



STARK COUNTY INFLUENZA SNAPSHOT, WEEK 18

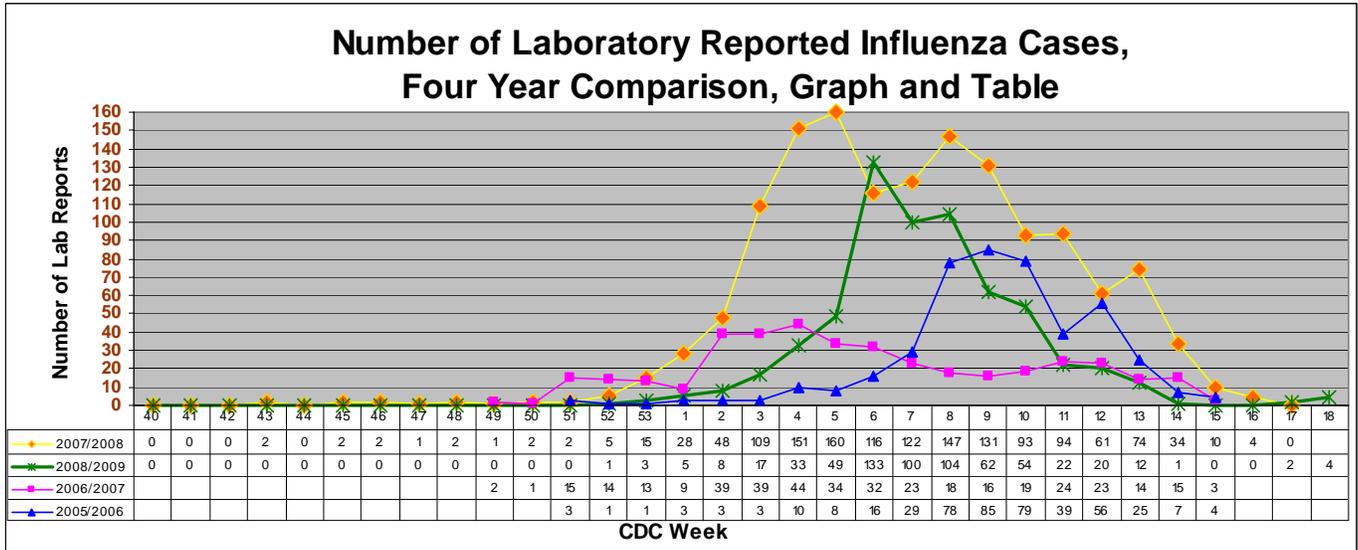
Week ending 09 May, 2009. With updates through 05/16/2009.

During week 18, countywide and state indicators confirmed very low markers of seasonal influenza activity, while several National indicators were elevated.

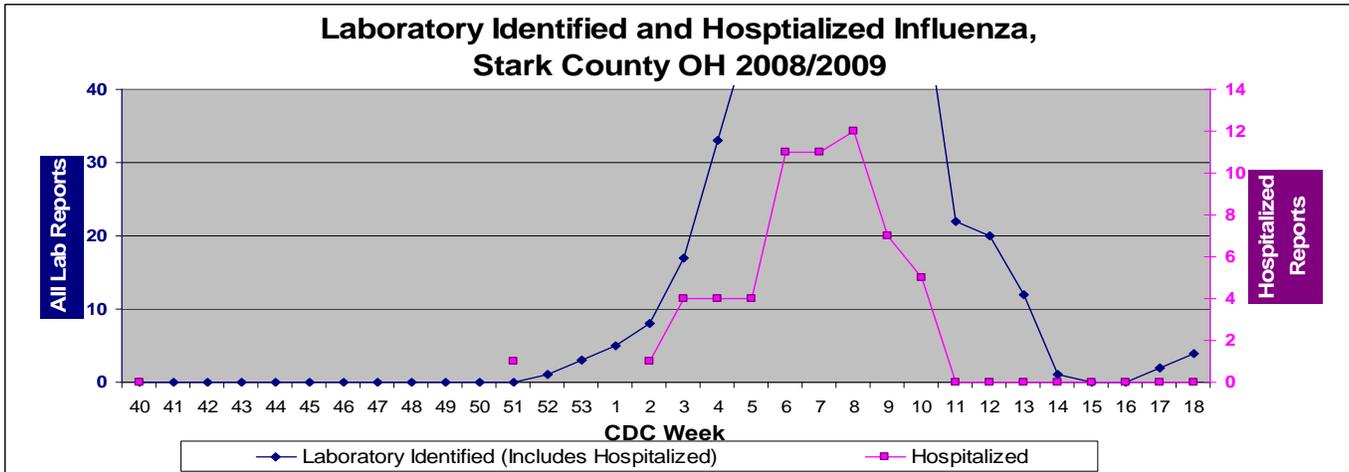
13 Cases of *Novel Influenza A (H1N1)* (referred to as *Novel H1N1*) have been confirmed in Ohio and Influenza A/H3 has also been identified for the first time this season.

