



# Iowa Influenza Surveillance Network (IISN)

## Influenza-like Illness (ILI) and Other Respiratory Viruses

### Weekly Activity Report



For the week ending November 16, 2019 - Week 46

All data presented in this report are provisional and may change as additional reports are received

Iowa Influenza Geographic Spread				
No Activity	Sporadic	Local	Regional	Widespread

Note: See CDC activity estimates for definition [www.cdc.gov/flu/weekly/overview.htm](http://www.cdc.gov/flu/weekly/overview.htm)

Quick Stats	
Predominate influenza subtype	A(H1N1)pdm09
Percent of influenza rapid test positive	3% (34/1255)
Percent of RSV rapid tests positive	18% (29/160)
Influenza-associated hospitalizations	7/5789 inpatients surveyed
Percent of outpatient visits for ILI	1.11% (baseline 1.7%)
Number of long-term care outbreaks	0
Percent school absence due to illness	2.2%
Number of schools with ≥10% absence due to illness	2
Influenza-associated mortality -all ages (Cumulative)	4
Influenza-associated pediatric mortality (Cumulative)	0
Predominate non-influenza virus	Rhinovirus/enterovirus

Note: Deaths are considered influenza-associated when influenza is listed on the death certificate. This is an underestimate of influenza-related deaths. Cumulative mortality totals are from 9/29/2019 to the current week.

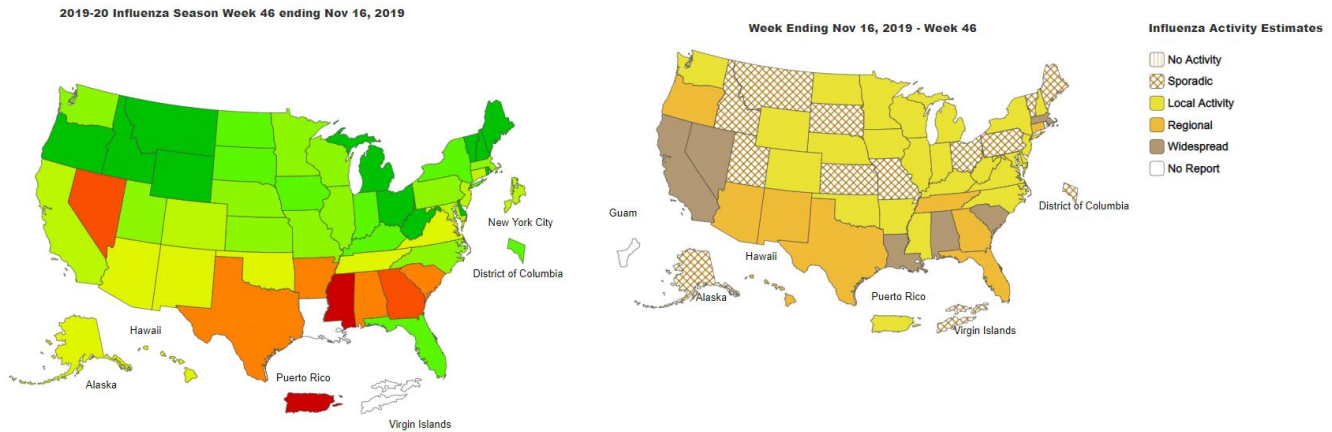
#### **Iowa statewide activity summary:**

Influenza activity is still low in Iowa and the geographic spread of influenza is local. For this reporting week, the State Hygienic Laboratory identified one influenza A(H1N1)pdm09 and one B(Victoria lineage) from submitted samples as well as six influenza A positive and four influenza B positive specimens pending subtyping. Seven influenza-related hospitalizations were reported. The proportion of outpatient visits due to influenza-like illness (ILI) was 1.11%, which is below the regional baseline of 1.7%. No long-term care influenza outbreaks were reported and two schools reported at least 10% of students absent due to illness. Two influenza-associated deaths were reported. Surveillance sites reported detecting the following non-influenza respiratory illnesses with the most frequency: 209 rhinovirus/enterovirus, 56 adenovirus and 53 parainfluenza virus type one.

