

Maricopa County Department of Public Health WEEKLY INFLUENZA UPDATE 2015-2016 Season (10/04/2015-10/01/2016)

Reported April 7, 2016

2015-2016 Week 13(03/27/2016-04/02/2016)

The Influenza Season is defined by MMWR surveillance weeks, beginning week 40 (October) and continues through week 39 (the following September).

The first day of the 2015-2016 influenza season was October 4, 2015 and the surveillance season will continue through October 1, 2016. Maricopa County identified its first locally-acquired influenza case of the 2015-2016 season in week 40 (October 2015).

- Since October 4, 2015, **11,243** cases have been laboratory-confirmed
- Arizona reported **Widespread** activity
- ILI (Influenza Like Illness) took a slight increase
- Two pediatric deaths reported

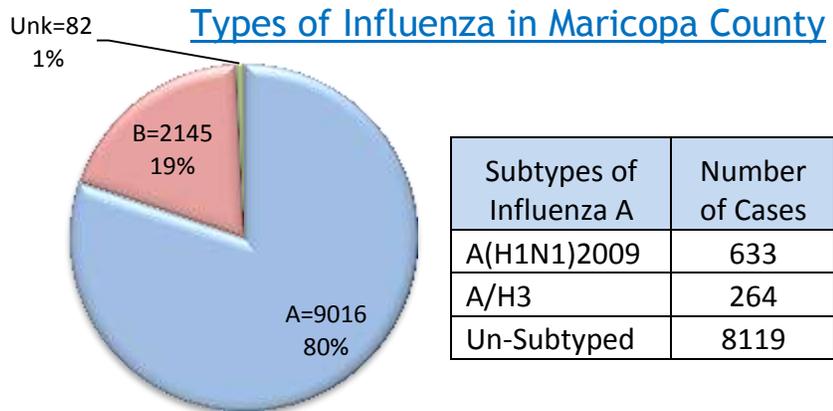
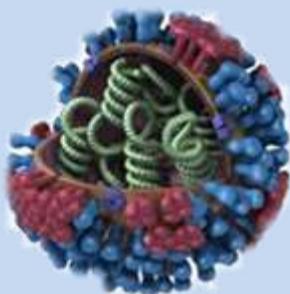


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Annual Reports



Influenza Activity Levels, 2012-2016

| | 2015-2016* | 2014-2015 | 2013-2014 | 2012-2013 |
|---|---------------------------------------|----------------------------------|--------------------------------|-------------------------------|
| First Confirmed Case, no travel | 10/04/2015 | 10/03/2014 | 10/04/2013 | 10/30/2012 |
| Weeks w/Widespread Activity (AZ) | Week 5 - 11 (1/31-2/20/2016) | Weeks 1-6 (1/4-2/14/2015) | Weeks 3-8 (1/12-2/22/2014) | Weeks 1-7 (3/11-4/7/2012) |
| Weeks w/Hospital ILI above Regional Threshold | Week 51 - 13 (12/20/2015-4/2/2016) | Weeks 50-11 (12/7- 3/21/2015) | Weeks 52-9 (12/22-3/1/2014) | Weeks 1-9 (12/16-3/2/2013) |
| Peak Week | Week 8 (2/21-2/27/2016) | Week 3 (1/18-24/2015) | Week 6 (2/2-8/2014) | Week 4 (1/20-26/2013) |
| Number of Pediatric Deaths | 2 | 1 | 1 | 0 |
| Total Cases | 11,243 | 6,601 | 6,658 | 5,638 |

Maricopa County Department of Public Health

INFLUENZA UPDATE

October 4, 2015 through April 2, 2016

Posted April 7, 2016

Individuals with Laboratory Confirmed Influenza

The 2015-2016 influenza season starts on 10/04/2015 (week 40) and continues through 10/01/2016 (week 39). This influenza season (2015-16), there have been **11,243** laboratory confirmed influenza cases. The State of Arizona has reported **widespread** activity for **Week 13 (03/27/2016–04/2/2016)**. The chart below shows influenza laboratory test results, including 2,053 cases not yet entered, bringing the estimated total to **13,296**. This graph represents each week of the current season (**red**) and previous seasons. The estimated totals for the current season are represented by the **broken lines**.

