



**Iowa Influenza Surveillance Network (IISN)**  
**Influenza-like Illness (ILI) and Other Respiratory Viruses**  
**Weekly Activity Report**  
**For the week ending October 6, 2018 - Week 40**



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	None identified
Percent of influenza rapid test positive	1% (6/657)
Percent of RSV rapid tests positive	0% (0/51)
Influenza-associated hospitalizations	0/5419 inpatients surveyed
Percent of outpatient visits for ILI	0.51% (baseline 1.6%)
Percent school absence due to illness	1.6%
Number of schools with ≥10% absence due to illness	0
Influenza-associated mortality -all ages (Cumulative)	0
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 9/30/2018 to the current week.

**Iowa statewide activity summary:**

Influenza activity is low in Iowa. The geographic spread of Influenza in Iowa is sporadic. For this reporting week, the State Hygienic Laboratory did not confirm any influenza viruses from submitted samples. No influenza-related hospitalizations, outbreaks, or deaths were reported this reporting week. The proportion of outpatient visits due to influenza-like illness (ILI) was 0.51 percent, which is below the regional baseline of 1.6. Surveillance sites reported detecting the following non-influenza respiratory illnesses with the most frequency: 197 rhinovirus/ enterovirus and 33 parainfluenza virus type two.

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

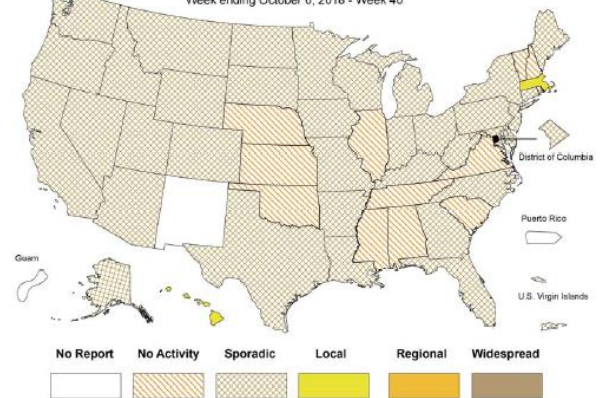
In the temperate zones of the southern hemisphere, influenza activity appeared to decrease in South America and Southern Africa. Influenza activity remained at low seasonal levels in Australia and New Zealand and at inter-seasonal levels in most of temperate zone of the northern hemisphere. Increased influenza detections were reported in some countries of Southern and South-East Asia. Worldwide, seasonal influenza subtype A viruses accounted 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 10/1/2018.

## National activity summary - (CDC)-Last Updated in Week 40:

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet  
2018-19 Influenza Season Week 40 ending Oct 06, 2018



Weekly Influenza Activity Estimates Reported  
by State & Territorial Epidemiologists\*  
Week ending October 6, 2018 - Week 40



**Synopsis:** Influenza activity in the United States remained low throughout the summer months and early October.

**Viral Surveillance:** While influenza B viruses were more commonly detected from May until late June, influenza A viruses have predominated from the beginning of July onward. The percentage of respiratory specimens testing positive for influenza in clinical laboratories is low. The majority of tested influenza viruses were characterized antigenically and genetically as being similar to the cell-grown reference viruses representing the 2018–2019 Northern Hemisphere influenza vaccine viruses. All tested viruses showed susceptibility to antiviral drugs.

**Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 1.4%, which is below the national baseline of 2.2%. All 10 regions reported ILI below region-specific baseline levels. New York City, the District of Columbia, and 49 states experienced minimal ILI activity, and Puerto Rico and one state had insufficient data.

**Geographic Spread of Influenza:** The geographic spread of influenza in two states was reported as local activity; the District of Columbia, the U.S. Virgin Islands and 35 states reported sporadic activity; 12 states reported no activity; and Guam, Puerto Rico and one state did not report.

**Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System.

**Influenza-associated Pediatric Deaths:** Two influenza-associated pediatric deaths were reported that occurred during the 2017-2018 season. No influenza-associated pediatric deaths for the 2018-2019 season have been reported to CDC.

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.

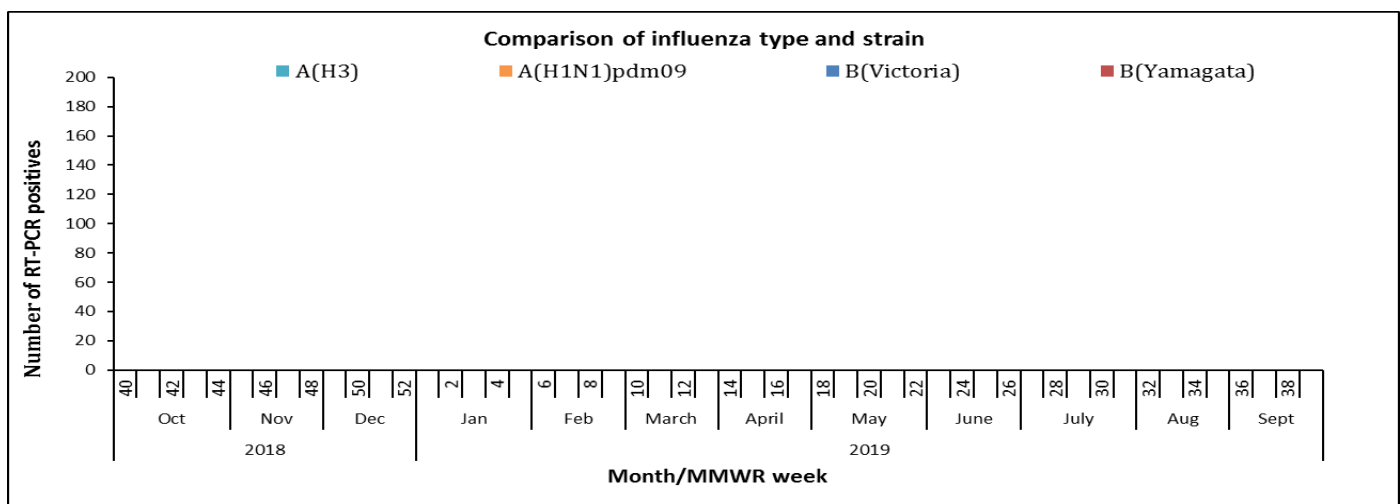
**Table 1: Influenza A viruses detected by SHL by age group**

Age Group	CURRENT WEEK				CUMULATIVE (9/30/18– CURRENT WEEK)			
	A(H1N1) pdm09	A(H3)	Not subtyped	Total	A(H1N1) pdm09	A(H3)	Not subtyped	Total
0-4	0	0	0	0 (0%)	0	0	0	0 (0%)
5-17	0	0	0	0 (0%)	0	0	0	0 (0%)
18-24	0	0	0	0 (0%)	0	0	0	0 (0%)
25-49	0	0	0	0 (0%)	0	0	0	0 (0%)
50-64	0	0	0	0 (0%)	0	0	0	0 (0%)
>64	0	0	0	0 (0%)	0	0	0	0 (0%)
<b>Total</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0</b>

**Table 2: Influenza B viruses detected by SHL by age group**

Age Group	CURRENT WEEK				CUMULATIVE (9/30/18– CURRENT WEEK)			
	Victoria Lineage	Yamagata Lineage	Not subtyped	Total	Victoria Lineage	Yamagata Lineage	Not subtyped	Total
0-4	0	0	0	0 (0%)	0	0	0	0 (0%)
5-17	0	0	0	0 (0%)	0	0	0	0 (0%)
18-24	0	0	0	0 (0%)	0	0	0	0 (0%)
25-49	0	0	0	0 (0%)	0	0	0	0 (0%)
50-64	0	0	0	0 (0%)	0	0	0	0 (0%)
>64	0	0	0	0 (0%)	0	0	0	0 (0%)
<b>Total</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0</b>

Table 1 and 2 Notes: Cell counts of three or less are sometimes suppressed to protect confidentiality. 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.



