



STARK COUNTY INFLUENZA SNAPSHOT, WEEK 7

Week ending February 16 2013, with updates through 2/24/2013.

All data are preliminary and may change as additional information is received.

NOTE: Compilation of multiyear averages does not include the 2009/2010 H1N1 season.

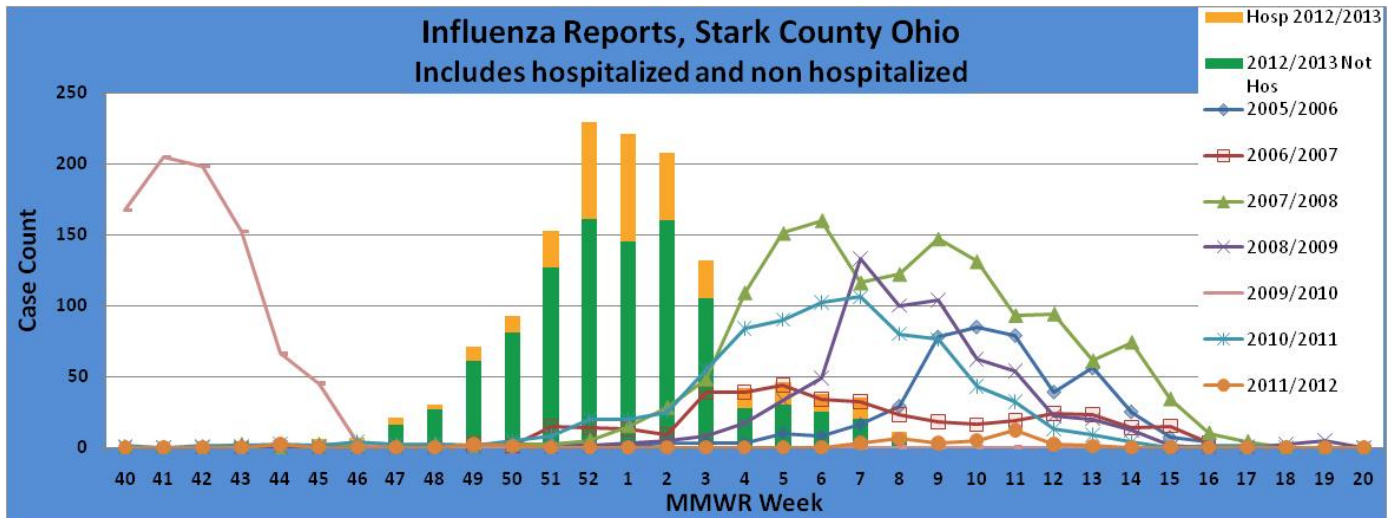
During week 7, (Feb 10 – 16, 2013) generalized influenza activity, remained nearly constant with the prior week. The state of Ohio remains at Widespread geographic activity. National influenza activity remained elevated in the United States, but decreased in most areas.

Information regarding surveillance indicators are detailed below:

