

Maricopa County Department of Public Health WEEKLY INFLUENZA UPDATE 2016-2017 Season (10/02/2016-09/30/2017)

Reported January 26, 2017

2016-2017 Week 3(01/15/2017-01/21/2017)

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

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Annual Reports

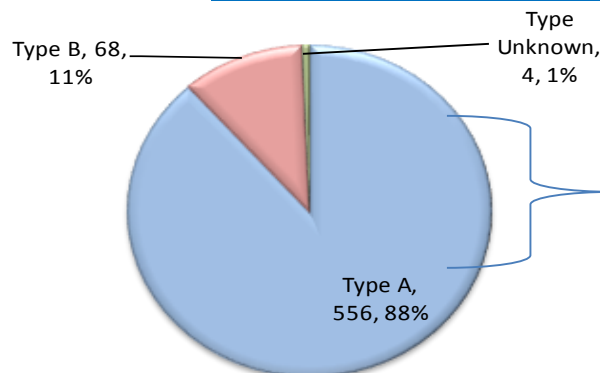


www.FluNearYou.org

The first official day of the 2016-2017 Influenza Season was October 2, 2016 and the surveillance season will continue through September 30, 2017. Maricopa County identified its first locally-acquired influenza case of the 2016-2017 season in week 40 (October 2016).

- Since October 2, 2016, **628** cases have been laboratory-confirmed
- Arizona reported **REGIONAL** activity for week **3**
- ILI (Influenza like Illness) is above the threshold in Outpatient Clinics.

Types of Influenza in Maricopa County



Type A Subtypes	Total Cases	%
H1N1	4	1%
H3	146	26%
Unknown	406	73%

Influenza Activity Levels, 2013-2017

	2016-2017	2015-2016	2014-2015	2013-2014
First Confirmed Case, no travel	10/03/2016	10/04/2015	10/03/2014	10/04/2013
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 w/Hospital ILI above Regional Threshold	Week 49, 52 & 1-3	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 w/Outpatient visits above the Threshold	Weeks 47,48 & 50 - 3	Weeks 45-52, 1-21, 23, 35 & 36	Weeks 48, 50-52, 1-10, 12-14	Weeks 51-52 & 1-11
Peak Week		Week 8 (2/21-2/27/2016)	Week 3 (1/18-24/2015)	Week 6 (2/2-8/2014)
Number of Pediatric Deaths		3	1	1
Total Cases	628	14,353	6,601	6,658

**Maricopa County Department of Public Health
INFLUENZA UPDATE
October 2, 2016 through January 21, 2017
Posted January 26, 2017**

Individuals with Laboratory Confirmed Influenza

The 2016-2017 influenza season starts on 10/02/2016 (week 40) and continues through 9/30/2017 (week 39). This influenza season (2016-17), there have been **628** laboratory confirmed influenza cases. The State of Arizona has reported **regional activity for Week 3 (1/15 – 1/21/2017)**. The chart below shows influenza laboratory test results. This graph represents each week of the current season (**red**) and previous seasons.

