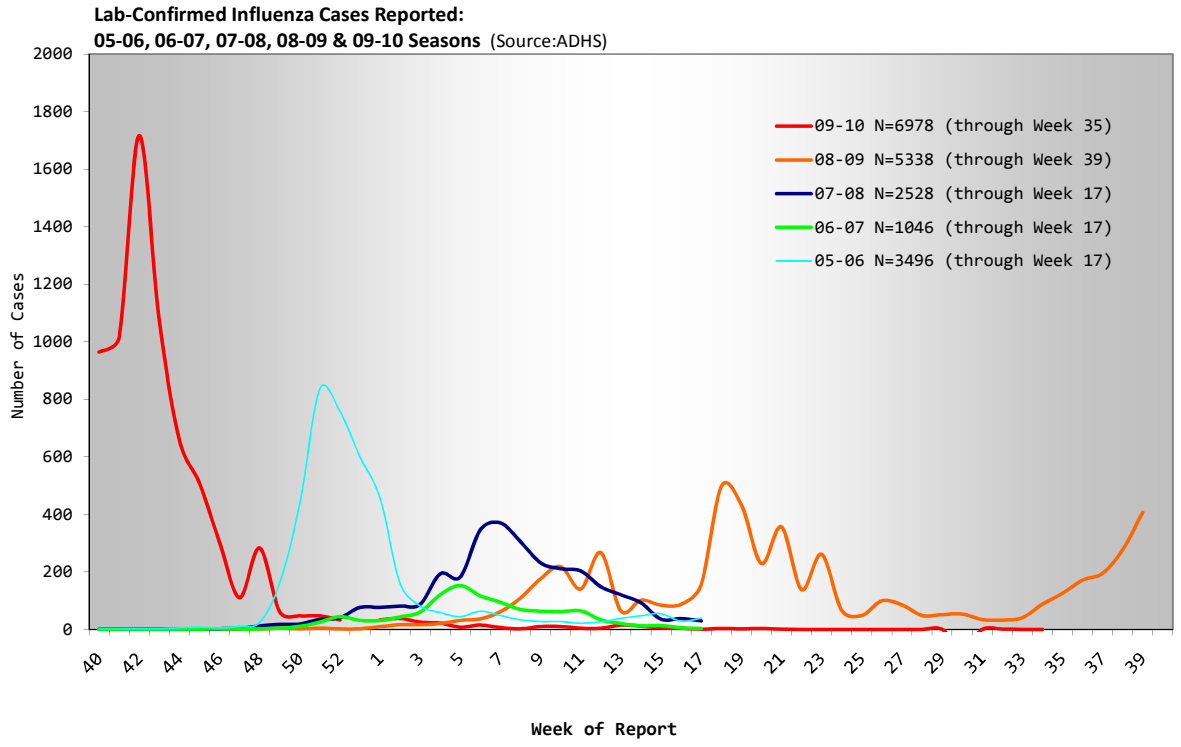
MARICOPA COUNTY INFLUENZA SUMMARY UPDATE

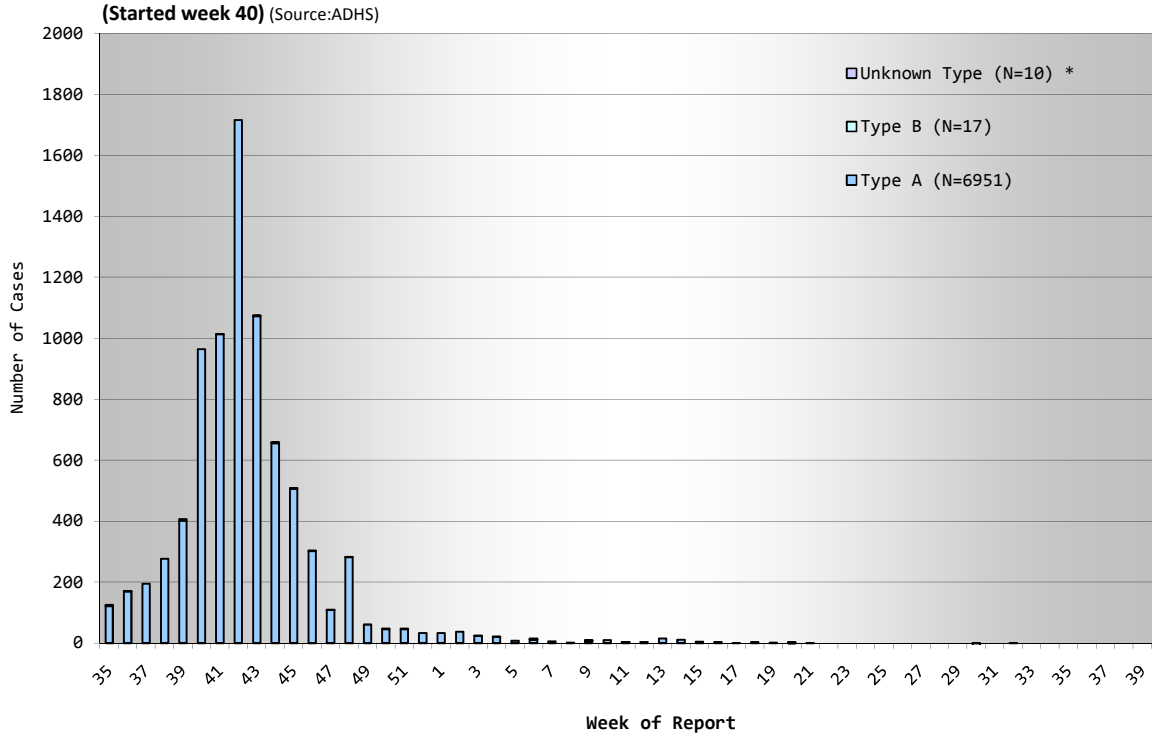
WEEK 35 (8/29/10-9/4/10)

