



STARK COUNTY INFLUENZA SNAPSHOT, WEEK 11

Week ending 21 March, 2009. With updates through 03/29/2009.

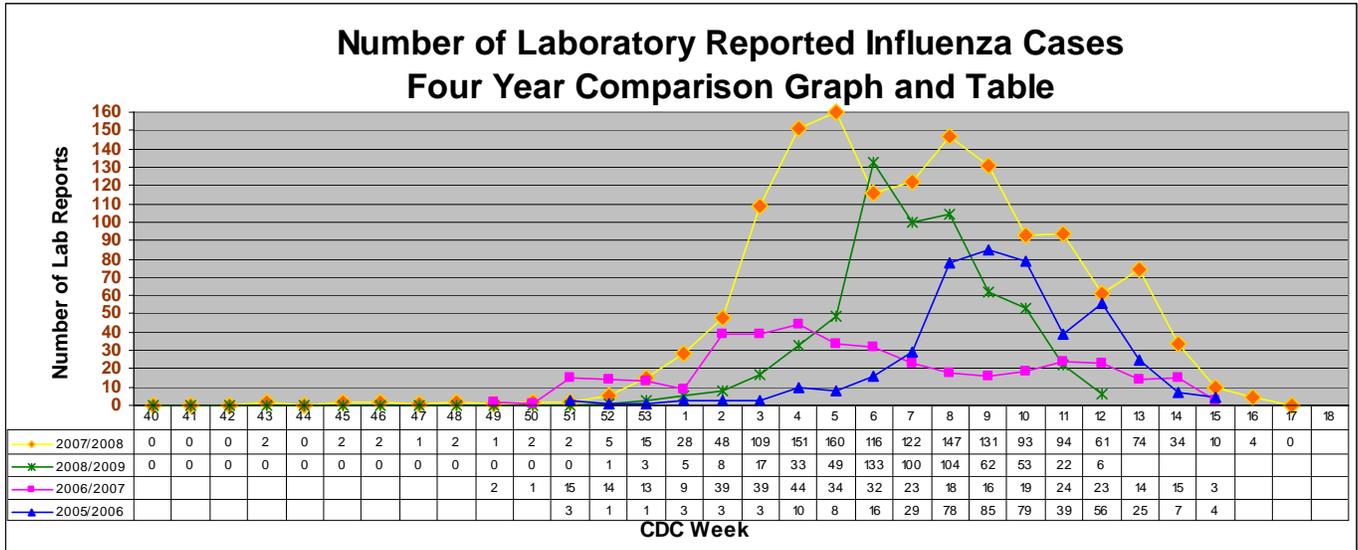
During week 11, countywide indicators confirmed declining markers of influenza activity.

- In week 11, 22 individuals tested positive for influenza, a **decrease** from 53 seen in week 10. No Influenza-Associated Hospitalizations were reported, all 22 reports were laboratory confirmed non-hospitalized. (See graphs 1 & 2)
- Currently the Ohio Department of Health Laboratory is reporting 126 positive confirmed isolates (total through 3/24/09). Circulating Strains: (82) Influenza A/ (H1N1), (44) Influenza B/Malaysia-like; 14 and 6 respectively from Stark County. Antiviral Resistance testing from the CDC indicates Influenza A (H1N1) viruses from 42 states are resistant to **oseltamivir** so far this season. All oseltamivir resistant viruses tested are sensitive to adamantanes. Additionally, the adamantanes (amantadine and rimantadine) are not effective against influenza B viruses.
- Year-To-date reports indicate identification of **398 Type A and 199 Type B** viruses throughout Stark County. In week 11, Type B accounted for greater than 68% of all reports received and none of the influenza-associated hospitalizations. To date the Type B strain identified in Ohio is **NOT a match** to this year's vaccine. (See graph 3)
- Year-to-date, 597 medically identified cases have been reported in Stark County. Of those reported with age information, the age range is 1 month to 93 years with a mean of 27 years and a median of 23 years. This information differs significantly from influenza-associated hospitalizations, which have a mean of 45.6 and a median of 49 years. Additionally, the mean and median differ for Type A and Type B with a mean and median of 28 and 26 for Type A and 23.6 and 17 for Type B.
- School Absenteeism widely varied throughout the county, but on average remained steady.
- Nationally and locally, Sentinel Providers continue to report **decreased** influenza like activity. (See Graph 4)
- Real-Time Outbreak and Disease Surveillance (RODS) data reflected **declining** sales of both Cough/Cold products and Thermometers. (See Graph 5 and 6)
- Of 50 states reporting geographical influenza activity, 24 are reporting Widespread activity (a **decrease** from 30 last week), **Regional** activity was reported by 19 including Ohio, and local activity was seen in 6 states, and sporadic activity in 1 state. (See Map)