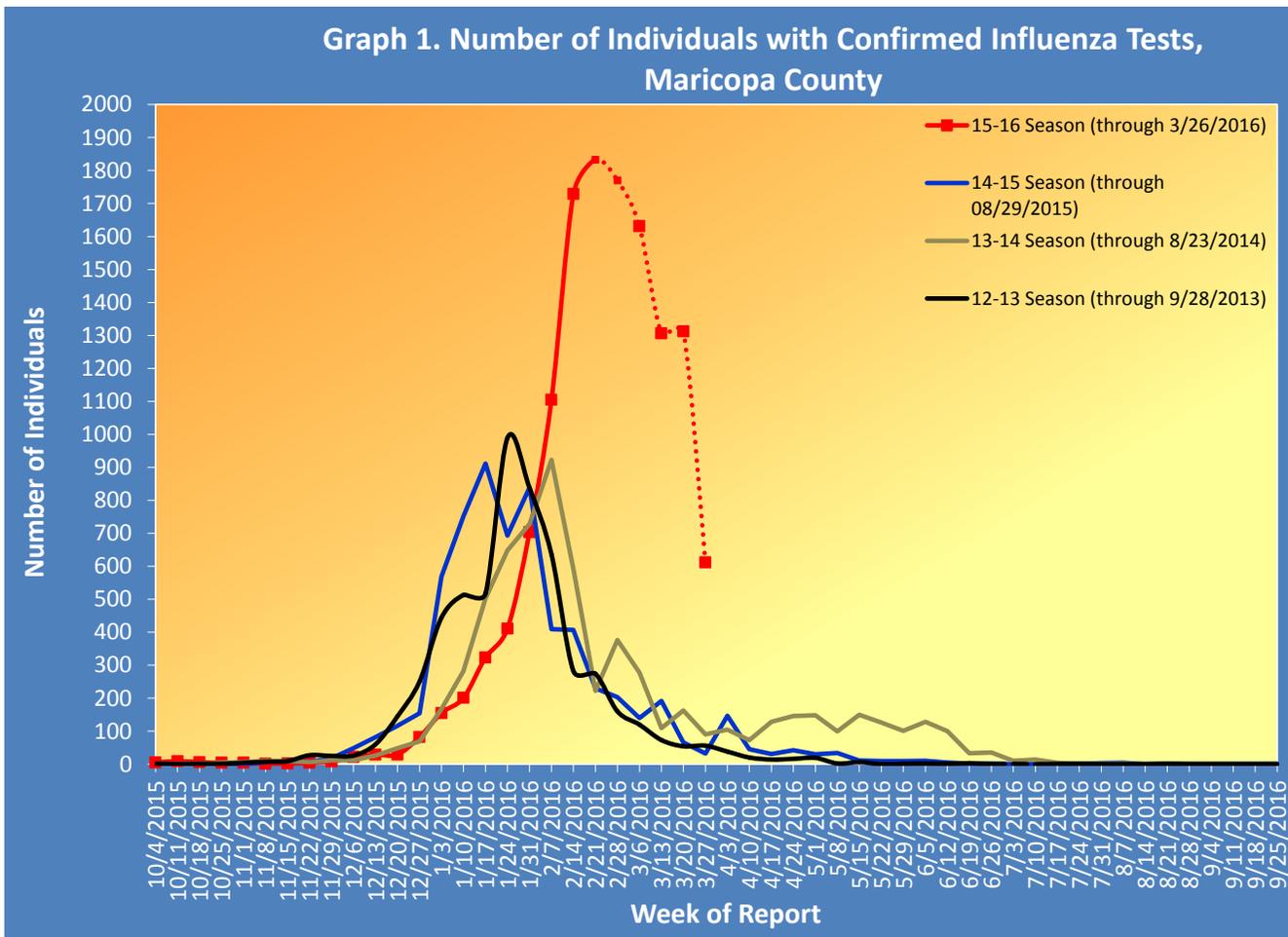


Table 1 shows the number of laboratory-confirmed cases, actual and estimated.*

| Table 1. Laboratory-Confirmed Influenza Cases Compared to Last Week and Last Season, Maricopa County | | | | |
|--|-------------------------|-----------|--------------------|-----------|
| Total | Cumulative Season Total | | Current Week Total | |
| | Actual | Estimated | Actual | Estimated |
| 2015-2016 | 11243 | 13296 | 249 | 612 |
| 2014-2015 | 6208 | 6208 | 32 | 32 |
| 3 season average | 5668 | 5668 | 59 | 59 |
| % increase compared to 2014-2015 season | 81% | 114% | 678% | 1813% |
| % increase compared to 3 season average | 98% | 135% | 320% | 932% |
| % increase compared to last week | 2% | 5% | -33% | -53% |

*Actual cases are confirmed cases entered

*Estimated cases are confirmed cases plus the cases still to be entered

Types of Influenza

This influenza season **11,243** confirmed cases of influenza have been reported. This table does not include the data-entry back log of 2,053 cases.