Data contained in this report reflect the time period above with the exception of Lab Confirmed Influenza which reflects the season total and Selected Emergency Departments which show more current data.

- **Lab Confirmed Influenza:** Between weeks 40 of 2009 and week 35 of 2010**, 6978** cases of influenza have been confirmed at the Arizona State Laboratory.
- **Pneumonia & Influenza Mortality:** 3.82% of deaths were due to pneumonia or influenza during week 35.
- **Influenza-Like Illness (ILI)** (Through week 35)
  - **Cigna Health Centers** (n=20)**:** 0.00% of visits due to ILI. (provisional data; subject to change as updated information becomes available)
  - **Hospital Emergency Departments** (n=17)**:** 0.51% of visits were due to ILI. Due to low influenza activity at this time, only five hospital emergency departments reported.
- **Selected Emergency Department (ED) Visits:** (n=6)
  - 0.10% of all visits were due to ILI (As of 9/10/2010)
  - 12.98% of all visits were due to a respiratory syndrome (As of 9/10/2010).
- **School Syndromic Surveillance:** discontinued starting week 20 due to summer vacation.

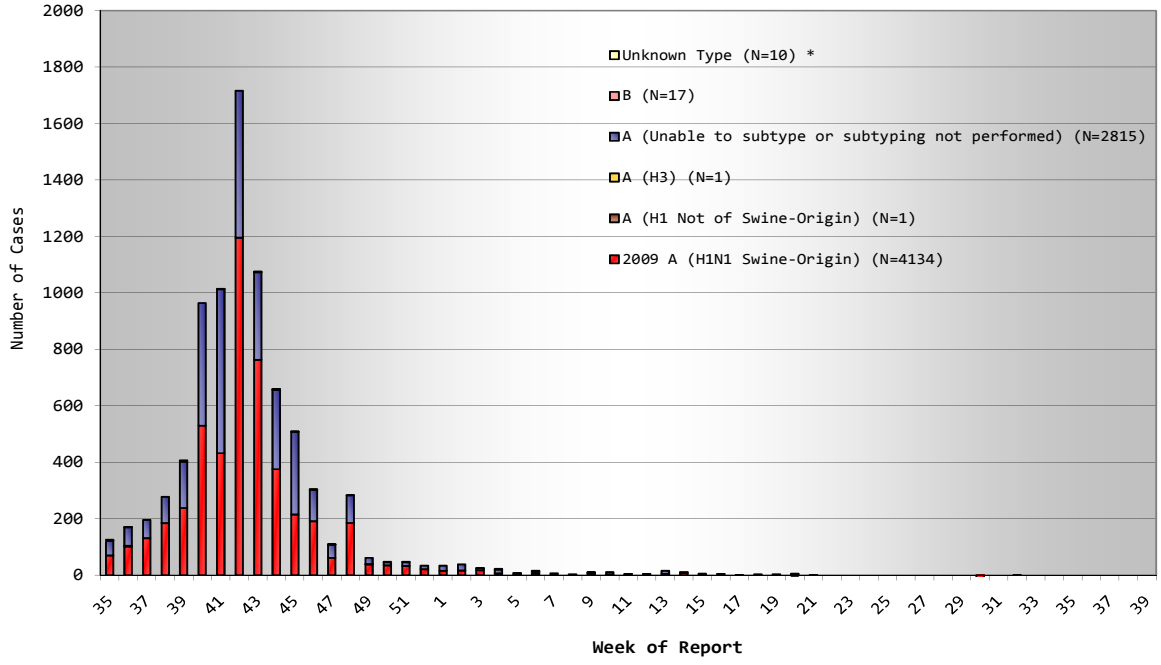


Lab-Confirmed Influenza Cases Reported, 08-09 Season (Weeks 35-39 only) & 09-10 Season (Started week 40) (Source:ADHS)



*Sample sizes shown in chart legend represent confirmed influenza cases for the 2009-2010 season only. (Starting week 40)

Lab-Confirmed Influenza Cases Reported, 08-09 Season (Weeks 35-39 only) & 09-10 Season (Started week 40) (Source:ADHS)



*Sample sizes shown in chart legend represent confirmed influenza cases for the 2009-2010 season only. (Starting week 40)

