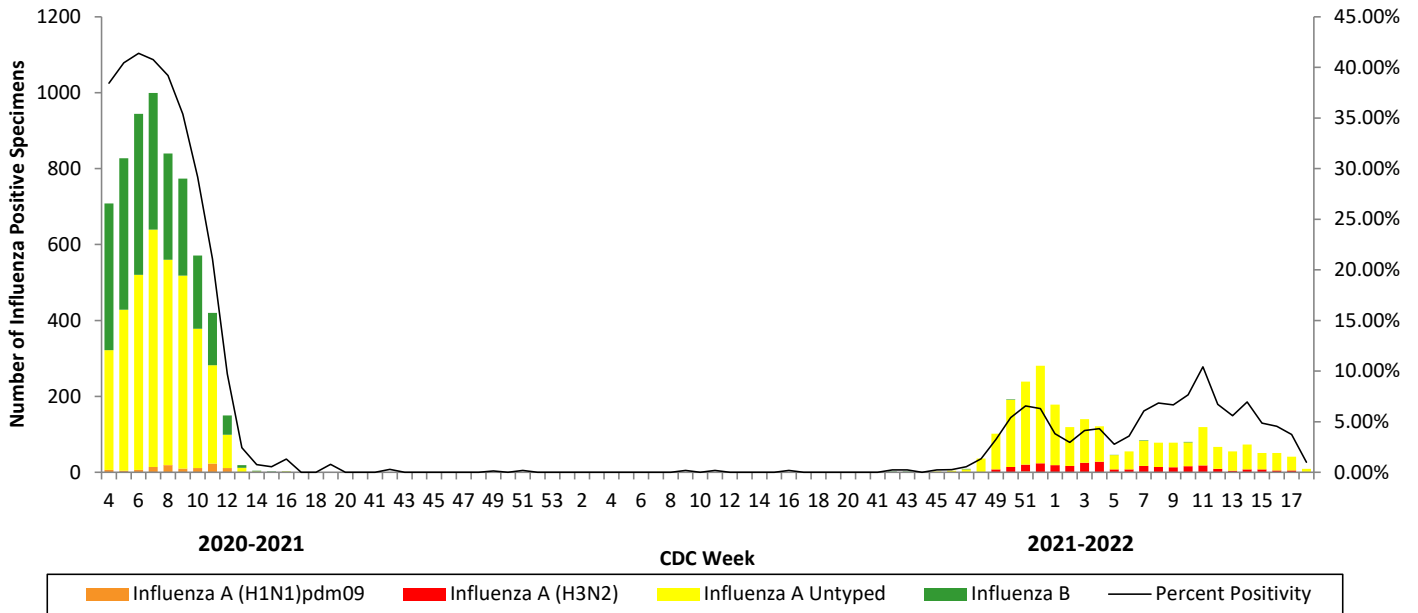
**Figure 4. Number of Laboratory-positive<sup>†</sup> Influenza Cases by CDC Week, Missouri, 2018-2022<sup>\*</sup>**



<sup>†</sup>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.