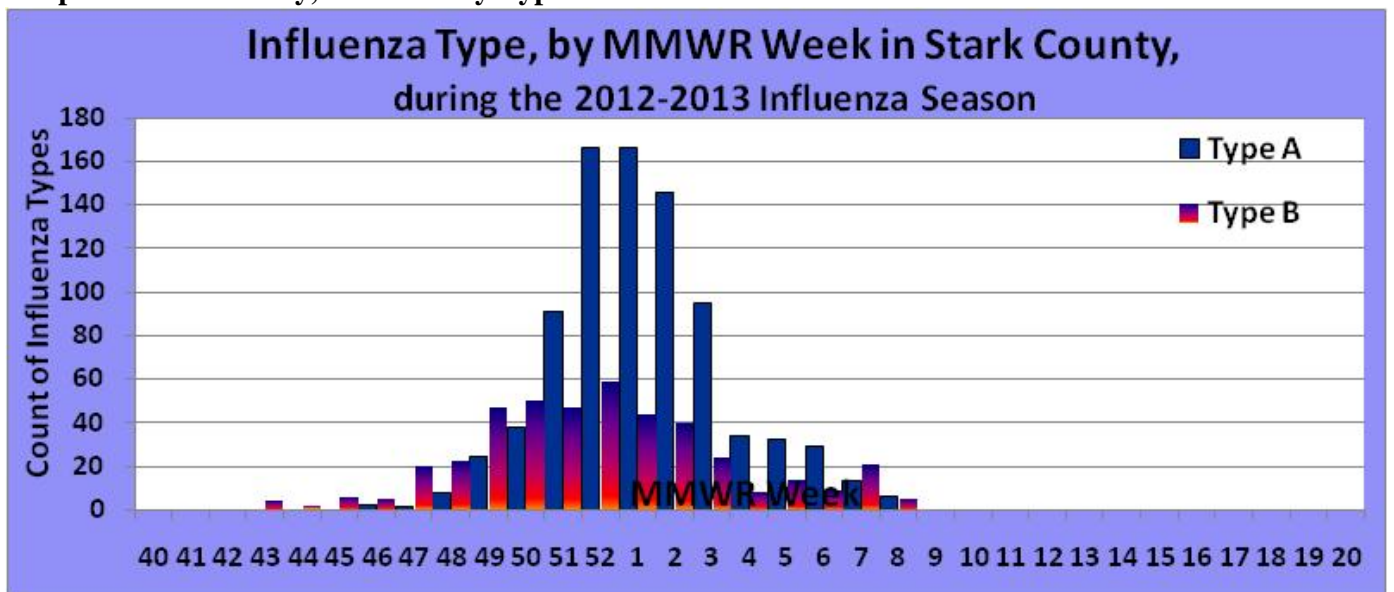
- **Fifteen Hospitalizations**, a slight **increase** from the 13 reported in week 6, and **twenty non-hospitalized** cases of influenza were reported in Stark County residents during week CDC week 7. Three hundred sixty-five (365) hospitalizations and 1019 non-hospitalized cases have been reported this season. (Graph 1)
- Days Hospitalized and Age: (NEW Information) The average number of days in the hospital for all age groups is 4.67 days with a range of 0-34 days and a median of 4. The average number of days hospitalized among 3 age categories is: 0 to 18 years 1.7 days, 19-64 years 4.18 days and for those 65 and over the average number of days hospitalized is 5.32. The age group with the highest rate of hospitalizations is 85+ at a rate of 79.4 per 10,000, in contrast the age group with the highest rate of positive lab results is 0-4 year old at a rate of 75 per 10,000. Cases range in age from 2 weeks to > 90 years. Hospitalized median age is 72 years and lab positive cases have a median age of 30 years.
- Influenza B was the predominant strain identified locally in both hospitalized and non-hospitalized positive reports (60%). (Graph 2) Nationally, the CDC has antigenically characterized 1,185 influenza viruses collected by U.S. laboratories since October 1, 2012: Eighty-six (7.25%) 2009 H1N1 viruses, 744 (62.78%) influenza A (H3N2) viruses, and 355 (29%) influenza B viruses. Among the influenza B viruses 251 (70.7%) are from the Yamagata Lineage which is a part of this season's vaccine and 104 (29.3%) are Victoria Lineage.
- Week 6 indicators of outpatient activity of influenza-like-illness (ILI), as reported by Sentinel Providers **decreased** both nationally and locally. Local ILI was 1% and national ILI was 2.8%, which remains above the national baseline of 2.2%. (Graph 3)
- Emergency Departments (ED) and Stat Care Facilities in our surveillance network reported slight **increases** in both Constitutional or Respiratory (C & R) Syndrome visits and Influenza-Like-Illness (ILI) + Fever syndrome. However, both of these syndromes subsequently dropped in week 8. (Graph4)
- Over-The-Counter sales of Thermometers and Cough and Cold products remain below baseline. Thermometer sales decreased 18% and Cough & Cold products increased 2%. (Graph 5)
- School absenteeism **decreased** during week 7. With 46 schools reporting, the median percentage of school absenteeism is 2.5%.
- During week 7, the State of Ohio geographic level of influenza activity remained at widespread. Nationally, widespread geographic activity was reported by 22 states (down from 32 in week 6), regional activity by 21 states, local activity was reported by 6 states, and sporadic activity by one state. (See Map)
- During CDC Week 7, National Pneumonia and Influenza (P & I) Mortality Surveillance of all deaths reported through the 122 Cities Mortality Reporting System as due to P & I, **decreased** slightly to 8.6%. This remains above the P & I epidemic threshold, currently at 7.5%.
- Nationally, fourteen influenza-associated pediatric deaths were reported to CDC during week 7. Three were associated with influenza A (H3), two were associated with 2009 H1N1 viruses, two were associated with an influenza A virus for which the subtype was not determined, six were associated with influenza B viruses, and one was associated with a combination of both influenza A and B. **Four** pediatric deaths have been reported from Ohio this season, and the nation has experienced 78.