Graph 1. Number of Individuals with Confirmed Influenza Tests, Maricopa County

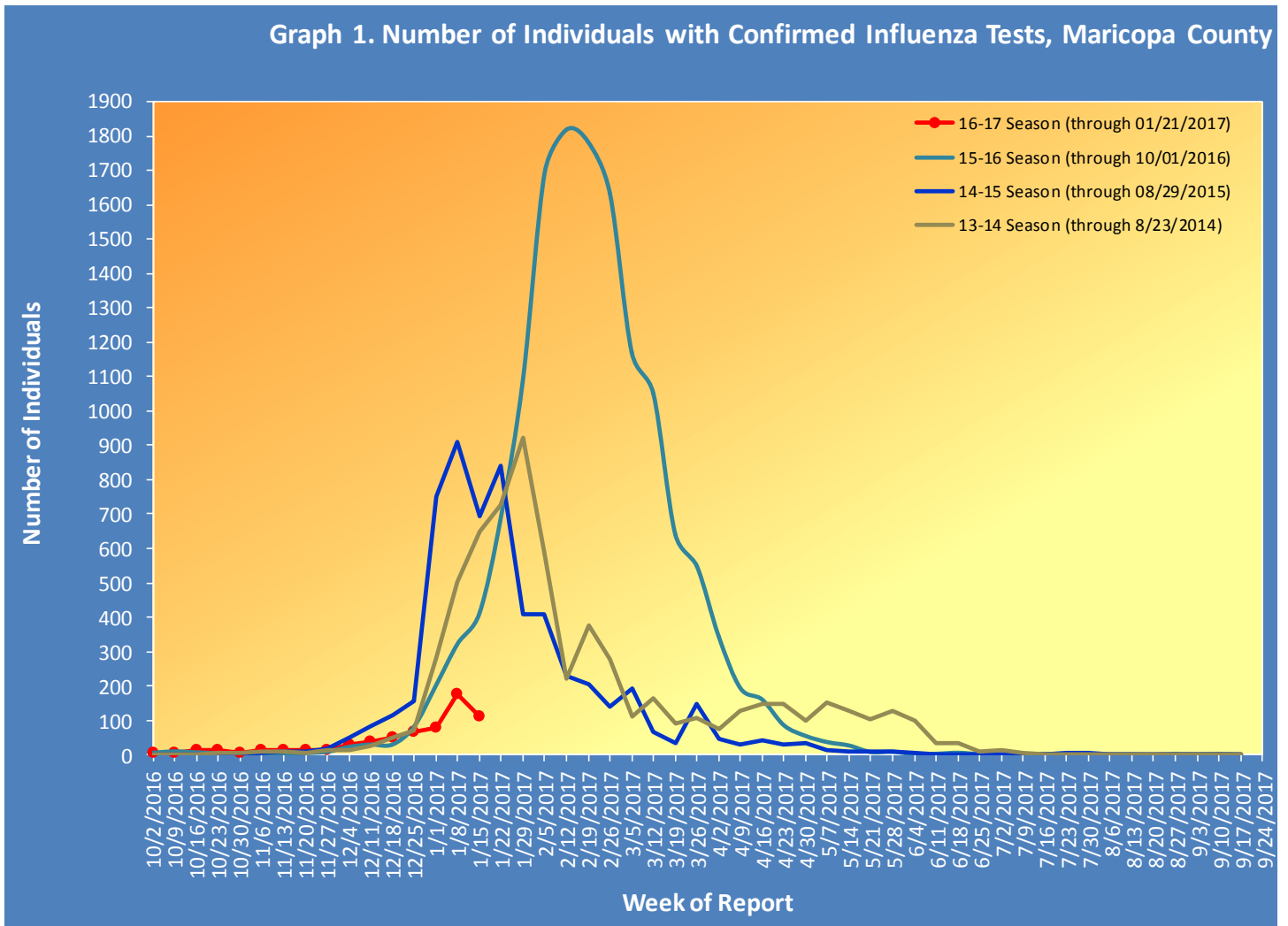


Table 1 shows the number of laboratory-confirmed cases.

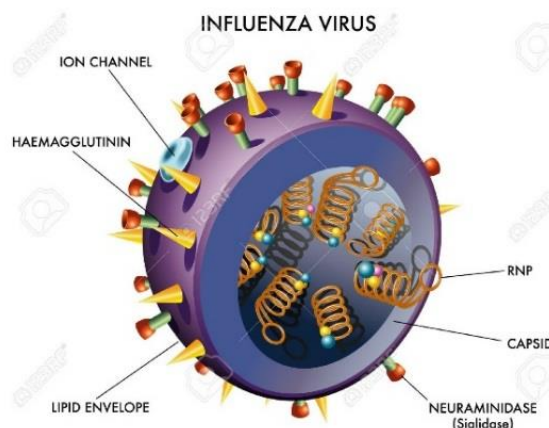
Table 1. Laboratory-Confirmed Influenza Cases Compared to Last Week and Last Season, Maricopa County		
Total	Cumulative Season Total	Current Week Total
2016-2017	628	111
2015-2016	528	323
3 season average	1274	579
<i>% increase compared to 2015-2016 season</i>	19%	-66%
<i>% increase compared to 3 season average</i>	-51%	-81%
<i>% increase compared to last week</i>	21%	-36%

