



**Iowa Influenza Surveillance Network (IISN)**  
**Influenza-like Illness (ILI) and Other Respiratory Viruses**  
**Weekly Activity Report**  
**For the week ending October 7, 2017 - 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   |                            |
|---|----------------------------|
| Percent of influenza rapid test positive              | 2% (7/405)                 |
| Percent of RSV rapid tests positive                   | 2% (1/60)                  |
| Influenza-associated hospitalizations                 | 0/2425 inpatients surveyed |
| Percent of outpatient visits for ILI                  | 0.81% (baseline 1.9%)      |
| 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                          |

Note: Deaths in which influenza is listed on the death certificate. This is an underestimate of influenza-related deaths. Cumulative is 10/1/2017 - current week.

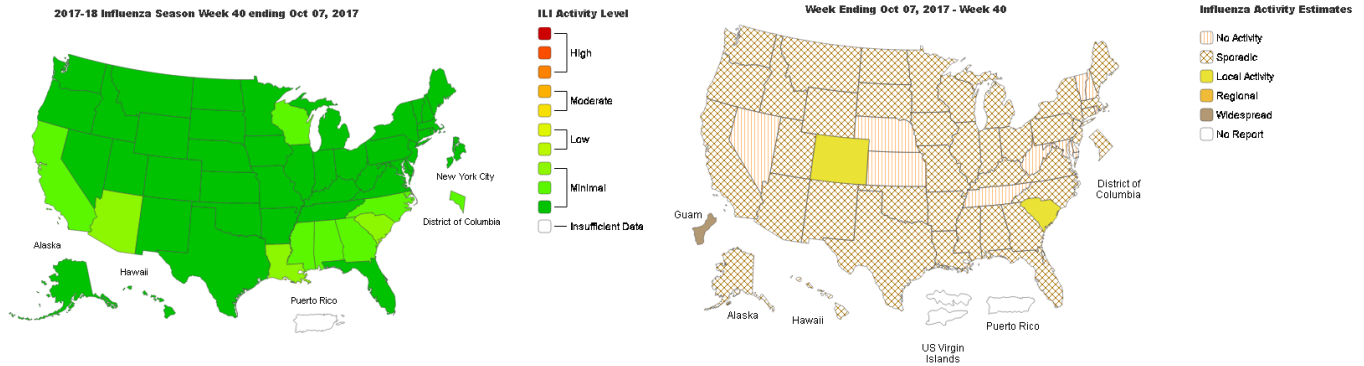
**Iowa statewide activity summary:**

Influenza activity is low in Iowa. The geographic spread of Influenza in Iowa is sporadic. For this reporting week, the State Hygienic Laboratory confirmed two influenza A(H3) virus from submitted samples. No influenza-related hospitalizations were reported from sentinel hospitals during this reporting week. The proportion of outpatient visits due to influenza-like illness (ILI) was 0.81 percent, which is below the regional baseline of 1.9. In this reporting week, six adenovirus, 23 parainfluenza virus type 1, two parainfluenza virus type 3, two parainfluenza virus type 4, 70 rhinovirus/ enterovirus, three RSV, one hMPV and two coronavirus were detected from surveillance sites.

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

Influenza activity in the temperate zone of the northern hemisphere remained at low levels. High levels of influenza activity continued to be reported in the temperate zone of the southern hemisphere and in some countries of South and South East Asia. Worldwide, influenza A(H3N2) predominated. 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 9/17/2017.

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



**Synopsis:** During week 40 (October 1-7, 2017), influenza activity was low in the United States.

**Viral Surveillance:** The most frequently identified influenza virus type reported by public health laboratories during week 40 was influenza A. The percentage of respiratory specimens testing positive for influenza in clinical laboratories is low.

**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:** No influenza-associated pediatric deaths were reported.

**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 50 states experienced minimal ILI activity and Puerto Rico had insufficient data.