#### **International activity summary - (WHO):**

In the temperate zone of the northern hemisphere, influenza activity remained at inter-seasonal levels in most countries. However, influenza activity continued to increase across the countries of the Arabian Peninsula. In the temperate zones of the southern hemisphere, influenza activity was low in most countries, though influenza B virus detections continued to be reported in Chile. Worldwide, seasonal influenza A viruses continued to account for the majority of detections. Visit [www.who.int/influenza/surveillance\\_monitoring/updates/latest\\_update\\_GIP\\_surveillance/en/](http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/) for more information. It was last updated 11/11/2019.

## National activity summary - (CDC)-Last Updated in Week 46:

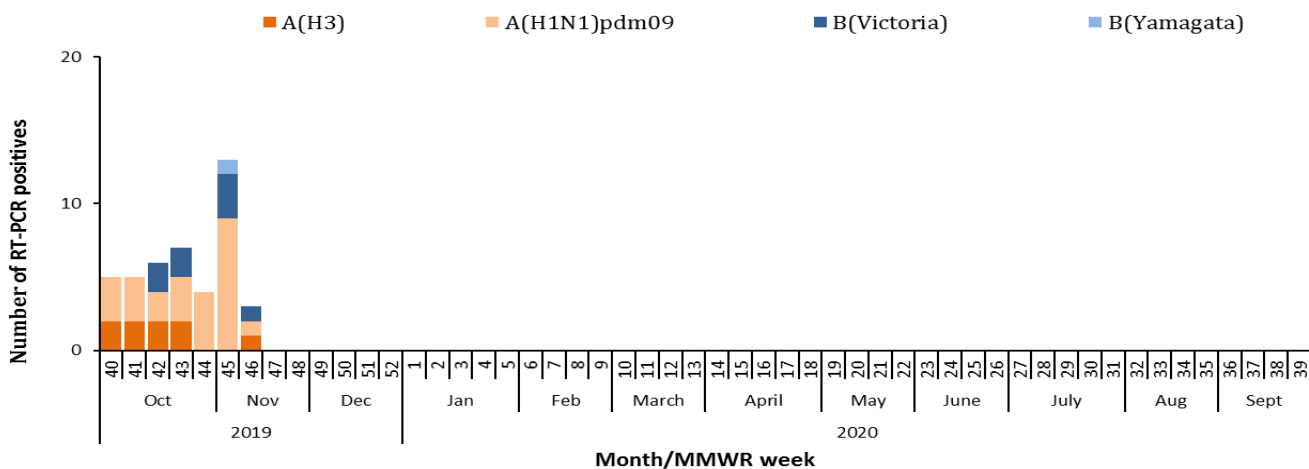


Detailed information can be found online at [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/).

### Laboratory surveillance program:

The State Hygienic Laboratory (SHL) is the primary laboratory in Iowa characterizing specimens for influenza surveillance. SHL reports the number of tests performed and the type and subtype/lineage of positive tests to the influenza surveillance network daily. SHL also sends a portion of specimens to CDC for further characterization.