Table 2 shows the actual* number and percentage of cases reported by influenza type and subtype.

| Table 2. Types/Subtypes of Influenza by Test, 2015-2016 Season, Maricopa County | | |
|---|--------------|---------------|
| Total | 11243 | 100.0% |
| Type A | 9016 | 80.2% |
| Subtype 2009 H1N1 | 633 | 7.0% |
| Subtype H3 | 264 | 2.9% |
| Subtyping not performed or unknown | 8119 | 90.1% |
| Type B | 2145 | 19.1% |
| Type Unknown | 82 | 0.7% |

Pneumonia and Influenza (P&I) Deaths

This influenza season there have been **888** pneumonia and influenza (P&I) deaths. There have been 72 adult and 1 pediatric influenza related mortality reported this season in Maricopa County.

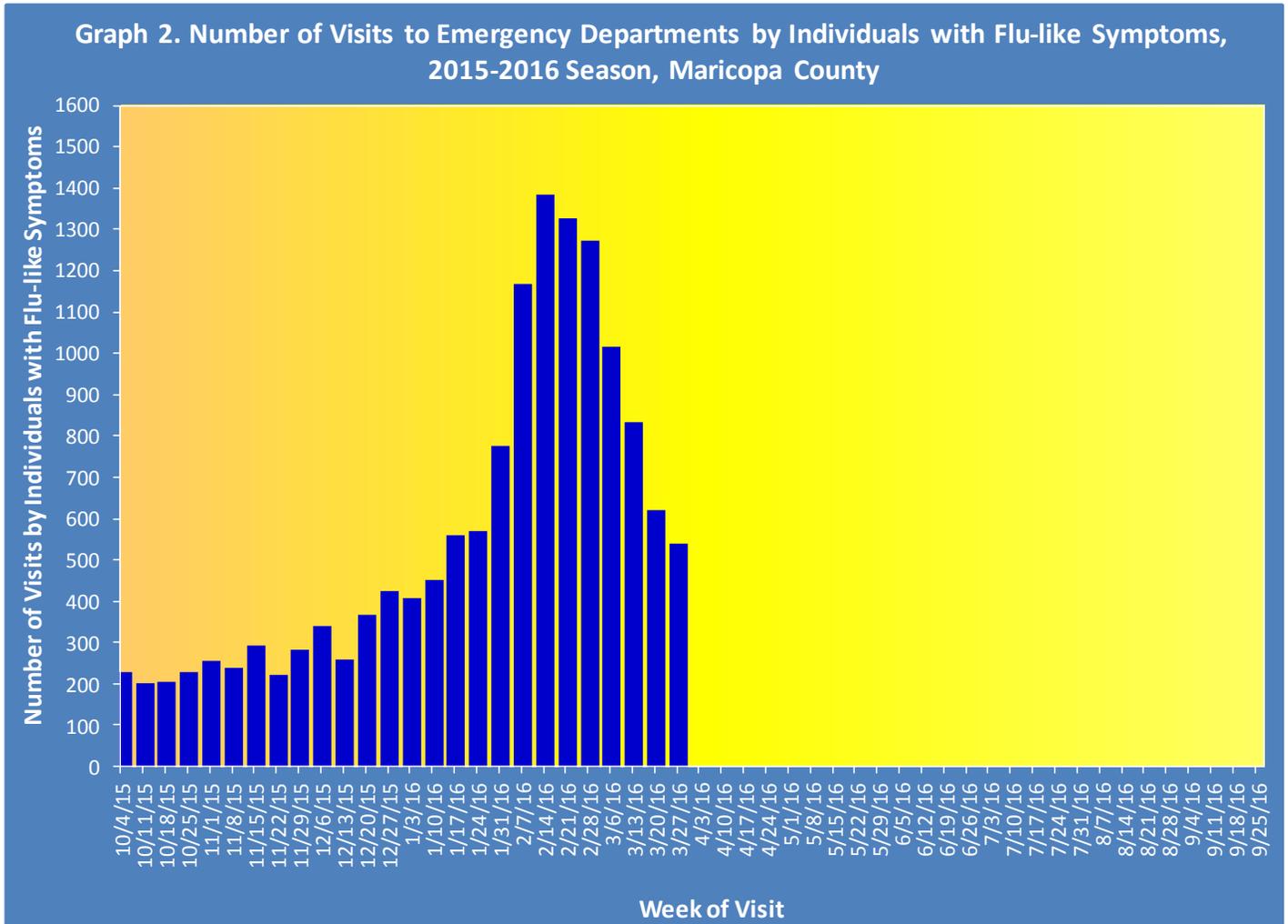
Table 3 shows the number of P&I deaths and the number of influenza deaths that occurred this season and last season.

