

**MARICOPA COUNTY INFLUENZA SUMMARY and RSV UPDATE**  
**WEEK 51 (12/19/10-12/25/10)**

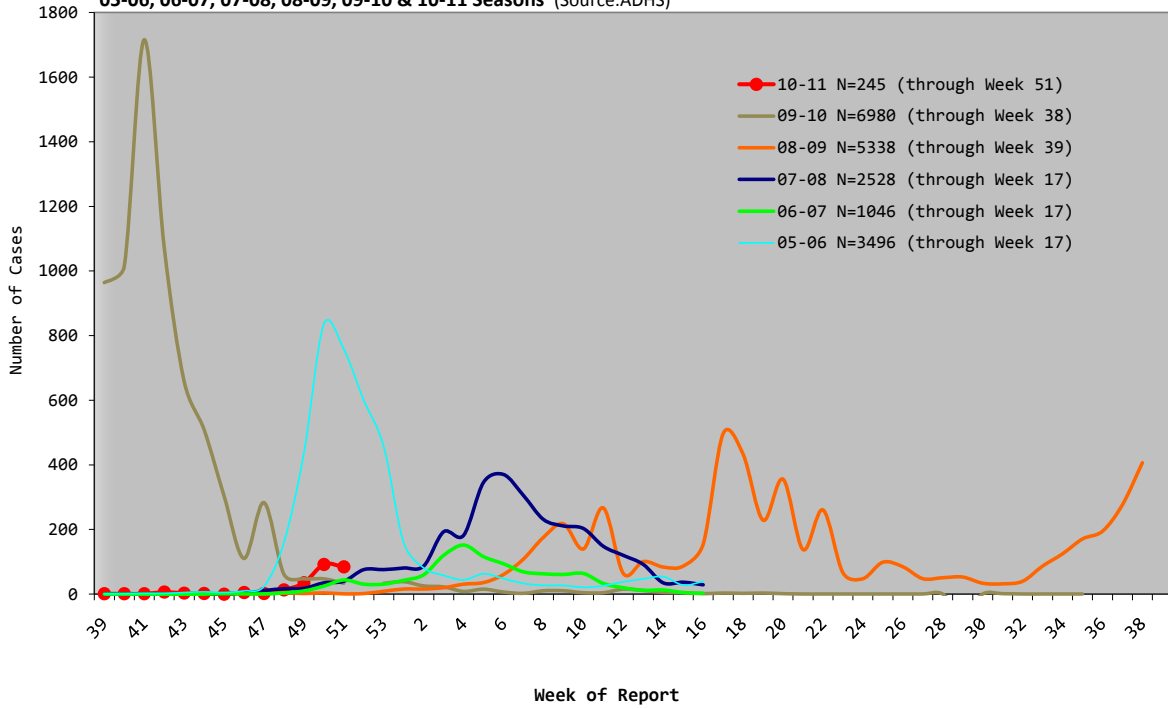
Data contained in this report reflect the time period above except where noted.

- **Current Key Findings:** Maricopa County continues to experience rising flu activity for the past week. Maricopa has a total of 245 confirmed cases of influenza. Of these, 78% are Influenza A, 19% B and 3% are of an unknown type. The following subtypes have been reported: A/Unknown (81, 33%), A/H3 (99, 40%), 2009 A/H1N1 (10, 4%), B (48, 19%), and Unknown (7, 3%).
- **Lab Confirmed Influenza:** Between weeks 50 and 51 of 2010, 84 cases of influenza have been confirmed at laboratories.
- **Pneumonia & Influenza Mortality:** 4.09% of deaths from all causes were due to pneumonia or influenza during week 51.
- **Pediatric Deaths Associated with Laboratory-Confirmed Influenza:** No deaths have occurred in the 2010-11 season. This time last season 9 pediatric deaths were associated with influenza.
- **Influenza-Like Illness (ILI) (Through week 51)**
  - **Cigna Health Centers (n=20):** 0.17% of visits were due to ILI (provisional data; subject to change as updated information becomes available).
  - **Hospital Emergency Departments (n=13):** 3.44% of visits were due to ILI. Last week the percentage of hospital emergency department visits due to ILI was 3.51%.
  - **Arizona State University Student Health Services:** 0.33% of visits were due to ILI. Last week, 1.03% of visits were due to ILI.
- **Selected Emergency Department (ED) Visits: (n=8)**
  - 0.57% of all visits were due to ILI. (As of 12/30/2010)
  - 17.27% of all visits were due to a respiratory syndrome. (As of 12/30/2010)
- **School Syndromic Surveillance** (criteria:  $\geq 3$  days/week of reporting and 50% known absenteeism): Winter recess, no data available for week 52.
- **Respiratory Syncytial virus (RSV):** 19 new cases of RSV have been reported during week 51. Last week, 18 cases were reported.

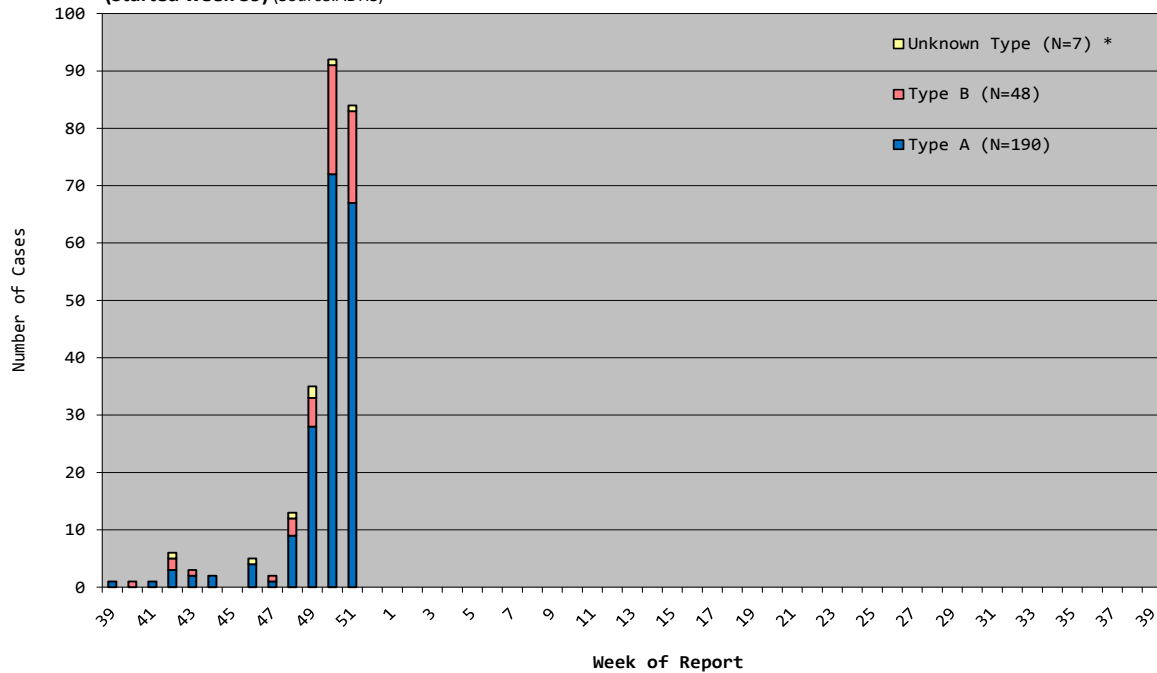
**Arizona Influenza Activity Levels:** (see definitions at <http://www.cdc.gov/flu/weekly/fluactivity.htm>)

