



STARK COUNTY INFLUENZA SNAPSHOT, WEEK 20

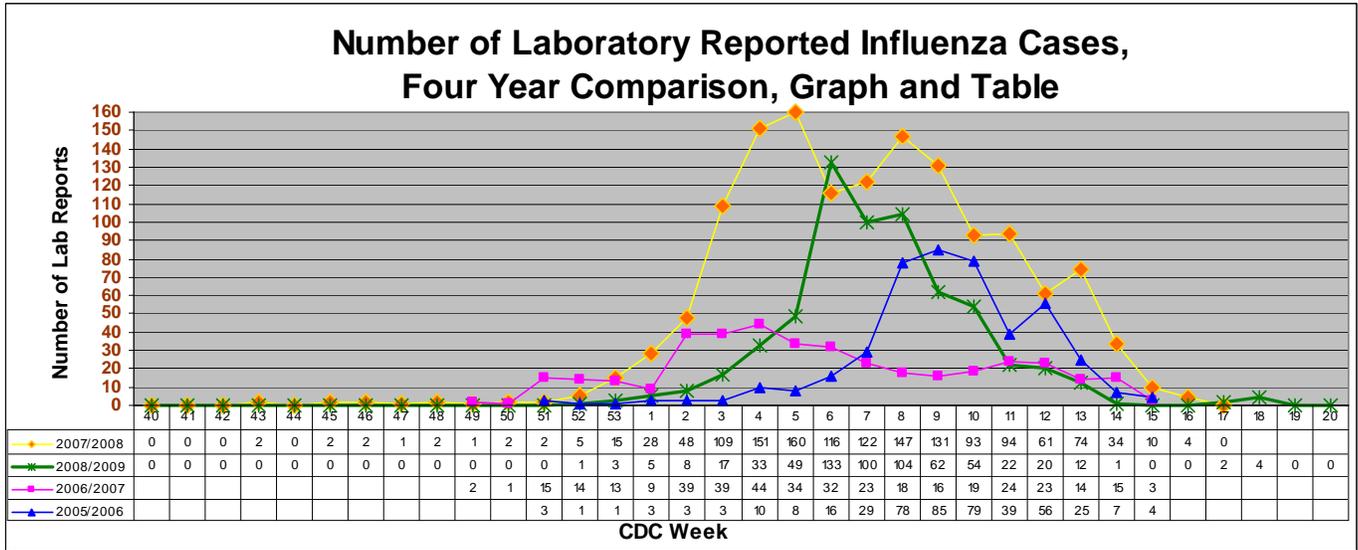
Week ending 23 May, 2009. With updates through 05/29/2009.

During week 20, cases of Novel Influenza continued to be identified in Ohio and throughout the nation, while overall indicators of influenza activity continued to decline or remain constant.

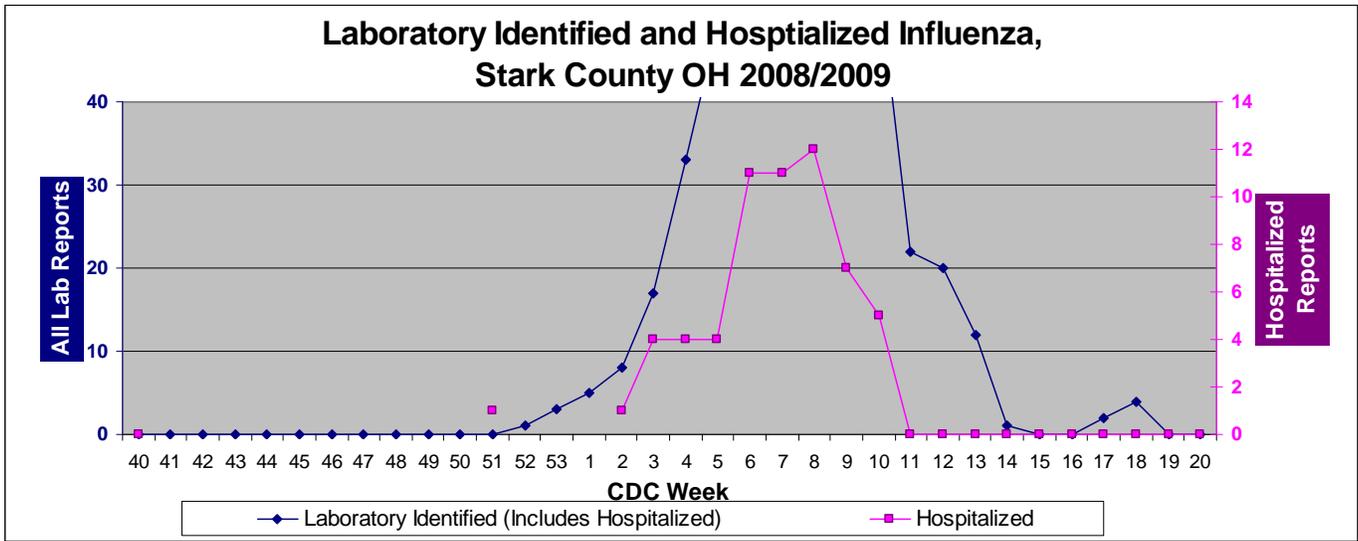
27 Cases of *Novel Influenza A (H1N1)* (referred to as *Novel H1N1*) have been confirmed in Ohio. Stark County is **not** among the 11 counties in Ohio with confirmed cases.