| Table 3. Pneumonia and Influenza (P&I) Deaths, 2015-16 & 2014-15 Seasons, Maricopa County | | | | |
|---|---|-----------|--|-----------|
| | Current Season (2015-2016) As of [4/2/2016] | | Last Season (2014-2015) As of [4/4/2015] | |
| | Pneumonia and Influenza | Influenza | Pneumonia and Influenza | Influenza |
| Pediatric (Under Age 18) | 10 | 1 | 6 | 1 |
| Adult (18 and Over) | 878 | 72 | 664 | 12 |

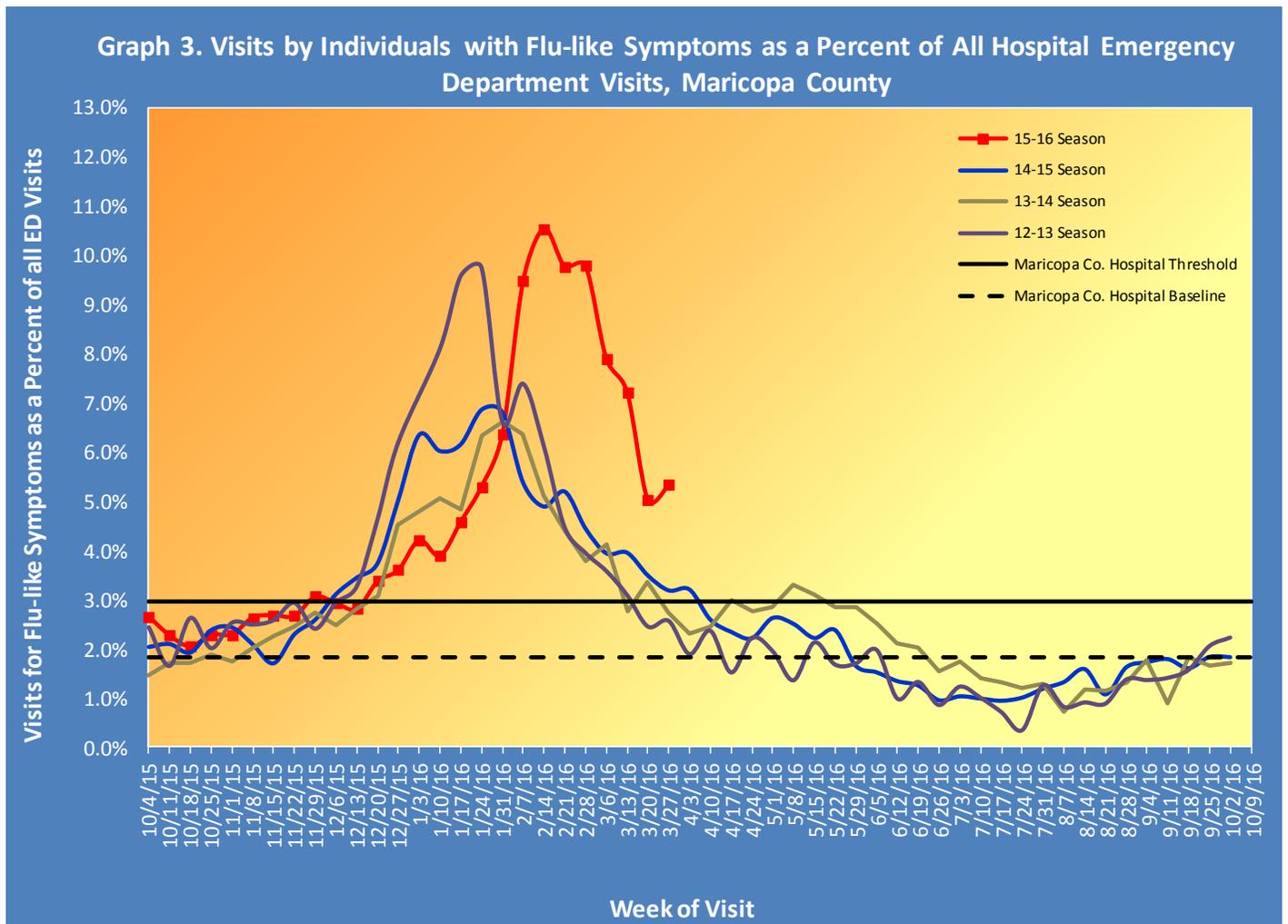
Influenza Like Illness Activity at Hospital Emergency Departments

This influenza season there have been **13,949** 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/sore throat.