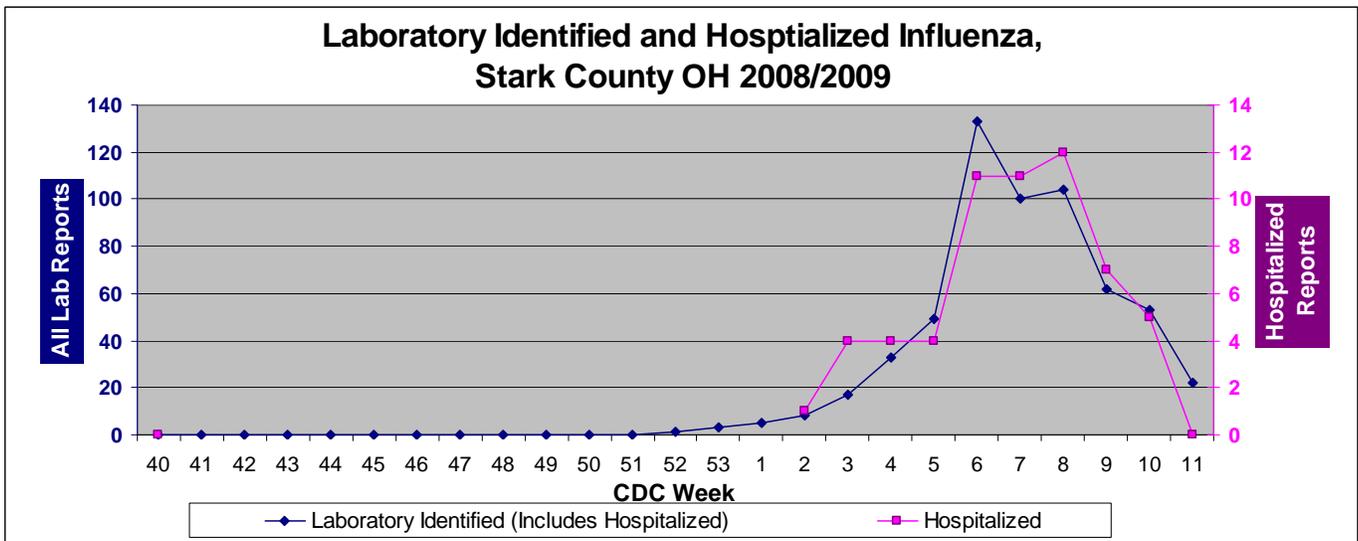
Regional activity is defined by ODH as increased ILI in ≥ 2 but less than half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions, OR institutional outbreaks (ILI or lab confirmed) in ≥ 2 but less than half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions.

- National Pneumonia and Influenza (P & I) Mortality Surveillance **increased** to 7.2% of all deaths reported through the 122 Cities Mortality Reporting System as due to P & I.
- Ohio confirmed the first two cases of confirmed influenza-associated pediatric mortalities: one a 17 year old female from Hamilton County with influenza A, and one from Brown County, a 15 year old male with influenza B (through 3/25/09). Nationally, a total of 35 Influenza-Associated Pediatric deaths have occurred this influenza season, this does not include current Ohio cases.

