



STARK COUNTY INFLUENZA SNAPSHOT, WEEK 13

Week ending 4 April, 2009. With updates through 04/12/2009.

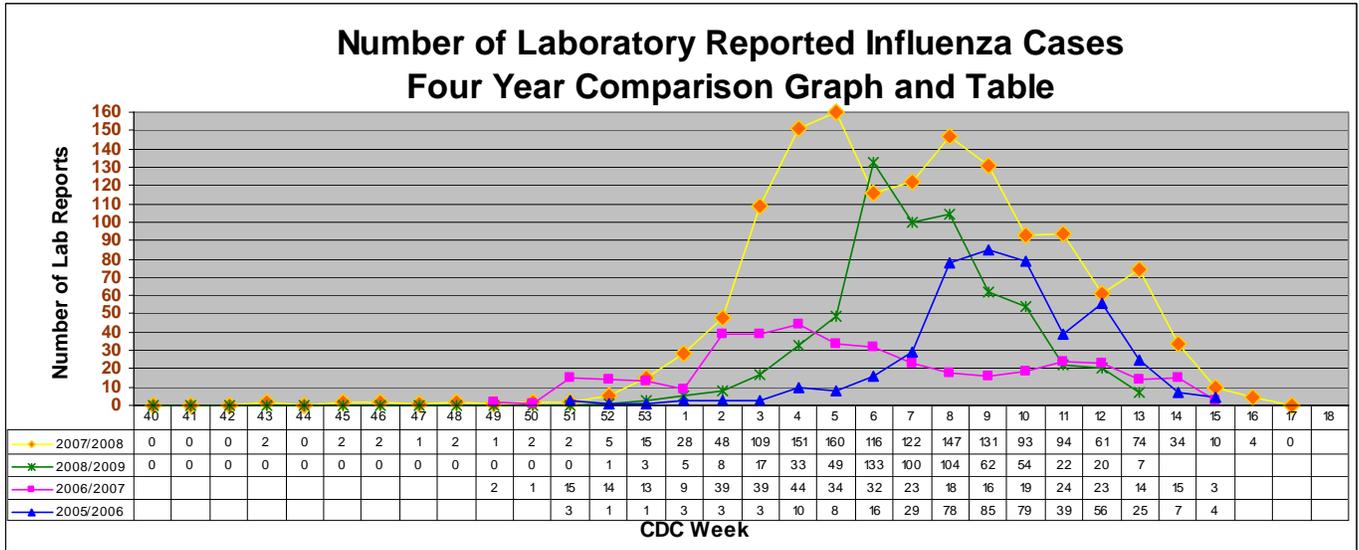
During week 13, countywide, state and national indicators confirmed declining markers of influenza activity.

- In week 13, 7 individuals tested positive for influenza, a **decrease** from 20 seen in week 12. For the 3rd week there were **NO** Influenza-Associated Hospitalizations reported. (See graphs 1 & 2)
- Currently the Ohio Department of Health Laboratory is reporting 139 positive confirmed isolates (total through 4/7/09). Circulating Strains: (88) Influenza A/ (H1N1), (51) Influenza B/Malaysia-like; 14 and 6 respectively from Stark County. Antiviral Resistance testing from the CDC indicates Influenza A (H1N1) viruses from 43 states are resistant to **oseltamivir** 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 **404 Type A and 216 Type B** viruses throughout Stark County. In week 13, Type B accounted for greater than 83% of all reports received. To date the Type B strain identified in Ohio is **NOT a match** to this year's vaccine. (See graph 3)
- Year-to-date, 621 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 28 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, median and mode differ for Type A and Type B with a mean, median and mode of 28.5, 27 and 7 for Type A and 24 and 18 and 17 for Type B.
- Nationally and locally, Sentinel Providers continue to report **decreased** influenza like activity. National Sentinel activity is below the baseline. (Note only 2 providers reported in week 13.) (See Graph 4)
- Real-Time Outbreak and Disease Surveillance (RODS) data reflected **declining** sales of thermometers and Cough/Cold products. (See Graph 5)
- The percentage of Emergency Department visits classified as Respiratory and Constitutional **decreased** in week 13. Recently added combined statistics continue to indicate ILI activity from Emergency Department data is approaching preseason levels. (See Graph 6)
- Of 49 states reporting geographical influenza activity, only 4 are reporting Widespread activity (a **decrease** from 13 last week), Regional activity was reported by 18, and **local** activity was seen in 20 states including Ohio, and sporadic activity in 7 states. (See Map)

