

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

Reported August 11, 2016

2015-2016 Week 30-31(7/24/2016-8/6/2016)

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, **14,346** cases have been laboratory-confirmed
- Arizona reported **SPORADIC** activity
- ILI (Influenza Like Illness) is below the threshold in Outpatient Clinics.
- Three pediatric deaths reported

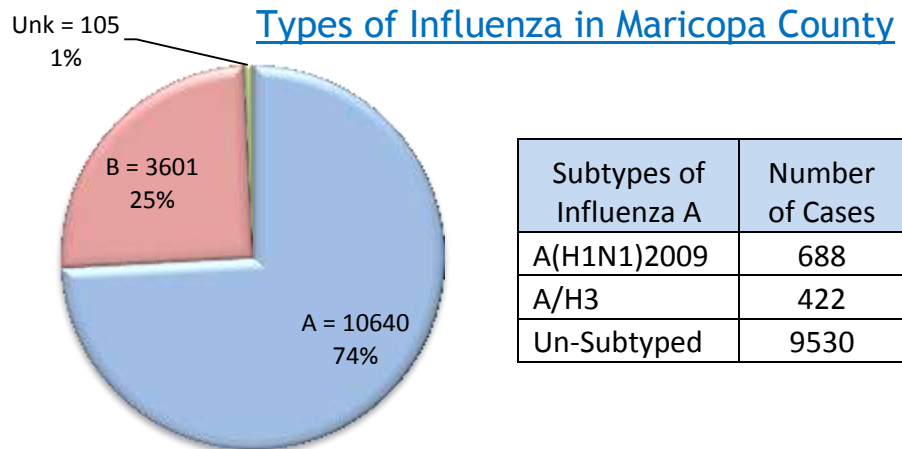
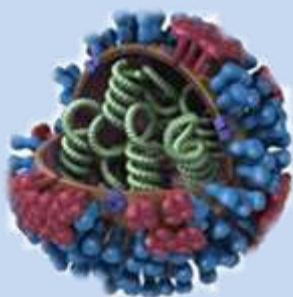


Table of Contents

- [Lab Confirmed influenza cases](#)
- [Types of influenza](#)
- [P&I Deaths](#)
- [ILI Activity at Hospital Emergency Departments](#)
- [Absentee Activity in Maricopa County Schools](#)

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 - 14 (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 - 16 (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 | 3 | 1 | 1 | 0 |
| Total Cases | 14,346 | 6,601 | 6,658 | 5,638 |

Maricopa County Department of Public Health

INFLUENZA UPDATE

October 4, 2015 through August 6, 2016

Posted August 11, 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 **14,346** laboratory confirmed influenza cases. The State of Arizona has reported **sporadic** activity for **Week 30-31 (7/24 – 8/6/2016)**. The chart below shows influenza laboratory test results. This graph represents each week of the current season (**red**) and previous seasons.