	2010-2011	2009-2010	2008-2009	2007-2008	2006-2007
<b>This Week</b>	Regional	Regional	Local	Regional	Sporadic
<b>Last Week</b>	Regional	Regional	Sporadic	Local	Sporadic
<b>Date First Case Confirmed</b>	Sept. 28, 2010	Confirmed during summer	Nov. 19, 2008	Nov. 19, 2007	Nov. 17, 2006
<b>Weeks with Widespread Activity</b>	-	Weeks 40 – 48	Weeks 6 – 13 Weeks 17 – 24 Weeks 35 – 39	Weeks 4 – 12	No widespread activity

**Lab-Confirmed Influenza Cases Reported:  
05-06, 06-07, 07-08, 08-09, 09-10 & 10-11 Seasons** (Source:ADHS)

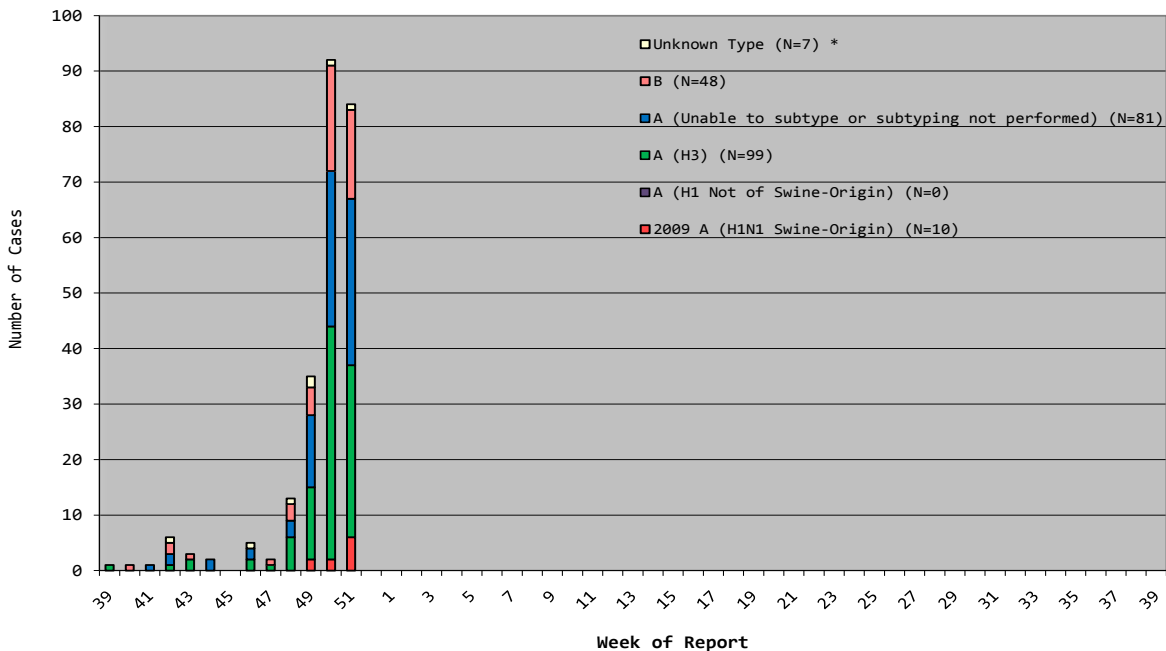


**Lab-Confirmed Influenza Cases Reported, 10-11 Season  
(Started week 39)** (Source:ADHS)



\*Sample sizes shown in chart legend represent confirmed influenza cases for the 2010-2011 season only. (Starting week 39)

**Lab-Confirmed Influenza Cases Reported, 10-11 Season  
(Started week 39) (Source:ADHS)**



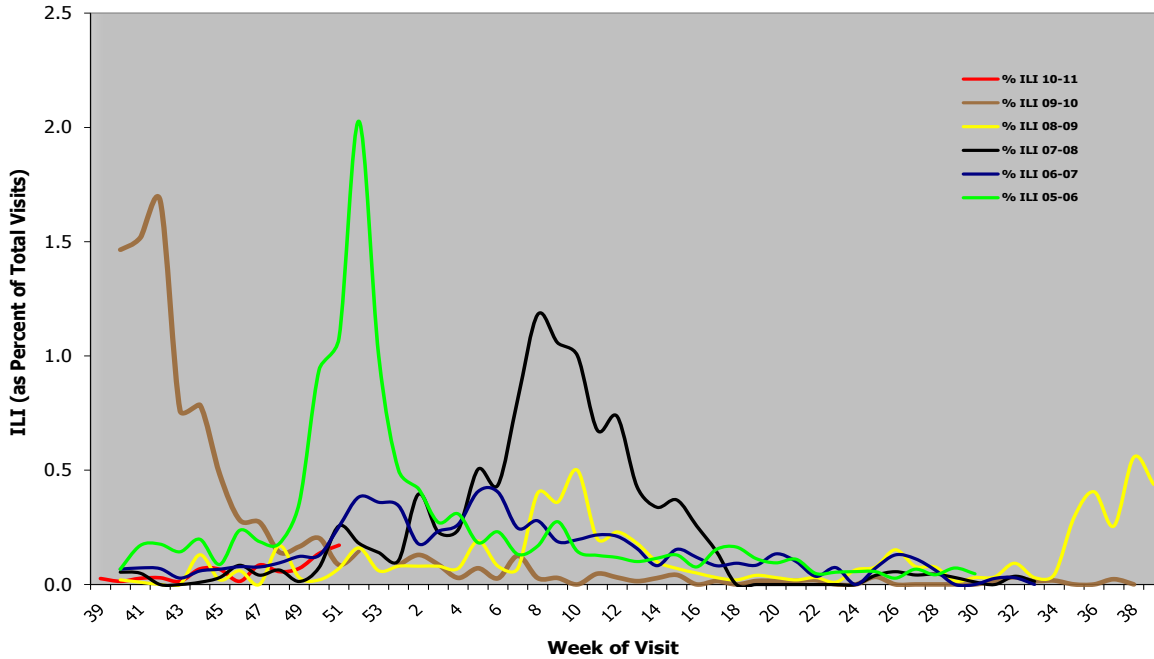
\*Sample sizes shown in chart legend represent confirmed influenza cases for the 2010-2011 season only. (Starting week 39)