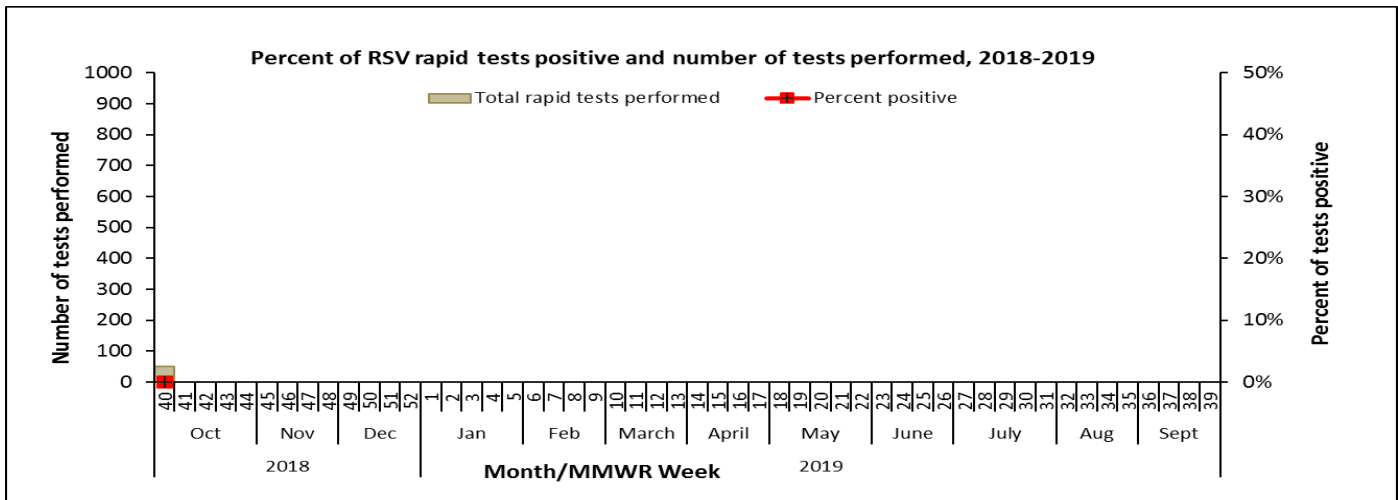
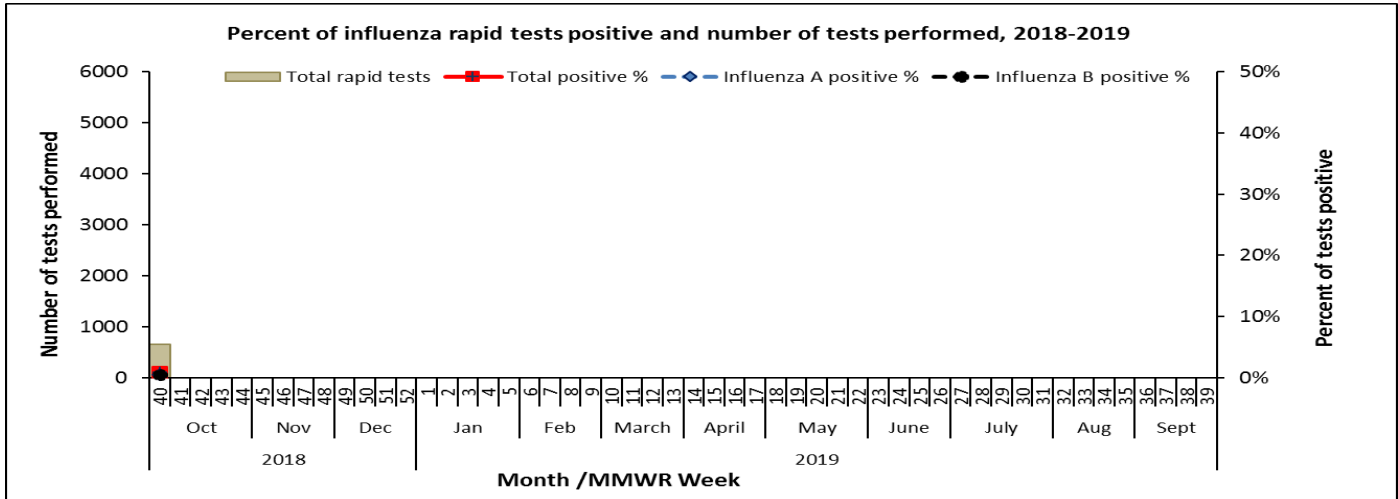
**Rapid influenza and RSV test surveillance:**