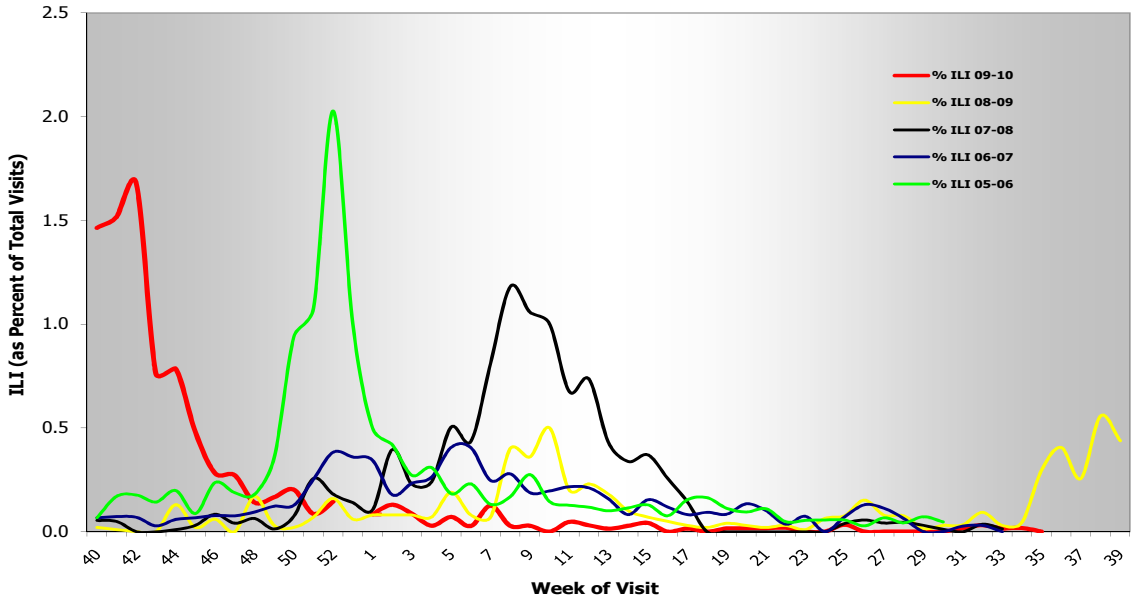
Influenza-Like Illness (ILI) Surveillance*

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

- During Week 35, 0.00% of patient visits to Cigna Health Care Centers (data from 20 centers, six departments) were due to ILI. During Week 35 of the two previous seasons, 0.30% (08-09) and 0.036% (07-08) of patient visits to Cigna Health Care Centers were due to ILI. (*Provisional data; may change in subsequent reports as updated information becomes available.)

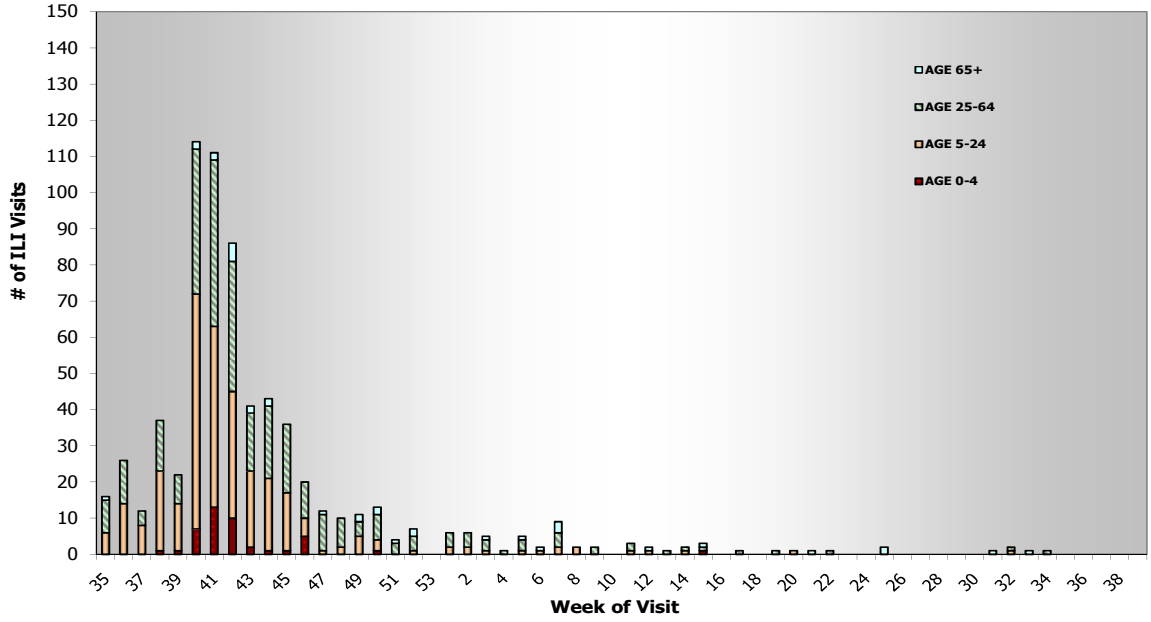
- The percentage of Emergency Department visits for ILI (data from 5 hospitals) was 0.51% for Week 35.