# Influenza-Like Illness (ILI)\* Surveillance

***\*ILI case definition: fever (at least 100°F) AND cough and/or sore throat.***

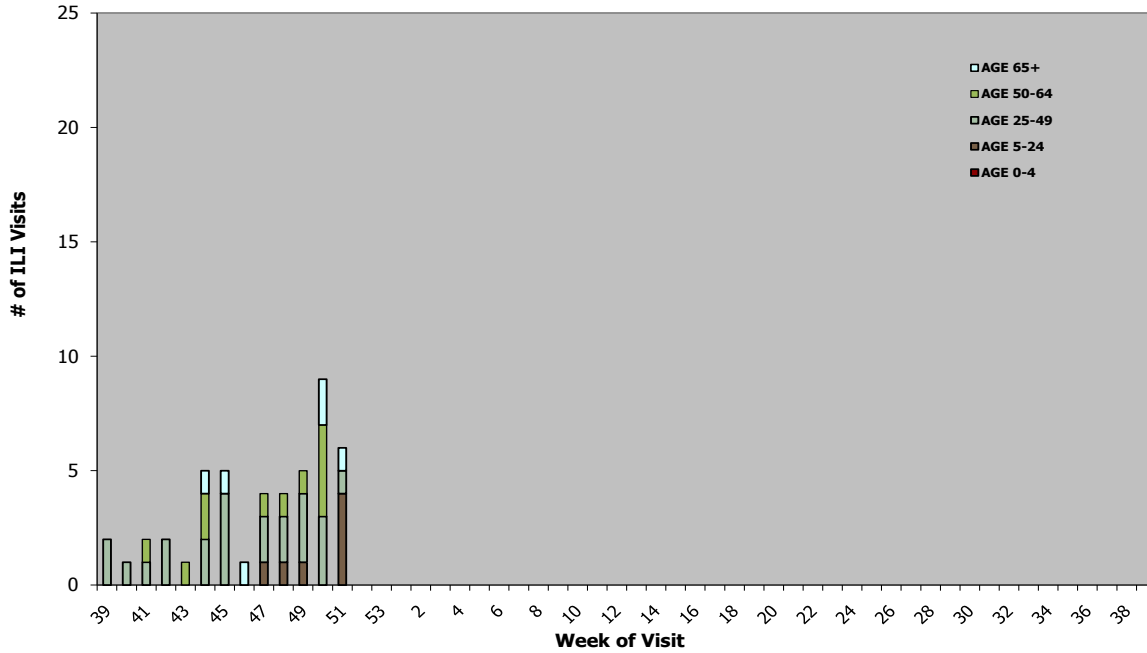
- During Week 51, 0.17% of patient visits to Cigna Health Care Centers (data from 20 centers, six departments) were due to ILI. During Week 51 of the two previous seasons, 0.09% (09-10) and 0.07% (08-09) of patient visits to Cigna Health Care Centers were due to ILI. (\*Provisional data; may change in subsequent reports as updated information becomes available.)
- The percentage of Emergency Department visits for ILI was 3.44% for Week 51. During Week 51 of the two previous seasons, 2.47% (09-10) and 1.59% (08-09) of patient visits were due to ILI.
- Arizona State University Student Health Services had 0.33% of patient visits due to ILI during Week 51.

Cigna Health Care Centers (n=20): ILI Visits as Percentage of Total Visits, 05-06, 06-07, 07-08, 08-09, 09-10 & 10-2011 Seasons\* (Source: Cigna Health Care Centers)



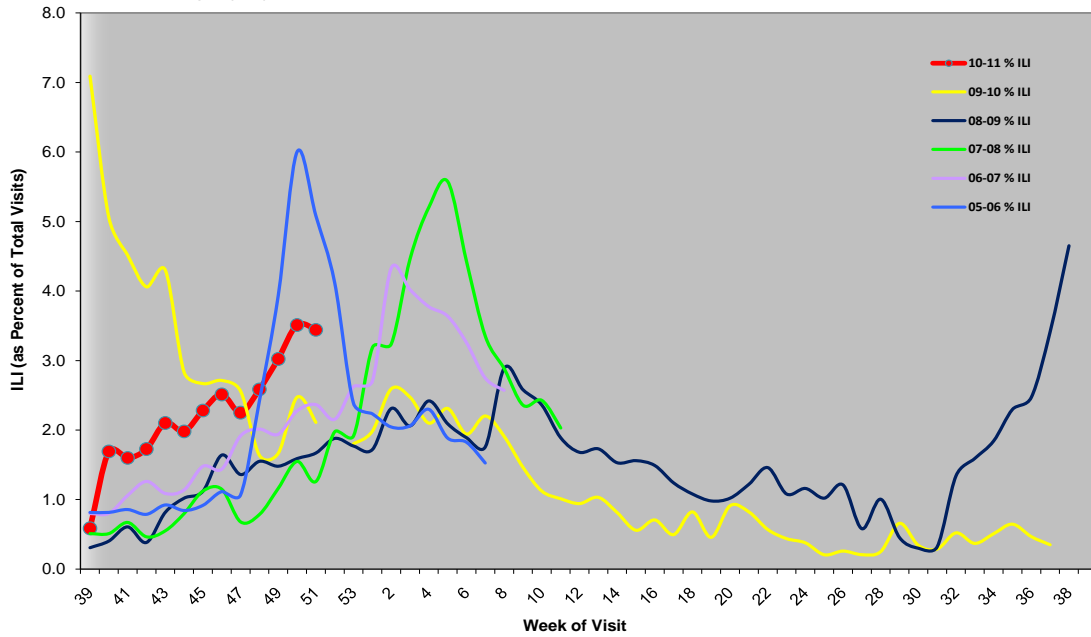
\*Data may change in subsequent reports as updated information becomes available.