Types of Influenza

This influenza season **628** 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, 2016-2017 Season, Maricopa		
Total	628	100%
Type A	556	89%
<i>Subtype 2009 H1N1</i>	4	1%
<i>Subtype H3</i>	146	26%
<i>Subtyping not performed or unknown</i>	406	73%
Type B	68	11%
Type Unknown	4	1%



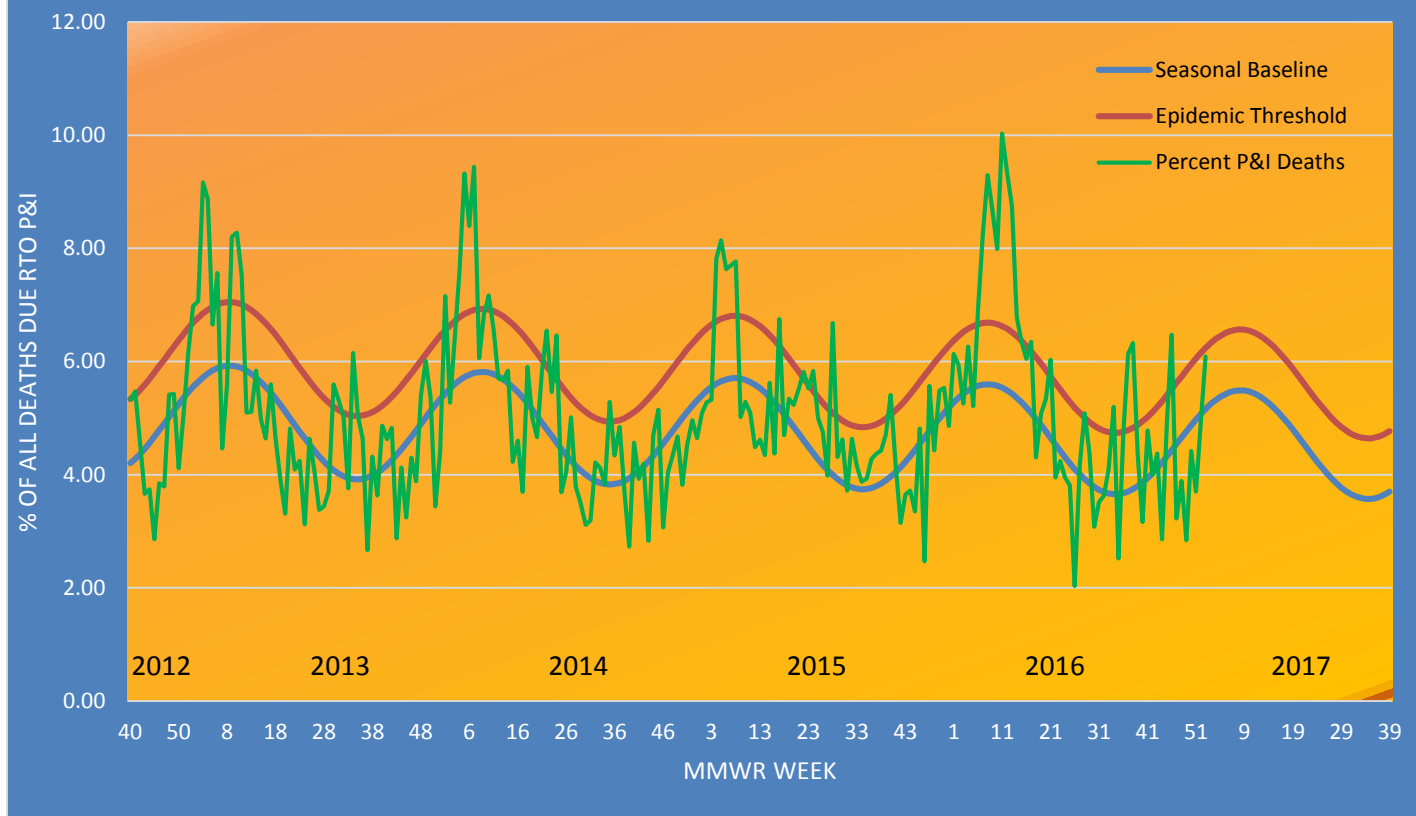
Pneumonia and Influenza (P&I) Deaths

This influenza season there have been **360** pneumonia and influenza (P&I) deaths. There has been **1** adult 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.

	Current Season (2016-2017) As of [01/21/2017]		Last Season (2015-2016) As of [1/23/2016]	
