

**Influenza Surveillance Report for Summit County, 2009-2010**  
**Report #3: Surveillance Week October 4 to October 10**  
**Centers for Disease Control and Prevention (CDC) Week 40**

**Influenza Activity in Summit County**

- EpiCenter has reported a steady increase in adult hospital emergency room visits over the past 2 weeks for respiratory and constitutional complaints.
- During the 2008-2009 season, the highest weekly respiratory and constitutional syndrome percentage was 23.3%. On October 7, 2009 it was 30.6% and the weekly average was 25.96%.
- Influenza activity continued to increase in Summit County.
- There continued to be an increase in the number of people diagnosed with influenza-like illness (ILI).
- The number of hospitalizations for influenza continued to increase.
- The number of lab tests being performed increased.
- There was a sharp increase in the number of absences reported by schools.
- Local health departments continued to receive calls about influenza-like illnesses in schools and community.
- Local health departments and some hospitals have begun receiving H1N1 vaccine for health care workers and first responders. There is a localized shortage of seasonal flu vaccine.

**Influenza Activity in Ohio**

- Ohio's influenza activity continues to be **widespread**. This refers to the geographic spread and not the severity of illness.
- Two pediatric influenza-associated deaths have occurred. Both had confirmed pandemic A (H1N1) 2009 infection.
- EpiCenter has reported a steady increase in adult emergency room visits for respiratory and constitutional illness. There was a 150% increase for constitutional syndrome and a 64% increase in respiratory syndrome in 2009 compared to 2008 at this time.
- Over-the-counter sales experienced a statistically significant deviation from the expected in 7 regions.
- There continues to be an increase in influenza-associated hospitalizations.
- For the 2009-2010 season, there have been 290 influenza-associated hospitalizations and 125 were laboratory confirmed 2009 pandemic A (H1N1).
- Year-to-date there have been 8 confirmed pandemic A (H1N1) 2009 influenza-related deaths.
- ODH has created a new URL for flu information: [www.flu.ohio.gov](http://www.flu.ohio.gov).

**Influenza Activity in U.S. CDC Week 40 (October 4 to 10)**

- 41 states reported **widespread** activity (increased by 4 from the previous week); 8 states and Guam had regional activity; and 1 state, District of Columbia and Puerto Rico had local influenza activity.
- CDC Week 40 is the official beginning of influenza season.
- All regions reported elevated levels of out-patients reporting ILI.
- Laboratory-confirmed influenza hospitalizations rates decreased in week 40.
- There were 11 influenza-associated pediatric deaths of which 10 were associated with 2009 pandemic A(H1N1) virus infection and 1 was associated with influenza A virus for which the subtype was not determined.
- There have been a total of 86 deaths in children associated with the 2009 pandemic A (H1N1) which have been reported to the CDC.
- The proportion of deaths attributed to influenza and pneumonia was above the epidemic threshold as reported to the 122-Cities Mortality Reporting System. (6.7% compared to the national threshold of 6.5%)

- 6.1 % of outpatient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness compared to the national baseline of 2.3 %.
- All 10 regions reported the proportion of outpatient visits for ILI were above their region-specific baseline levels.
- 13,921 specimens were tested and 4,093 (29.4%) were positive for influenza. Of the positive specimens, 4,093 (99.6%) were Influenza A. Out the Influenza A positives, 2,505 (61.4%) were 2009 pandemic A (H1N1).
- Influenza B virus co-circulated at low levels with 2009 pandemic A (H1N1).
- The majority of 2009 A (H1N1) viruses are susceptible to neuraminidase inhibitor antiviral medication oseltamivir but rare sporadic cases of oseltamivir resistant 2009 influenza A (H1N1) have been detected.
- All viruses tested remained sensitive to zanamivir.
- For additional information go to <http://www.cdc.gov/h1n1flu/updates/us/>