Cigna Health Care Centers (n=20): ILI Visits as Percentage of Total Visits, 05-06, 06-07, 07-08, 08-09 & 09-2010 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)*, 08-09 Season (Weeks 35-39 only) & 09-10 Season (Started Week 40)
(Source: Cigna Health Care Centers)



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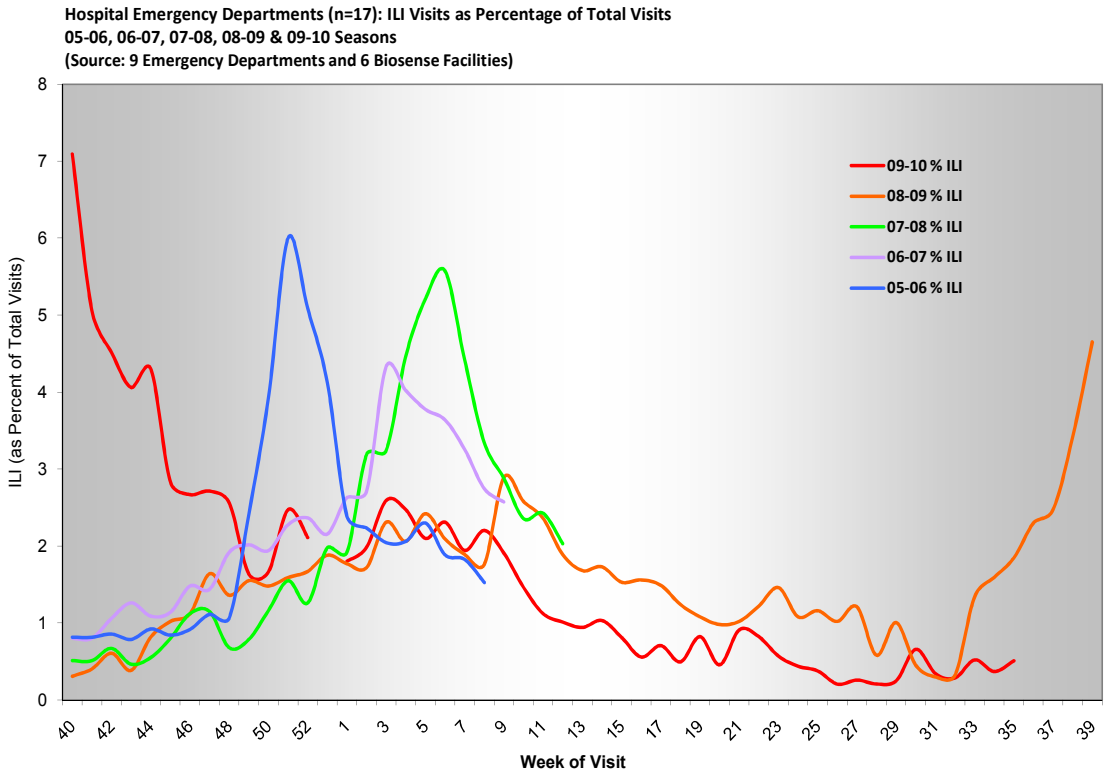
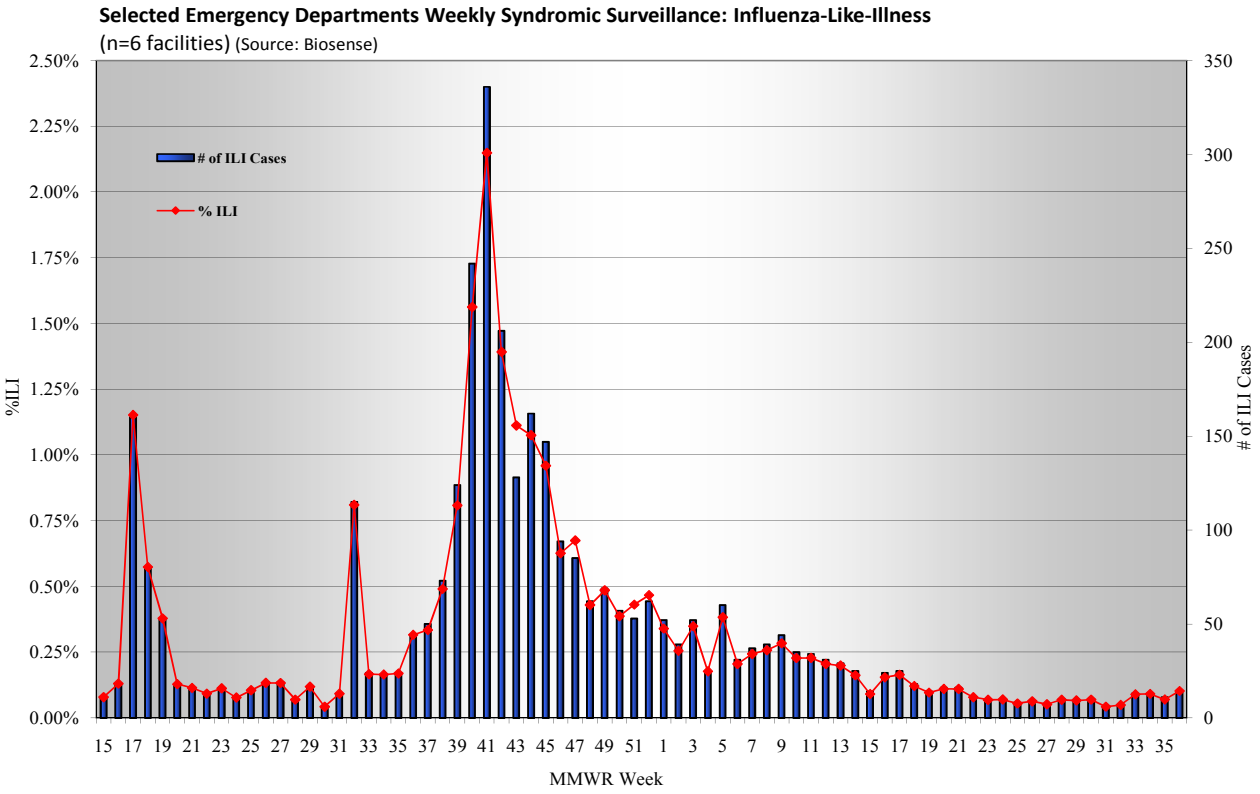
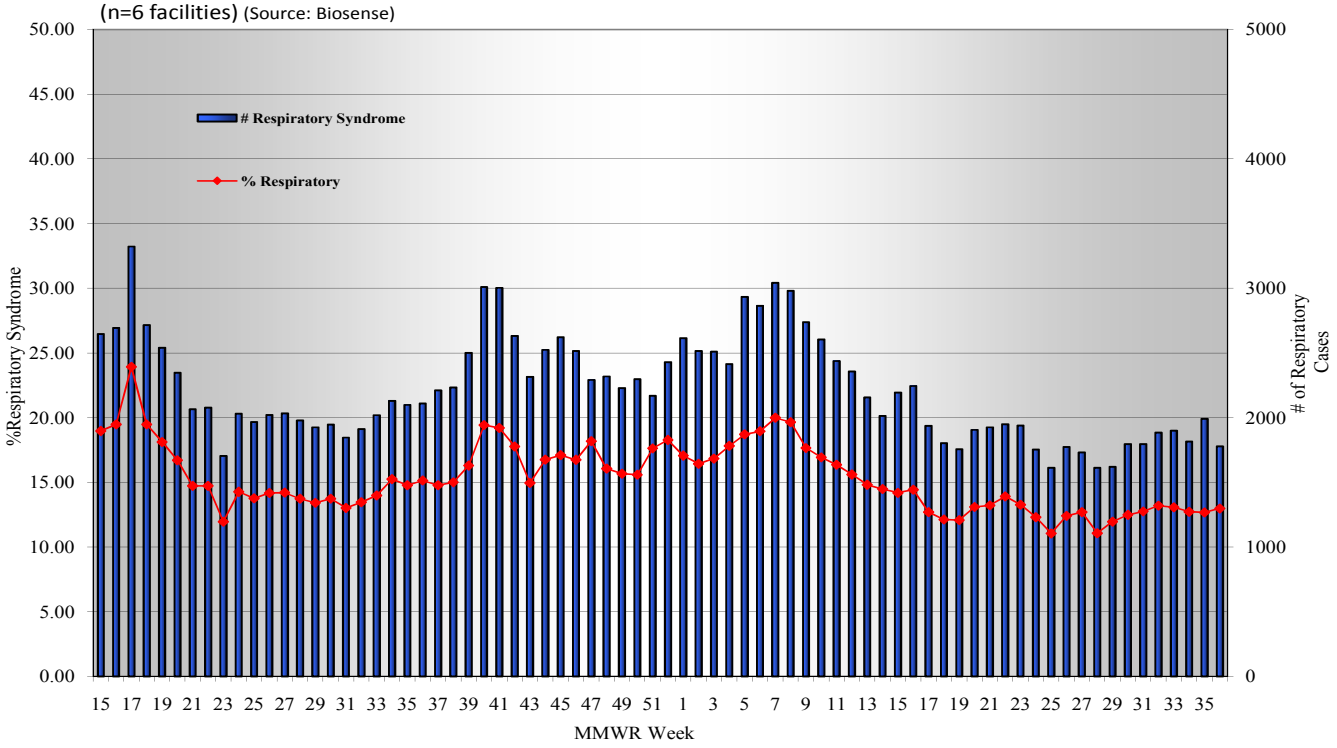
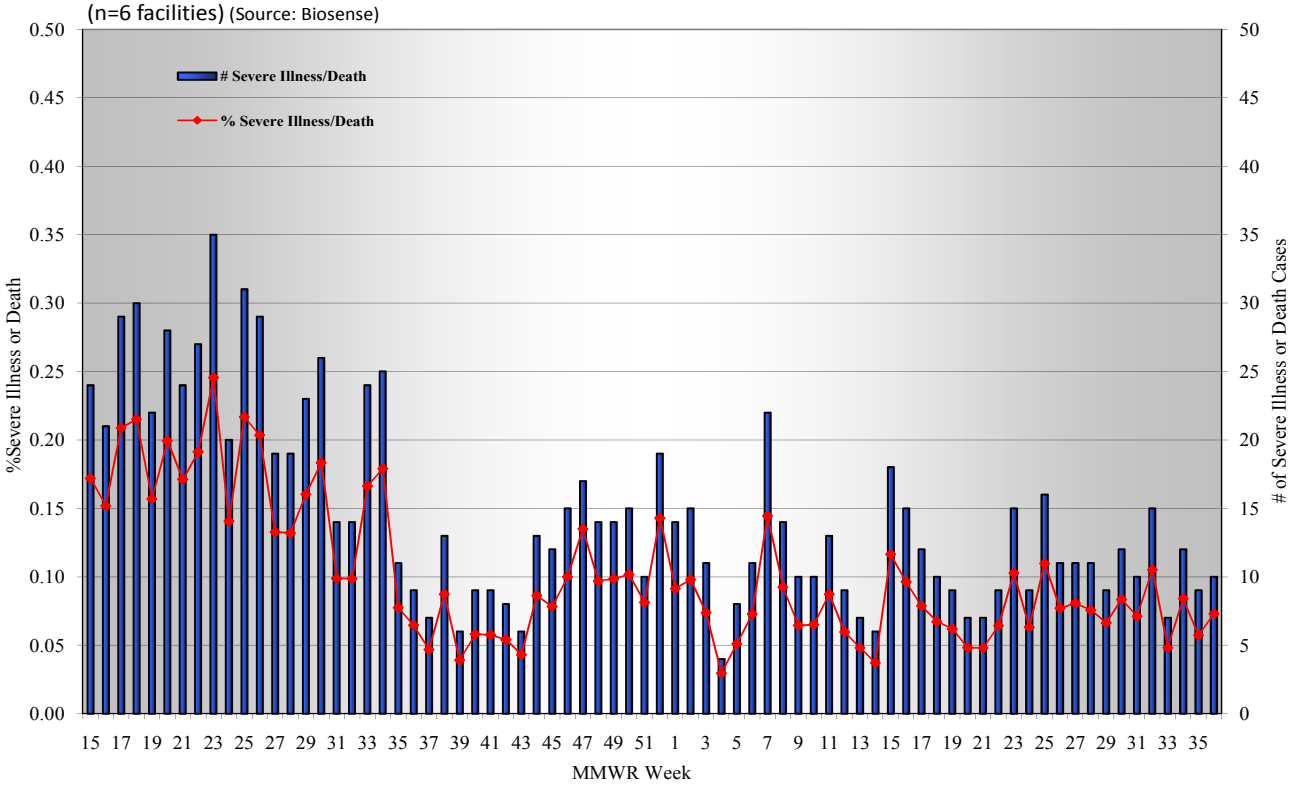