	Pneumonia and Influenza	Influenza	Pneumonia and Influenza	Influenza
Pediatric (Under Age 18)	1	0	5	1
Adult (18 and Over)	359	1	391	2

Graph 2. Pneumonia & Influenza Mortality Surveillance, Maricopa County
2012-2013 Season thru 2016-2017 Season

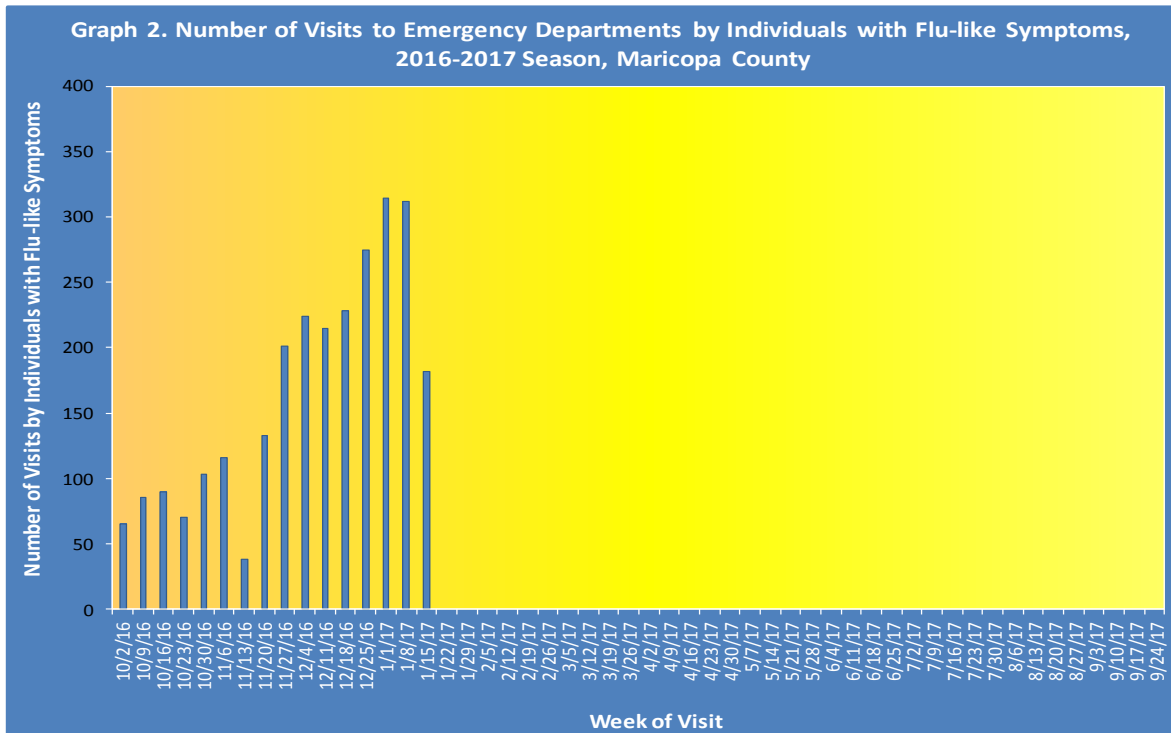


Based on Arizona Department of Vital Registration mortality surveillance data available on **January 21, 2017**, **5.25%** of the deaths occurring during **Week 2 (1/8-1/14/2017)** were due to P&I. This percentage is **below** the epidemic threshold of **6.39% for week 3**.