For questions, or to receive this report weekly by email, send requests to either chenning@cantonhealth.org or drinkardl@starkhealth.org.

Graph 1: Influenza Cases reported to Local Health Departments Note, Influenza is only reportable if associated with a hospitalization; therefore, this only represents a small number of actual influenza cases in Stark County.

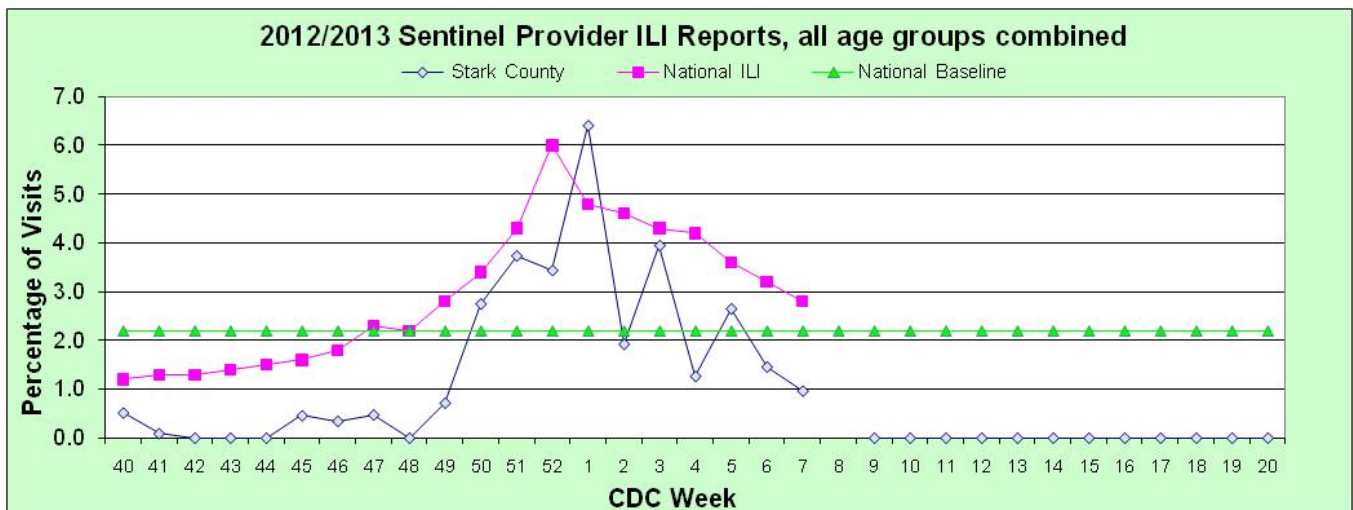


Graph 2: Stark County, Influenza by Type.



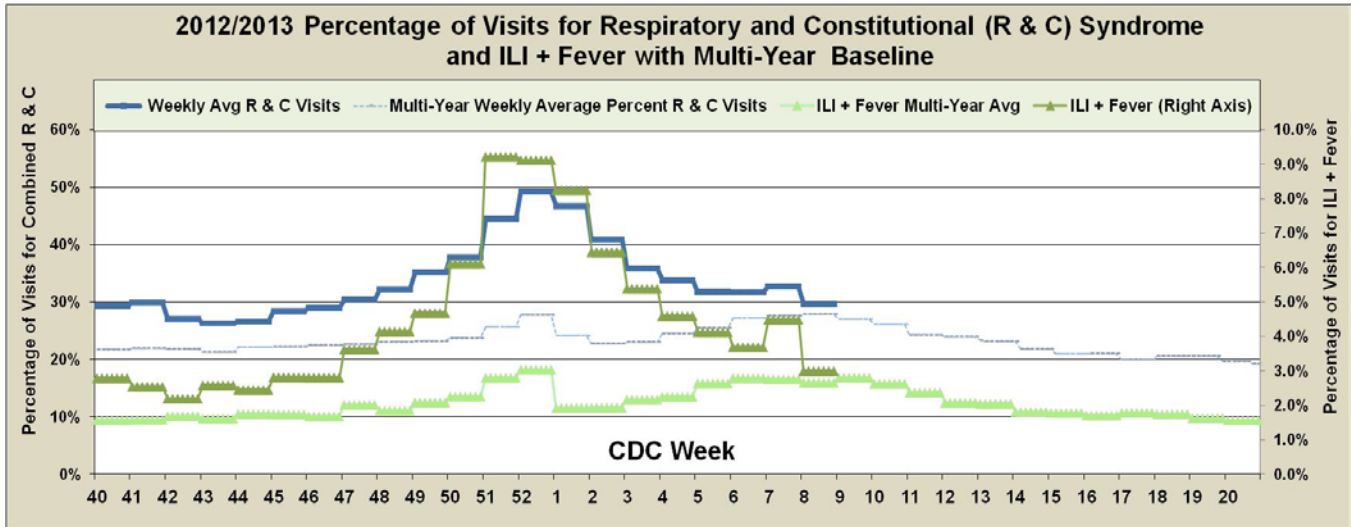
Graph 3: Sentinel Provider Reported Influenza-Like-Illness in Stark County

