

Maricopa County Department of Public Health

INFLUENZA UPDATE

September 29, 2013 through May 10, 2014

Posted May 16, 2014

Individuals with Laboratory Confirmed Influenza

The 2013-2014 influenza season starts on 9/29/2013 (week 40) and continues through 9/27/2014 (week 39). This influenza season (2013-14), there have been 5,909 individuals confirmed with an influenza test, 69 cases were reported this week. On October 4th, 2013, the first locally-acquired influenza case was confirmed at the Arizona State Public Health Laboratory. The state of Arizona reported **local** activity for week 19 (05/04/2014 – 05/10/2014). The chart below shows tests each week for the current season (red) and previous seasons.

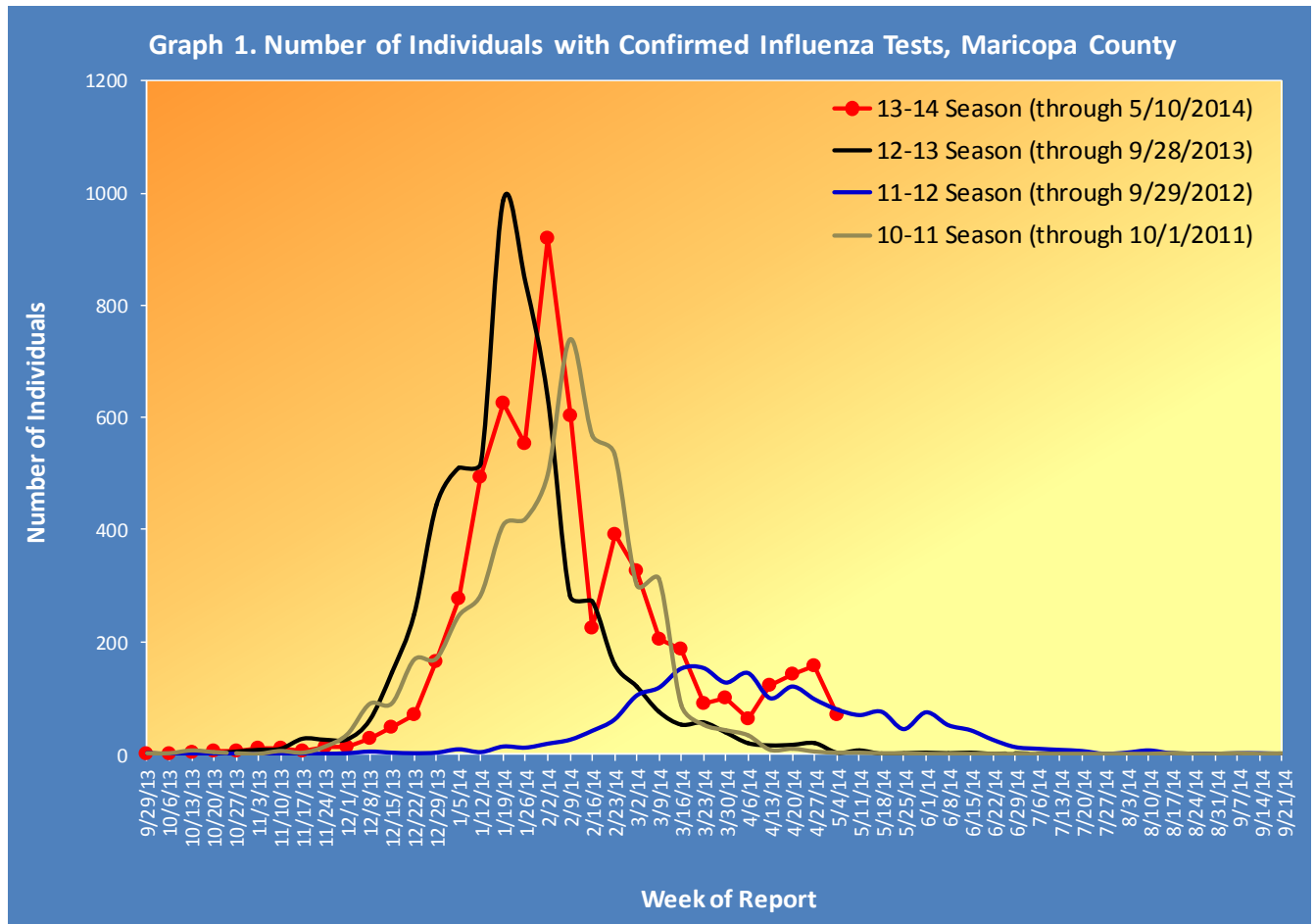


Table 1 shows the number of laboratory-confirmed cases reported this season compared to confirmed cases reported last week and last season.

| Table 1. Laboratory-Confirmed Influenza Cases Compared to Last Week and Last Season, Maricopa County | | |
|--|-------------------------|--------------------|
| Total | Cumulative Season Total | Current Week Total |
| 2013-2014 | 5909 | 69 |
| 2012-2013 | 5617 | 2 |
| 3 season average* | 4043.7 | 27.7 |
| % increase compared to 2012-2013 season | 5% | 3350% |
| % increase compared to 3 season average | 46% | 149% |
| % increase compared to last week | 1% | -56% |

*Mean of past 3 influenza seasons

Types of Influenza

This influenza season two types of influenza have been reported. Table 2 shows the number and percentage of tests reported by influenza type and subtype.

| Table 2. Types/Subtypes of Influenza by Test, 2013-2014 Season, Maricopa County | | |
|---|------|--------|
| Total | 5909 | 100.0% |
| Type A | 4837 | 81.9% |
| <i>Subtype 2009 H1N1</i> | 692 | 14.3% |
| <i>Subtype H3</i> | 33 | 0.7% |
| <i>Subtyping not performed or unknown</i> | 4112 | 85.0% |
| Type B | 1004 | 17.0% |
| Type Unknown | 68 | 1.2% |