- In week 18, there continues to be **NO** confirmed reports of *Novel H1N1* in Stark County, however, 3 **individual reports positive** for seasonal influenza were received. (See graph 1)
- For the 8th week, there were **NO** Influenza-Associated Hospitalizations. (See graph 2)
- Circulating Strains of Influenza virus in Ohio from the 19th of April to the 14th May: (13) *Novel H1N1*, (10) Influenza A/H1, (8) Influenza **A/H3***, (3) Influenza B. *This is the first time Influenza A/H3 has been identified in Ohio this season. Nationally about half of all influenza viruses being detected are *novel H1N1*.
- Antiviral Resistance testing from the CDC indicates the adamantanes (amantadine and rimantadine) are **not** effective against the newly identified *Novel H1N1* strain and influenza A (H3N2) as well as the influenza B viruses. All adamantanes resistant viruses are sensitive to oseltamivir. Additionally, Influenza A (H1N1) viruses are resistant to **oseltamivir** this season.
- Reports for week 18 indicated 2 Influenza Type A and 1 Influenza Type B viruses were circulating in Stark County. Year-To-date reports show identification of **410 Type A and 222 Type B** viruses throughout Stark County. (See graph 3)
- Year-to-date, 633 medically identified cases have been reported in Stark County, of which 60 were hospitalized. 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 from influenza-associated hospitalizations, which have a mean of 45.6 and a median of 49 years. *Novel H1N1* in Ohio has an age range of 9 to 47 years with a mean of 25, a median of 21, and a mode of 9 years.
- Three Local Sentinel Providers provided ILI data during week 18 and reported few visits for ILI. Nationally sentinel Providers reported visits **above** baseline levels. (See Graph 4)
- Real-Time Outbreak and Disease Surveillance (RODS) data reflected **declining** sales of both Cough/Cold products and thermometers, following a slight surge in week 17. (See Graph 5)
- The percentage of Emergency Department visits classified as Constitutional **decreased**, while Respiratory **increased** in week 18, leading to a slight increase in the combined ILI activity within Emergency Departments. Note Week 18 had very high mold and pollen activity which may have also affected Emergency Department visits for Respiratory illness complaints.
- Ohio continues to report Sporadic influenza activity. Definition of Sporadic Activity currently reported in Ohio: Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.
- 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. This percentage is **below** the epidemic threshold of 7.4% for week 18.