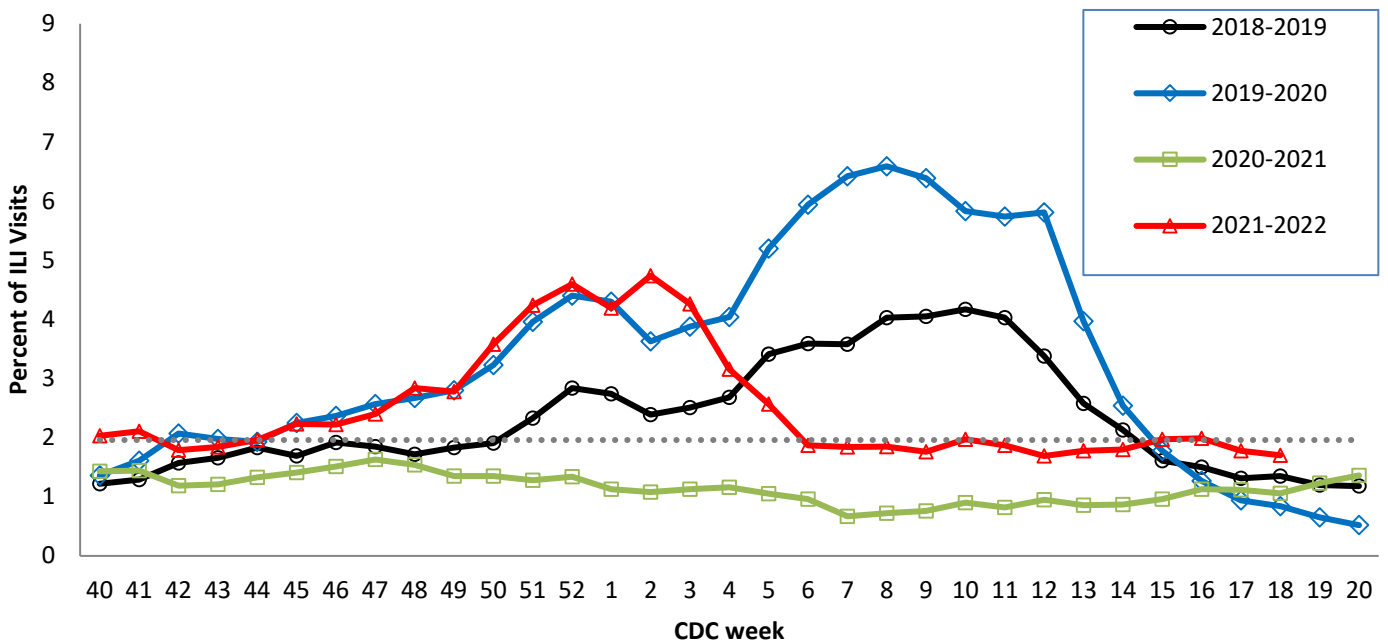
<sup>\*</sup>2021-2022 season-to-date through the week ending May 21, 2022 (Week 20).Data Source: Missouri Health Information Surveillance System (WebSurv)

**Figure 5. Season-to-Date PCR (+) Tests for Influenza in Missouri**



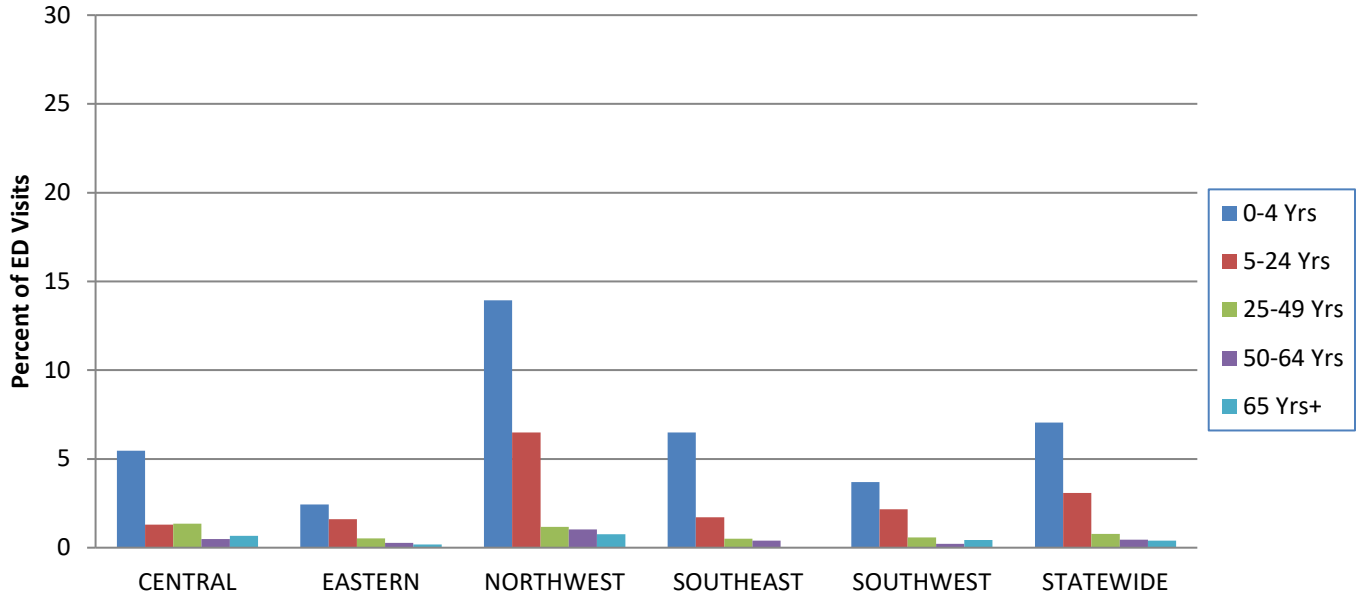
Data Source: National Respiratory and Enteric Virus Surveillance System (NREVSS), Centers for Disease Control and Prevention (CDC). 2021-2022 season-to-date through the week ending May 7, 2022 (Week 18).