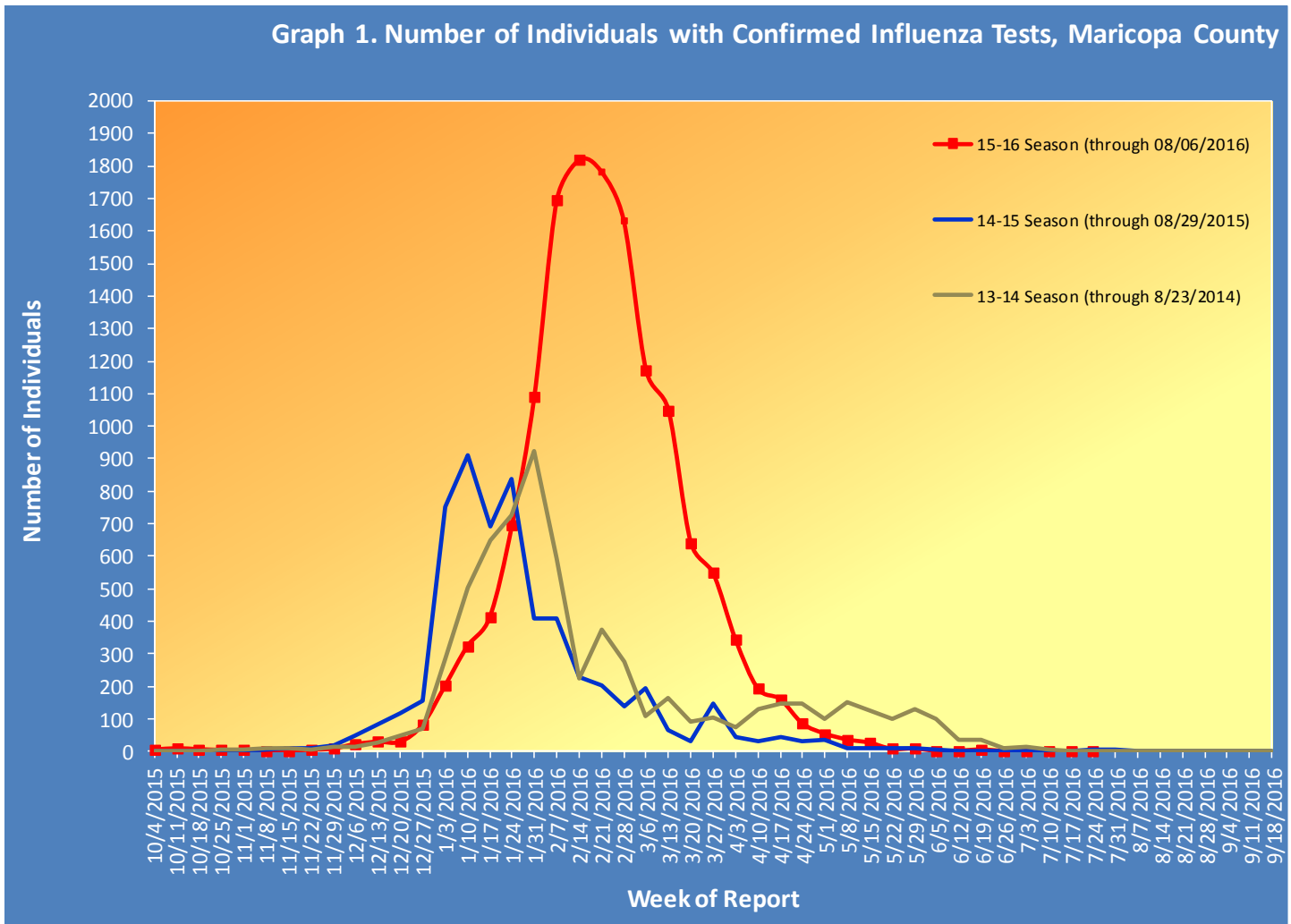


Table 1 shows the number of laboratory-confirmed cases.

| Table 1. Laboratory-Confirmed Influenza Cases Compared to Last Week and Last Season, Maricopa County | | |
|--|-------------------------|--------------------|
| Total | Cumulative Season Total | Current Week Total |
| 2015-2016 | 14346 | 0 |
| 2014-2015 | 6591 | 3 |
| 3 season average | 6305 | 1 |
| <i>% increase compared to 2014-2015 season</i> | <i>118%</i> | <i>-100%</i> |
| <i>% increase compared to 3 season average</i> | <i>128%</i> | <i>-100%</i> |
| <i>% increase compared to last week</i> | <i>0%</i> | <i>-100%</i> |

Types of Influenza

This influenza season **14,346** confirmed cases of influenza have been reported.

Table 2 shows the 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 | 14346 | 100.0% |
| Type A | 10640 | 74.2% |
| <i>Subtype 2009 H1N1</i> | <i>688</i> | <i>6.5%</i> |
| <i>Subtype H3</i> | <i>422</i> | <i>4.0%</i> |
| <i>Subtyping not performed or unknown</i> | <i>9530</i> | <i>89.6%</i> |
| Type B | 3601 | 25.1% |
| Type Unknown | 105 | 0.7% |

Pneumonia and Influenza (P&I) Deaths

This influenza season there have been **1327** pneumonia and influenza (P&I) deaths. There have been **87** adult and **3** pediatric influenza related mortality reported this season in Maricopa County.