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.

**Table 3: Percent of influenza rapid tests positive and number of tests performed by region for the present week**

REGION	RAPID ANTIGEN INFLUENZA TESTS				RAPID ANTIGEN RSV TESTS		
	Tested	Flu A	Flu B	% Positive	Tested	Positive	% Positive
Region 1 (Central)	192	0	2	1	2	0	0
Region 2 (NE)	22	1	0	5	7	0	0
Region 3 (NW)	26	0	0	0	5	0	0
Region 4 (SW)	69	1	0	1	6	0	0
Region 5 (SE)	44	1	1	5	9	0	0
Region 6 (Eastern)	304	0	0	0	22	0	0
<b>Total</b>	<b>657</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>51</b>	<b>0</b>	<b>0</b>

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

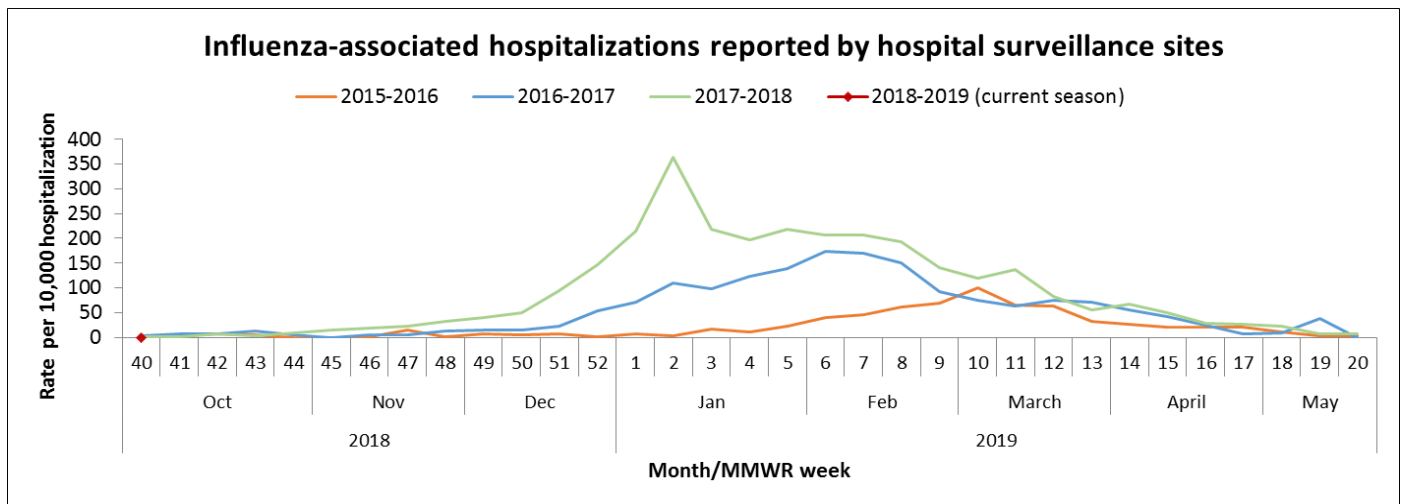


**Influenza-associated hospitalizations:**

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.