**Geographic Spread of Influenza:** The geographic spread of influenza in Guam was reported as widespread; two states reported local activity; the District of Columbia and 38 states reported sporadic activity; 10 states reported no activity; and Puerto Rico and the U.S. Virgin Islands did not report. 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 lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and sub-type of positive tests to the influenza surveillance network daily.

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

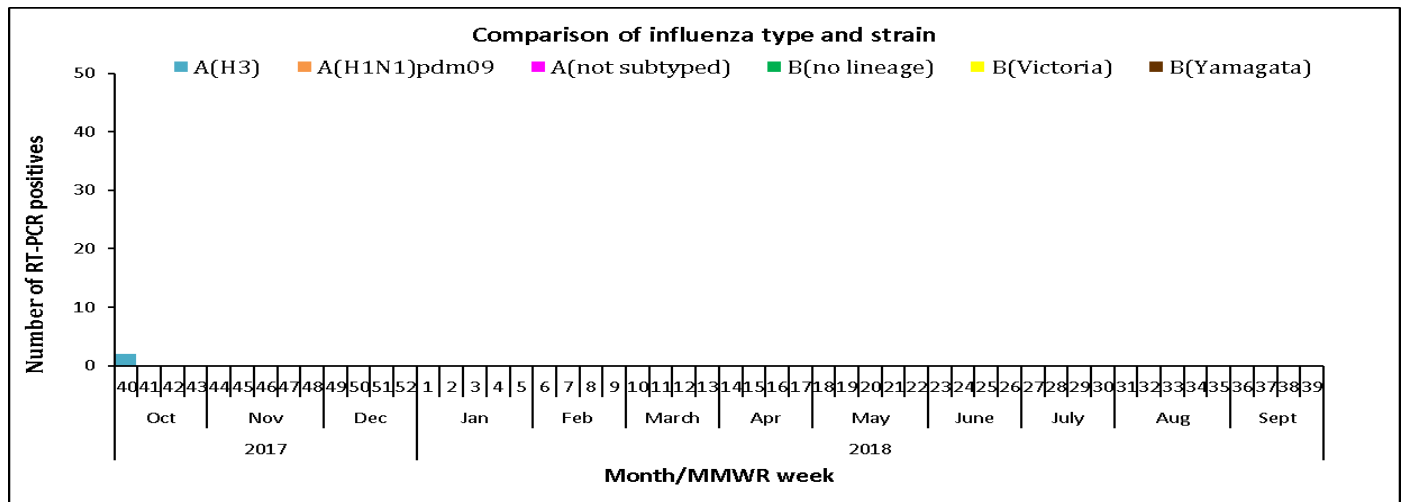
| Age Group    | CURRENT WEEK  |                 |               |          | CUMULATIVE (10/1/17– CURRENT WEEK) |                 |               |          |
|--------------|---------------|-----------------|---------------|----------|------------------------------------|-----------------|---------------|----------|
|              | 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 (%)    |
| 5-17         | 0             | 0               | 0             | 0 (%)    | 0                                  | 0               | 0             | 0 (%)    |
| 18-24        | 0             | 0               | 0             | 0 (%)    | 0                                  | 0               | 0             | 0 (%)    |
| 25-49        | 0             | 0               | 0             | 0 (%)    | 0                                  | 0               | 0             | 0 (%)    |
| 50-64        | 0             | 1               | 0             | 1 (50%)  | 0                                  | 1               | 0             | 1 (50%)  |
| >64          | 0             | 1               | 0             | 1 (50%)  | 0                                  | 1               | 0             | 1 (50%)  |
| <b>Total</b> | <b>0 (0%)</b> | <b>1 (100%)</b> | <b>0 (0%)</b> | <b>2</b> | <b>0 (0%)</b>                      | <b>1 (100%)</b> | <b>0 (0%)</b> | <b>2</b> |

Notes: Counts of three or less are sometimes suppressed to protect confidentiality. Counts may not add up to the total due to missing age information. Only cases of Iowa residents are included. “Not subtyped” column is due to weak detections. This can be due to poor collection, timing of collection or stage of infection.