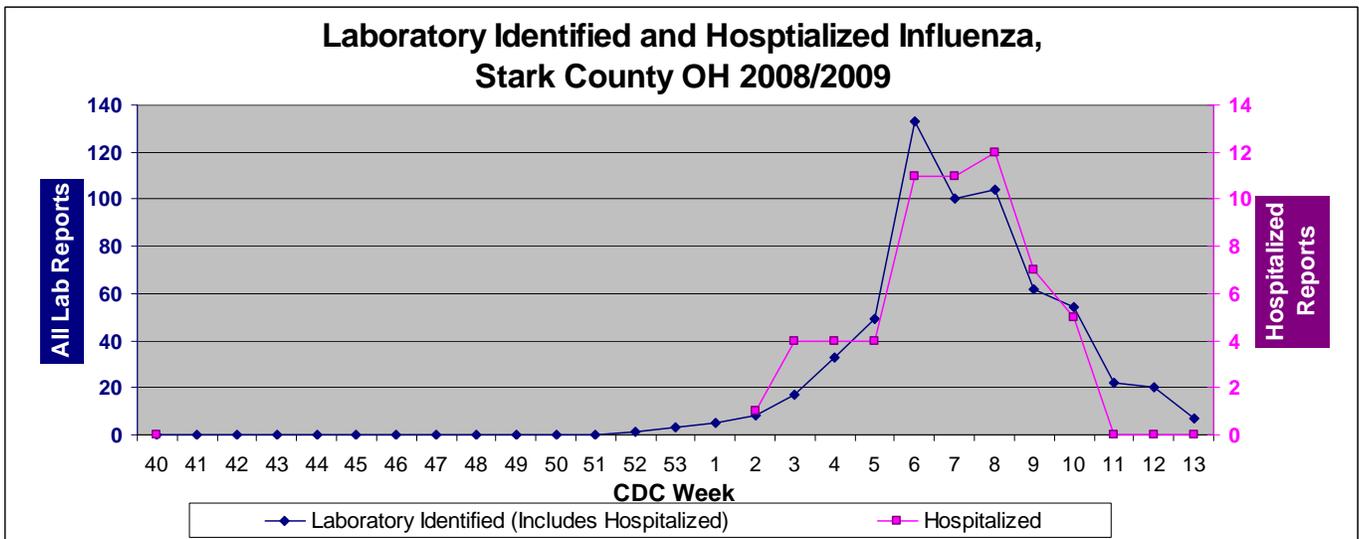
Definition for Local Activity: Increased ILI in 1 region; ILI activity in other regions is not increased AND recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI, OR 2 or more institutional outbreaks (ILI or lab confirmed) in 1 region; ILI activity in other regions is not increased AND recent (within the past 3 weeks) lab evidence of influenza in region with the outbreaks; virus activity is no greater than sporadic in other regions.

- National Pneumonia and Influenza (P & I) Mortality Surveillance **increased** slightly to 7.4% of all deaths reported through the 122 Cities Mortality Reporting System as due to P & I. This percentage is below the epidemic threshold of 7.8% for week 13.