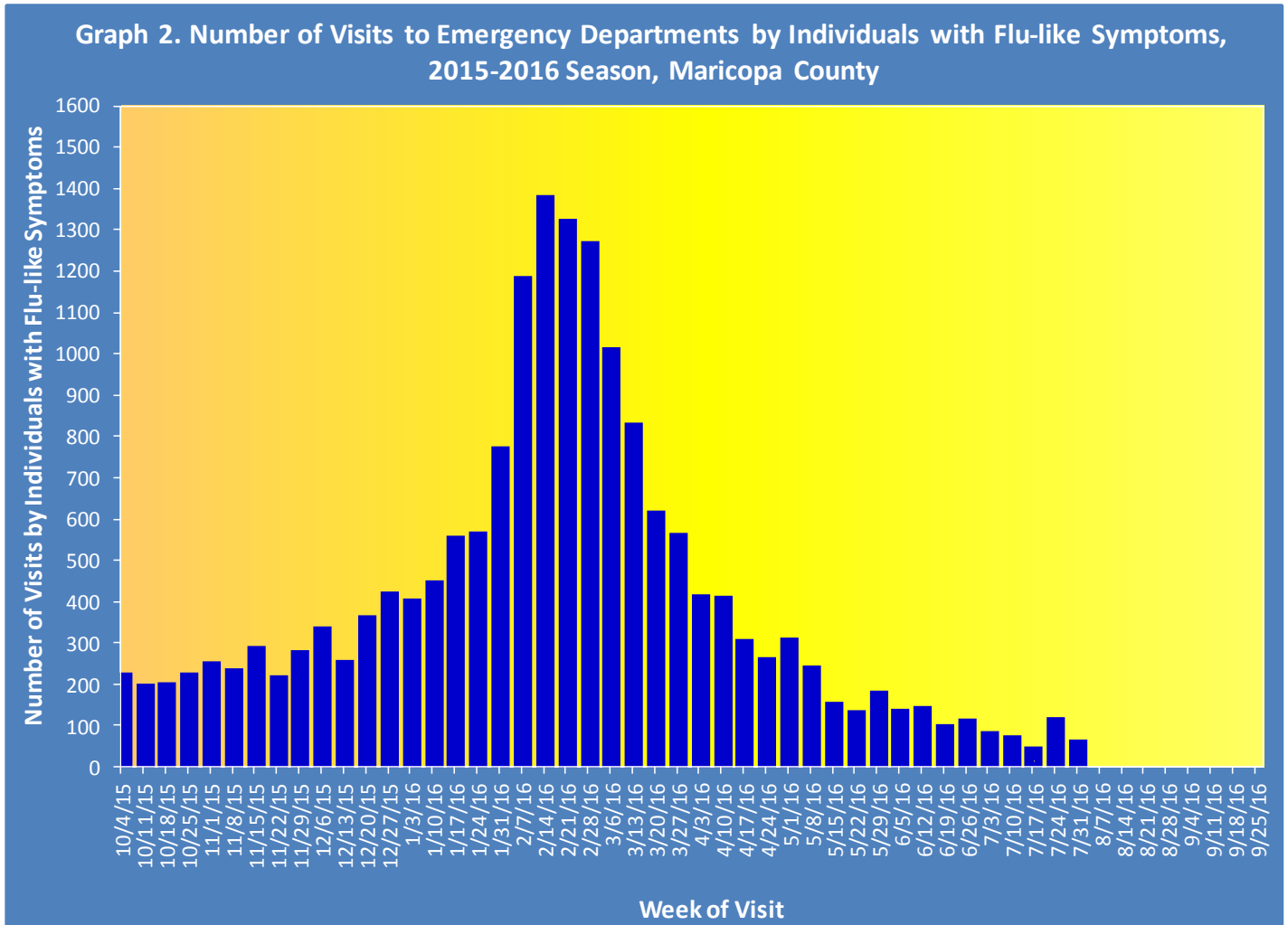
Table 3 shows the number of P&I deaths and the number of influenza deaths that occurred this season and last season.

| Table 3. Pneumonia and Influenza (P&I) Deaths, 2015-16 & 2014-15 Seasons, Maricopa County | | | | |
|---|---|-----------|--|-----------|
| | Current Season (2015-2016) As of [08/06/2016] | | Last Season (2014-2015) As of [08/08/2015] | |
| | Pneumonia and Influenza | Influenza | Pneumonia and Influenza | Influenza |
| Pediatric (Under Age 18) | 13 | 3 | 9 | 1 |
| Adult (18 and Over) | 1314 | 87 | 1111 | 12 |