- **Novel H1N1 summary of Ohio Cases:** (The following represents provisional data and is subject to change)
 - Cases range in age from 9 to 47 years with a mean of 22.2 and a median of 20 years and a mode of 14 years.
 - Cases are primarily White (89%) and Non Hispanic (86%).
 - Dates of onset range from 04/22/2009 to 05/25/2009.
 - Predominant Symptoms include Cough 89%, Fever 88%, and Sore Throat 44%. Other symptoms include Headache (41%), Diarrhea (15%) and shortness of breath (15%).
 - There are at least two clusters of cases in Ohio, one in Franklin County and another in Clark County. Both clusters are associated with educational facilities. Other cases are from Butler, Cuyahoga, Hamilton, Fulton, Holmes, Knox, Lorain, Lucas and Portage Counties. (See Map 1) Due to the case clustering a new testing algorithm will be affective 06/01/2009.
 - No travel history to Mexico was reported in patients with a date of onset greater than 04/27/2009 and of those that had reported dates of onset of 04/22/2009-04/27/2009, 5 of 6 reported a history of travel to Mexico, California or Arizona.
- In week 20, there continues to be **NO** confirmed reports of *Novel H1N1* in Stark County. Also in week 20 there were no reports of seasonal influenza reported to area health departments (See graph 1 and 2)
- Circulating Strains of Influenza virus in Ohio include the *Novel H1N1*, Influenza A/H1, Influenza A/H3, and Influenza B. Nationally approximately 84% 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.
- Only two Local Sentinel Providers provided ILI data during week 20 and reported few visits for ILI. Nationally sentinel Providers reported visits below baseline levels. (See Graph 3)
- Real-Time Outbreak and Disease Surveillance (RODS) data reflected sales of Thermometers, and Cough/Cold products **below** seasonal influenza levels. (See Graph 4)
- The percentage of Emergency Department visits classified as Constitutional and Respiratory overall **remained steady** in week 20.
- Ohio continues to report **Sporadic** influenza activity. (Sporadic=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). Note: 4 states continue to report Widespread geographical influenza activity: Arizona, California, New Jersey and Virginia. (See Map 2)
- National Pneumonia and Influenza (P & I) Mortality Surveillance **remained steady at** 6.7% of all deaths reported through the 122 Cities Mortality Reporting System as due to P & I. This percentage is **below** the epidemic threshold of 7.2% for week 20.