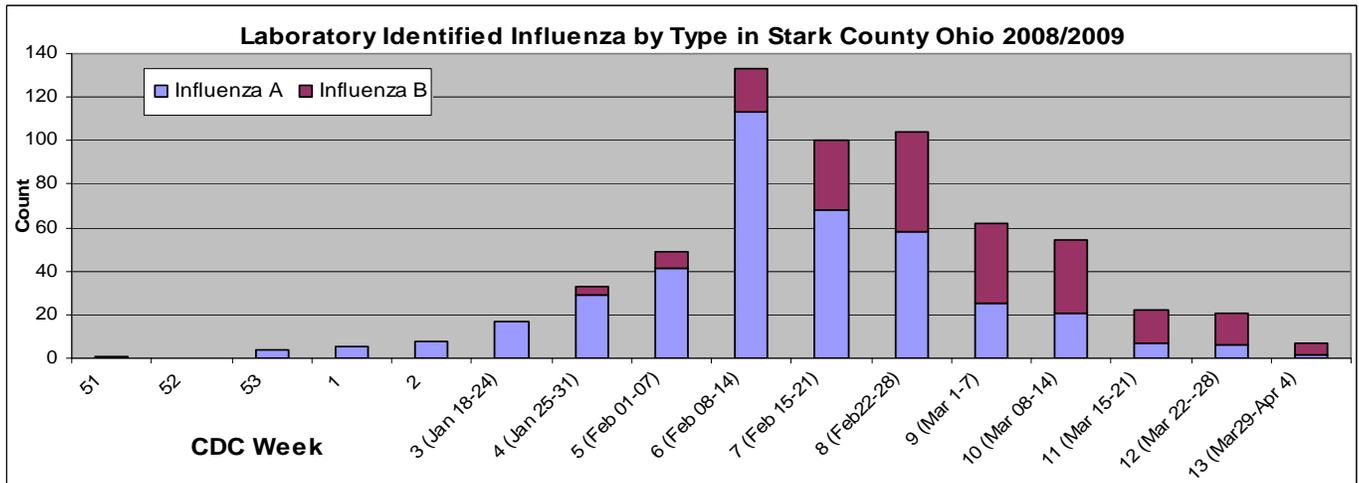
Graph 1: Number of medically identified cases of Influenza in Stark County, Ohio. (Cases reported from a medical provider or laboratory; established with a minimum of a rapid test confirmation).



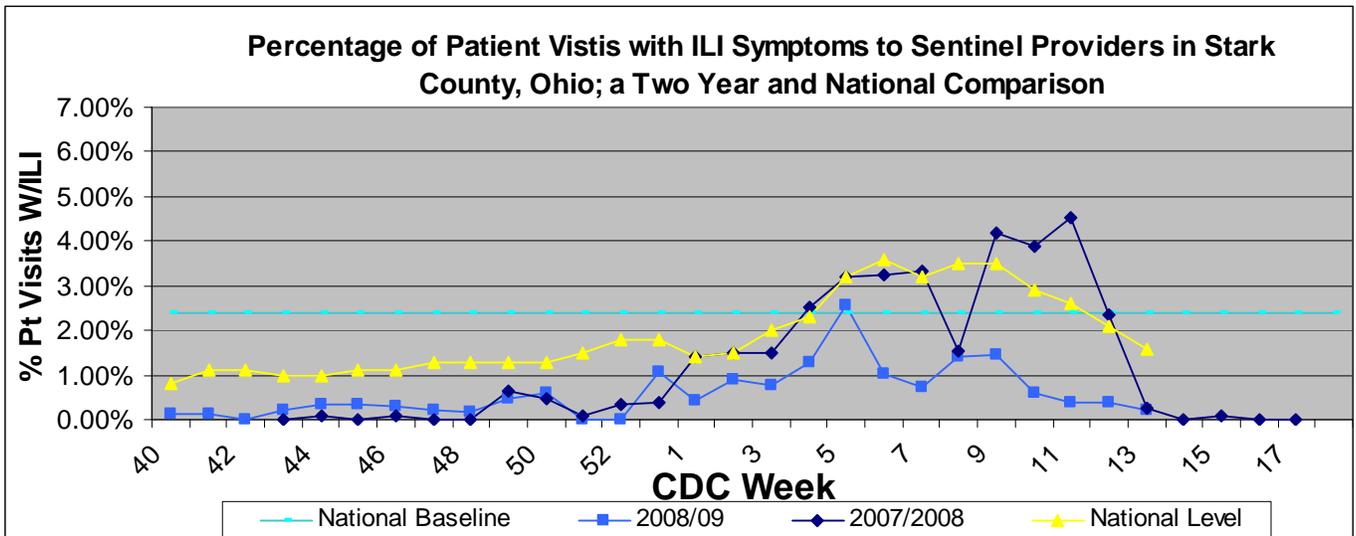
Graph 2: Number of Influenza-Associated Hospitalizations and medically identified cases of Influenza (cases reported from a medical provider or laboratory; established with a minimum of rapid test confirmation).