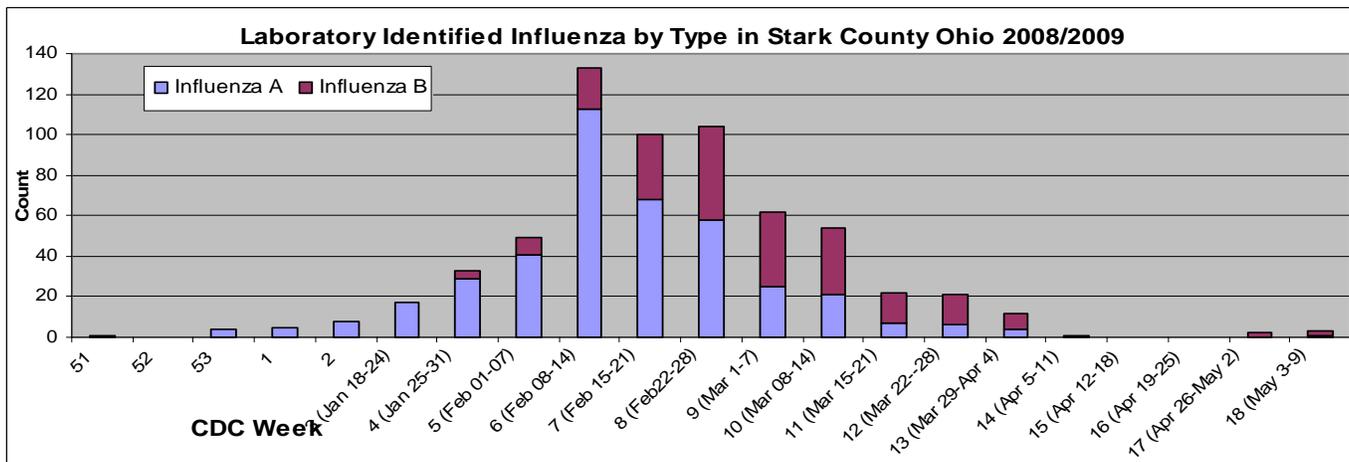
Graph 1: Number of medically identified cases of Influenza in Stark County, Ohio. (Cases reported from a medical provider or laboratory; established with a minimum of a rapid test confirmation).



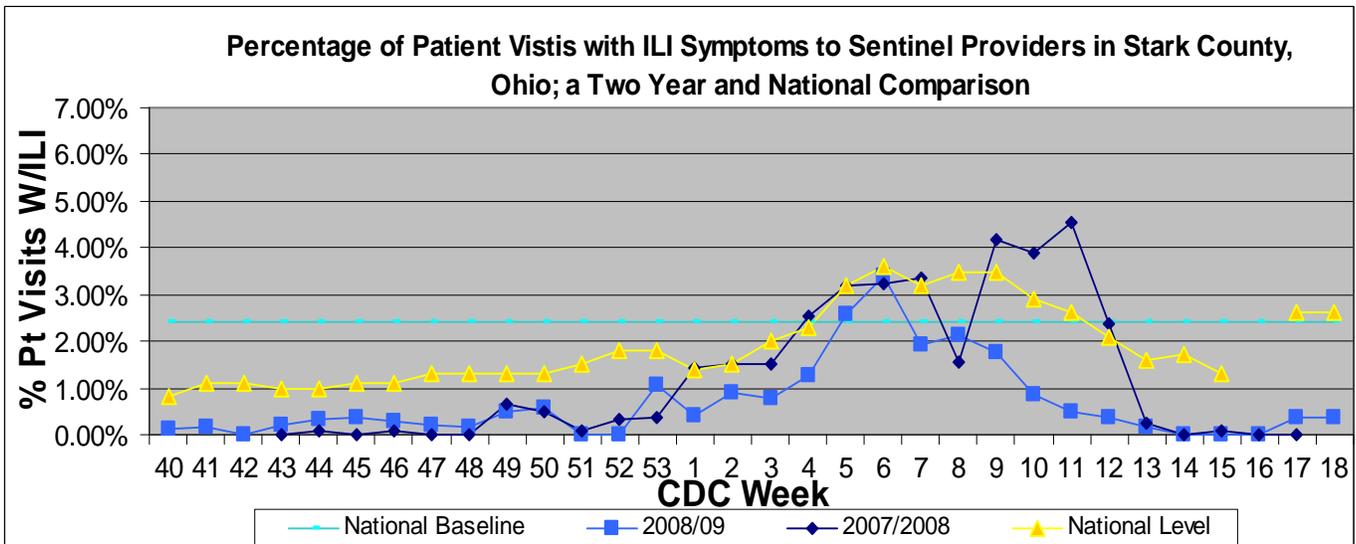
Graph 2: Number of Influenza-Associated Hospitalizations and medically identified cases of Influenza (cases reported from a medical provider or laboratory; established with a minimum of rapid test confirmation) (NOTE: the Y axis scale for All Lab Reports was adjusted in order to visualize the slight increase in the past two weeks).