**Table 4: Number of influenza-associated hospitalization reported by age group**

AGE	CURRENT WEEK	CUMULATIVE (9/30/18– CURRENT WEEK)
Age 0-4	0	0
Age 5-24	0	0
Age 25-49	0	0
Age 50-64	0	0
Age >64	0	0
<b>Total</b>	<b>0</b>	<b>0</b>



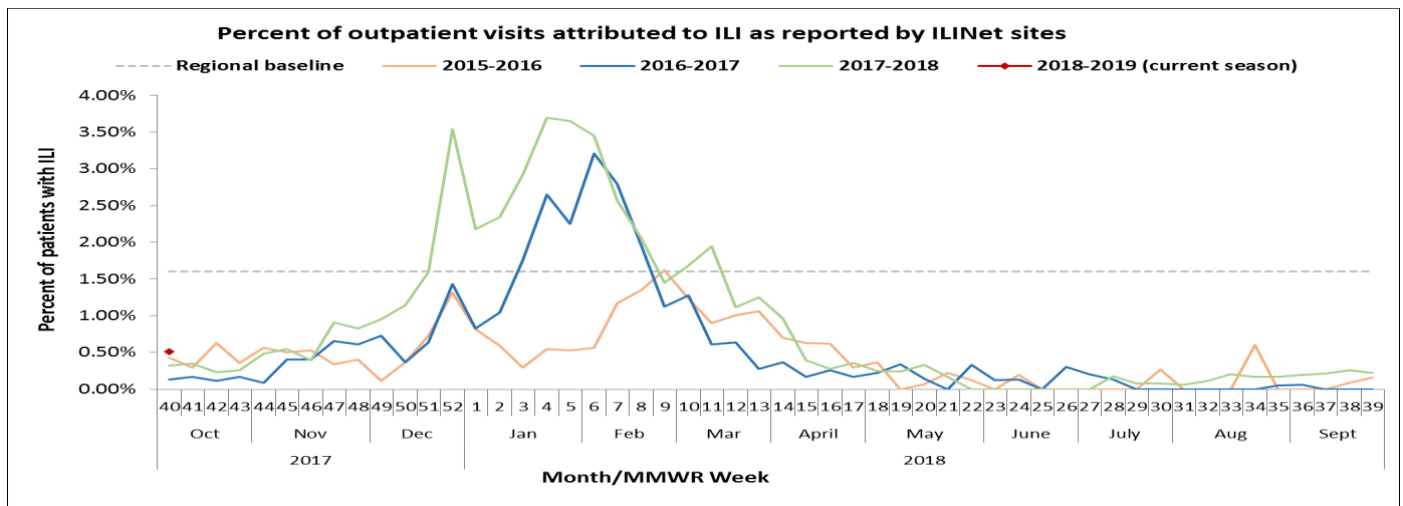
**Outpatient health care provider surveillance program (ILINet):**

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.