### Influenza viruses detected by SHL by week



### Cumulative Influenza viruses detected by SHL by age group (9/29/19 – Current Week)

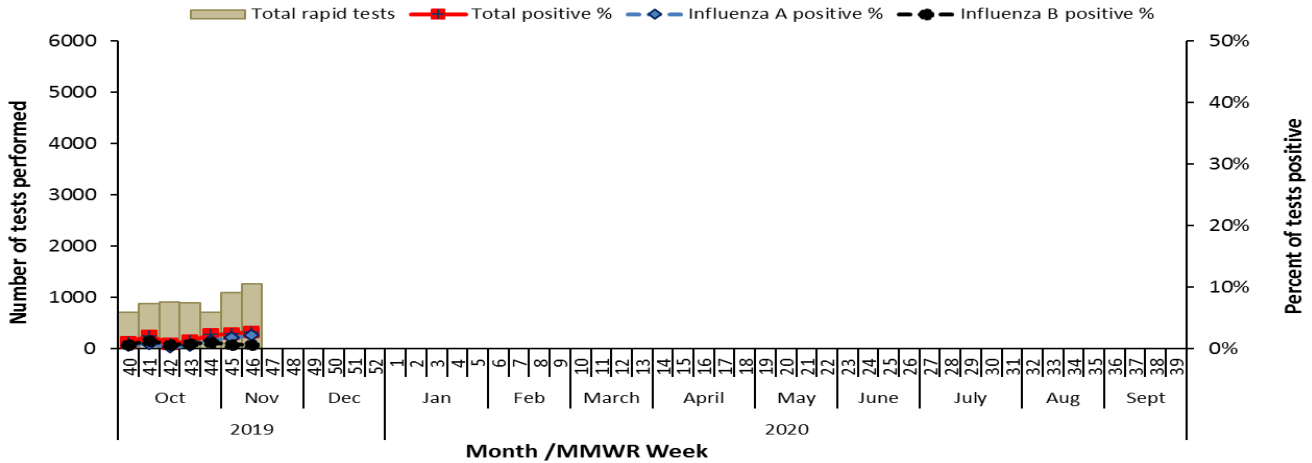
Age Group	Influenza A				Influenza B				Total	Percent
	A(H1N1)pdm09	A(H3)	Not subtyped	Total A	Victoria Lineage	Yamagata Lineage	Not subtyped	Total B		
0-4	4	1	0	5	2	0	2	4	9	16%
5-17	8	0	3	11	2	1	2	5	16	29%
18-24	1	2	2	5	2	0	0	2	7	13%
25-49	1	1	2	4	2	0	0	2	6	11%
50-64	8	3	1	12	0	0	0	0	12	21%
>64	3	2	1	6	0	0	0	0	6	11%
<b>Total</b>	<b>25</b>	<b>9</b>	<b>9</b>	<b>43</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>13</b>	<b>56</b>	
<b>Percent</b>	<b>58%</b>	<b>21%</b>	<b>21%</b>		<b>62%</b>	<b>8%</b>	<b>31%</b>			

Totals by age may not add up to totals by subtype/lineage due to missing age information. Only cases of Iowa residents are included. Specimens listed as “not subtyped” may be pending or were not able to be subtyped due to weak positive lab results. This can be due to poor collection, timing of collection or stage of infection.

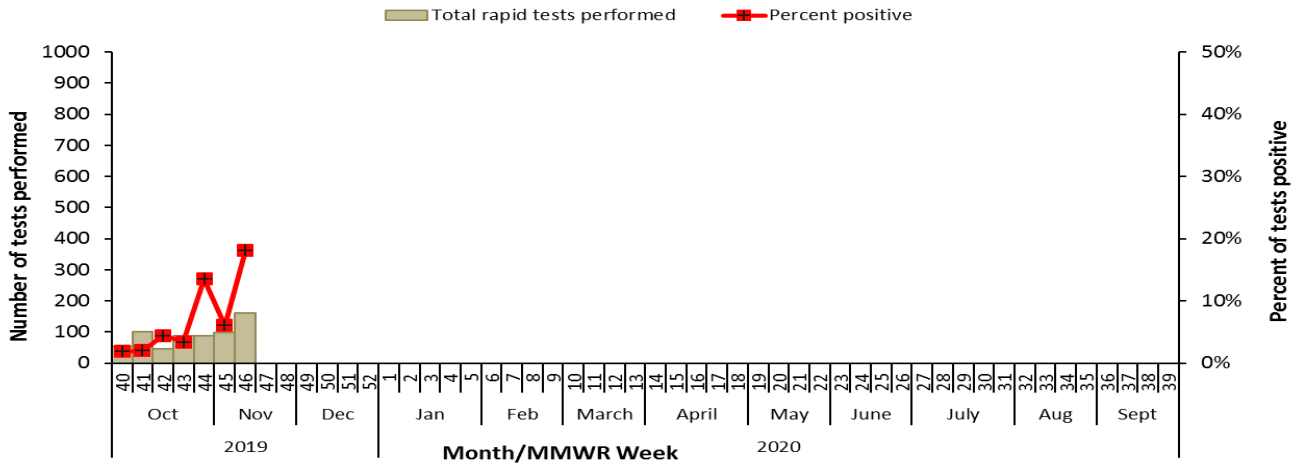
**Rapid influenza and RSV test surveillance:**