### Influenza Activity Worldwide

- As of October 11, the World Health Organization (WHO) reports there has been over 399,232 laboratory confirmed cases of 2009 pandemic A(H1N1) and 4,735 deaths.
- Most countries have stopped reporting individual cases therefore the number of cases is significantly lower than the number of cases that have occurred.
- In the northern temperate zones influenza activity continues to increase.
- Mexico has reported a high intensity and active transmission.
- Western Europe and Northern Asia reported increased ILI but not as widespread as North America. In China, half of influenza viruses detected were seasonal A (H3N2).
- In temperate regions of the southern hemisphere, influenza rates have all returned to below baseline levels and few detections of 2009 pandemic A (H1N1) have been reported.
- For additional information go to: <http://www.who.int/csr/disease/swineflu/en/index.html>

### Participants in Summit County Influenza Surveillance

17 medical providers	1 university health service	13 laboratories
1 workshop	6 nursing homes	Epicenter
3 pharmacy chains	3 residential institutions	
5 emergency departments	3 health departments- vital records offices	
31 private/public/charter schools and 7 districts (121 schools buildings)		

Number of influenza or influenza-like diagnoses by medical practitioners, emergency departments, university infirmary, nursing homes, institutions

Total number of absentees (diagnosis not specified) for selected elementary, middle, high schools and workshop