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

| Age Group    | CURRENT WEEK     |                  |                 |          | CUMULATIVE (10/1/17– CURRENT WEEK) |                  |                 |          |
|--------------|------------------|------------------|-----------------|----------|------------------------------------|------------------|-----------------|----------|
|              | Victoria Lineage | Yamagata Lineage | Lineage Pending | Total    | Victoria Lineage                   | Yamagata Lineage | Lineage Pending | Total    |
| 0-4          | 0                | 0                | 0               | 0        | 0                                  | 0                | 0               | 0        |
| 5-17         | 0                | 0                | 0               | 0        | 0                                  | 0                | 0               | 0        |
| 18-24        | 0                | 0                | 0               | 0        | 0                                  | 0                | 0               | 0        |
| 25-49        | 0                | 0                | 0               | 0        | 0                                  | 0                | 0               | 0        |
| 50-64        | 0                | 0                | 0               | 0        | 0                                  | 0                | 0               | 0        |
| >64          | 0                | 0                | 0               | 0        | 0                                  | 0                | 0               | 0        |
| <b>Total</b> | <b>0</b>         | <b>0</b>         | <b>0</b>        | <b>0</b> | <b>0</b>                           | <b>0</b>         | <b>0</b>        | <b>0</b> |

Notes: Counts of three or less are sometimes suppressed to protect confidentiality. Counts may not add up to the total due to missing age information. Only cases of Iowa residents are included. “Not subtyped” column is due to weak detections. This can be due to poor collection, timing of collection or stage of infection.



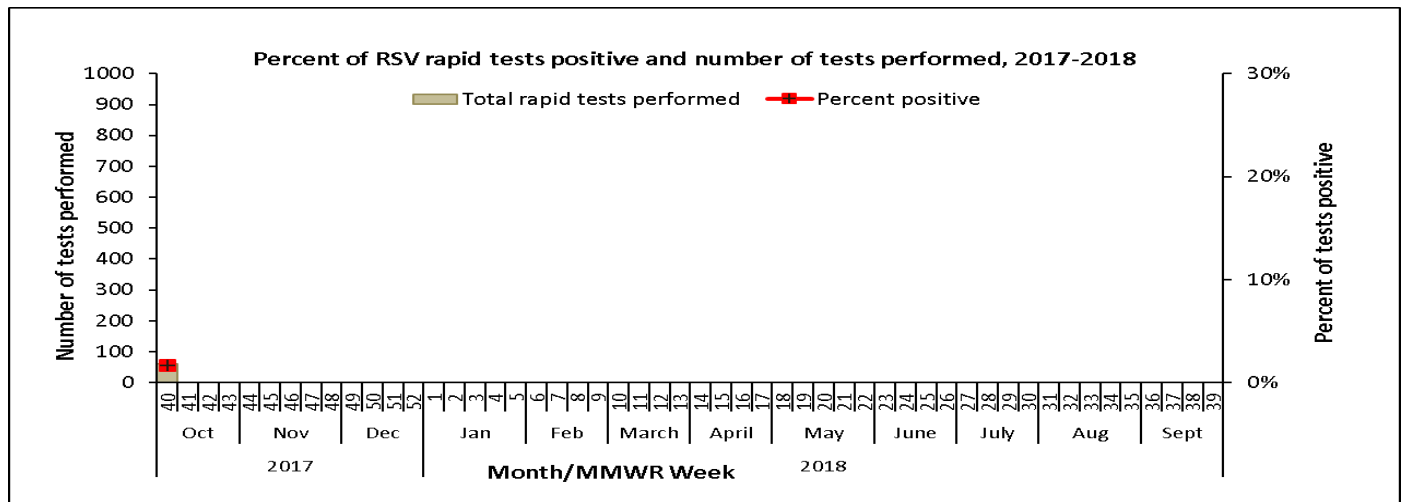
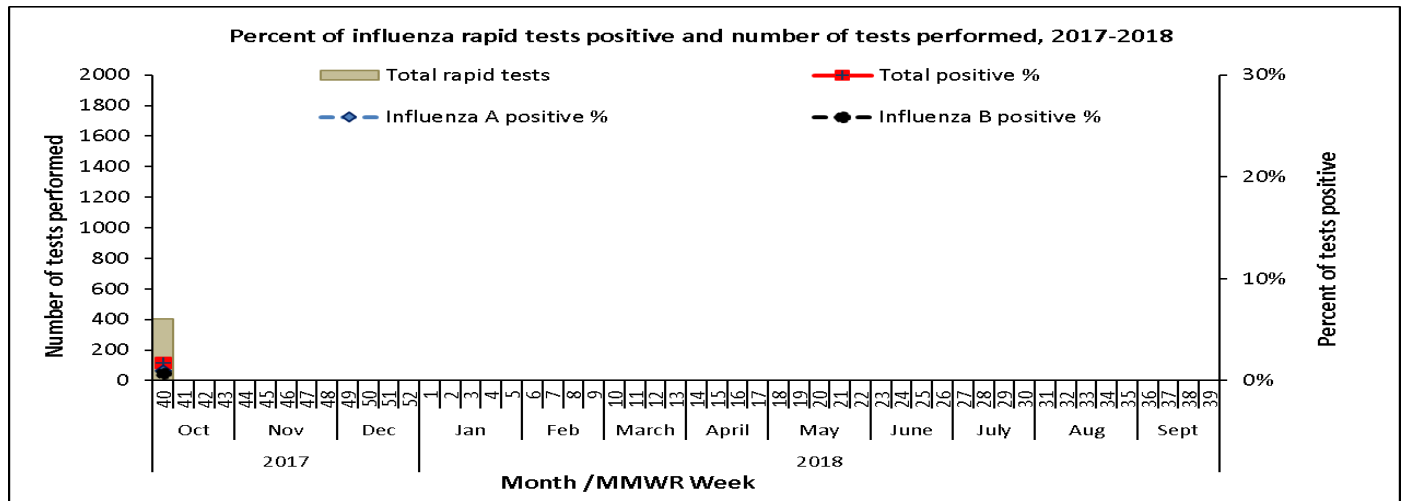
**Rapid influenza and RSV test surveillance:**