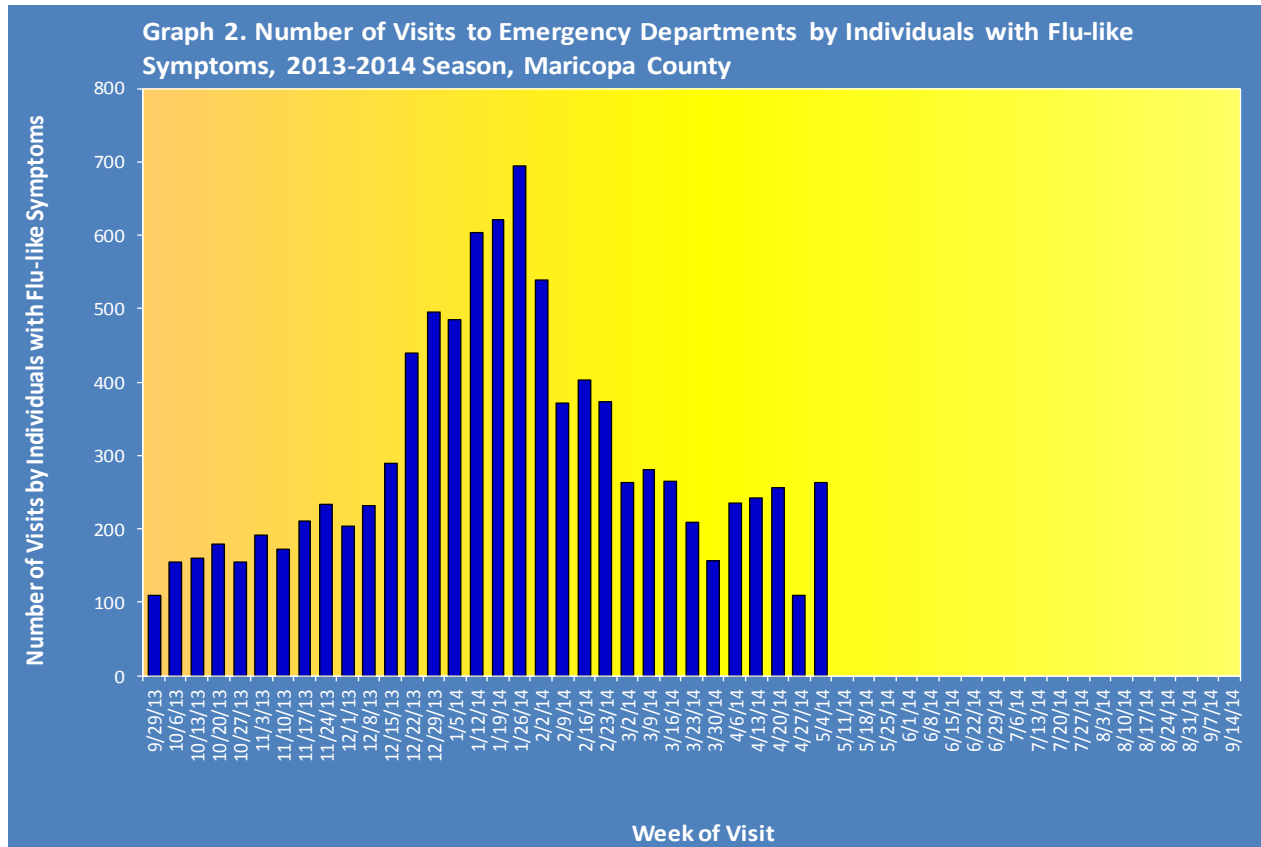
Pneumonia and Influenza (P&I) Deaths

This influenza season there have been 891 pneumonia and influenza (P&I) deaths (including 37 influenza-associated deaths in adults). Although the number of P&I deaths has decreased compared to last season's total of 970 P&I deaths, the number of deaths due to influenza has increased. No influenza-associated mortality in a child has been reported this season or last season. Table 3 shows the number of P&I deaths and the number of influenza deaths that occurred this season and last season.