**Table 5: Outpatient visits for influenza-like illness (ILI)**

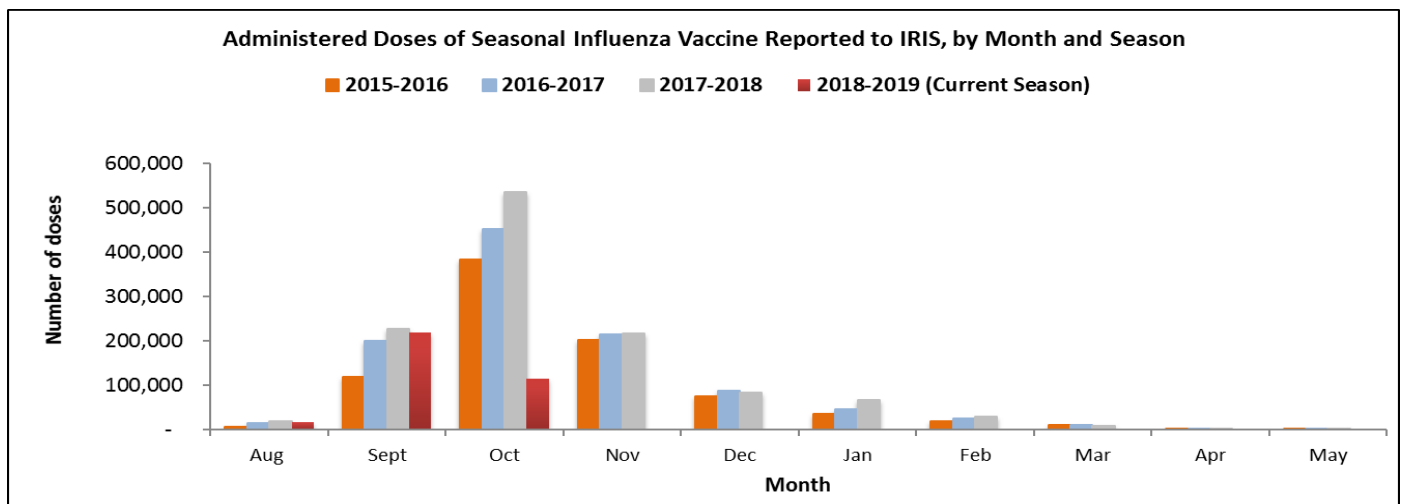
Week	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64	%ILI	Total ILI
<b>Week 40, ending May 6</b>	10	9	7	1	0	0.51	27

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).



Note: The data for the 2018-2019 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:**

**Table 6: Number of long-term care outbreaks investigated**

REGION	CURRENT WEEK	CUMULATIVE (9/30/18– CURRENT WEEK)
Region 1 (Central)	0	0
Region 2 (NE)	0	0
Region 3 (NW)	0	0
Region 4 (SW)	0	0
Region 5 (SE)	0	0
Region 6 (Eastern)	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

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

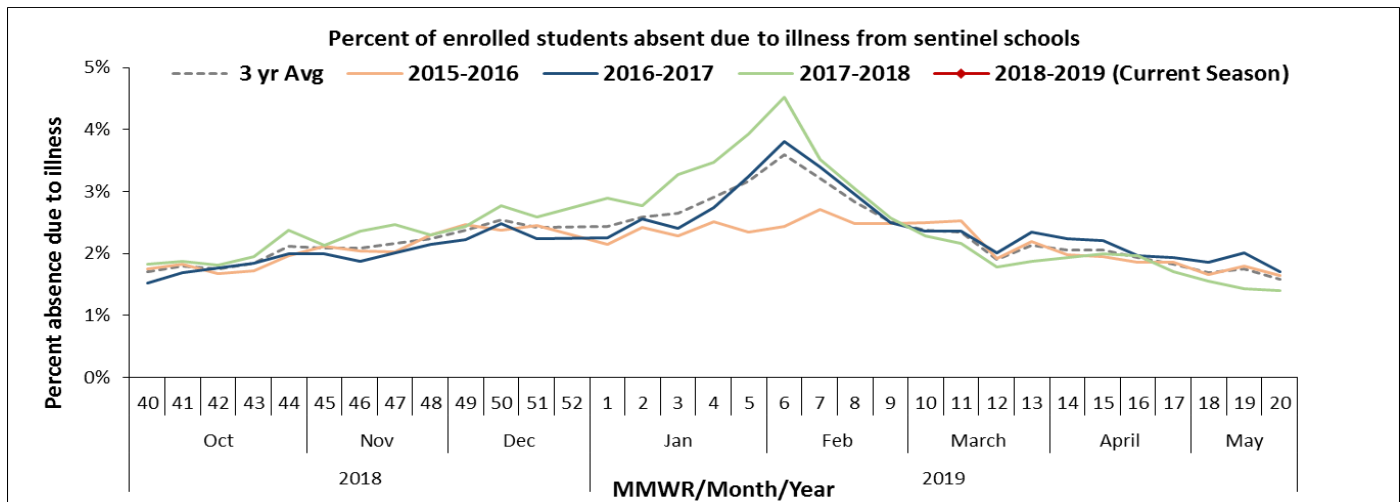
**School surveillance program**

IDPH monitors illnesses in schools from two different types of reporting: 10 percent 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 percent 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.