**Cigna Health Care Centers (n=20): Number of Visits for Influenza-Like Illness (by age group) 10-11 Season**  
 (Source: Cigna Health Care Centers)

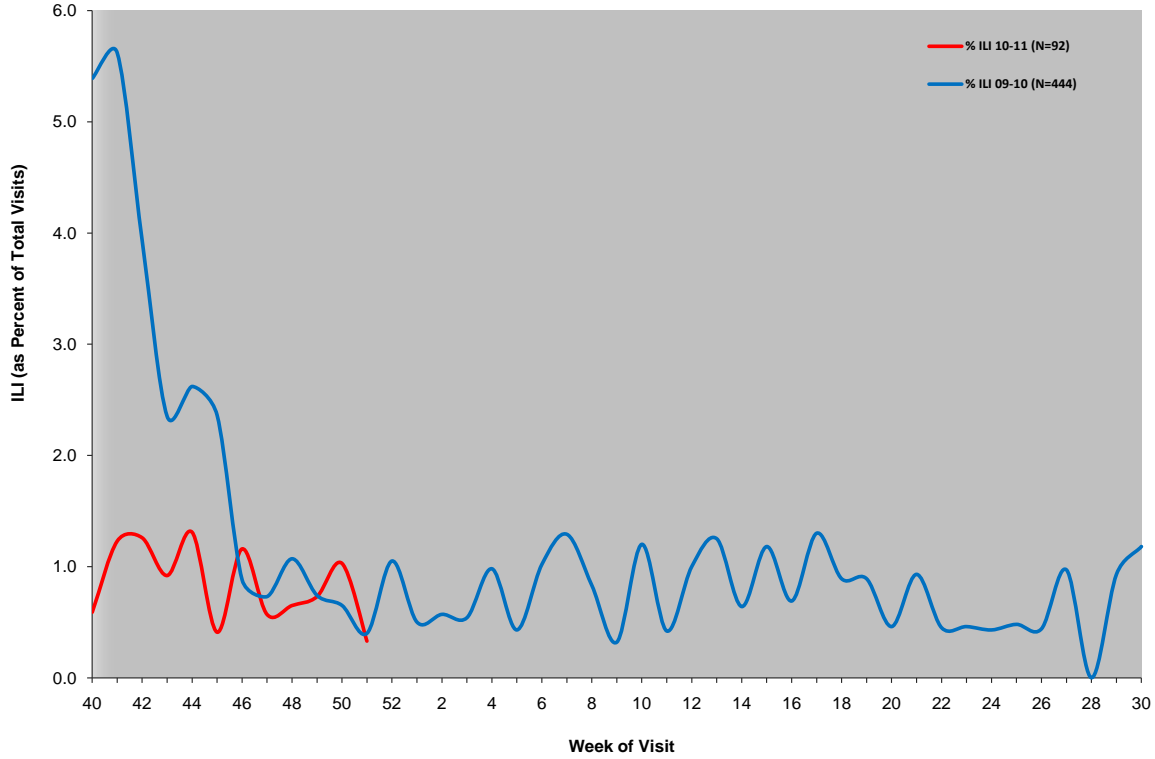


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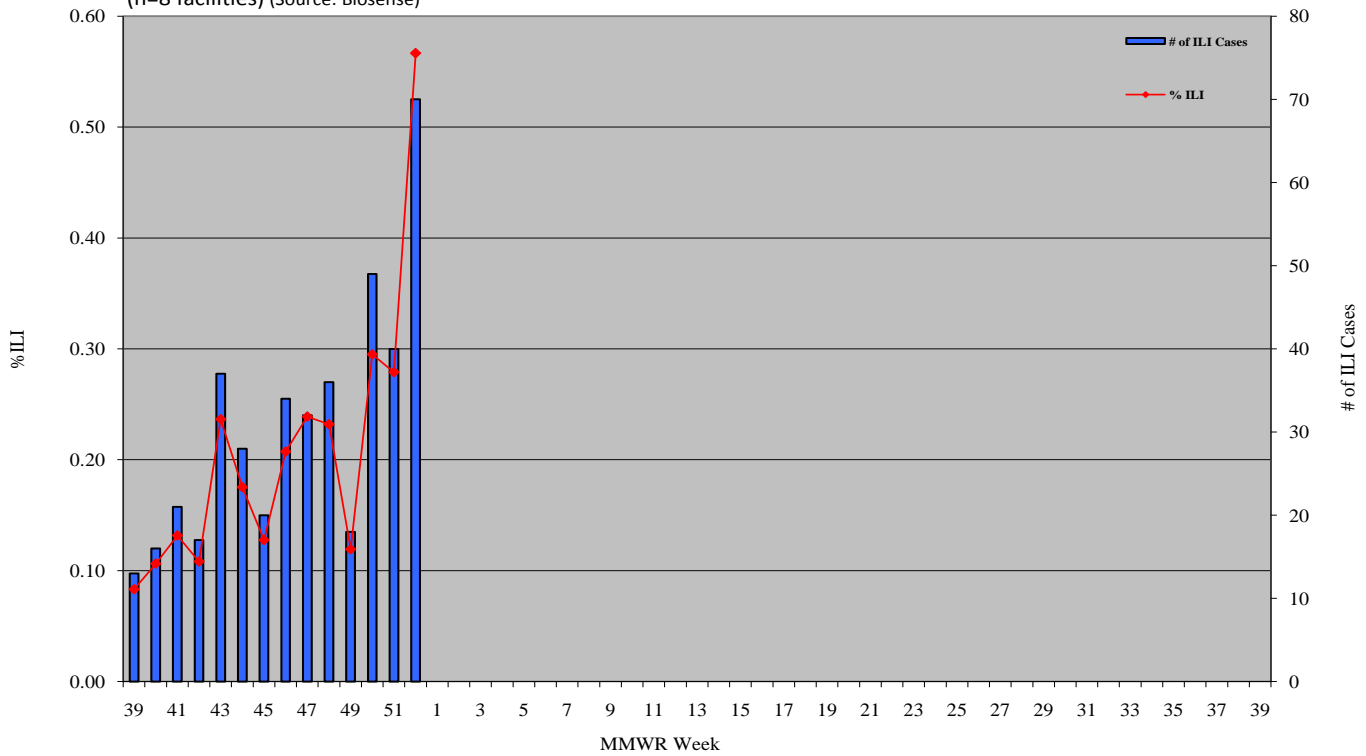
**Hospital Emergency Departments (n=16): ILI Visits as Percentage of Total Visits**  
 05-06, 06-07, 07-08, 08-09, 09-10 & 10-11 Seasons  
 (Source: 16 Emergency Departments)



Arizona State University Student Health Services: ILI Visits as Percentage of Total Visits  
09-10 & 10-2011 Seasons\* (Source: Arizona State University)