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) | 65                            | 2        | 0        | 3          | 3                       | 0        | 0          |
| Region 2 (NE)      | 8                             | 0        | 0        | 0          | 6                       | 0        | 0          |
| Region 3 (NW)      | 50                            | 0        | 0        | 0          | 11                      | 0        | 0          |
| Region 4 (SW)      | 29                            | 0        | 1        | 3          | 1                       | 0        | 0          |
| Region 5 (SE)      | 22                            | 1        | 0        | 5          | 11                      | 0        | 0          |
| Region 6 (Eastern) | 231                           | 1        | 2        | 1          | 28                      | 1        | 4          |
| <b>Total</b>       | <b>405</b>                    | <b>4</b> | <b>3</b> | <b>2</b>   | <b>60</b>               | <b>1</b> | <b>2</b>   |

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

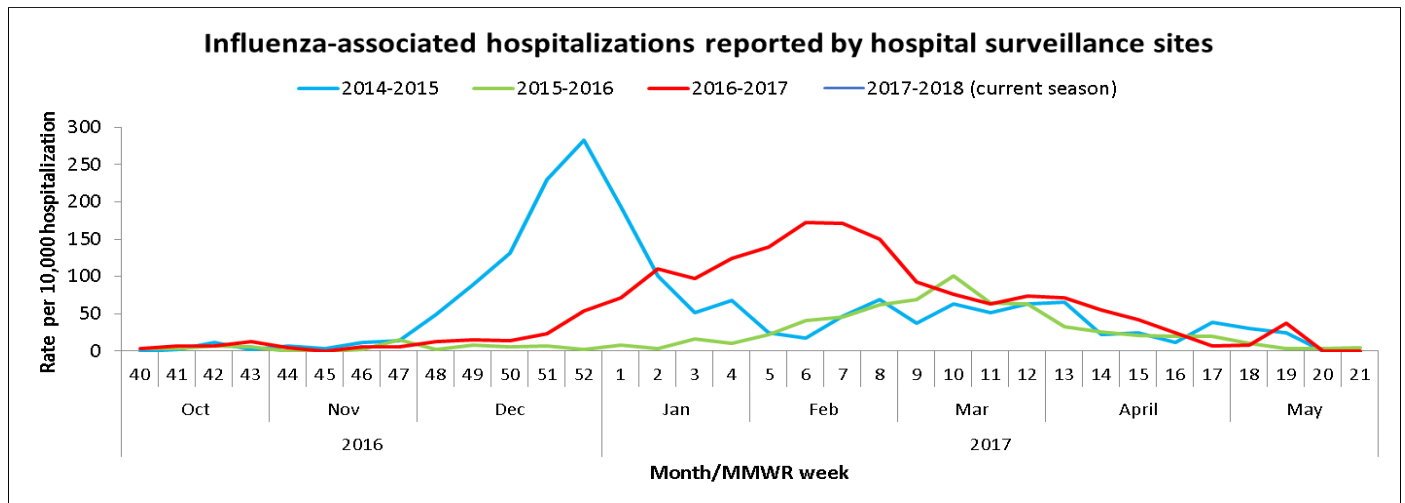


**Influenza-associated hospitalizations:**

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) or more information.

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

| AGE          | CURRENT WEEK | CUMULATIVE (10/1/17 – 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>                            |



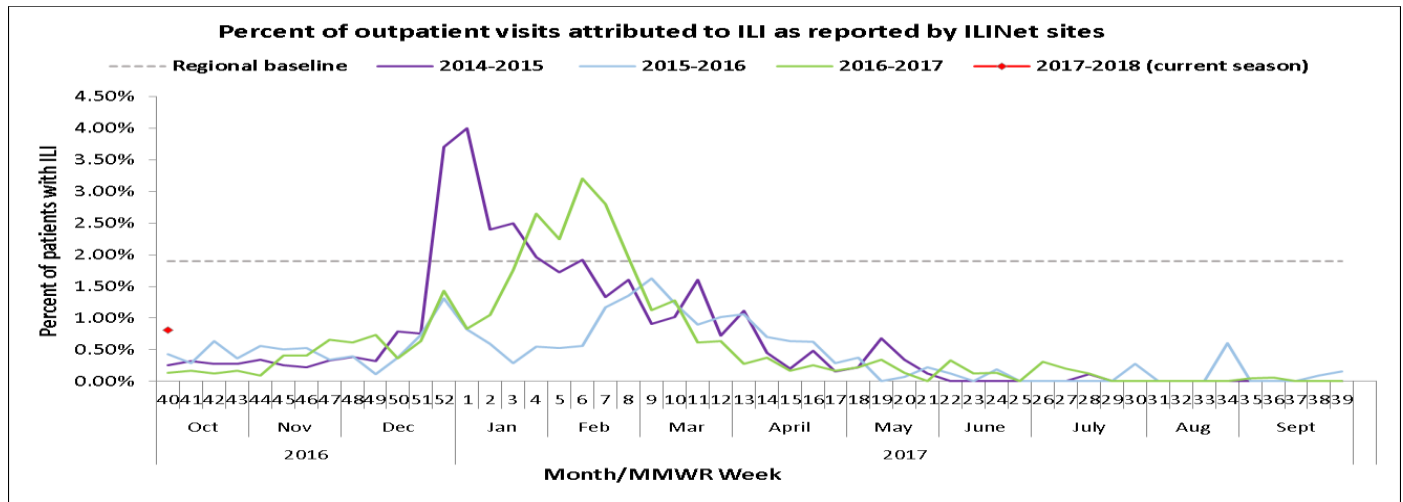
**Outpatient health care provider surveillance program (ILINet):**