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



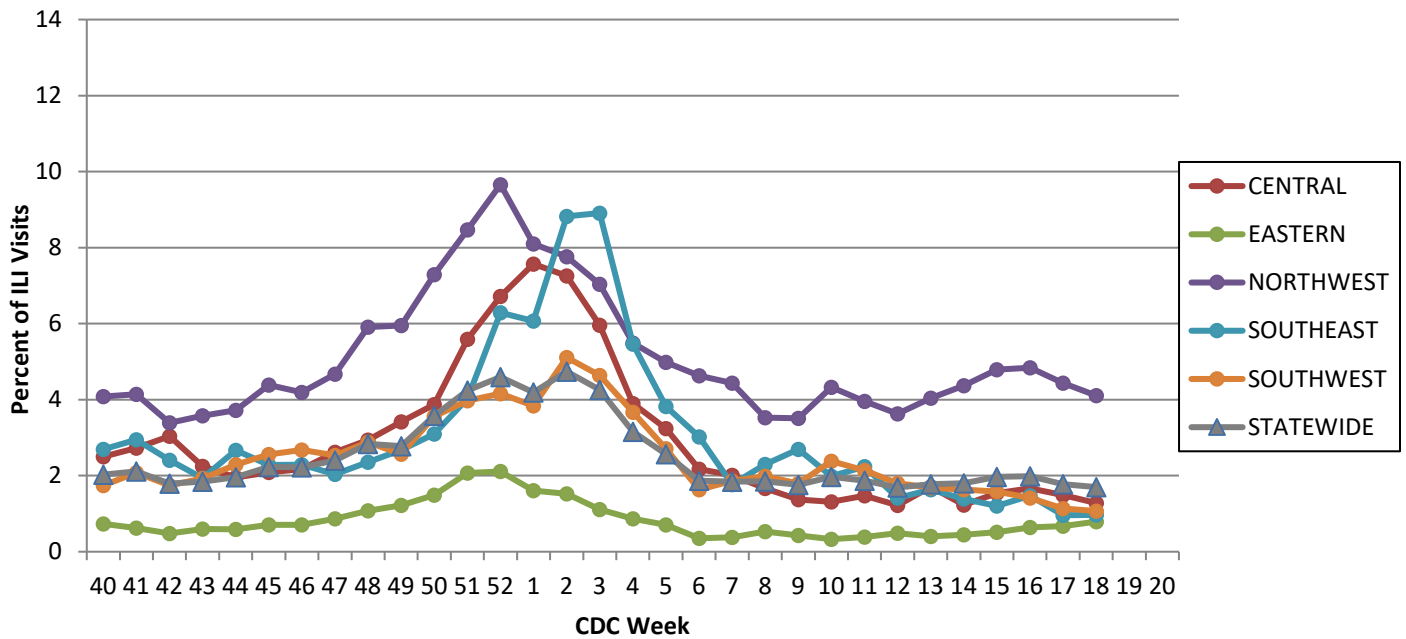
\*\*The ESSENCE ILI Baseline is the mean percent of ILI visits for each week during the previous three flu seasons when percentage of ILI visits were less than 2% of total visits, plus two standard deviations. Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable 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 18, 2021\***