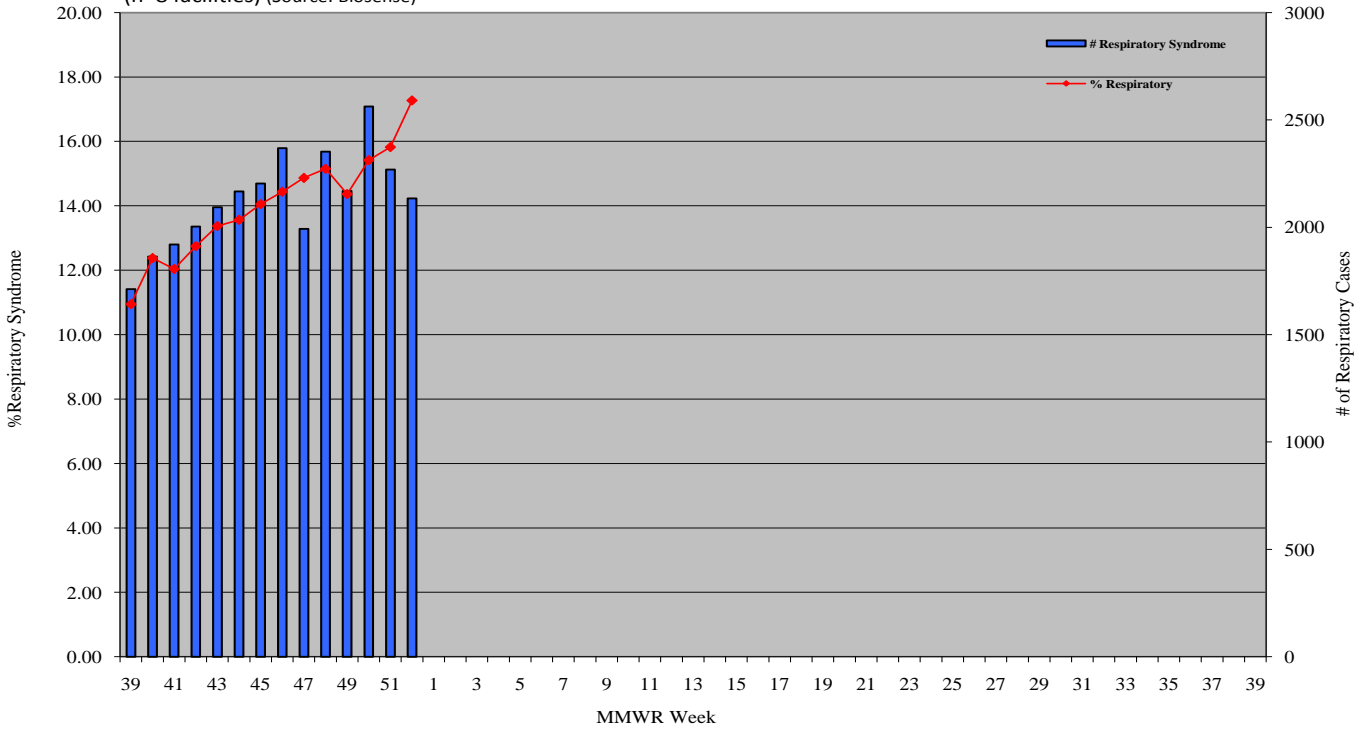


Selected Emergency Departments Weekly Syndromic Surveillance: Influenza-Like-Illness  
(n=8 facilities) (Source: Biosense)



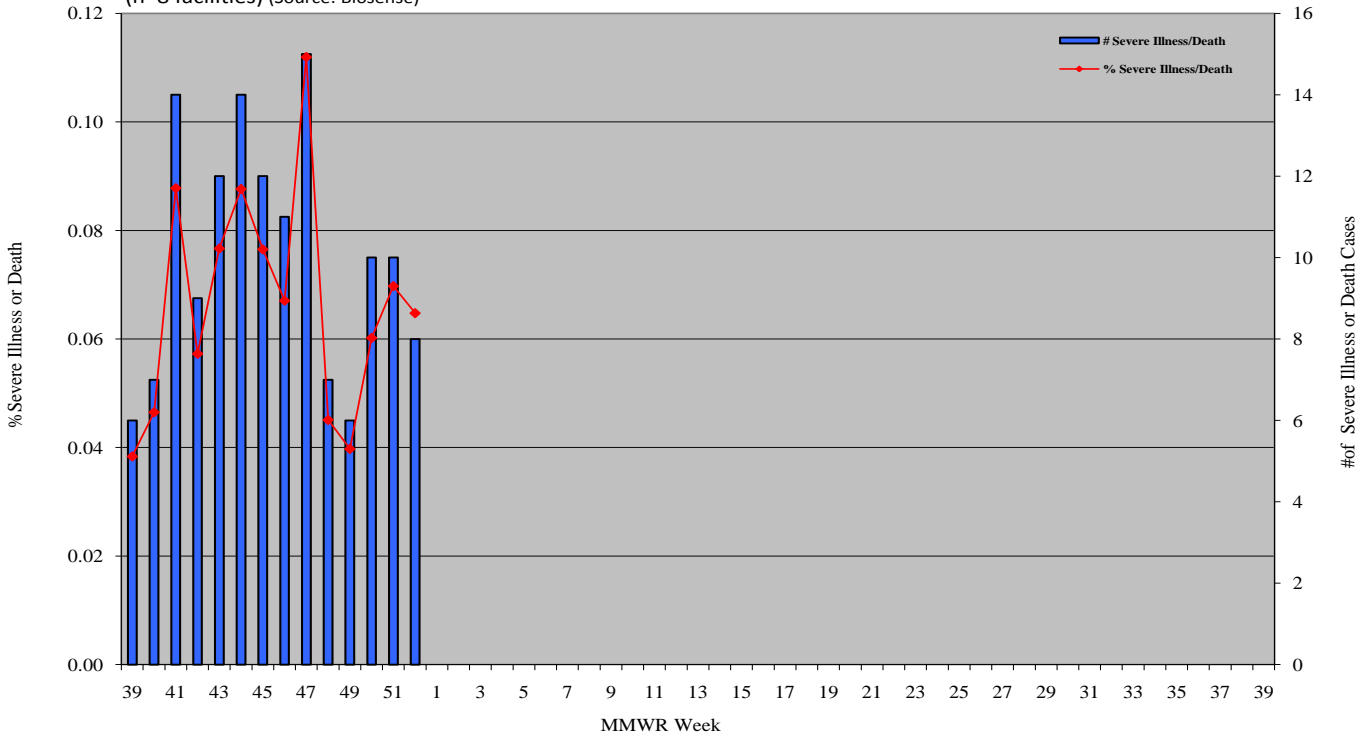
**Selected Emergency Departments Weekly Syndromic Surveillance: Respiratory Syndromes**