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

**Percent of influenza rapid tests positive and number of tests performed, 2019-2020**



**Percent of RSV rapid tests positive and number of tests performed, 2019-2020**



**Percent of influenza rapid tests positive and number of tests performed by region for the present week**

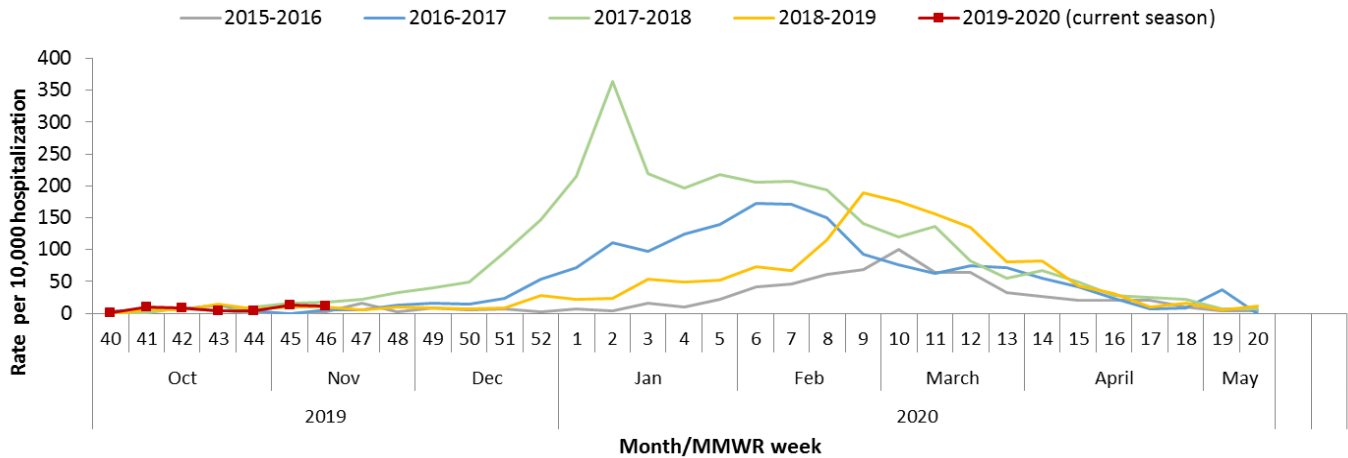
REGION	RAPID INFLUENZA TESTS				RAPID RSV TESTS		
	Tested	Flu A	Flu B	% Positive	Tested	Positive	% Positive
Region 1 (Central)	357	11	5	4	12	0	0
Region 2 (NE)	74	0	0	0	16	2	13
Region 3 (NW)	113	1	2	3	46	14	30
Region 4 (SW)	104	14	0	13	17	2	12
Region 5 (SE)	55	0	0	0	18	2	11
Region 6 (Eastern)	552	1	0	0	51	9	18
<b>Total</b>	<b>1255</b>	<b>27</b>	<b>7</b>	<b>3</b>	<b>160</b>	<b>29</b>	<b>18</b>

Note: see map in the school section for the counties in each region.

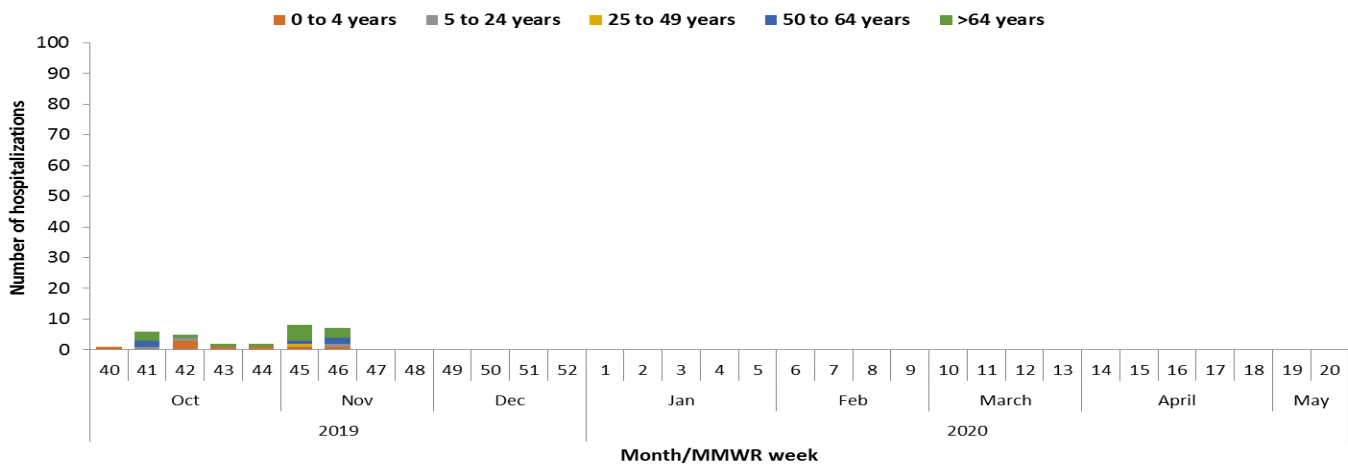
**Influenza-associated hospitalizations:**