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)**

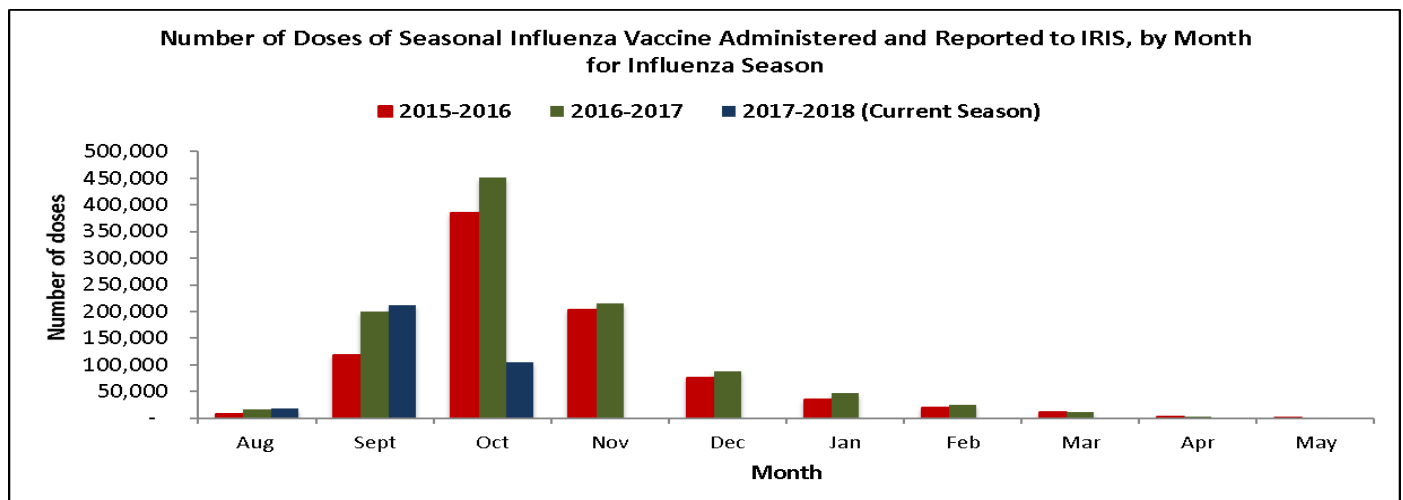
| Week                         | Age 0-4 | Age 5-24 | Age 25-49 | Age 50-64 | Age >64 | %ILI | Total ILI |
|------------------------------|---------|----------|-----------|-----------|---------|------|-----------|
| <b>Week 40, ending May 6</b> | 3       | 5        | 3         | 1         | 0       | 0.81 | 12        |

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 2017-2018 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 (10/2/17 – 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.