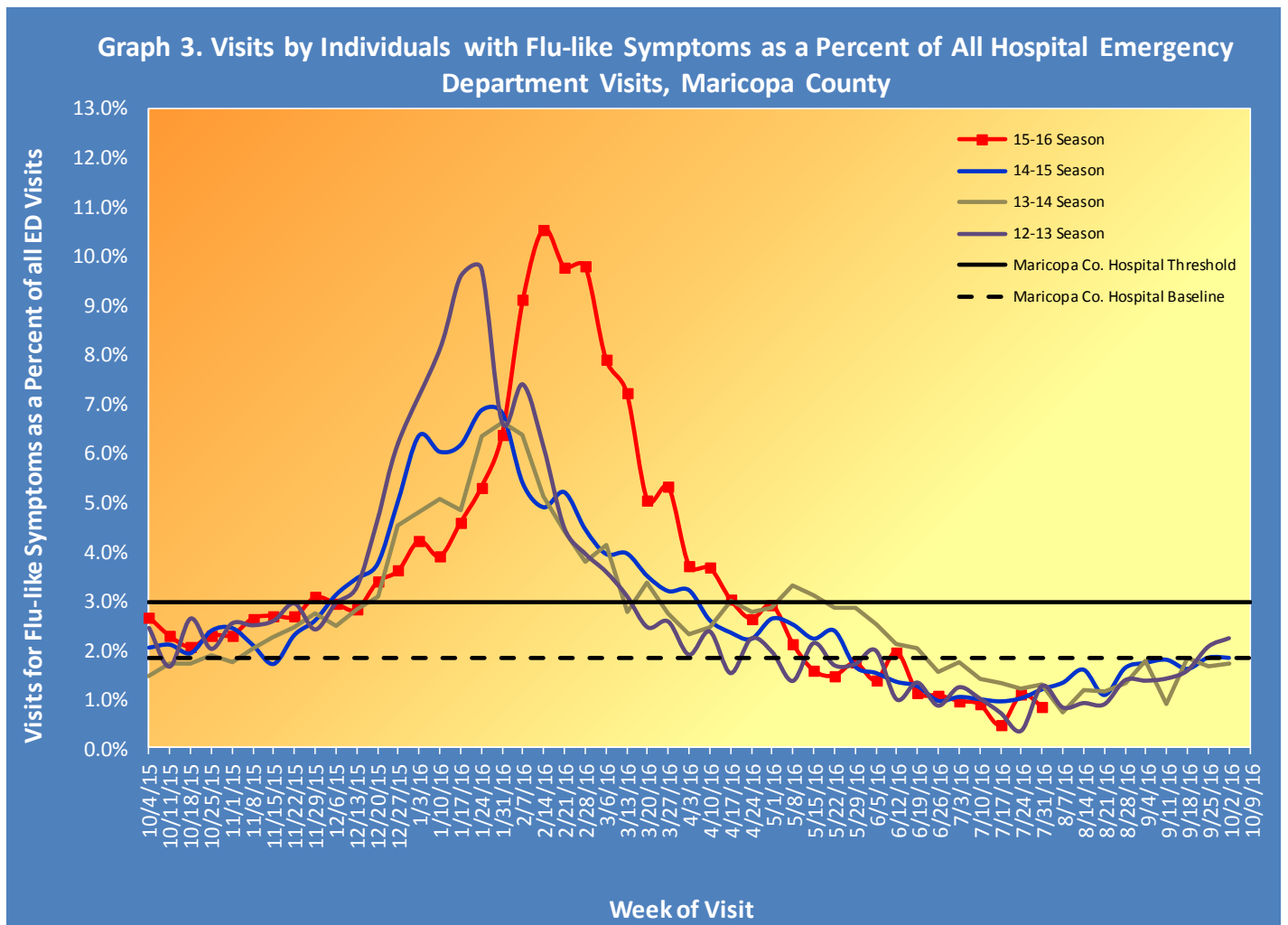
Influenza Like Illness Activity at Hospital Emergency Departments

This influenza season there have been **16,985** 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.