(n=8 facilities) (Source: Biosense)

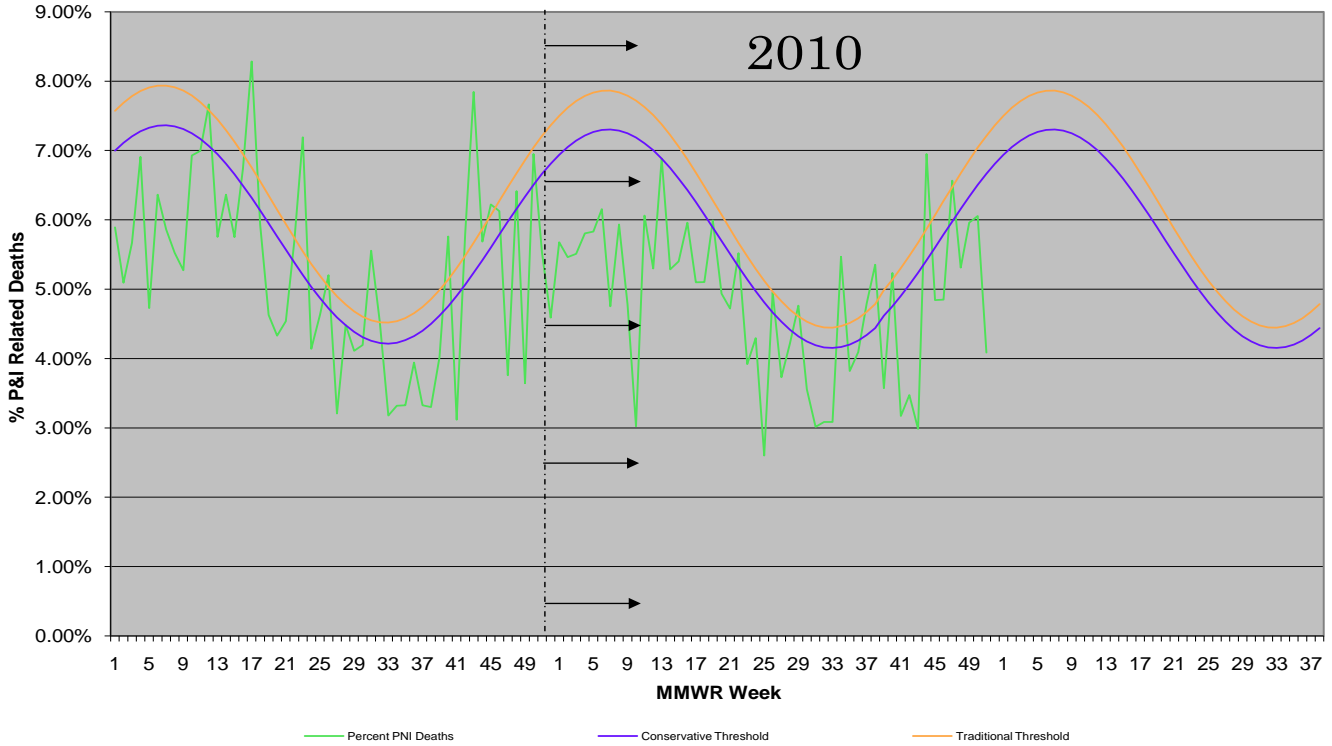


**Selected Emergency Departments Weekly Syndromic Surveillance: Severe Illness/Deaths**

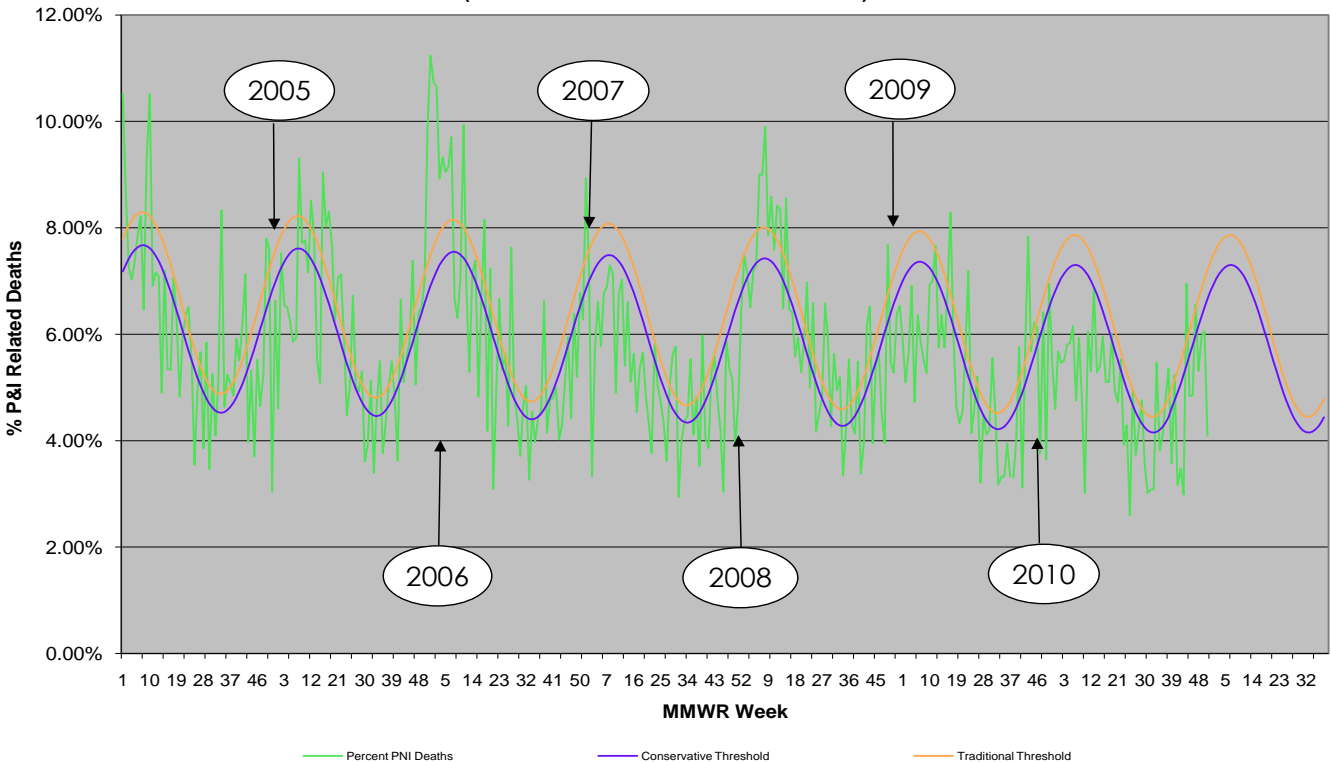
(n=8 facilities) (Source: Biosense)