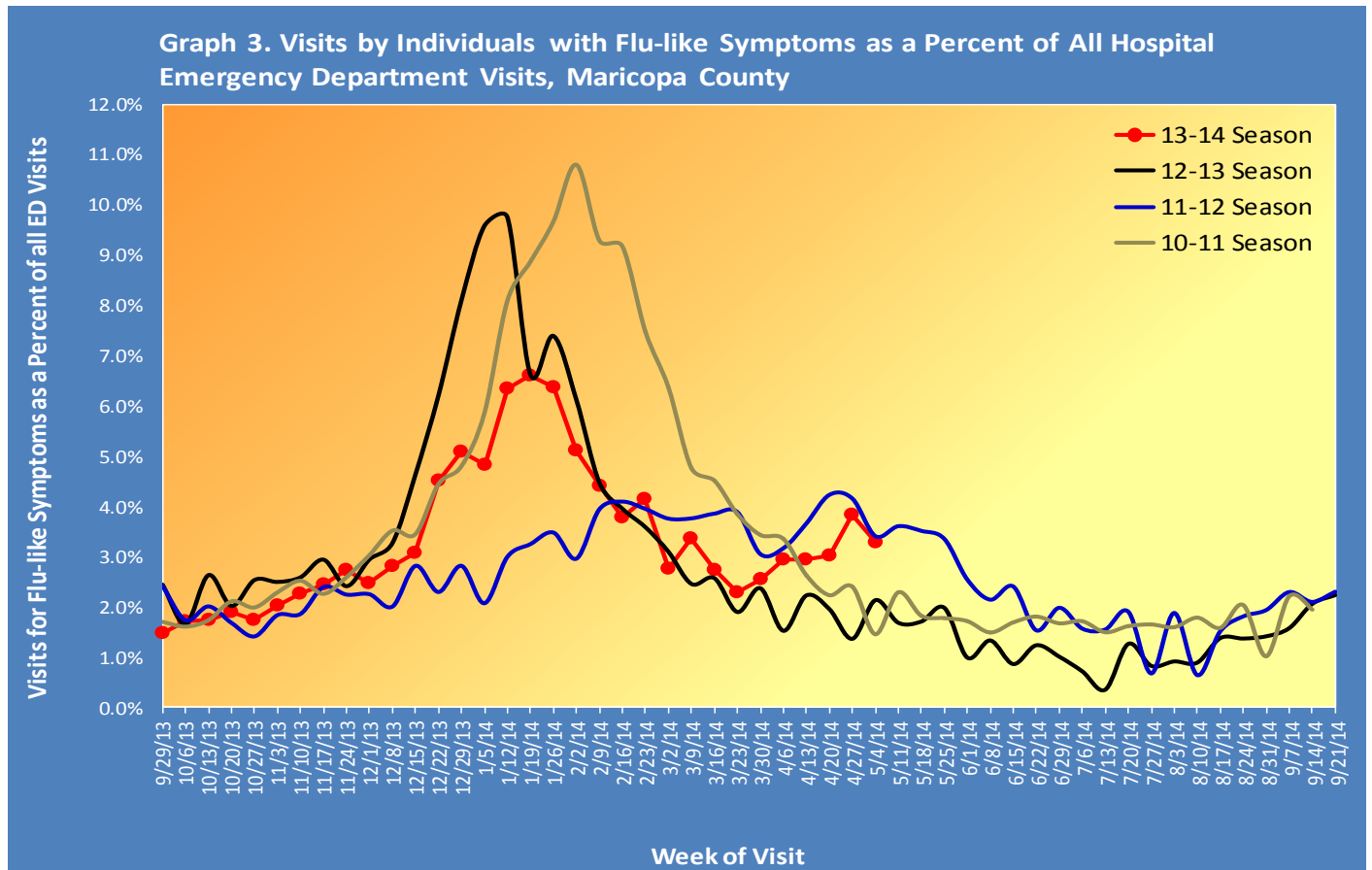
| Table 3. Pneumonia and Influenza (P&I) Deaths, 2013-14 & 2012-13 Seasons, Maricopa County | | | | |
|---|--|-----------|---|-----------|
| | Current Season (2013-2014) As of [5/10/2014] | | Last Season (2012-2013) As of [5/11/2013] | |
| | Pneumonia and Influenza | Influenza | Pneumonia and Influenza | Influenza |
| Pediatric (Under Age 18) | 3 | 0 | 9 | 0 |
| Adult (18 and Over) | 888 | 37 | 961 | 26 |