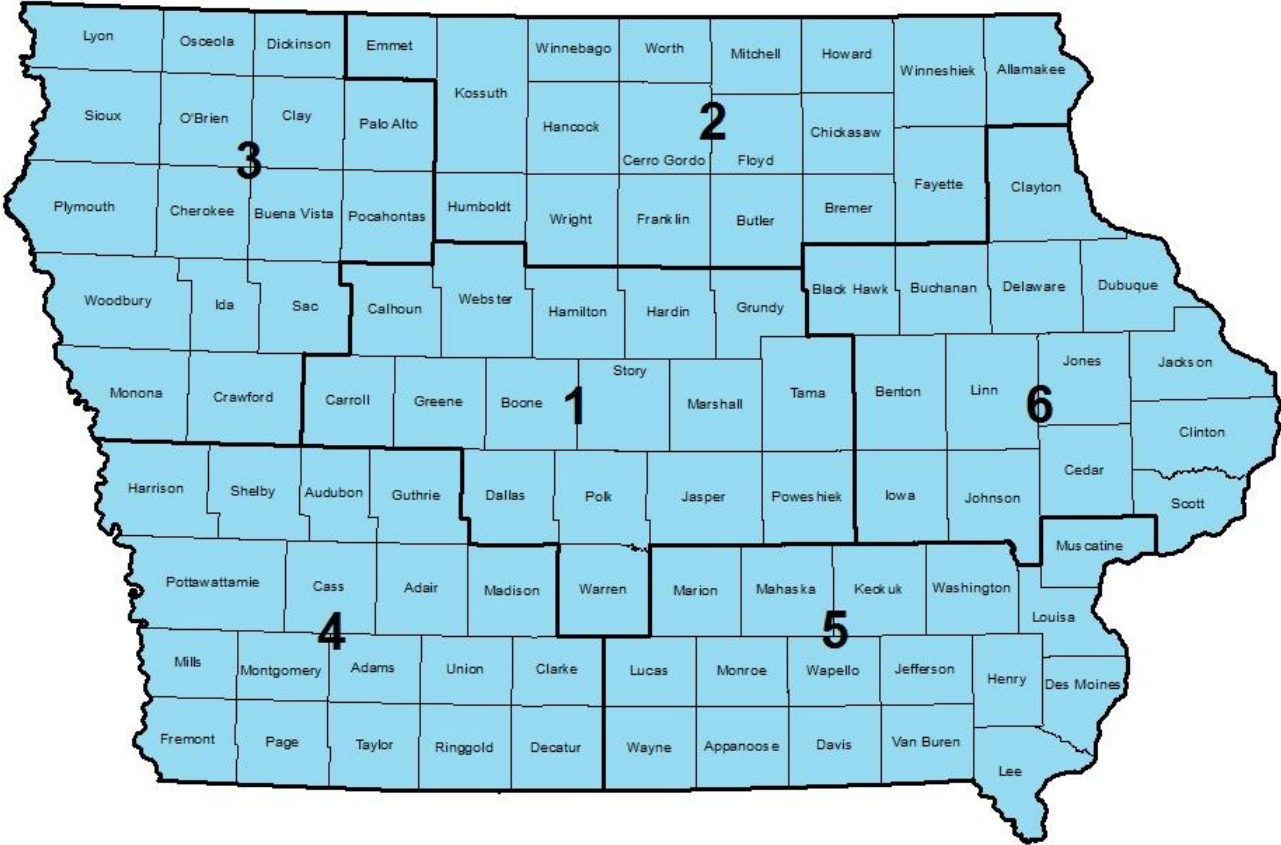
**Table 7: Number of schools reporting >10% absenteeism due to any illness**