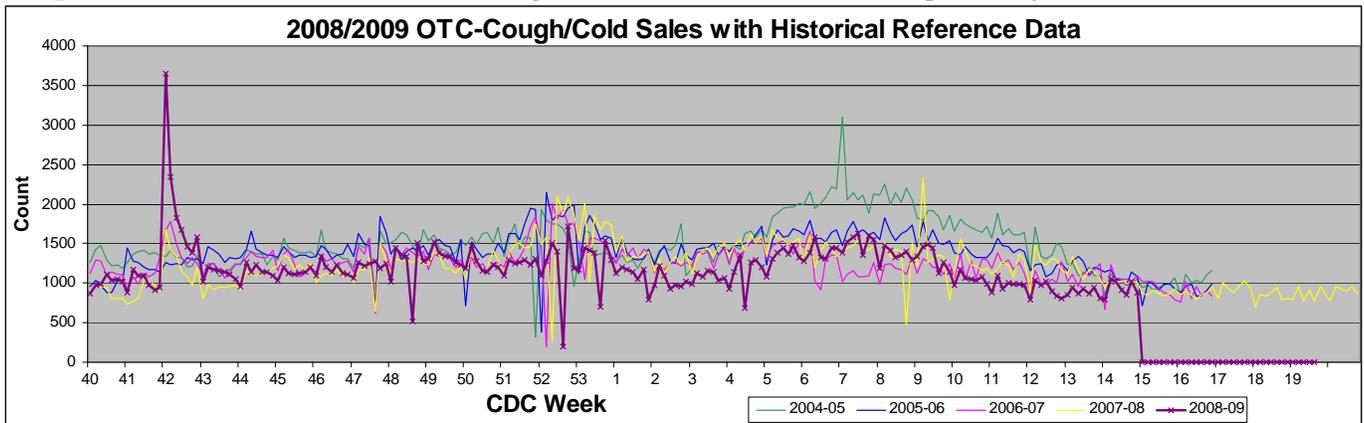
Graph 3: Laboratory Identified Influenza by Type in Stark County Ohio 2008/2009. (Laboratory identified includes Commercial Rapid Diagnostic Kits, EIA and Viral Cultures)



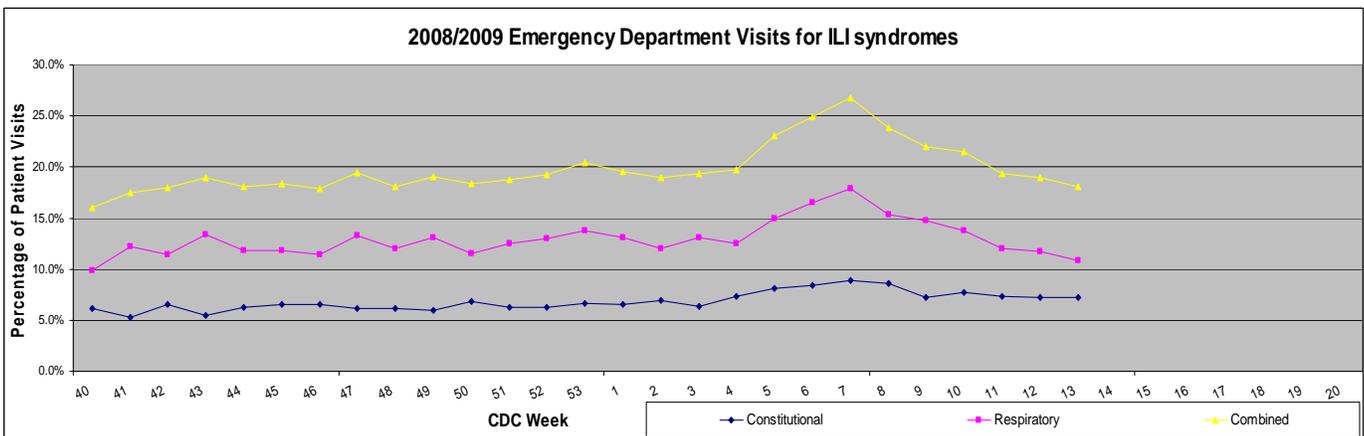
Graph 4: Sentinel Provider visits for ILI in Stark County Ohio and the Nation.