Respiratory Illness Activity at Hospital Emergency Departments

This influenza season there have been 9,599 visits to emergency departments by individuals with flu-like symptoms. To be counted as an individual with flu-like symptoms, the patient must have both fever and cough or sore throat. Graph 2 shows the number of patients with flu-like symptoms seen at 14 emergency departments.

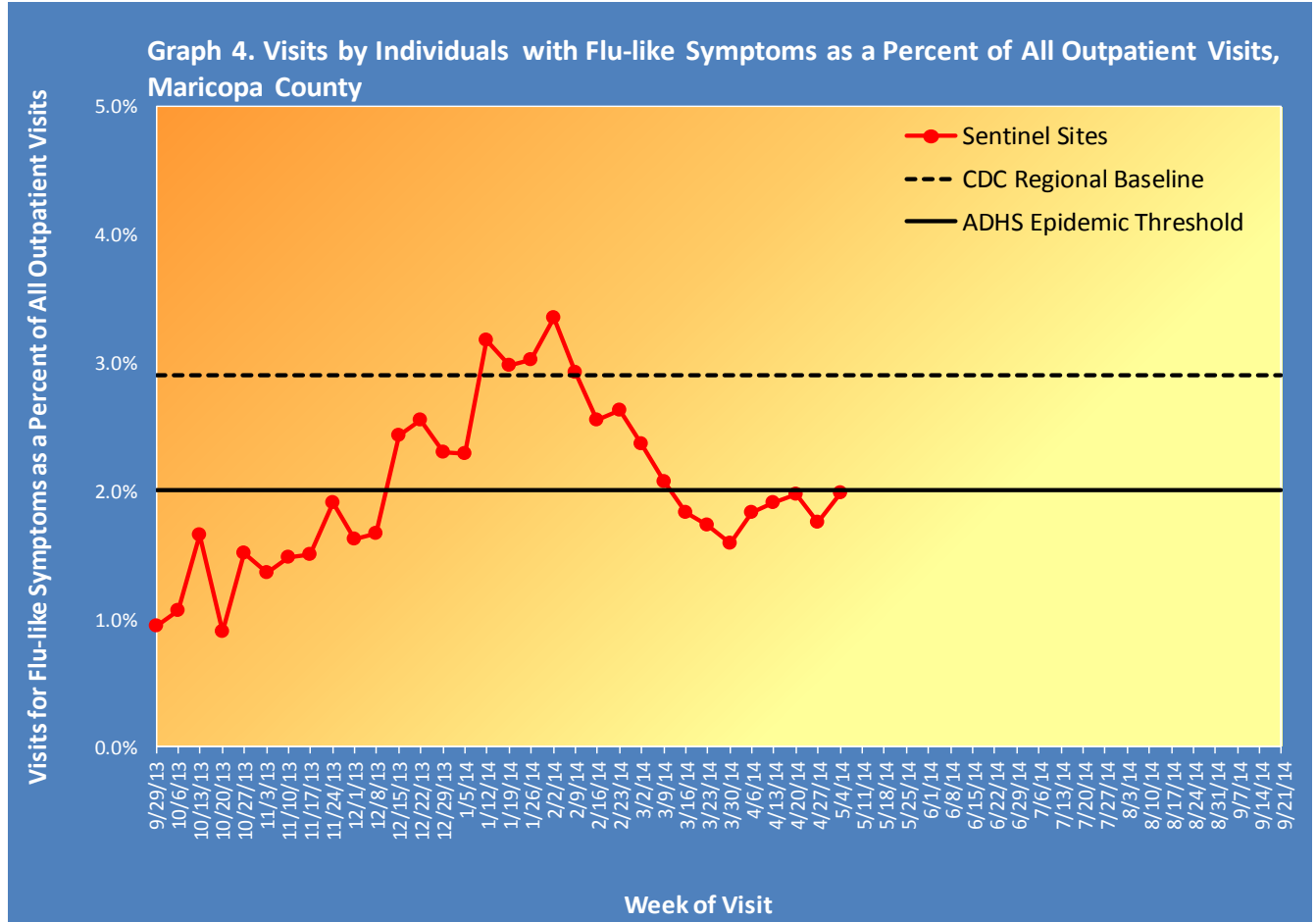


Graph 3 shows what percent of all emergency department visits were individuals with flu-like symptoms (fever and cough/sore throat). The graph shows the trend week by week, with the current season in red.



Respiratory Illness Activity at Sentinel Site Outpatient Facilities Reported to the Centers for Disease Control and Prevention (CDC)