Sentinel Providers-An influenza sentinel provider conducts surveillance for influenza-like illness (ILI) in collaboration with the state health department and the Centers for Disease Control and Prevention (CDC). Data reported by Stark Counties 4 providers are combined with other influenza surveillance data to provide a national picture of influenza virus and ILI activity.



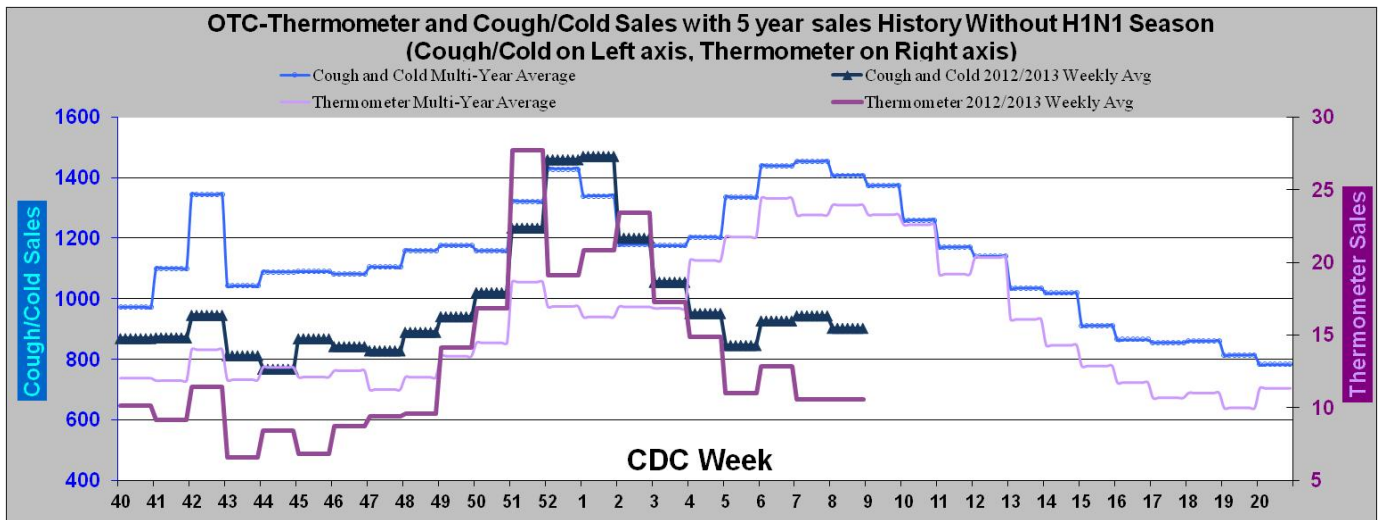
Graph 4: Emergency Department Visits for combined Respiratory and Constitutional Syndromes

(Source Health Monitoring Systems, EpiCenter, hospital and stat care patient registration surveillance system)