Sentinel hospitals that participate in IISN voluntarily track and report the number of influenza-associated hospitalizations and the total number of inpatients each week. Iowa hospitals interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or [andy.weigel@idph.iowa.gov](mailto:andy.weigel@idph.iowa.gov) for more information.

**Influenza-associated hospitalizations reported by hospital surveillance sites**



**Number of influenza-associated hospitalizations by age group and week**



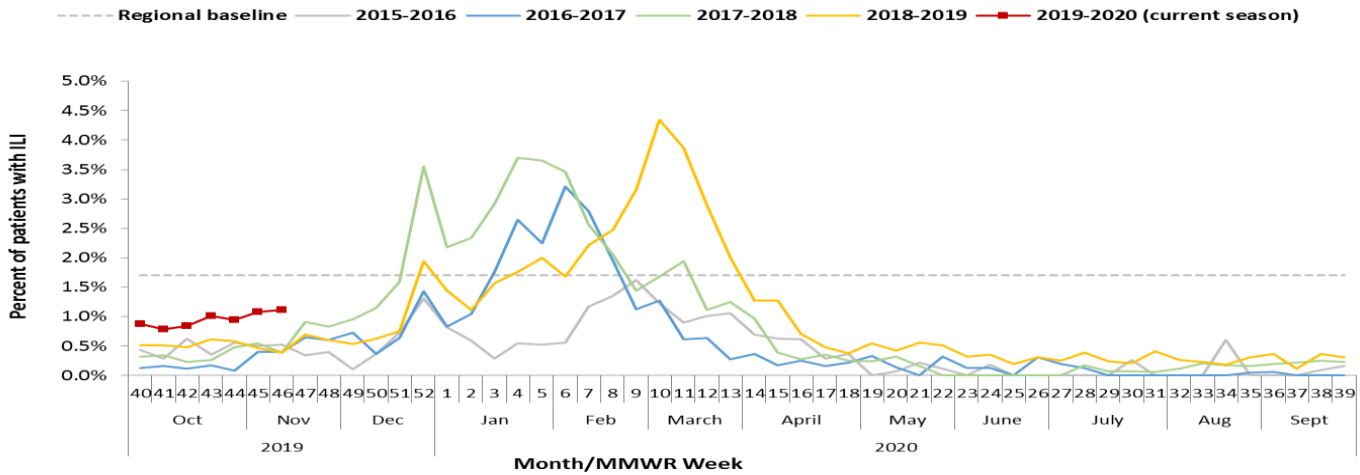
**Number of influenza-associated hospitalizations reported by age group**

AGE	CURRENT WEEK	CUMULATIVE (9/29/19– CURRENT WEEK)
Age 0-4	1	8
Age 5-24	1	3
Age 25-49	0	1
Age 50-64	2	5
Age >64	3	14
<b>Total</b>	<b>7</b>	<b>31</b>

**Outpatient health care provider surveillance program (ILINet):**

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of Iowa’s influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or [andy.weigel@idph.iowa.gov](mailto:andy.weigel@idph.iowa.gov) for more information.