Hospital Emergency Departments (n=17): ILI Visits as Percentage of Total Visits
05-06, 06-07, 07-08, 08-09 & 09-10 Seasons
(Source: 9 Emergency Departments and 6 Biosense Facilities)
ILI (as Percent of Total Visits)
Week of Visit
09-10 % ILI
08-09 % ILI
07-08 % ILI
06-07 % ILI
05-06 % ILI

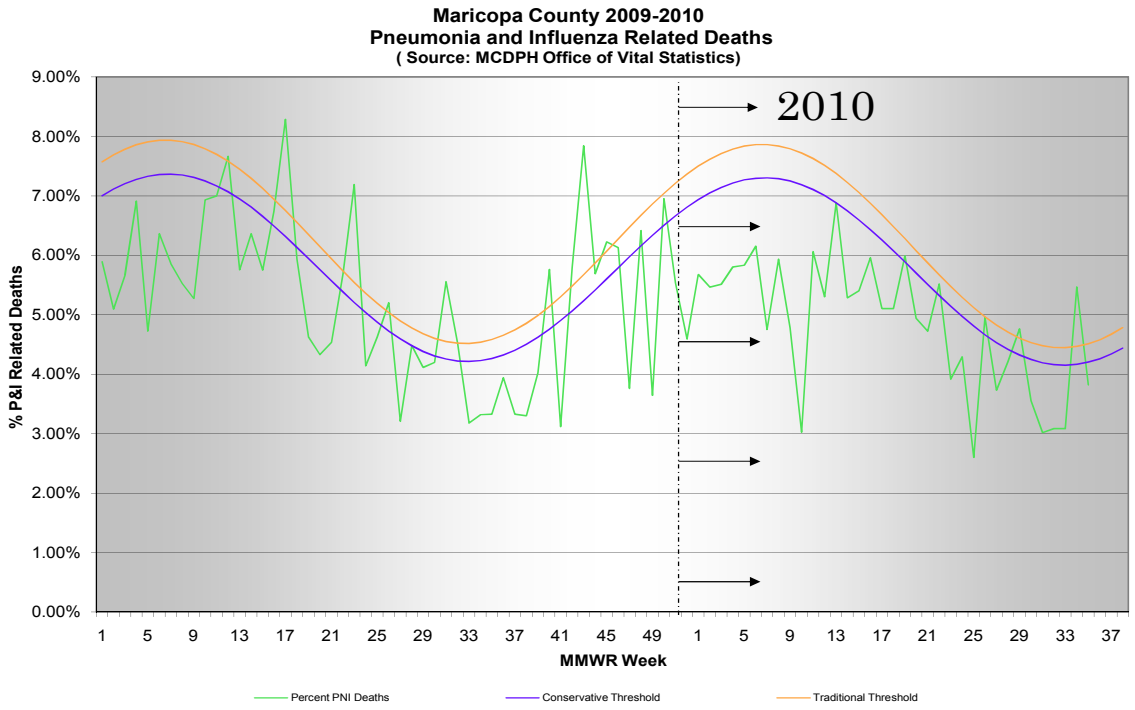

Selected Emergency Departments Weekly Syndromic Surveillance: Influenza-Like-Illness