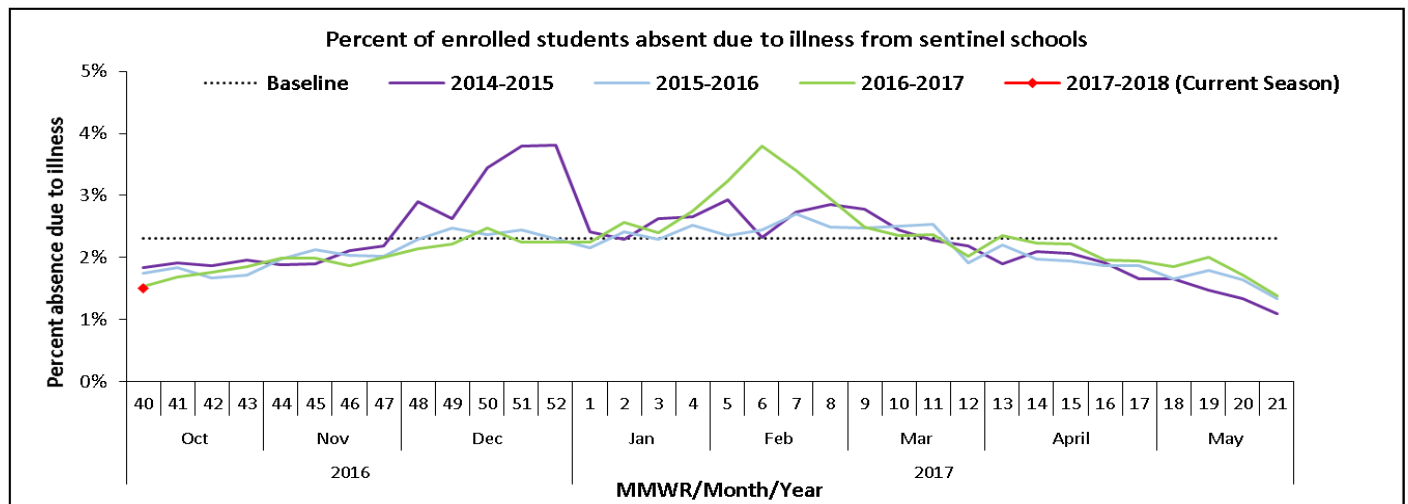
**School surveillance program**

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.

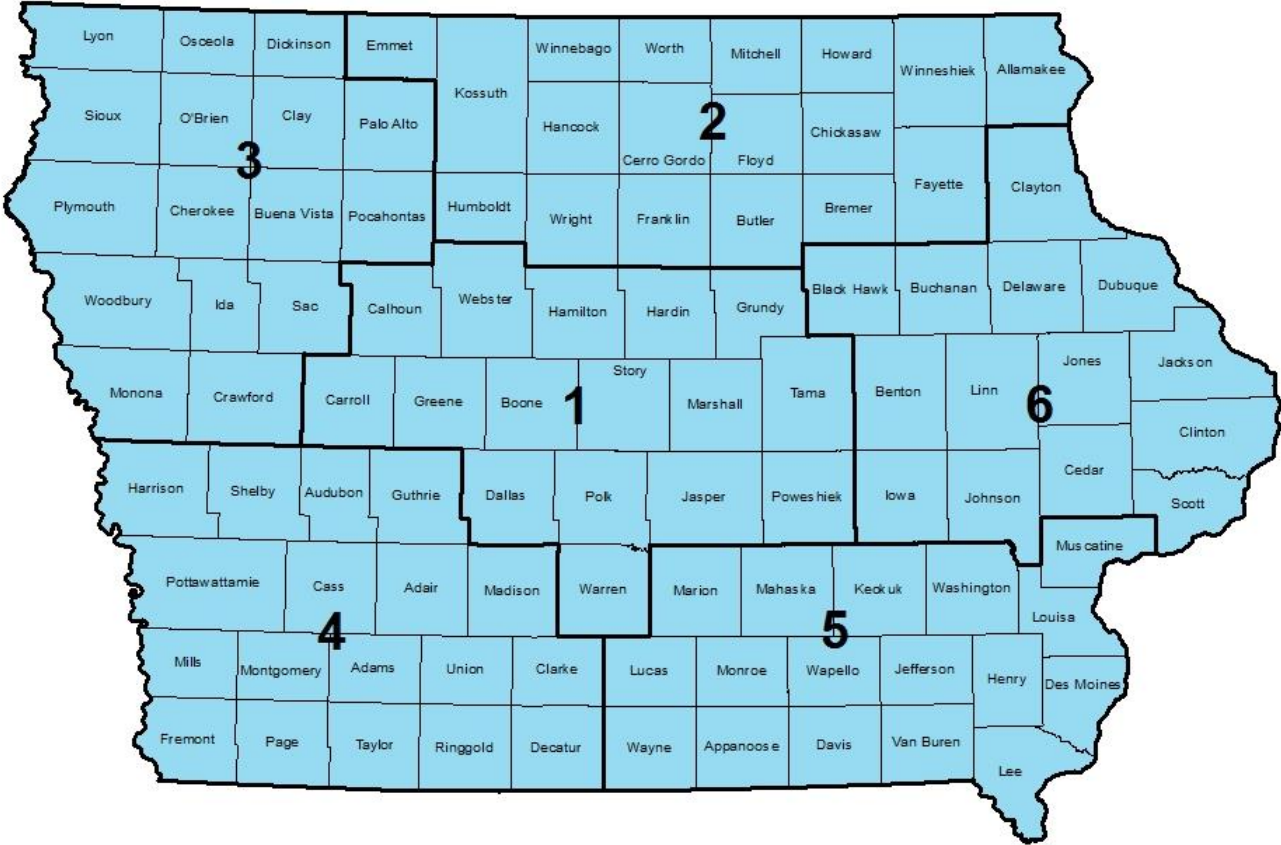
**Table 7: Number of schools reporting >10% absenteeism due to any illness**