Graph 2 shows the number of patients with flu-like symptoms seen at 12 emergency departments.

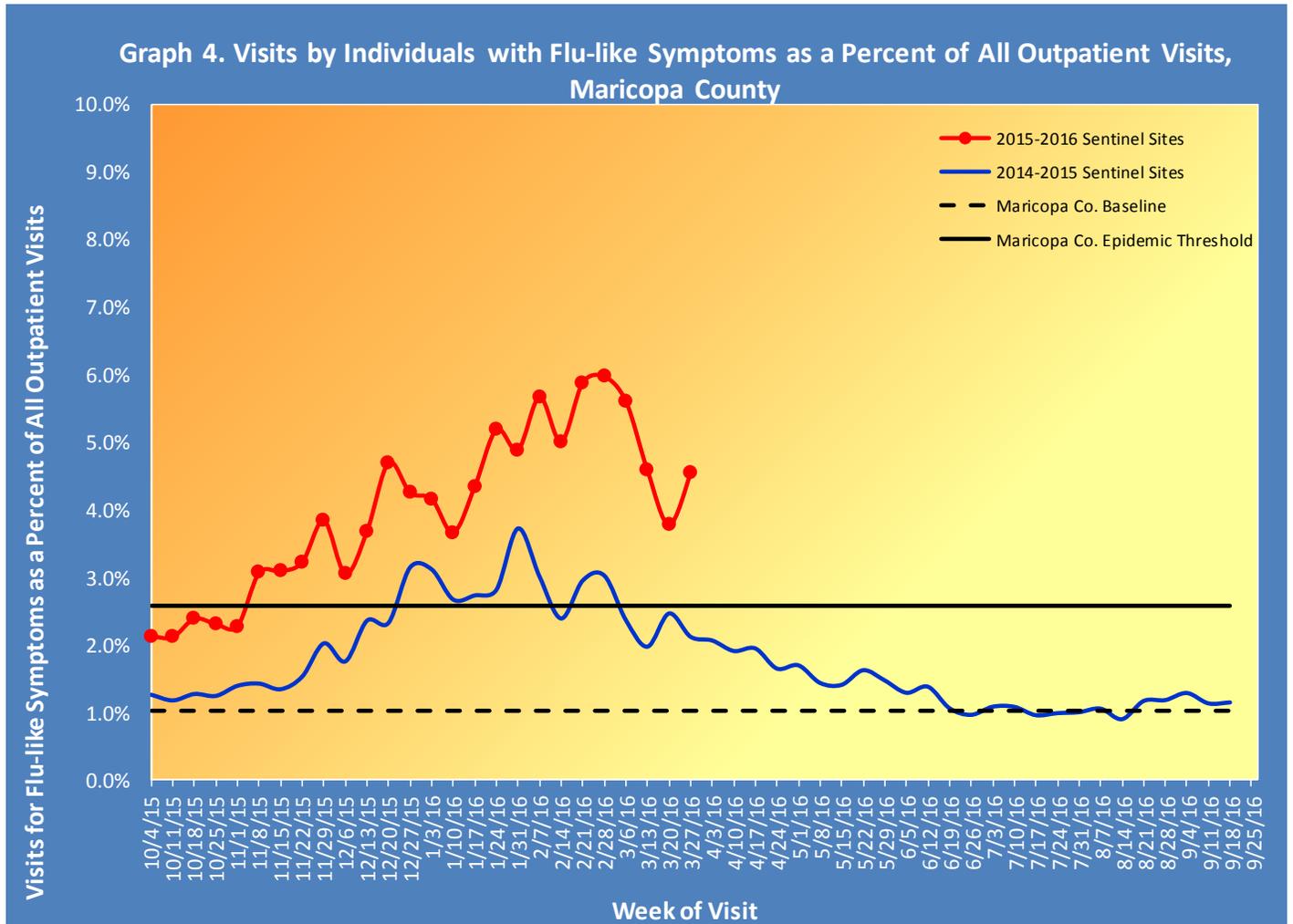


Graph 3 shows what percent of all emergency department visits were individuals with flu-like symptoms (fever and cough/sore throat). The graph shows the trend week by week, with the current season in red.