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



Graph 6 2008/2009 Emergency Department visits for syndromes associated with influenza like illness (Constitutional, Respiratory, and Combined)



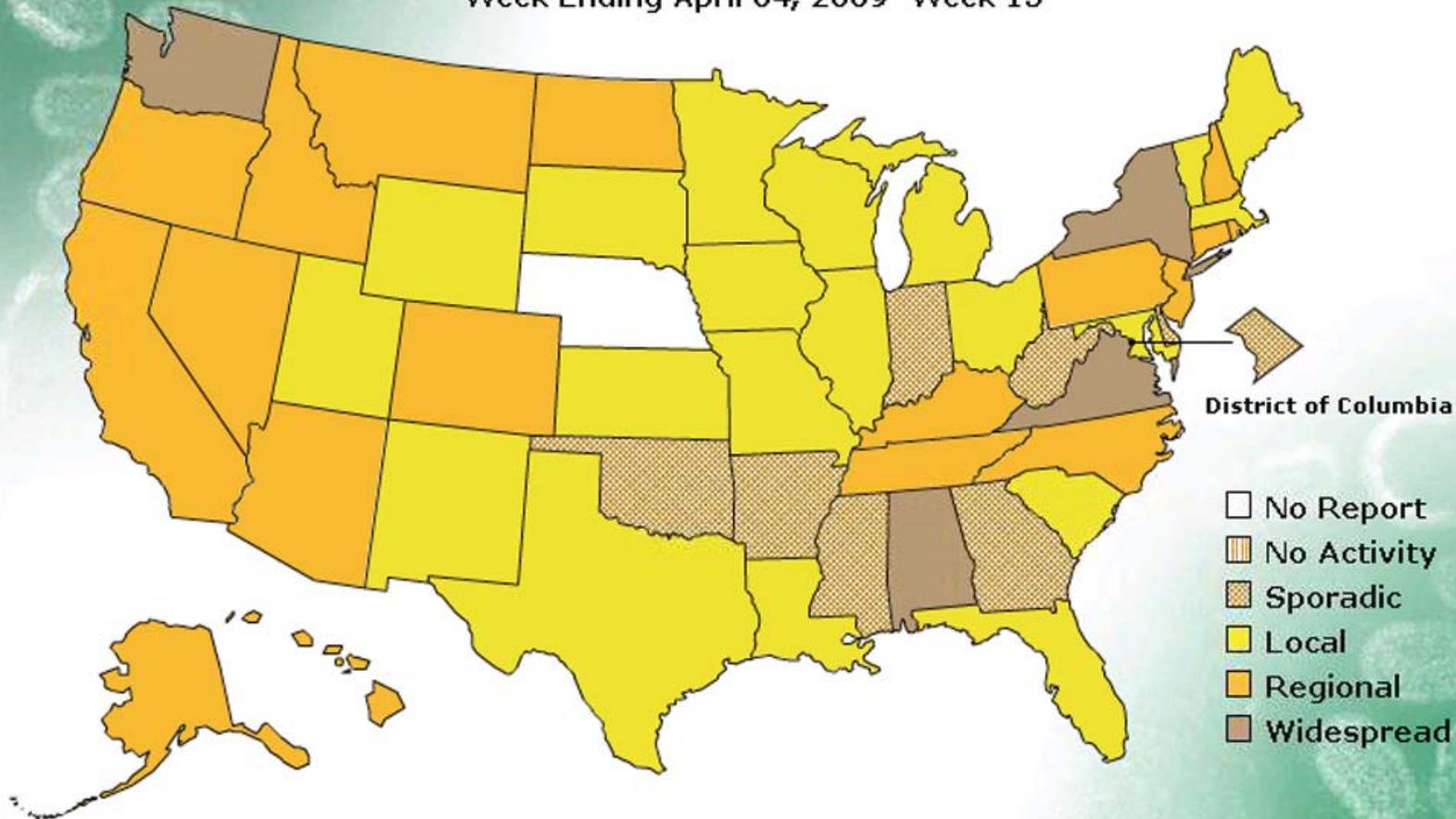
Map: National Influenza Activity. Source www.cdc.gov/flu/weekly

FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending April 04, 2009- Week 13



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