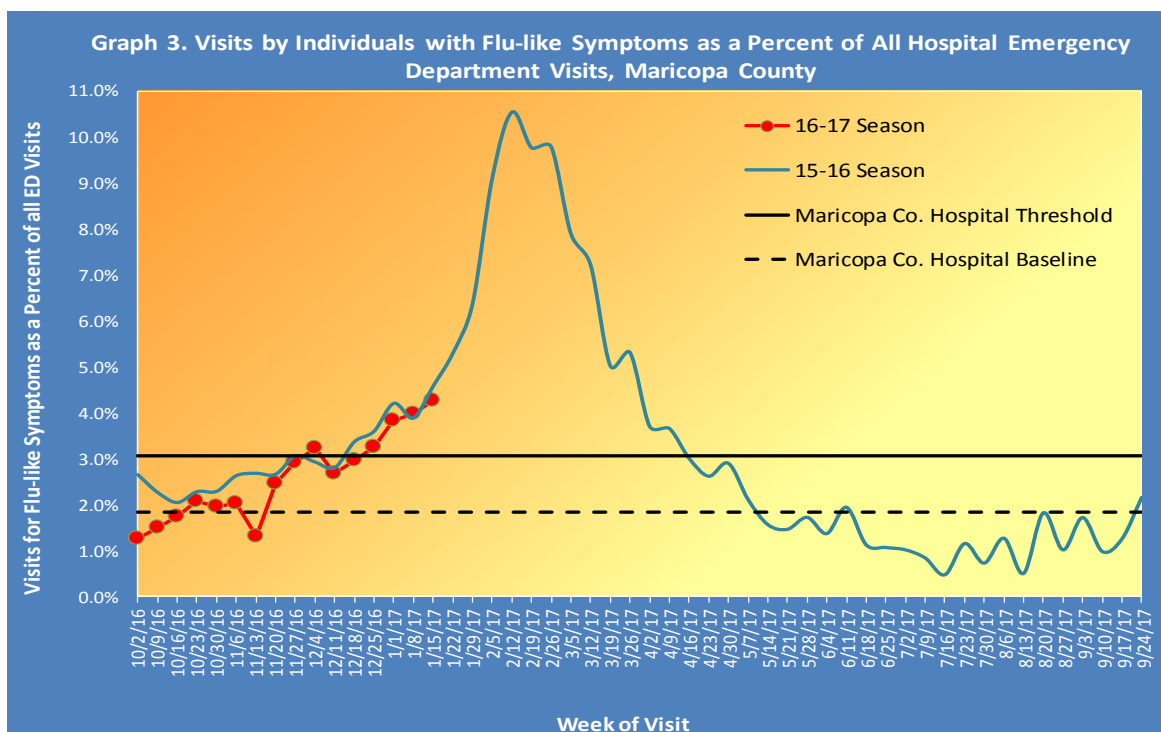
Influenza Like Illness Activity at Hospital Emergency Departments

This influenza season there have been **2620** 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.