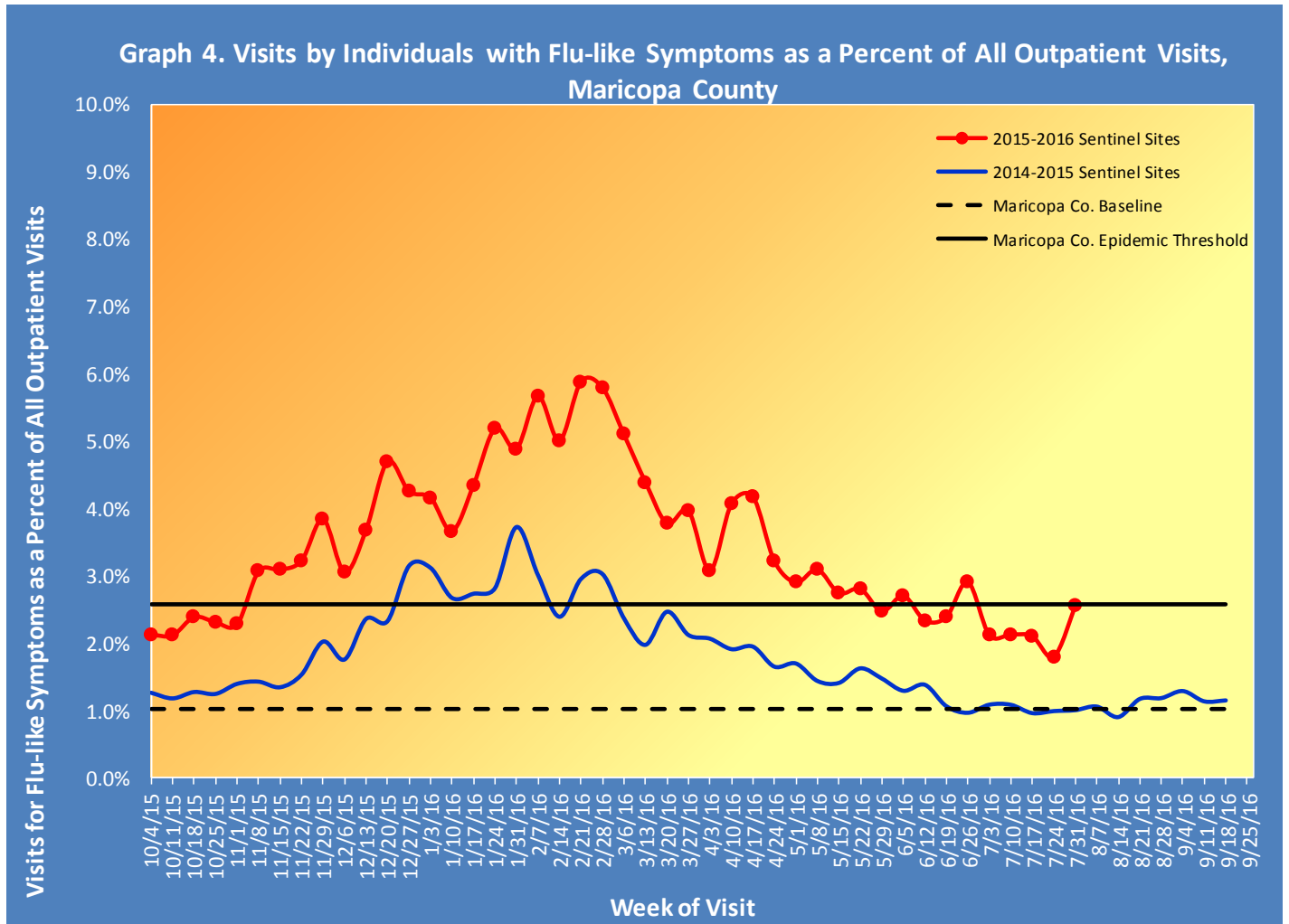


Graph 3 shows what percent of all emergency department visits were individuals with flu-like symptoms (fever and cough/sore throat). The graph shows the trend week by week, with the current season in red.