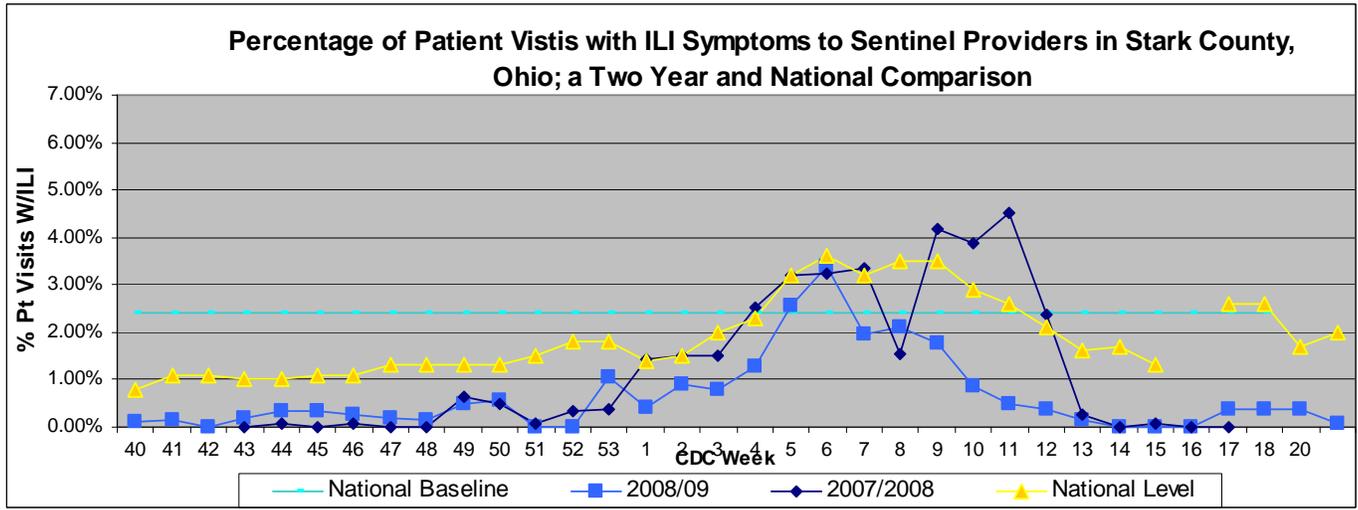
Graph 1: Number of medically identified cases of Influenza in Stark County, Ohio. (Cases reported from a medical provider or laboratory; established with a minimum of a rapid test confirmation).



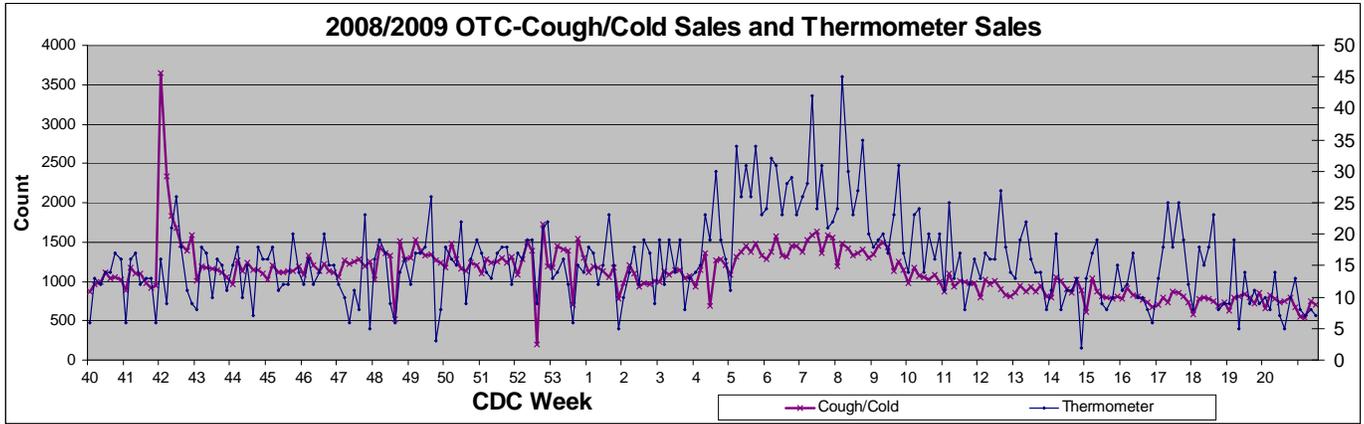
Graph 2: Number of Influenza-Associated Hospitalizations and medically identified cases of Influenza (cases reported from a medical provider or laboratory; established with a minimum of rapid test confirmation) (NOTE: the Y axis scale for All Lab Reports was adjusted in order to visualize the slight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