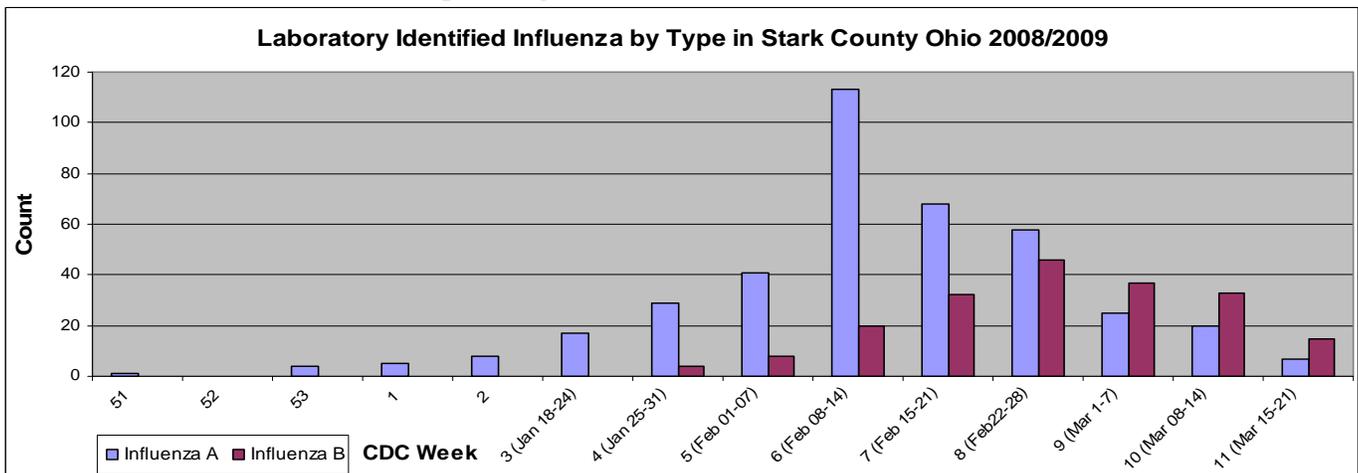
Graph 1: Number of medically identified cases of Influenza in Stark County, Ohio. (Cases reported from a medical provider or laboratory; established with a minimum of a rapid test confirmation).



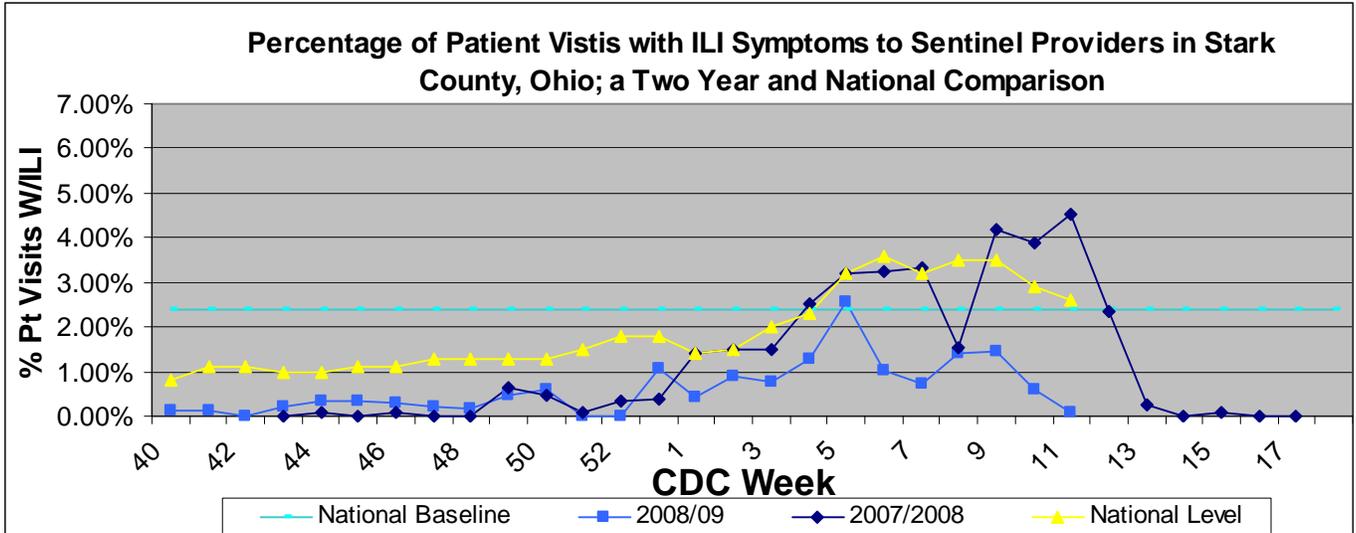
Graph 2: Number of Influenza-Associated Hospitalizations and medically identified cases of Influenza (cases reported from a medical provider or laboratory; established with a minimum of rapid test confirmation).