**Percent of outpatient visits attributed to ILI as reported by ILINet sites**



**Outpatient visits for influenza-like illness (ILI)**

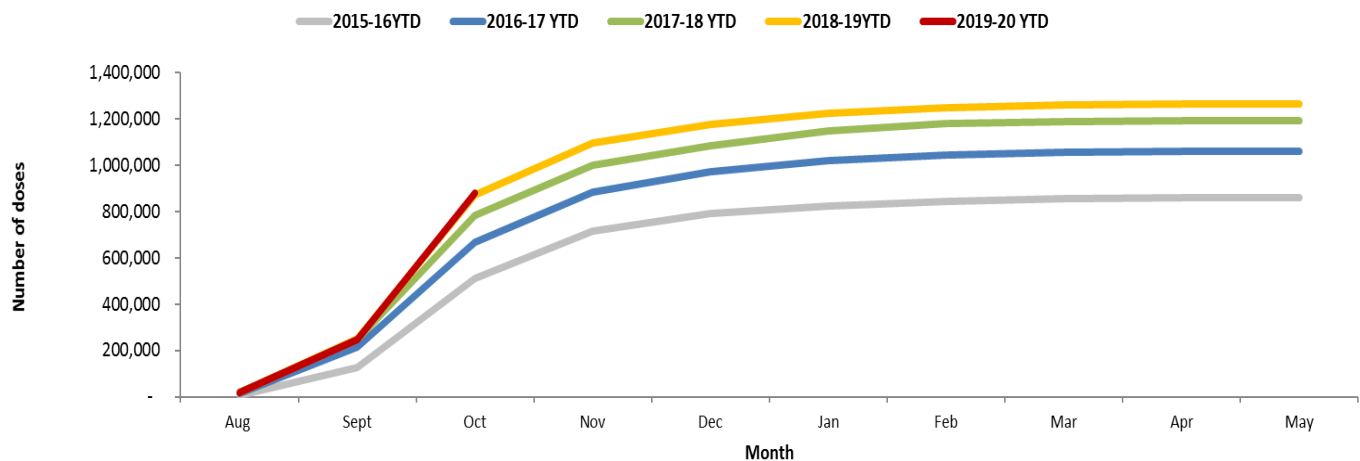
Week, End Date	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64	Total ILI	%ILI
Week 44, November 2	12	48	6	1	4	71	0.94
Week 45, November 9	11	62	7	2	1	83	1.08
Week 46, November 16	13	53	6	4	4	80	1.11

Note: Influenza-like Illness is defined as a fever of  $\geq 100^{\circ}$  F as well as cough and/or sore throat.

**Seasonal influenza vaccination:**

Seasonal influenza vaccination data in Iowa is based on doses reported to the Iowa Immunization Registry Information System (IRIS). IRIS is a confidential, computerized, population-based system that tracks immunization for children, adolescents and adults who are seen in a variety of public and private healthcare provider sites throughout the state of Iowa. For more information on the immunization data, contact Kim Tichy, IRIS coordinator, at 515-281-4288 or [kimberly.tichy@idph.iowa.gov](mailto:kimberly.tichy@idph.iowa.gov).

**Administered Doses of Seasonal Influenza Vaccine Reported to IRIS, Year to Date by Season**



Note: The data for the 2019-2020 season is only up to the current week and there is a lag between the vaccine administration date and the date reported to the IRIS. The current season’s data will be adjusted as additional data is received.

**Long-term Care Outbreaks:**

**Number of long-term care outbreaks investigated**

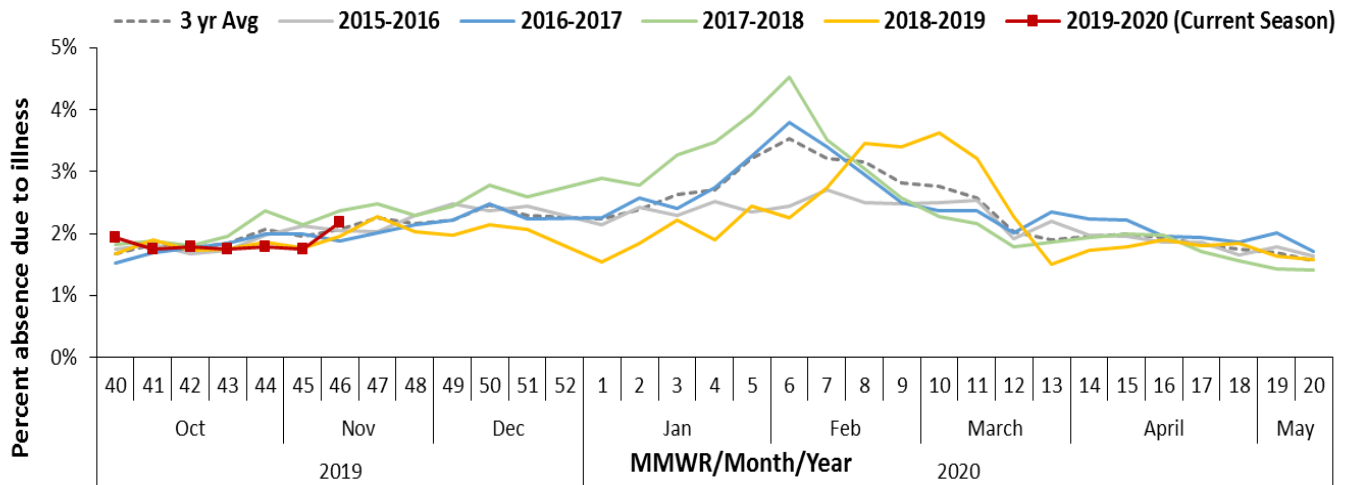
REGION	CURRENT WEEK	CUMULATIVE (9/29/19– CURRENT WEEK)
Region 1 (Central)	0	0
Region 2 (NE)	0	0
Region 3 (NW)	0	0
Region 4 (SW)	0	1
Region 5 (SE)	0	0
Region 6 (Eastern)	0	0
<b>Total</b>	<b>0</b>	<b>1</b>