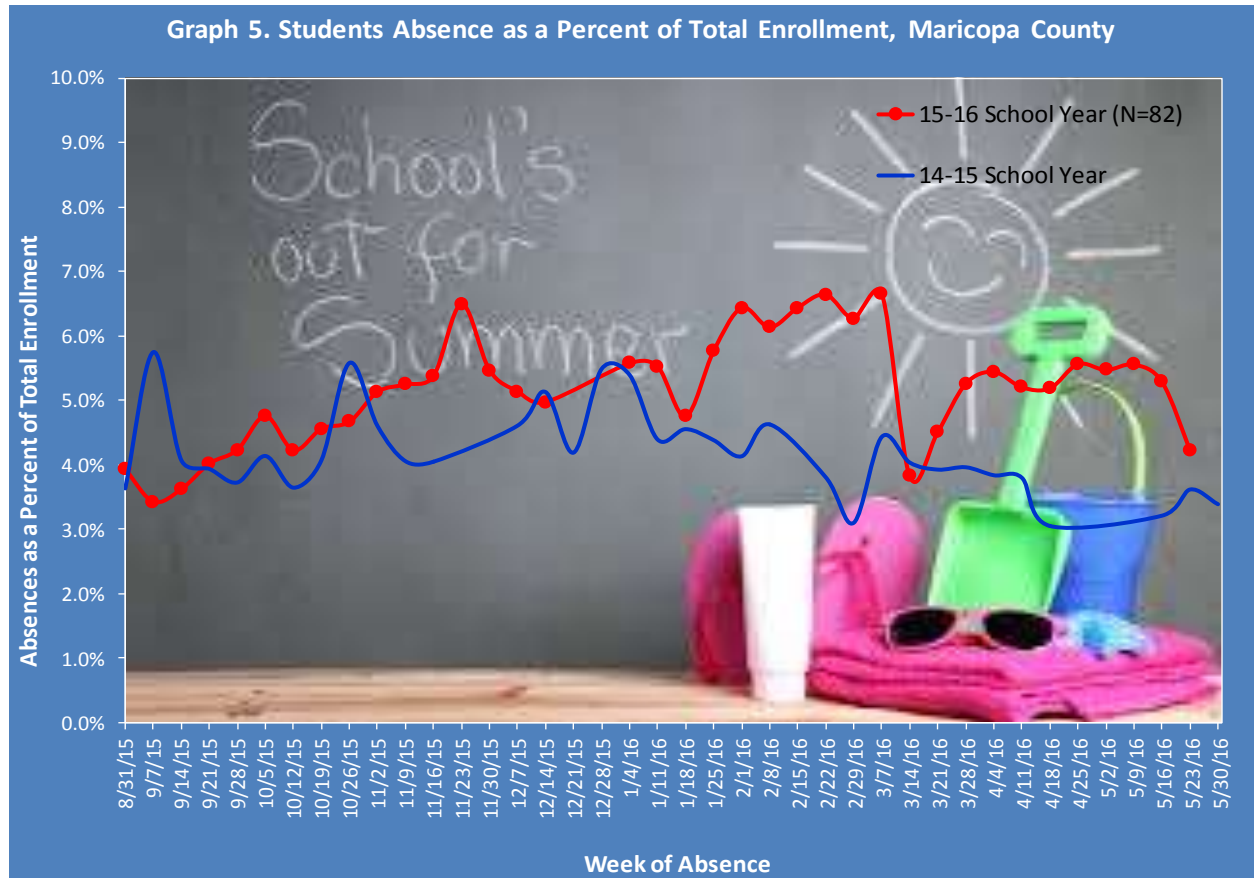
Influenza-Like Illness Activity at Sentinel Site Outpatient Facilities Reported to the Centers for Disease Control and Prevention (CDC)

Maricopa County sentinel sites (outpatient facilities) report visits due to flu-like symptoms. This week, **2.55%** of visits at outpatient facilities were due to flu-like symptoms, last week outpatient facilities reported **1.79%**.



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.



School Surveillance will begin again on September 1, 2016

**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/fluactivitiesurv.htm> (CDC)

http://www.who.int/influenza/gisrs_laboratory/updates/en/index.html (WHO)