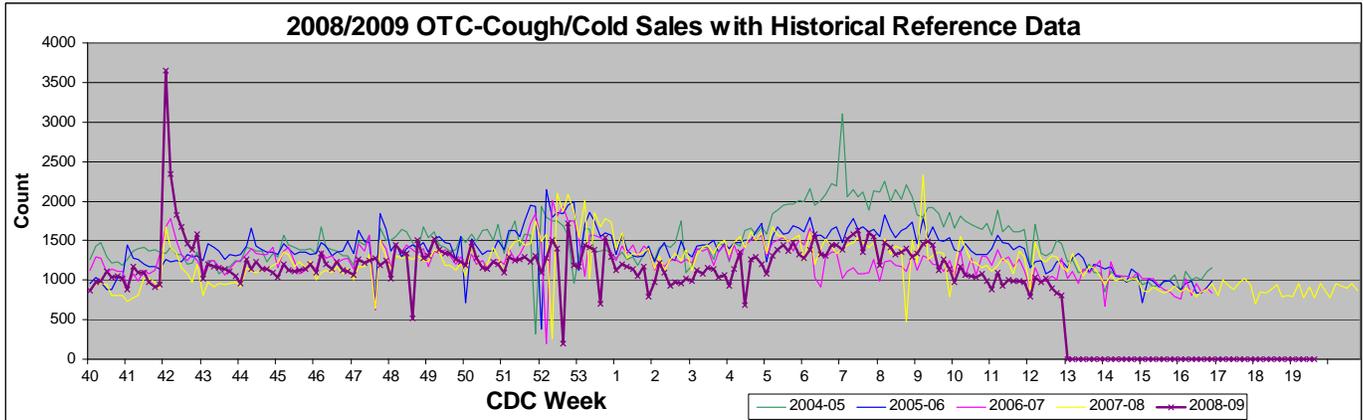
Graph 3: Laboratory Identified Influenza by Type in Stark County Ohio 2008/2009. (Laboratory identified includes Commercial Rapid Diagnostic Kits, EIA and Viral Cultures)



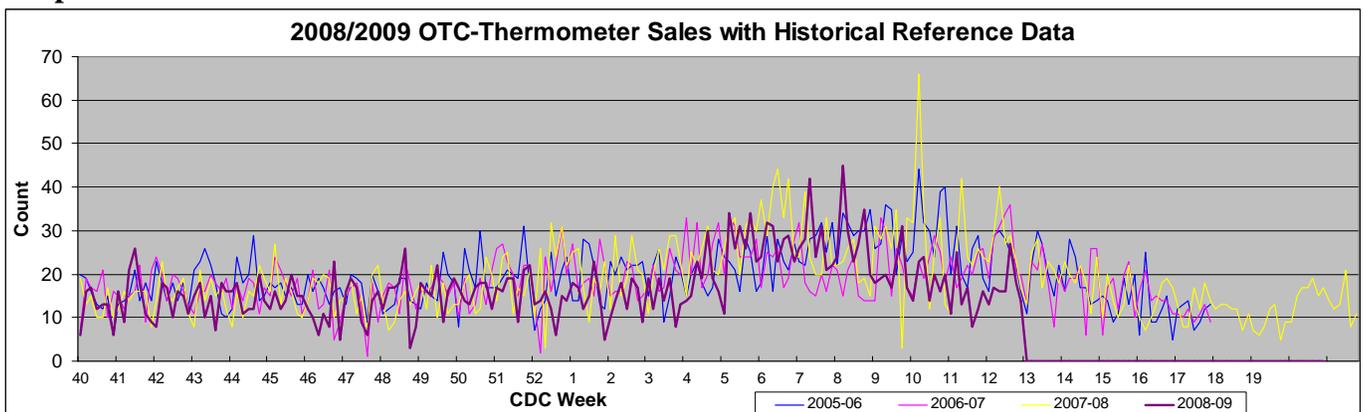
Graph 4: Sentinel Provider visits for ILI in Stark County Ohio and the Nation.



Graph 5 Sales of Over-The-Counter Cough and Cold Medications, as reported by RODS.



Graph 6 Sales of Over-The-Counter Thermometers



Map: National Influenza Activity. Source www.cdc.gov/flu/weekly