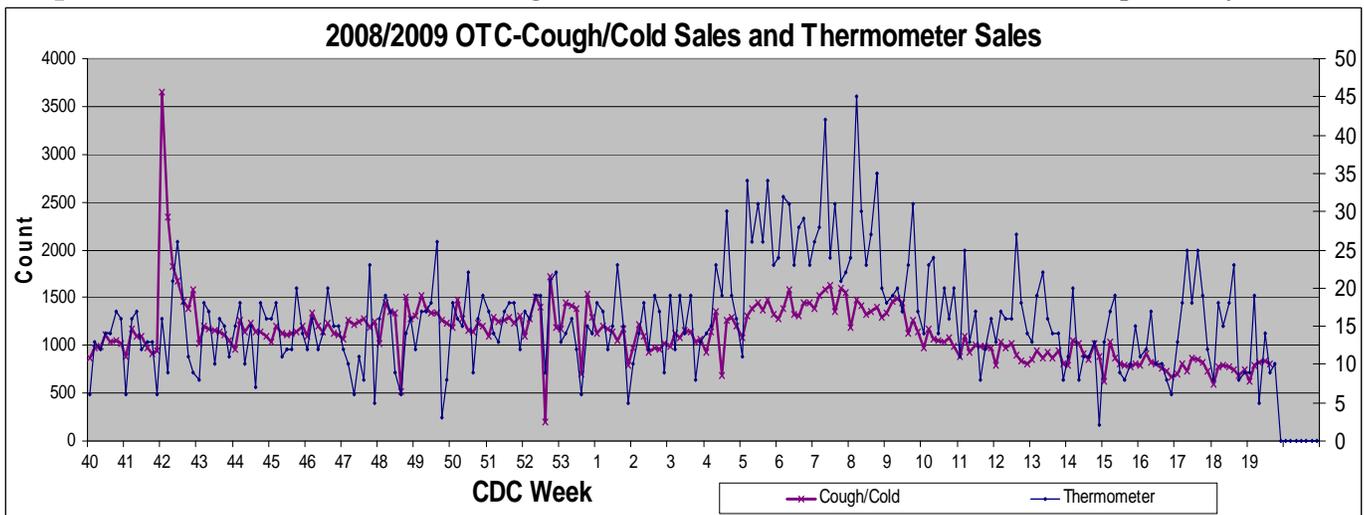
Graph 3: Laboratory Identified Influenza by Type in Stark County Ohio 2008/2009. (Laboratory identified includes Commercial Rapid Diagnostic Kits, EIA and Viral Cultures)



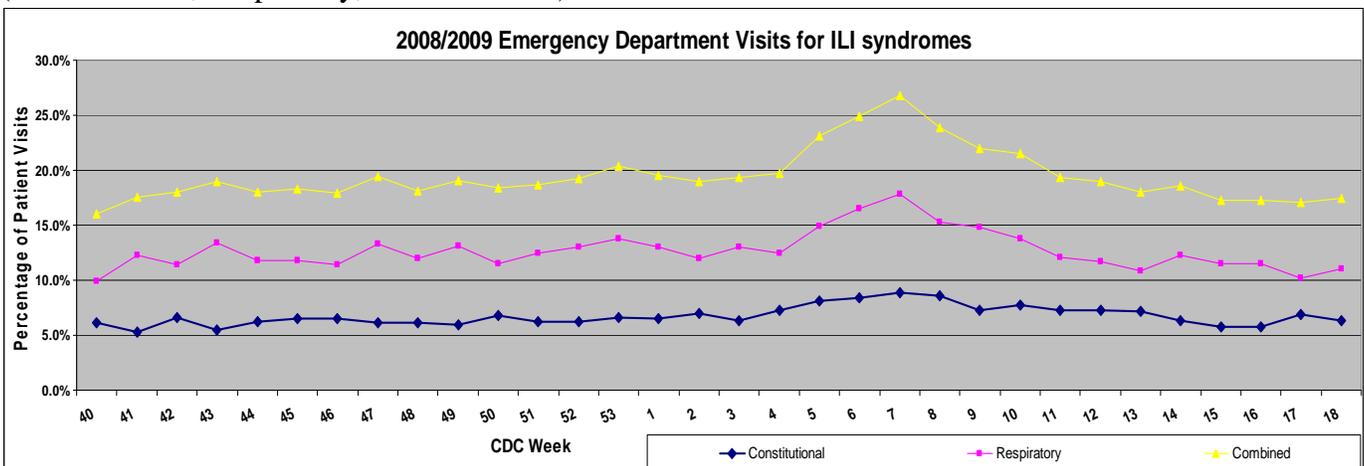
Graph 4: Sentinel Provider visits for ILI in Stark County Ohio and the Nation.