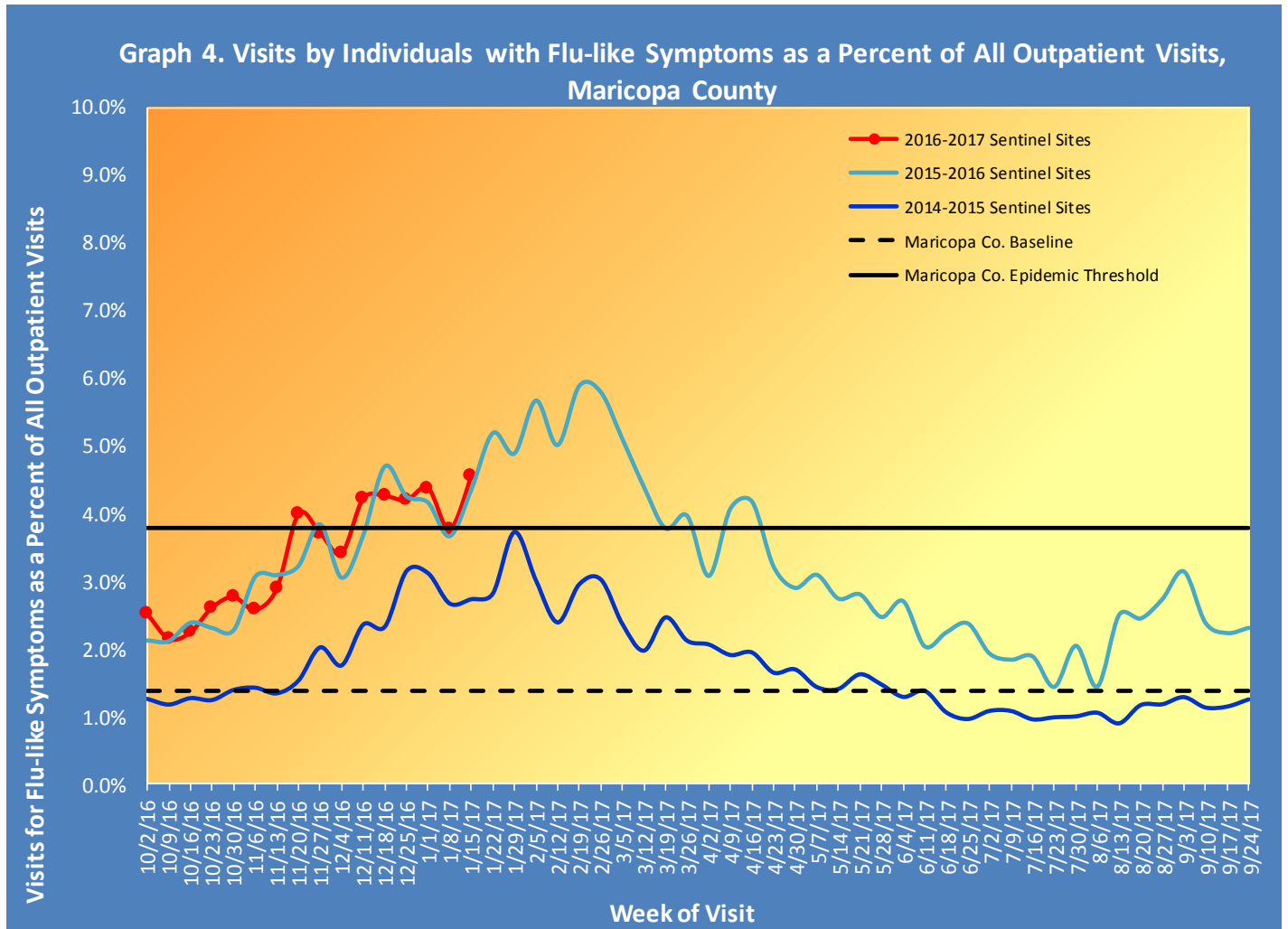


Graph 3 shows what percent of all emergency department visits were individuals with flu-like symptoms (fever and cough/sore throat). The graph shows the trend week by week, with the current season in red.