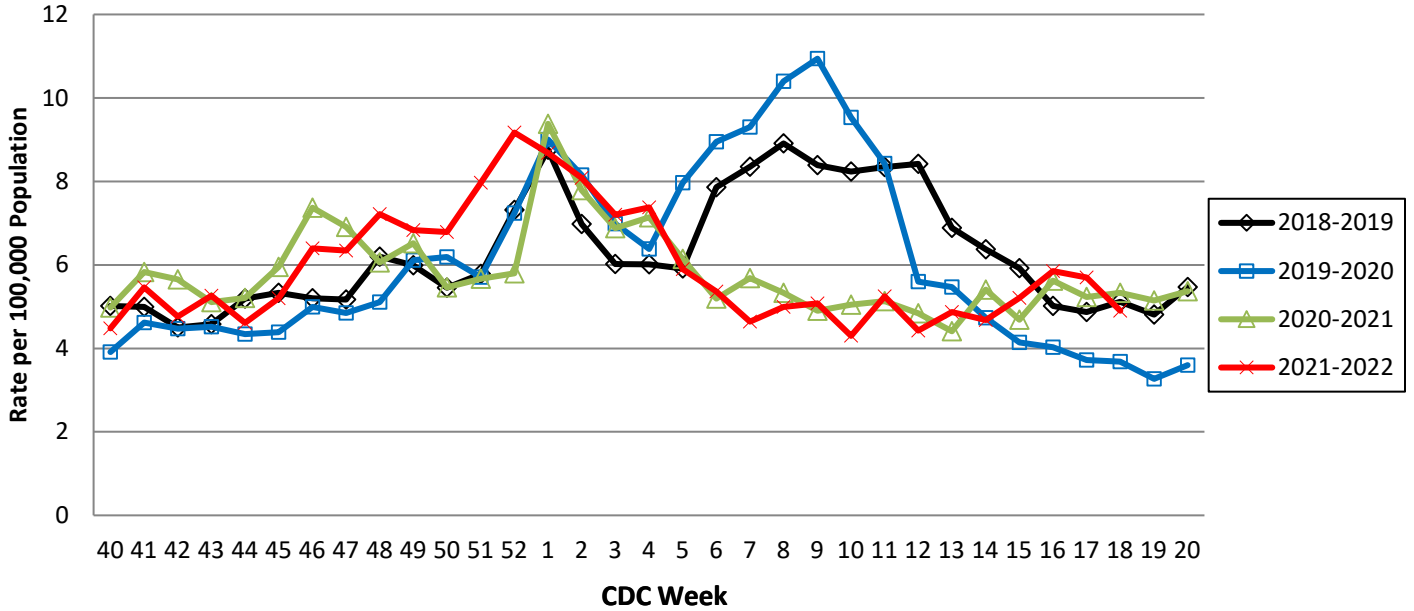
Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.  
 \*The ILI data from a small number of sites located in the Northwest Region of the state is temporarily unavailable in ESSENCE. Therefore, the ILI data for the Northwest 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\***



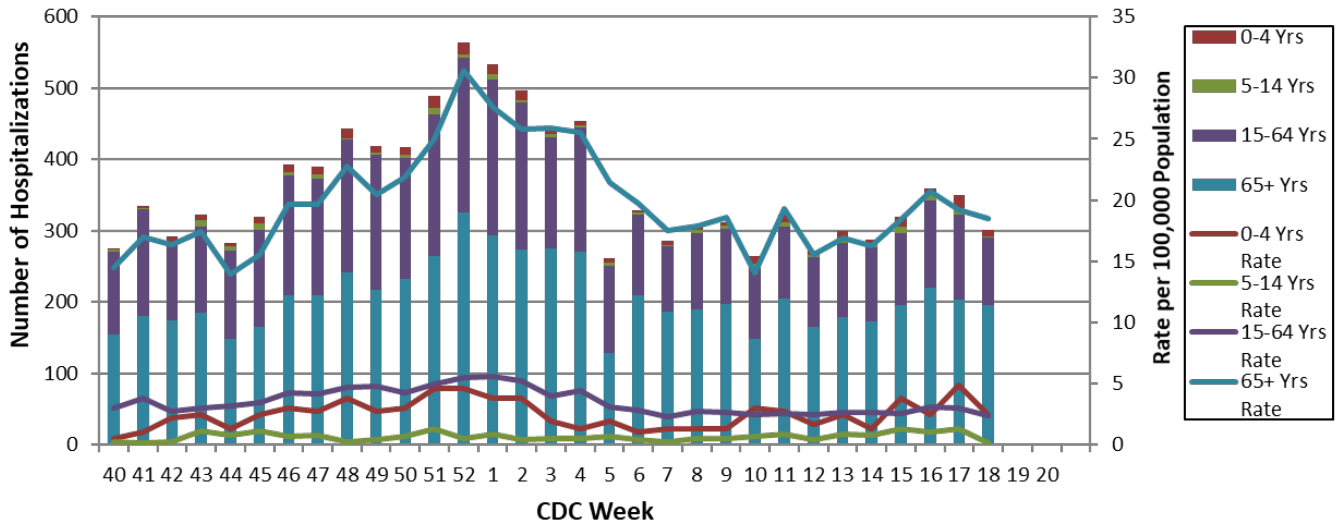
Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.  
 \*The ILI data from a small number of sites located in the Northwest Region of the state is temporarily unavailable in ESSENCE. Therefore, the ILI data for the Northwest 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 18, 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/](http://www.who.int/influenza/surveillance_monitoring/en/)