| REGION             | CURRENT WEEK | CUMULATIVE (10/2/17 – 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



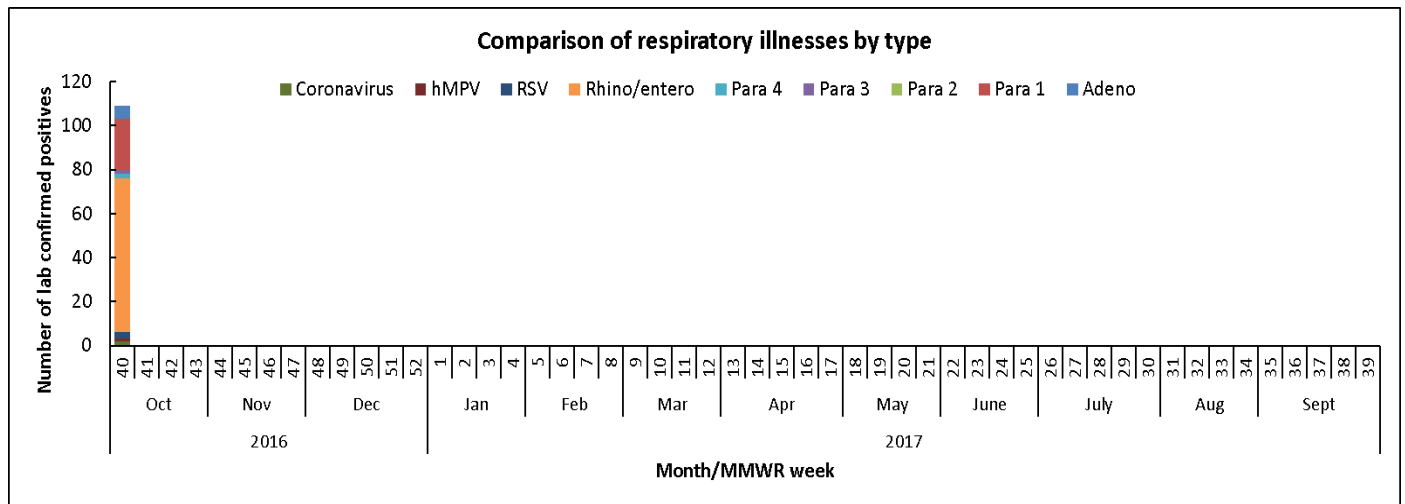


**Non-influenza respiratory viruses:**

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 (10/1/17 – CURRENT WEEK) |
|-----------------------------------|--------------|-------------------------------------|
| Adenovirus                        | 6            | 6                                   |
| Parainfluenza Virus Type 1        | 23           | 23                                  |
| Parainfluenza Virus Type 2        | 0            | 0                                   |
| Parainfluenza Virus Type 3        | 2            | 2                                   |
| Parainfluenza Virus Type 4        | 2            | 2                                   |
| Rhinovirus/Enterovirus            | 70           | 70                                  |
| Respiratory syncytial virus (RSV) | 3            | 3                                   |
| Human metapneumovirus (hMPV)      | 1            | 1                                   |
| Coronavirus                       | 2            | 2                                   |
| <b>Total</b>                      | <b>109</b>   | <b>109</b>                          |



**Other resources:**

**Vaccine:**

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

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)