REGION	CURRENT WEEK	CUMULATIVE (9/30/18–CURRENT WEEK)
Region 1 (Central)	0	0
Region 2 (NE)	0	0
Region 3 (NW)	0	0
Region 4 (SW)	0	0
Region 5 (SE)	0	0
Region 6 (Eastern)	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

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



# Iowa Inﬂuenza Region Map



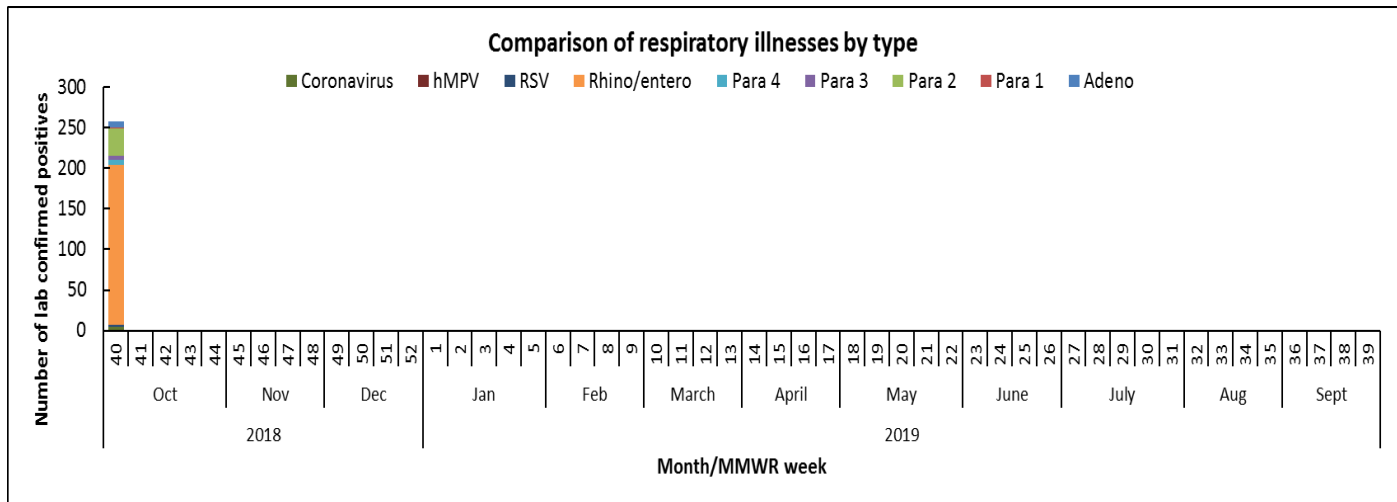


**Non-influenza respiratory viruses:**

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.

**Table 8: Number of positive results for non-influenza respiratory virus collected by SHL, Mercy Dunes in Sioux City and Iowa Methodist Medical Center**

Viruses	CURRENT WEEK	CUMULATIVE (9/30/18–CURRENT WEEK)
Adenovirus	8	8
Parainfluenza Virus Type 1	1	1
Parainfluenza Virus Type 2	33	33
Parainfluenza Virus Type 3	6	6
Parainfluenza Virus Type 4	6	6
Rhinovirus/Enterovirus	197	197
Respiratory syncytial virus (RSV)	2	2
Human metapneumovirus (hMPV)	1	1
Coronavirus	4	4
<b>Total</b>	<b>258</b>	<b>258</b>



**Other resources:**

**Vaccine:**

Influenza vaccine recommendation: [idph.iowa.gov/immtdb/immunization/vaccine](http://idph.iowa.gov/immtdb/immunization/vaccine)

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