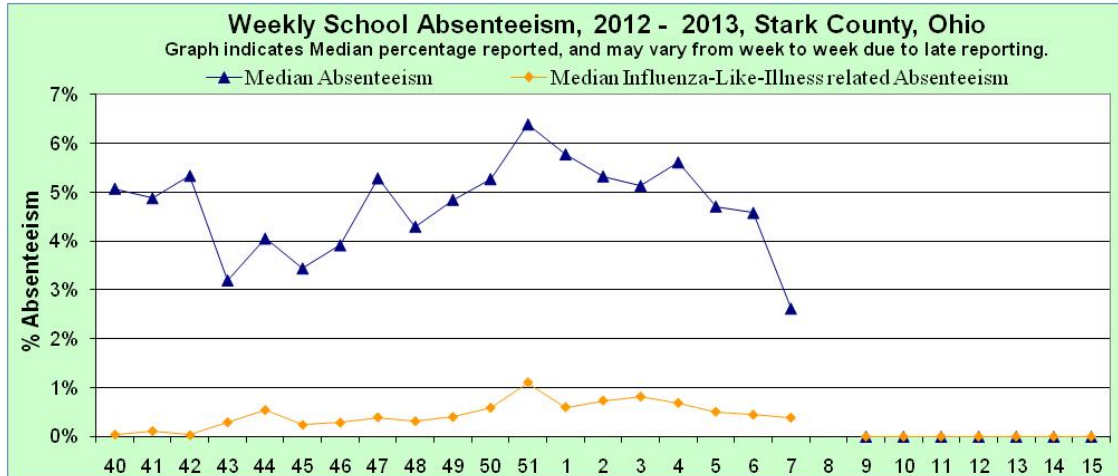
Graph 5: Over-The-Counter Sales of Cough/Cold Product Sales in Stark County Over-The-Counter Sales of Thermometers in Stark County

Source: RODS Real time Outbreak Disease Surveillance, Retail pharmaceutical sales.

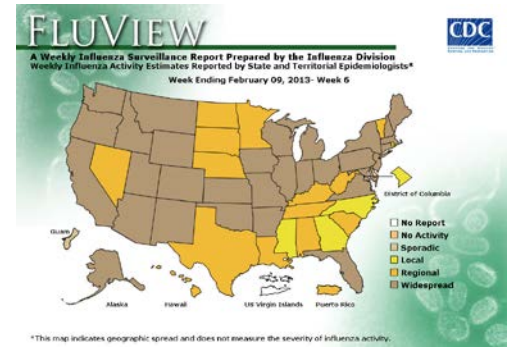


Graph 6: Stark County School

Source: Voluntary reporting by multiple school districts throughout the county.