(n=6 facilities) (Source: Biosense)
# of ILI Cases
% ILI
%ILI
# of ILI Cases
MMWR Week

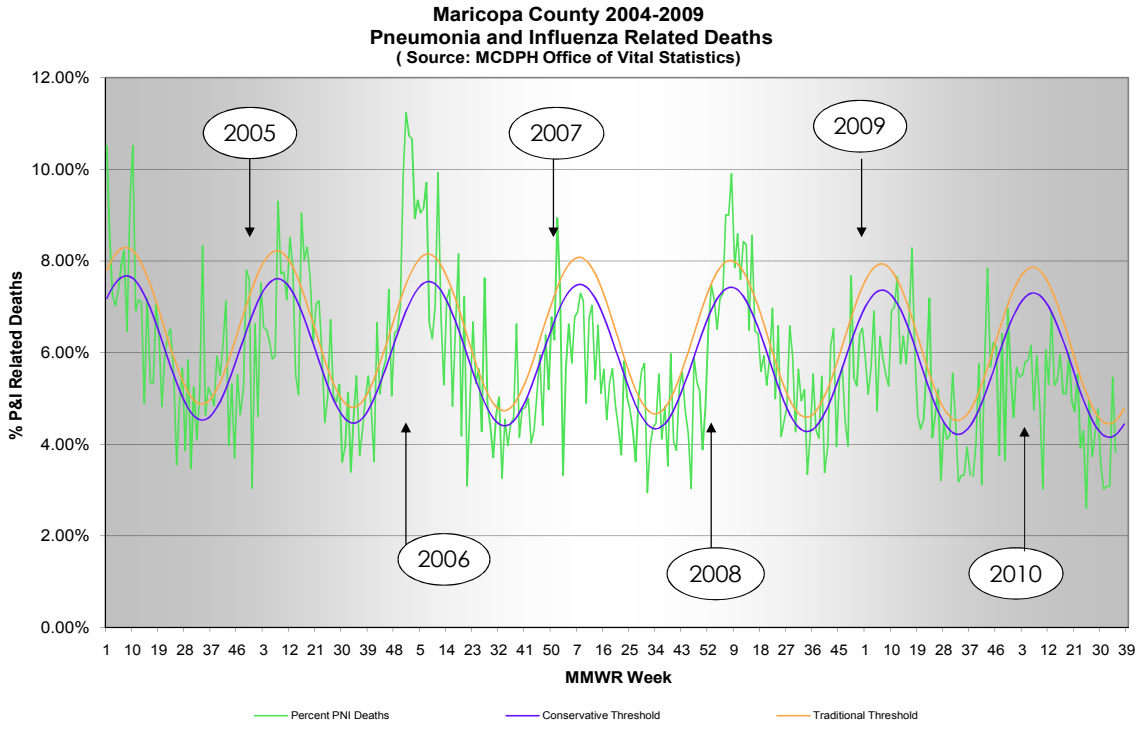
Selected Emergency Departments Weekly Syndromic Surveillance: Respiratory
(n=6 facilities) (Source: Biosense)



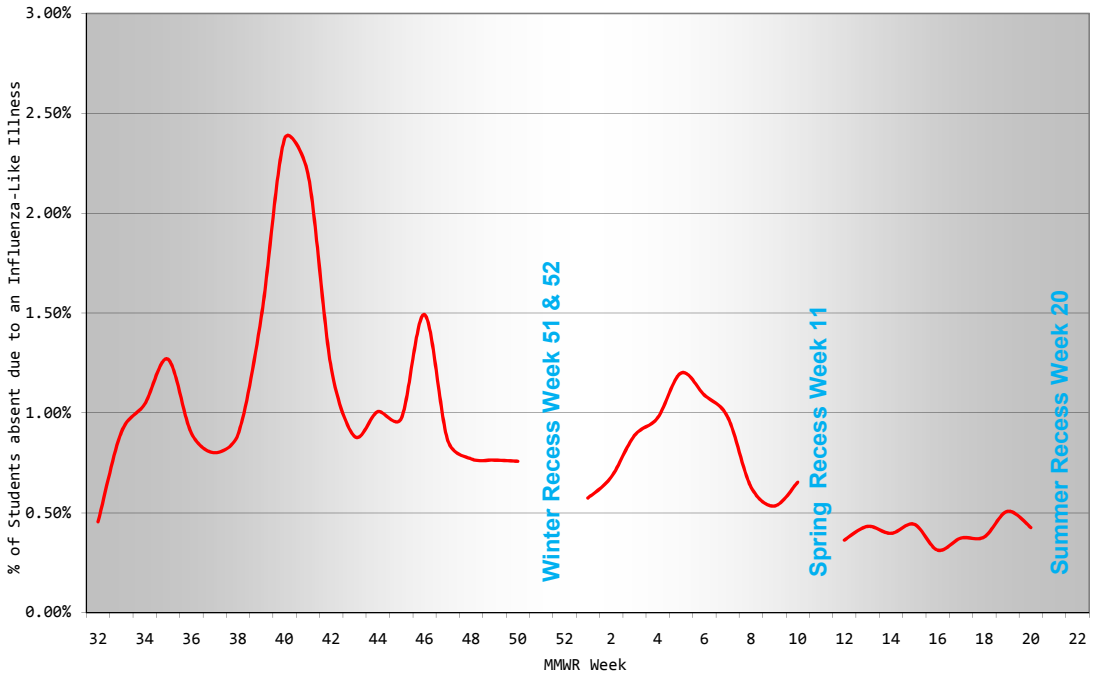
Selected Emergency Departments Weekly Syndromic Surveillance: Severe Illness or Deaths
(n=6 facilities) (Source: Biosense)