**Maricopa County 2010-2011**  
**Pneumonia and Influenza Related Deaths**  
 ( Source: MCDPH Office of Vital Statistics)

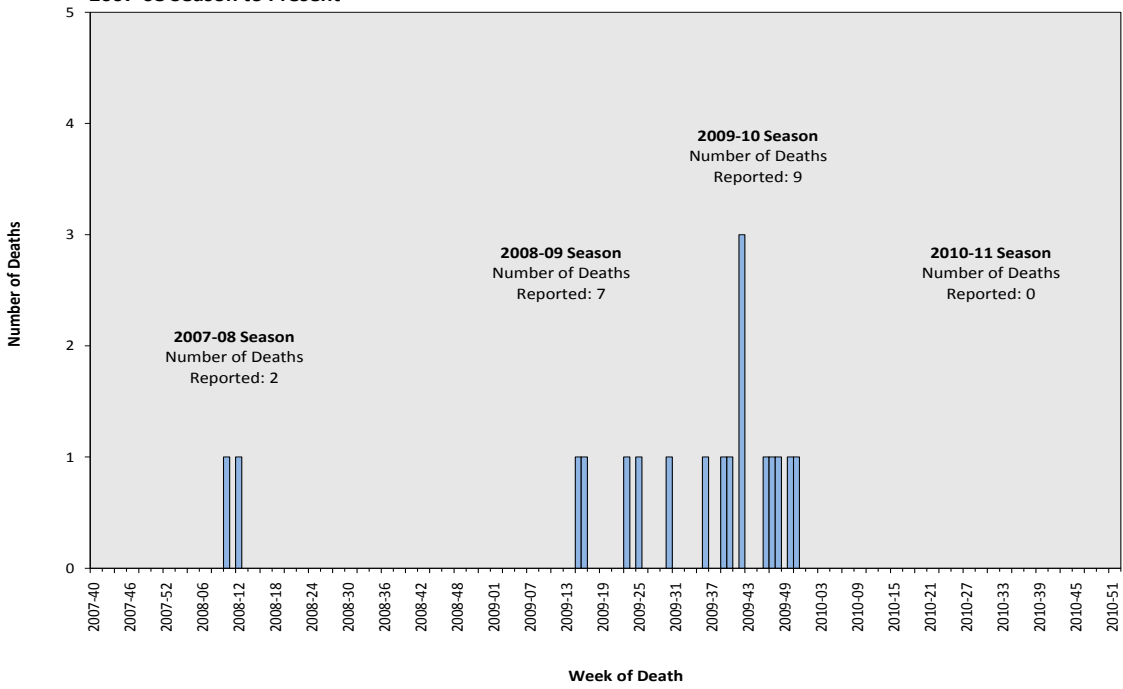


**Maricopa County 2004-2011**  
**Pneumonia and Influenza Related Deaths**  
 ( Source: MCDPH Office of Vital Statistics)