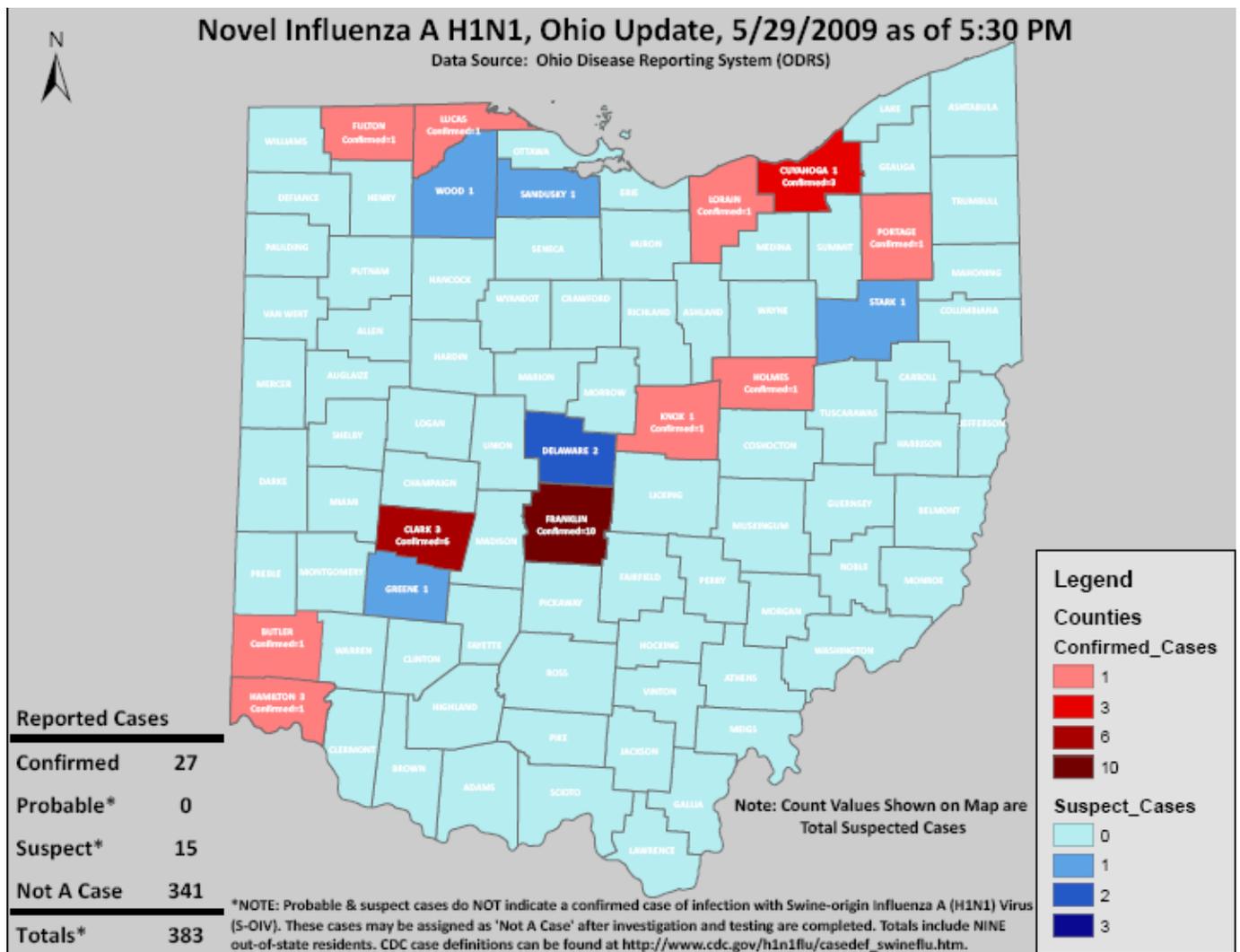
Graph 3: Sentinel Provider visits for ILI in Stark County Ohio and the Nation.



Graph 4: Sales of Over-The-Counter Cough/Cold Medications and Thermometers, as reported by RODS.