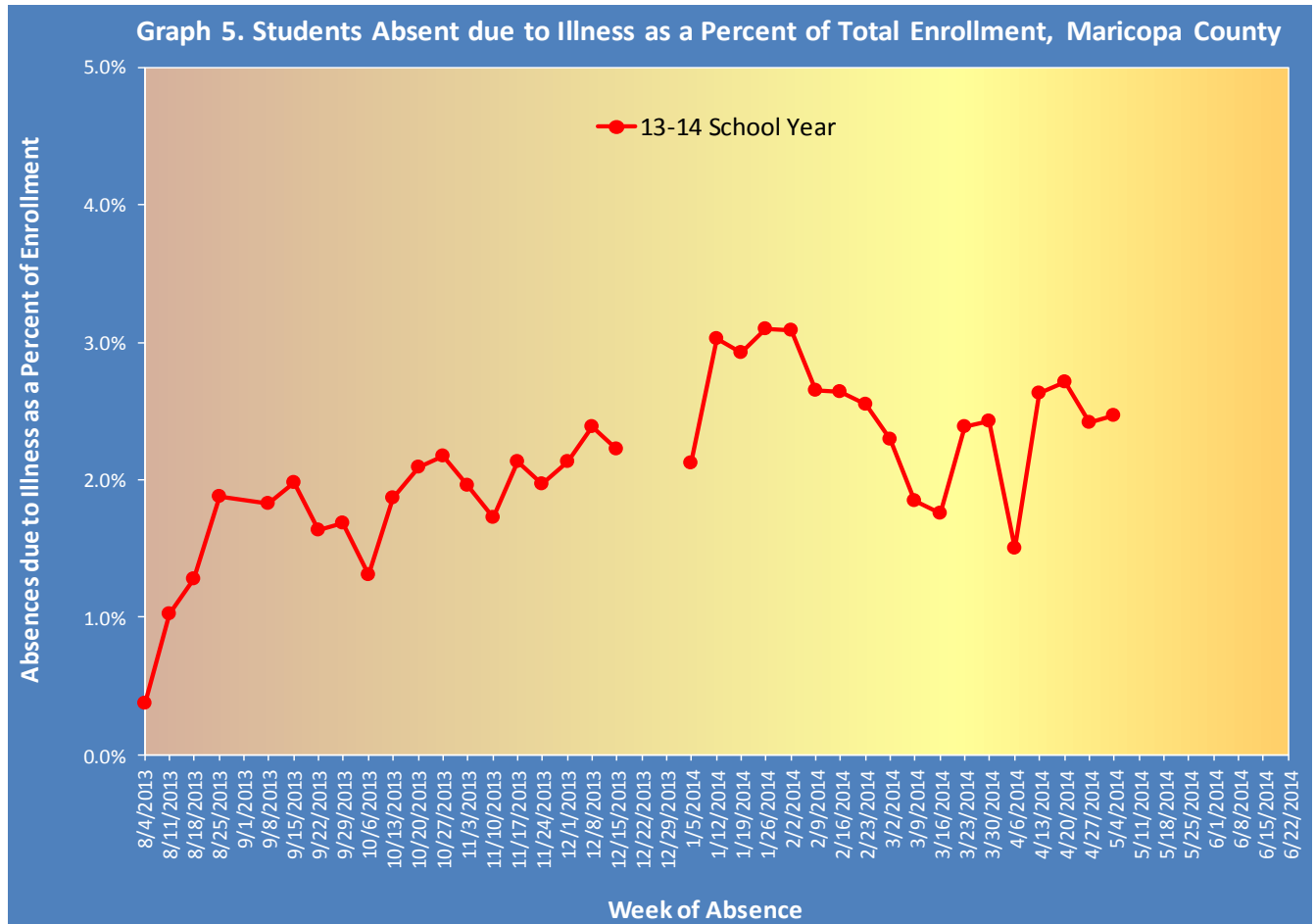
Maricopa County sentinel sites (outpatient facilities) report visits due to flu-like symptoms and the total number of visits seen each week to the Centers for Disease Control and Prevention (CDC). This percentage is then compared to the CDC baseline and Arizona Department of Health Services (ADHS) epidemic threshold each week to determine the level of influenza activity. This week, 2.28% of visits at outpatient facilities were due to flu-like symptoms.



Sources: Adelante Healthcare, Arizona State University Health Services, Cigna Medical Group, Wesley Health Center

Illness Activity at Schools

Graph 5 shows the percent of enrolled students in public schools who were absent due to illness (flu-like, gastrointestinal, other respiratory, etc.) as reported by their parents. The chart shows the trend week by week, for the current school year. This week, 17 out of 19 participating schools met the reporting criteria (≥ 3 days of reporting).



***The Maricopa County Department of Public Health wishes to thank all of the
influenza surveillance participants:***

*Arizona Department of Health Services
Local Hospital Emergency Departments & Infection Control Practitioners
Local Outpatient Facilities and Medical Directors
Maricopa County Public Schools
Maricopa County Office of Vital Statistics*

***Questions about this report may be directed to:
epidemiology@mail.maricopa.gov***

***Information on influenza activity for the state, the U.S. and the world may be found
at the following websites:***

<http://www.azdhs.gov/phs/oids/epi/flu/index.htm> (ADHS)
<http://www.cdc.gov/flu/weekly/fluactivitysurv.htm> (CDC)
http://www.who.int/influenza/gisrs_laboratory/updates/en/index.html (WHO)