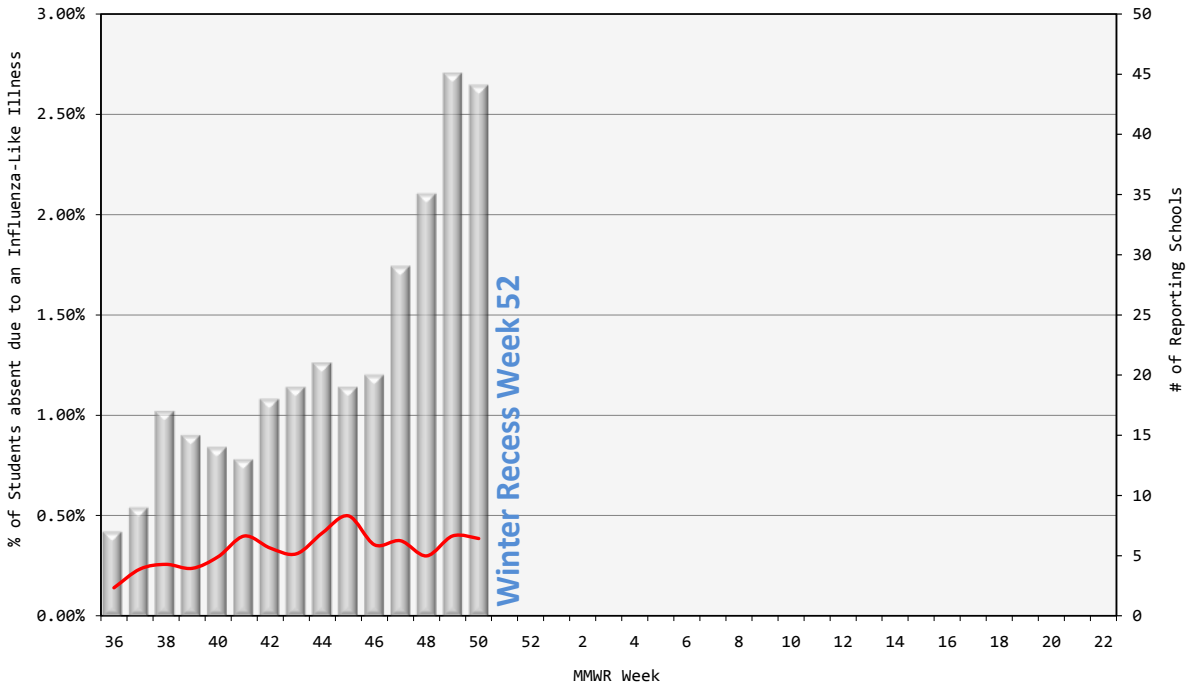




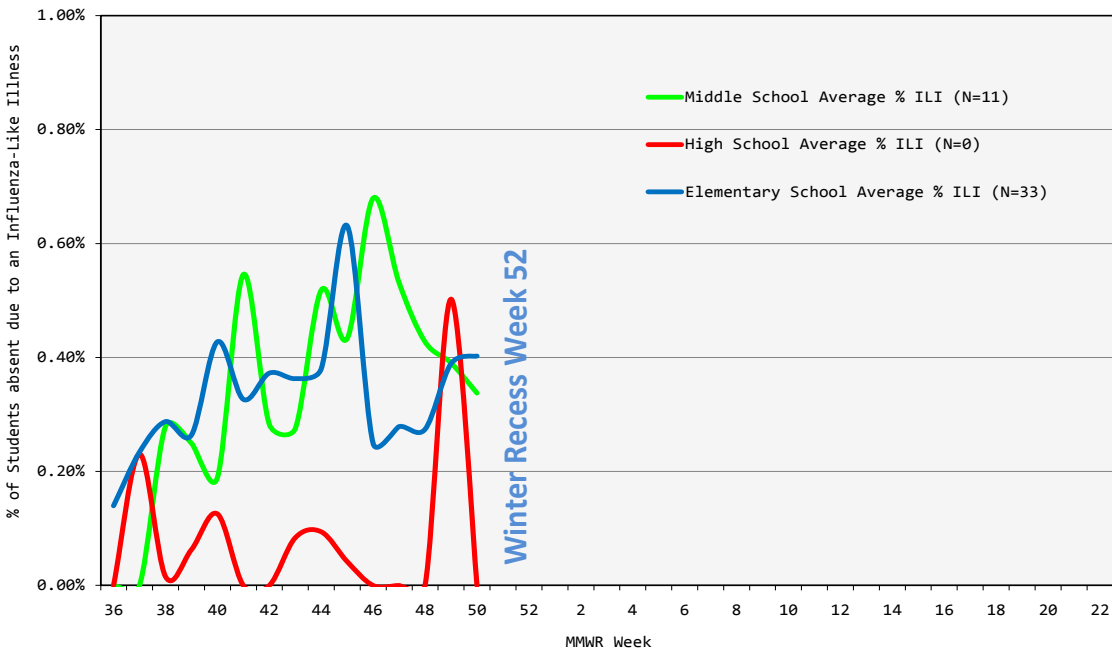
**Number of Pediatric Deaths Associated with Laboratory-Confirmed Influenza by Week of Death:  
2007-08 Season to Present**



Maricopa County 2010-2011:  
School ILI Surveillance by MMWR Week (N=44 Schools)



Maricopa County 2010-2011:  
School ILI Surveillance by MMWR Week (N=44 Schools)



**Glossary:**

2010-2011 Influenza Season is September 26, 2010 through October 1, 2011. In terms of the surveillance weeks recognized by the Centers for Disease Control, the 2010-11 Season is Week 39 2010 through Week 39 2011.

**Activity Levels:** Indicator of the geographic spread of influenza activity, reported to CDC by all states each week.

**Widespread:** Increased influenza-like illness from sentinel providers (ILI) in three or more regions and large numbers of laboratory-confirmed influenza cases in those regions.

**Regional:** Increased ILI in two regions and elevated numbers of laboratory-confirmed influenza cases in those regions.

**Local:** Increased ILI in one region and elevated numbers of laboratory-confirmed influenza cases in that region.

**Sporadic:** No increase in ILI activity and only isolated laboratory-confirmed influenza cases.

**No Activity:** No increase in ILI activity and no laboratory-confirmed influenza cases.

**Influenza Activity outside Maricopa County**

Information on influenza activity outside Maricopa County is available at these sites:

- [http://azdhs.gov/phs/oids/epi/flu/az\\_flu\\_surv.htm](http://azdhs.gov/phs/oids/epi/flu/az_flu_surv.htm) (Arizona Department of Health Services)
- <http://www.cdc.gov/flu/weekly/fluactivity.htm> (CDC)

Due to wide variability between national- and local-level data, it is not appropriate to apply any national baselines or thresholds to the information presented in this report.

Please email any questions about this report to: [vjollcaberisha@mail.maricopa.gov](mailto:vjollcaberisha@mail.maricopa.gov)

Report generated: 12/30/2010

**Influenza Surveillance Participants include:**

Arizona Department of Health Services

Cigna Health Care Centers

Arizona State University Campus Health Services

Local Hospital Emergency Departments & Infection Control Practitioners

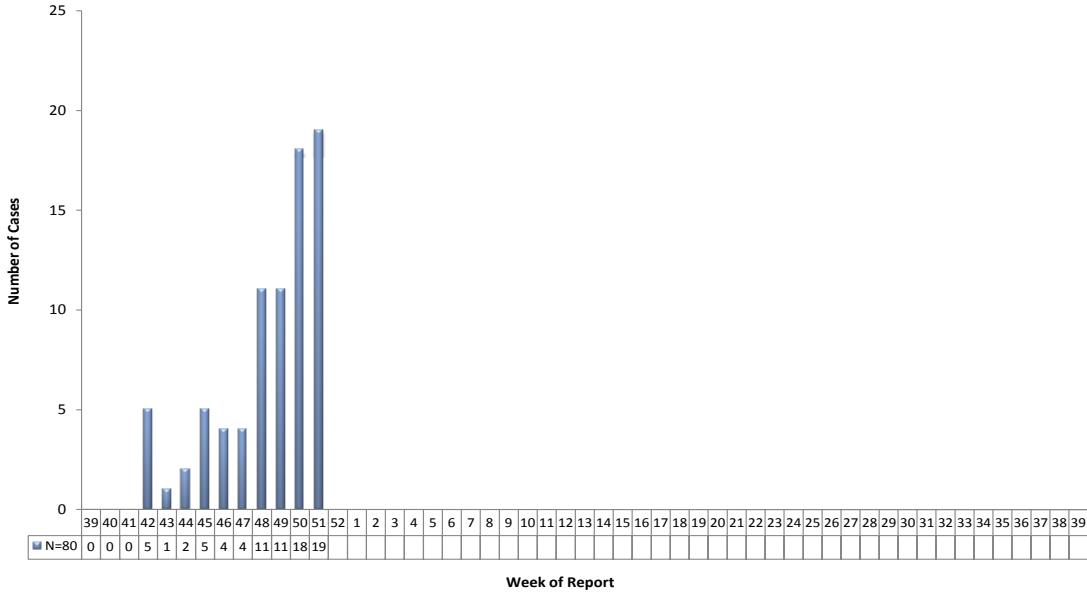
72 Maricopa County Public Schools

# MARICOPA COUNTY RSV SUMMARY UPDATE

## WEEK 51 (12/19/10-12/25/10)

**Respiratory Syncytial Virus (RSV) Lab Surveillance:** At the time of this report, 80 lab-confirmed cases of RSV have been reported through Week 51.

**Lab-Confirmed Respiratory Syncytial Virus (RSV) Cases Reported:  
10-11 Season** (Source: ADHS)



**Lab-Confirmed Respiratory Syncytial Virus (RSV) Cases:  
05-06, 06-07, 07-08, 08-09, 09-10 & 10-11 Seasons** (Source: ADHS)