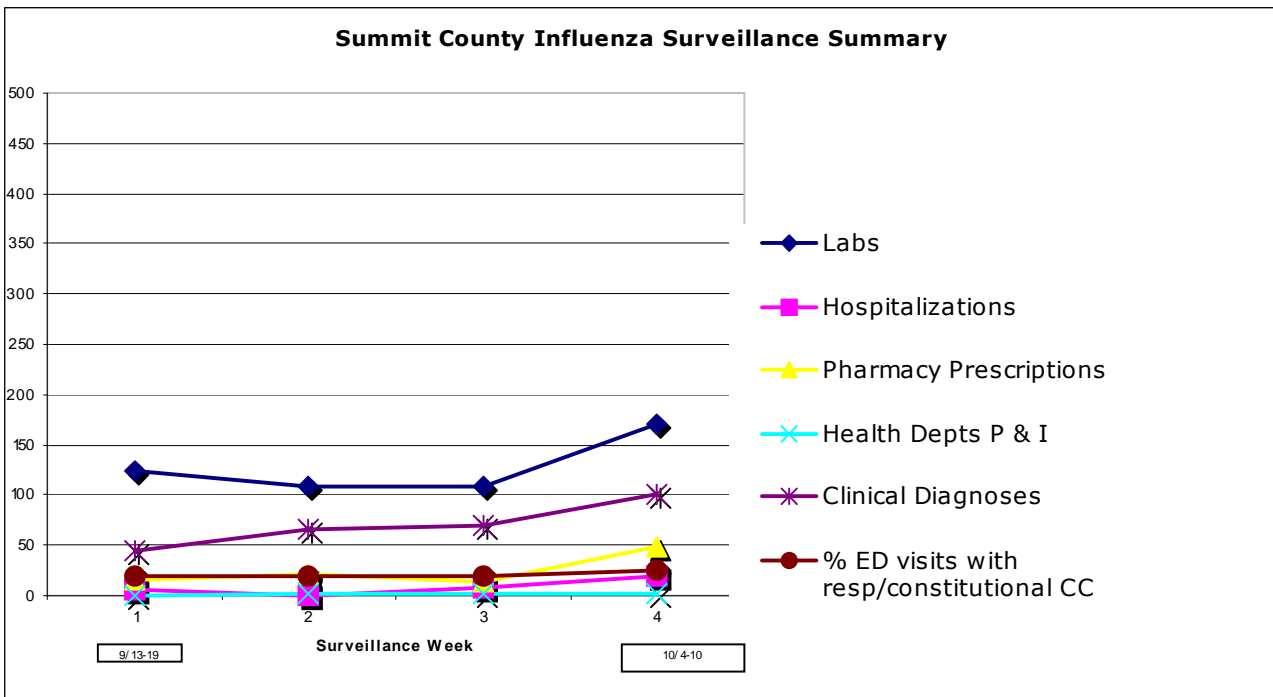
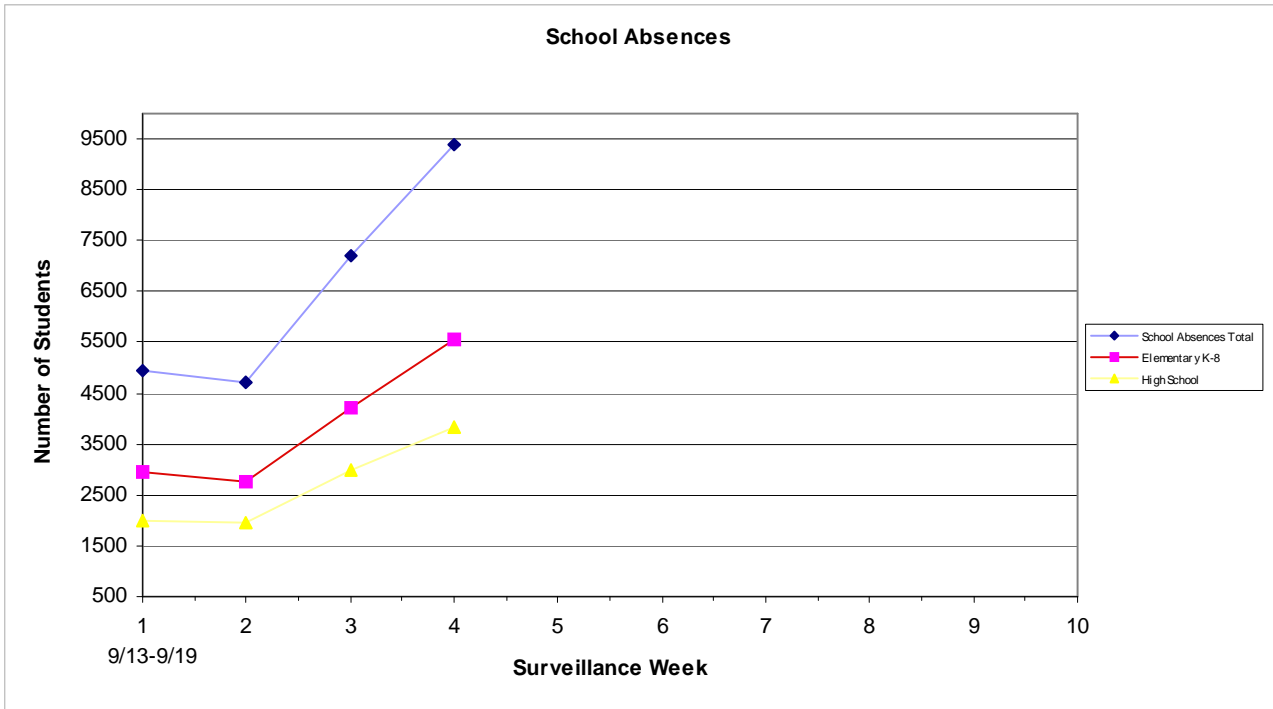
Number of positive influenza cultures and antigen tests from area labs

Total number of four influenza antiviral medications sold in pharmacy chains

Number of pneumonia/influenza deaths reported to CDC by the Akron Health Department, Barberton Health Department and Summit County Health District

Number of confirmed influenza hospitalizations at Summit County hospitals

The percent of respiratory & constitutional visits per week from two hospitals that electronically report ED visits which are categorized into respiratory or constitutional syndrome based on chief complaint.



This report was created by the Akron Health Department's Office of Epidemiology, on October 19, 2009. For questions, please contact Courtney Hudson at 330.375.2988 ext. 3122 or Michelle Papp at 330.375.2988 ext. 6717. Reporting from participants may not be complete each week. Numbers may change as updated reports are received. For information about influenza resources in Summit County, go to [www.summitflu.org](http://www.summitflu.org)