Note: see map in the school section for the counties in each region.

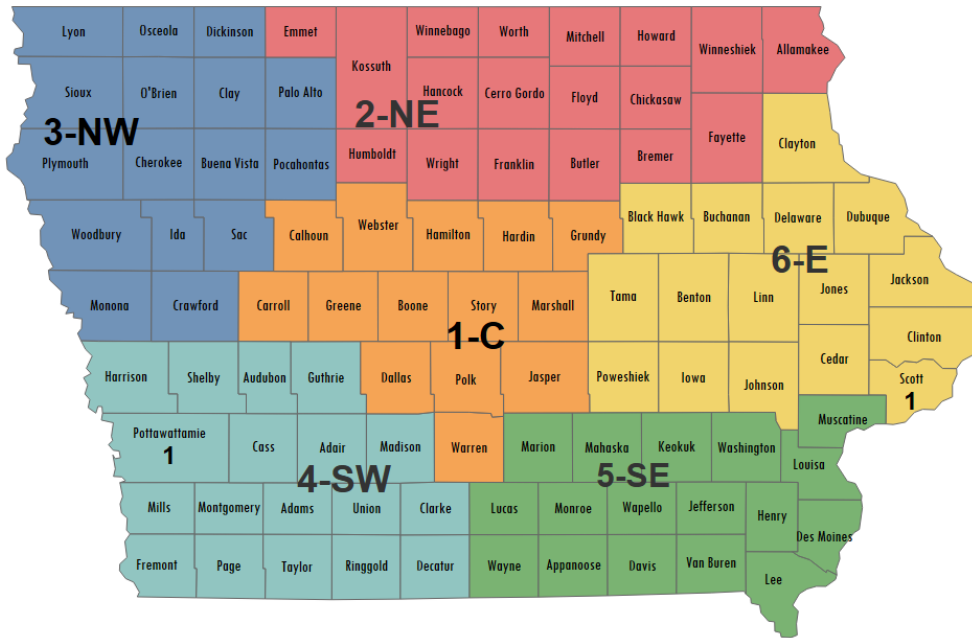
**School surveillance program**

IDPH monitors illnesses in schools from two different types of reporting: 10% school absence reports and weekly sentinel illness reporting. Iowa schools (K-12) track and report (including non-influenza illnesses) when the number of students absent with illness reaches or exceeds 10% of total student enrollment. Iowa sentinel schools that participate in IISN voluntarily track and report absence due to all illness and the total enrollment each week. This data provides excellent trends for influenza activity as well as age-specific information used to target vaccination efforts and messages.