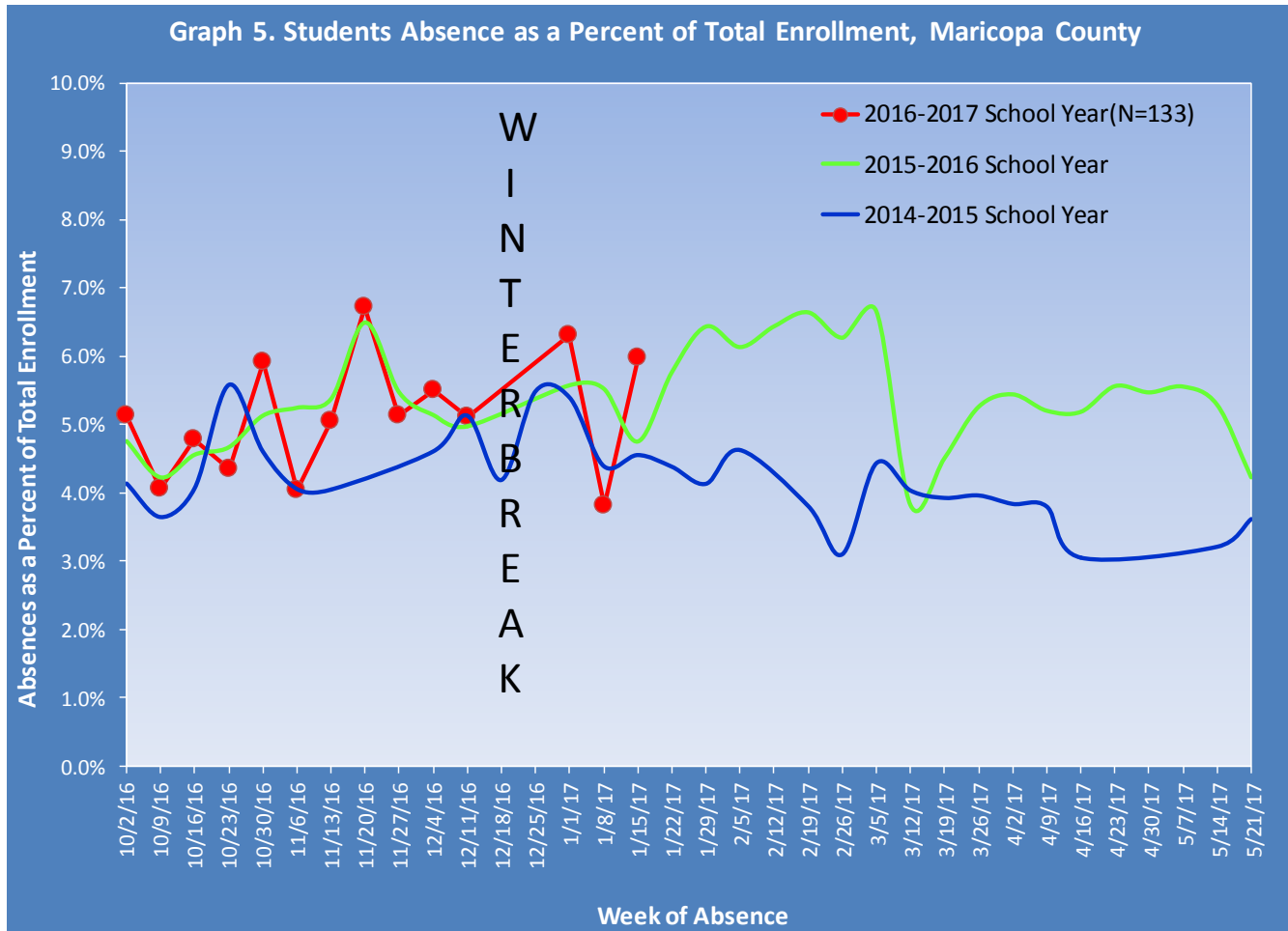
Influenza-Like Illness Activity at Sentinel Site Outpatient Facilities Reported to the Centers for Disease Control and Prevention (CDC)

Maricopa County sentinel sites (outpatient facilities) report visits due to flu-like symptoms. This week, **4.55%** of visits at outpatient facilities were due to flu-like symptoms, last week outpatient facilities reported **3.76%**.



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 (No school surveillance due to winter break).



**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)