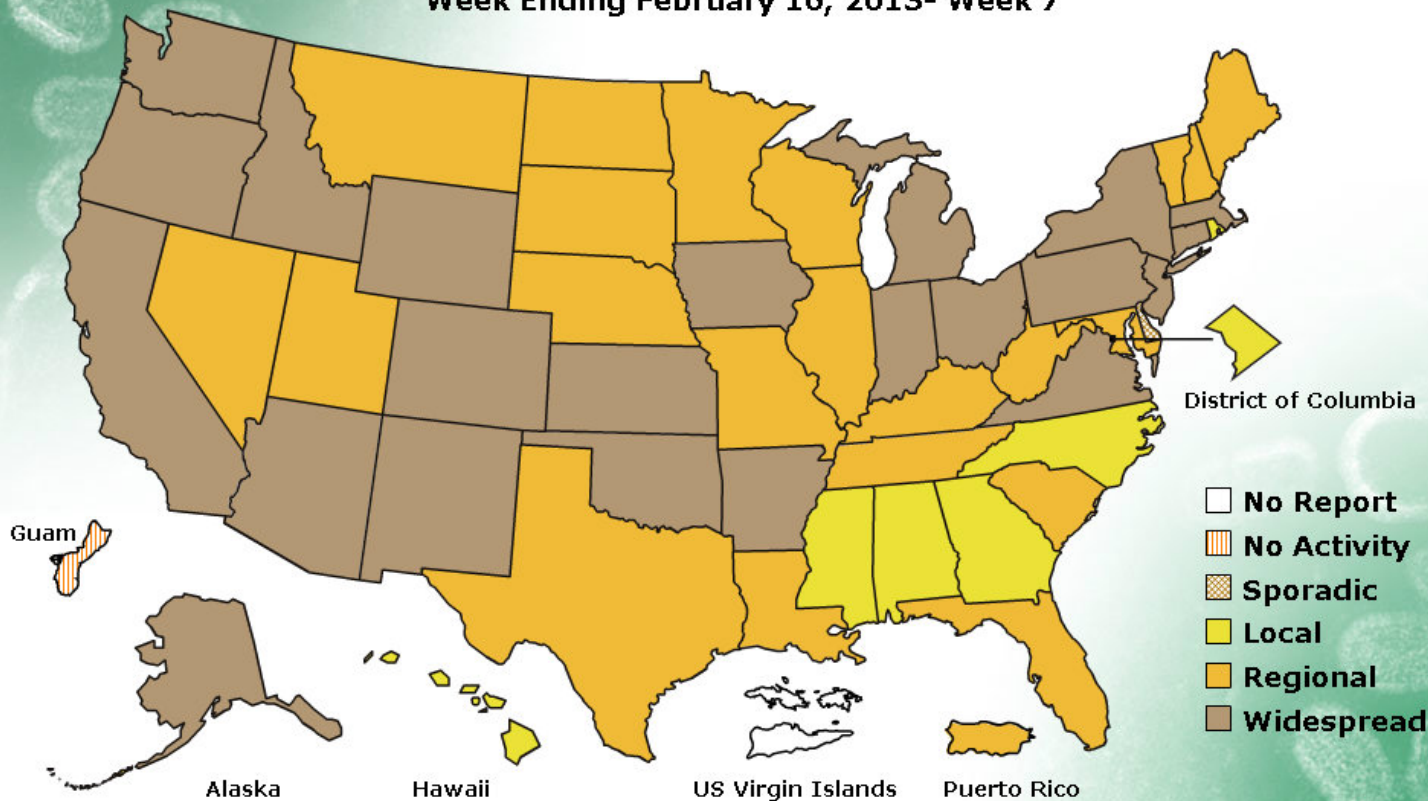


Map: Weekly Geographic Influenza Activity Estimates Reported by State and Territorial Epidemiologists
 (Inset is previous week)



FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*
 Week Ending February 16, 2013- Week 7



*This map indicates geographic spread and does not measure the severity of influenza activity.

Sources of Influenza Surveillance Data

Six types of data sources are examined on a weekly basis to help paint a picture of influenza activity in our community:

- **Emergency Department Visits (EpiCenter):** EpiCenter collects emergency department chief complaint data from 4 hospital facilities and 5 Stat Cares across Stark County in real time and classifies them into symptom and syndrome categories. Chief complaints from the combined constitutional and respiratory syndrome category and the fever + ILI symptoms classifier are analyzed for influenza surveillance. Secure sign in source: <https://epicenter.hmsinc.com/epicenter/login.html>.
- **National Retail Data Monitor (NRDM)-OTC Drug Purchases:** The NRDM collects over-the-counter (OTC) drug sales information from approximately 1,420 Ohio chain drug stores and grocery stores. For influenza surveillance, thermometer and adult cold relief sales are monitored on a weekly basis from sales in Stark County. Secure sign in source: <https://www.rods.pitt.edu/rods3/>.
- **Sentinel Providers (ILINet):** Sentinel providers, through the US Influenza-like Illness Surveillance Network (ILINet), collect outpatient ILI data. Providers report the total number of patients seen and the number of patients with ILI by age group on a weekly basis. Sentinel providers also submit specimens for influenza testing to the ODH laboratory throughout the influenza season. There are 68 sentinel providers enrolled in Ohio and 3 in Stark County for the 2011-2012 season. Source: Ohio Department of Health Influenza Surveillance Coordinator.
- **ODH and Local Laboratory Surveillance:** The Ohio Department of Health Laboratory reports the number of specimens that test positive for influenza each week. Generally, specimens are submitted by sentinel provider participants. A subset of the positive specimens is sent to CDC for further testing during the season. Laboratory reports from larger physician practices and hospital laboratories in the county are voluntarily submitted each week to the four health departments. They may include age, zip code, and race and help to describe the demographic pattern of illness and type of influenza circulating in the community. Source for ODH information: <http://www.odh.ohio.gov/features/odhfeatures/seasflu/ohfluactivity.aspx> and individual medical and laboratory reports.
- **Influenza-associated Hospitalizations (ODRS):** Influenza-associated hospitalizations are reported to the four local health departments and hospitals by direct entry into the Ohio Disease Reporting System (ODRS). Hospitalizations can be used as an indicator of the severity of illness during a particular influenza season. This condition became reportable in 2009. Secure sign in source: <https://odhgateway.odh.ohio.gov/singlesignon/>.
- **School Absenteeism, total and ILI:** Numerous school systems of various sizes in Stark County report the number of students absent for medical reasons and for specific medical conditions including ILI. Increases in school absenteeism for ILI are often an early indicator to larger community trends. Source: Individual school reporting.