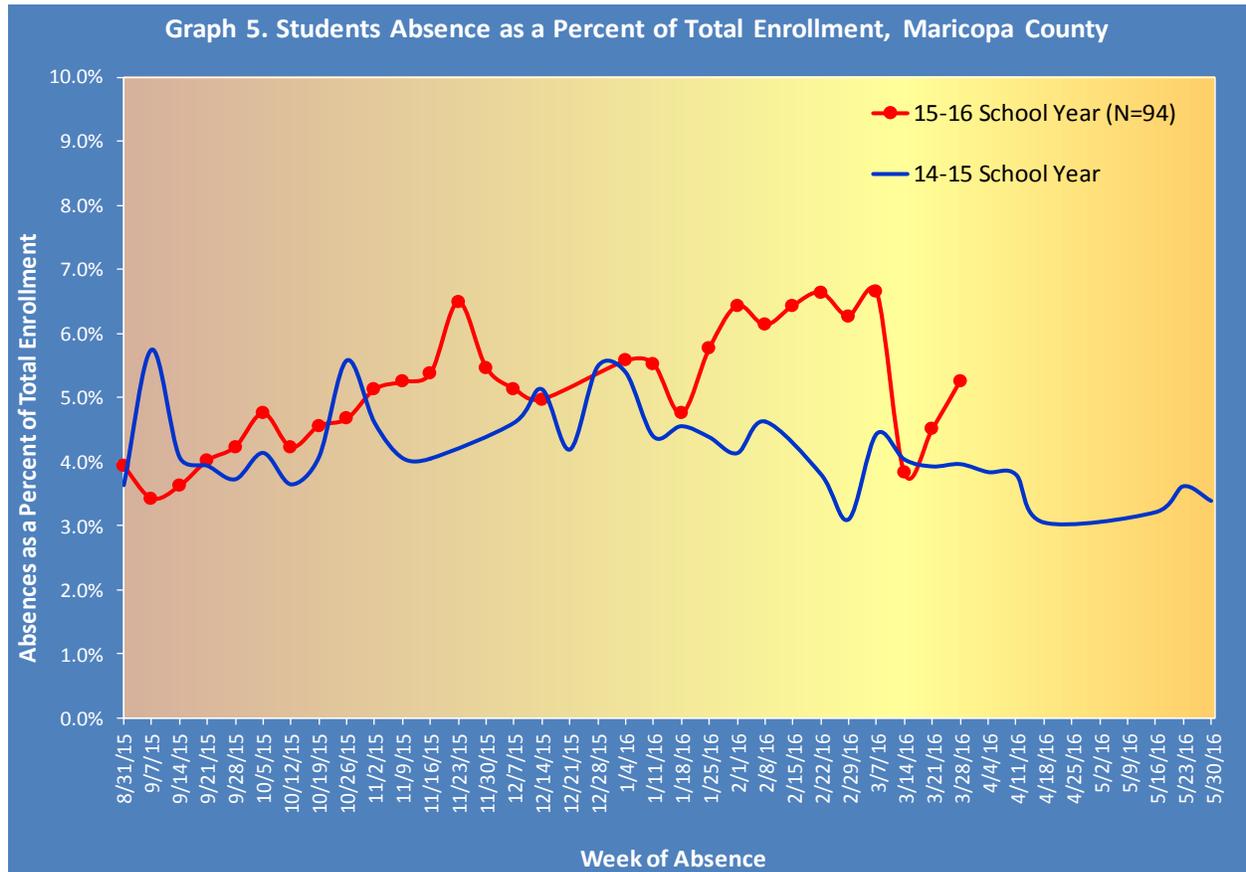
Influenza-Like Illness Activity at Sentinel Site Outpatient Facilities Reported to the Centers for Disease Control and Prevention (CDC)

Maricopa County sentinel sites (outpatient facilities) report visits due to flu-like symptoms. This week, **4.54%** of visits at outpatient facilities were due to flu-like symptoms, last week outpatient facilities reported **3.77%**.



Absentee Activity at Schools

Graph 5 shows the percent of students reported absent and illustrates the week by week trend, for the current school year.



Most schools reported being on Fall Break for Week 41, Spring Break for Week 11 and Winter Break for Weeks 51 & 52

**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)