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



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



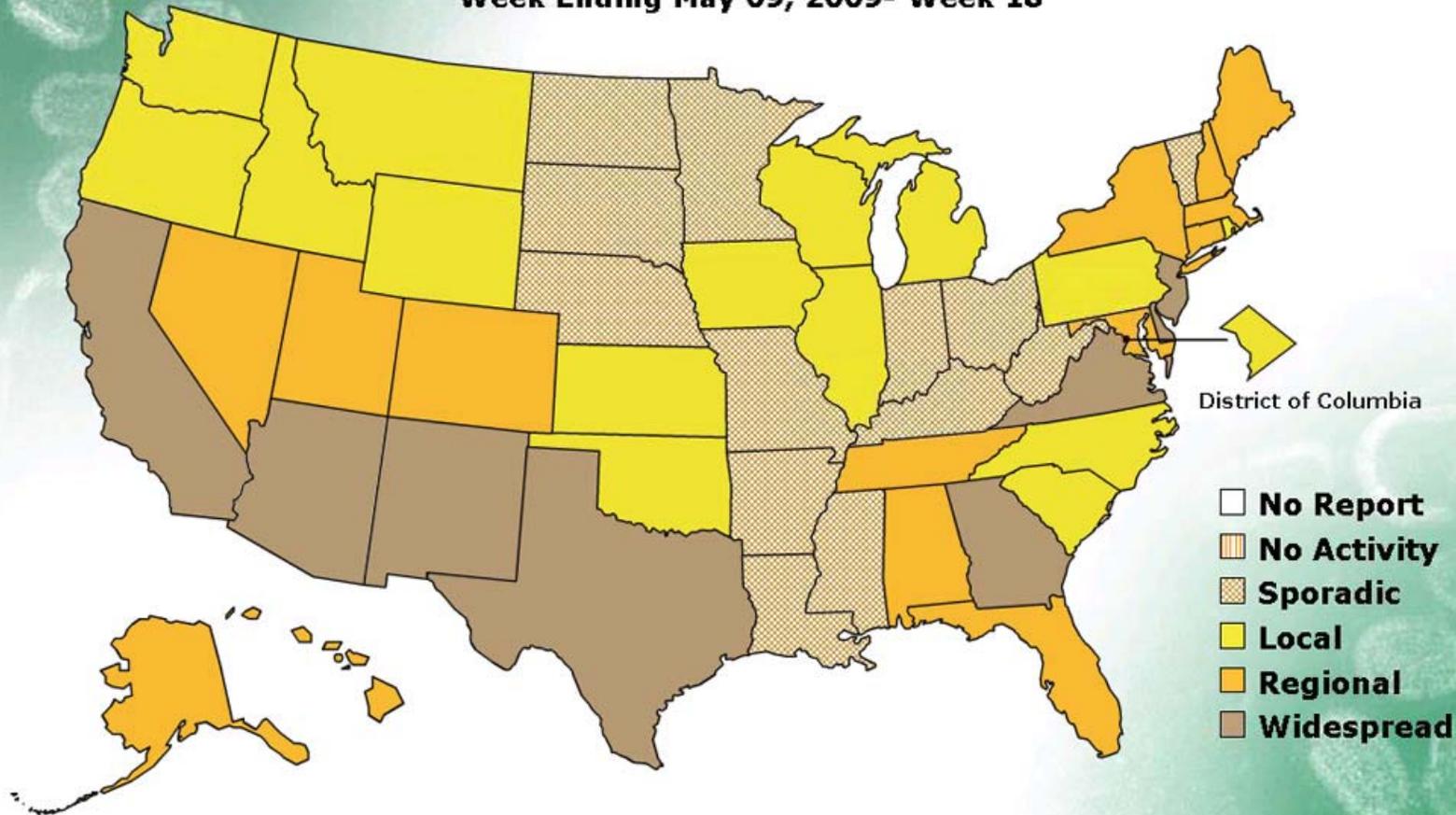
Map: National Influenza Activity. Source www.cdc.gov/flu/weekly

FLUVIEW



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

Week Ending May 09, 2009- Week 18



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