Map 1: Novel Influenza A H1N1, Ohio Update, 05/29/2009.



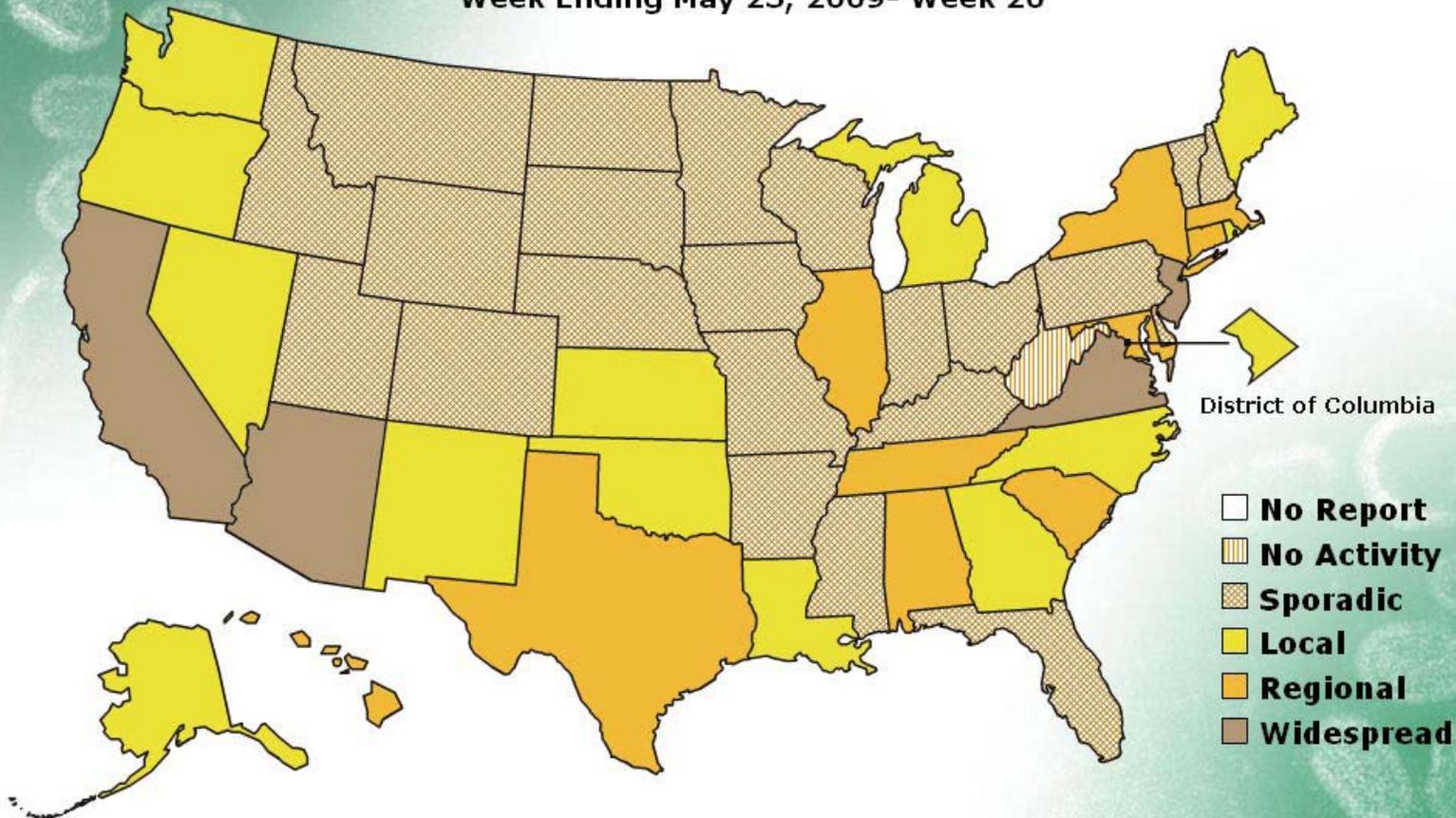
Map 2: National Influenza Activity. Source www.cdc.gov/flu/weekly

FLUVIEW



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

Week Ending May 23, 2009- Week 20



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