**Percent of enrolled students absent due to illness reported by sentinel schools**



**Number of schools reporting >10% absenteeism due to any illness by Flu Region and County**



**Number of schools reporting >10% absenteeism due to any illness**

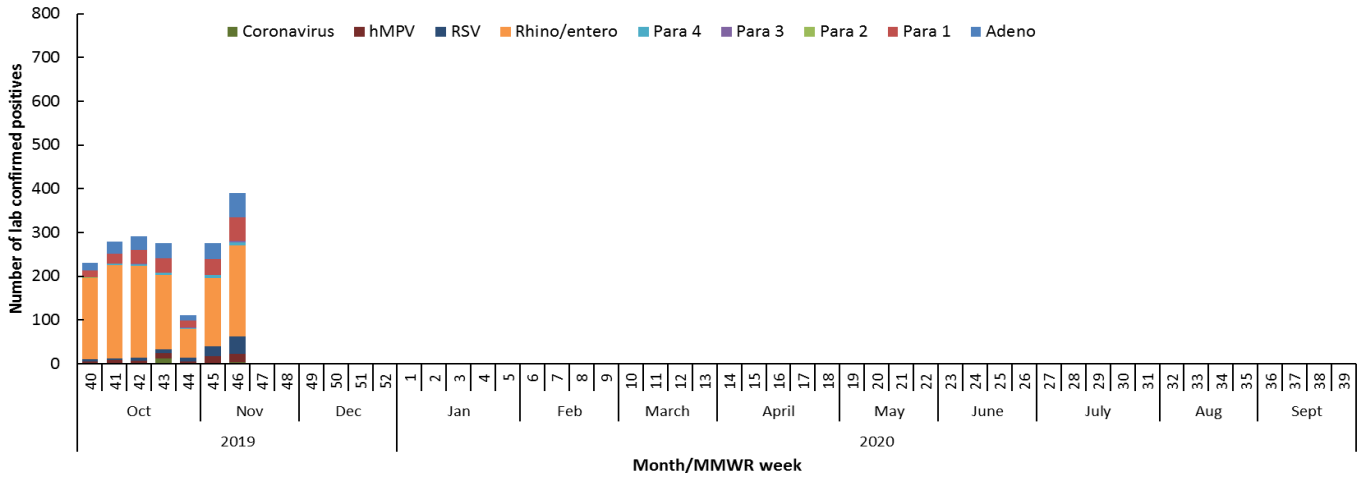
REGION	CURRENT WEEK	CUMULATIVE (9/29/19–CURRENT WEEK)
Region 1 (Central)	0	3
Region 2 (NE)	0	0
Region 3 (NW)	0	1
Region 4 (SW)	1	3
Region 5 (SE)	0	1
Region 6 (Eastern)	1	4
<b>Total</b>	<b>2</b>	<b>12</b>

Note: see map in the school section for the counties in each region.

**Non-influenza respiratory viruses:**

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of positive tests for non-influenza respiratory viruses. This table also includes the positive non-influenza virus tests reported from the Dunes Medical Laboratories at Mercy Medical Center in Sioux City. The table includes only the number of positive tests at laboratory surveillance sites throughout the state. The table does not provide case counts.

**Comparison of respiratory illnesses by type**



**Number of positive results for non-influenza respiratory virus reported by clinical laboratories**

Viruses	CURRENT WEEK	CUMULATIVE (9/29/19–CURRENT WEEK)
Adenovirus	56	217
Parainfluenza Virus Type 1	53	209
Parainfluenza Virus Type 2	1	2
Parainfluenza Virus Type 3	3	6
Parainfluenza Virus Type 4	6	27
Rhinovirus/Enterovirus	209	1209
Respiratory syncytial virus (RSV)	39	94
Human metapneumovirus (hMPV)	20	72
Coronavirus	3	18

**Other resources:**

**Vaccine:**

Influenza vaccine recommendation: [idph.iowa.gov/immtb/immunization/influenza/recommendations](http://idph.iowa.gov/immtb/immunization/influenza/recommendations)

CDC vaccine information: [www.cdc.gov/flu/faq/flu-vaccine-types.htm](http://www.cdc.gov/flu/faq/flu-vaccine-types.htm)

Vaccine finder: <http://vaccinefinder.org/>

**Neighboring states’ influenza information:**

Illinois: [www.dph.illinois.gov/topics-services/diseases-and-conditions/influenza/surveillance](http://www.dph.illinois.gov/topics-services/diseases-and-conditions/influenza/surveillance)

Minnesota: [www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html](http://www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html)

Missouri: [health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php](http://health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php)

South Dakota: [doh.sd.gov/diseases/infectious/flu/](http://doh.sd.gov/diseases/infectious/flu/)

Wisconsin: [www.dhs.wisconsin.gov/influenza/index.htm](http://www.dhs.wisconsin.gov/influenza/index.htm)