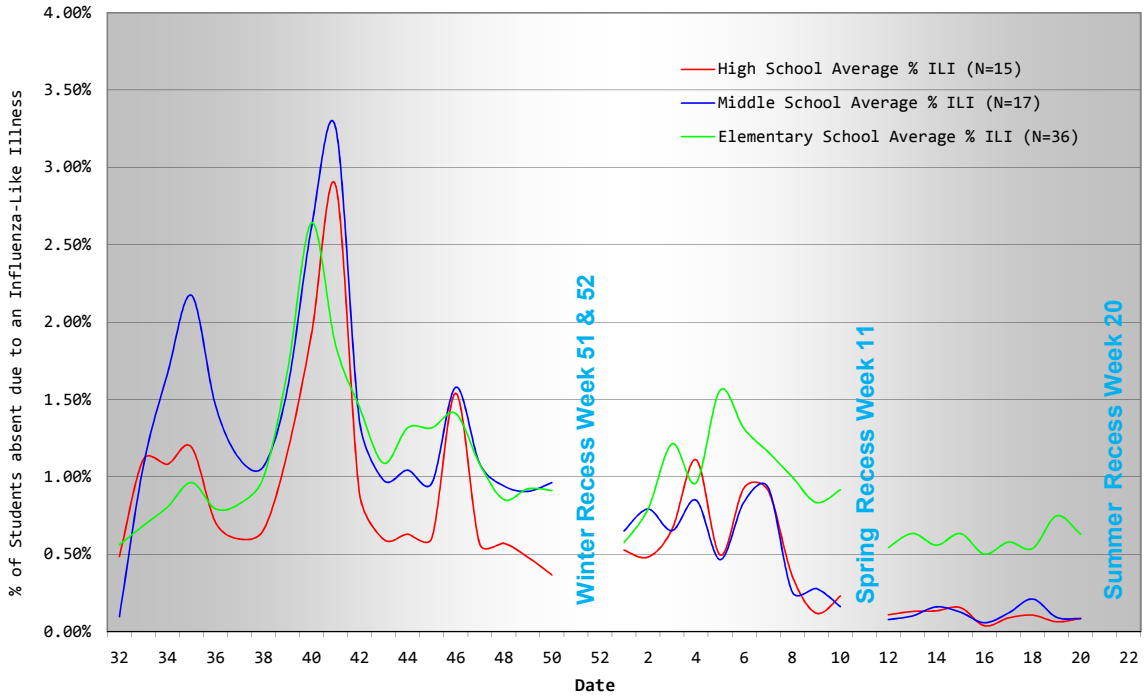

Maricopa County 2009-2010
Pneumonia and Influenza Related Deaths
(Source: MCDPH Office of Vital Statistics)
2010
% P&I Related Deaths
9.00%
8.00%
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
1 5 9 13 17 21 25 29 33 37 41 45 49 1 5 9 13 17 21 25 29 33 37
MMWR Week
Percent PNI Deaths
Conservative Threshold
Traditional Threshold


Maricopa County 2004-2009
Pneumonia and Influenza Related Deaths
(Source: MCDPH Office of Vital Statistics)
2005
2007
2009
2006
2008
2010
% P&I Related Deaths
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%
1 10 19 28 37 46 3 12 21 30 39 48 5 14 23 32 41 50 7 16 25 34 43 52 9 18 27 36 45 1 10 19 28 37 46 3 12 21 30 39
MMWR Week
Percent PNI Deaths
Conservative Threshold
Traditional Threshold

Maricopa County 2009-2010:
School ILI Surveillance by MMWR WeeK (N=68 Schools)



Maricopa County 2009-2010:
School ILI Surveillance by MMWR Week and Type of School



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 (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 represented in this report.

Please email any questions about this report to: dereksteinke@mail.maricopa.gov .
Report generated: 9/10/2010

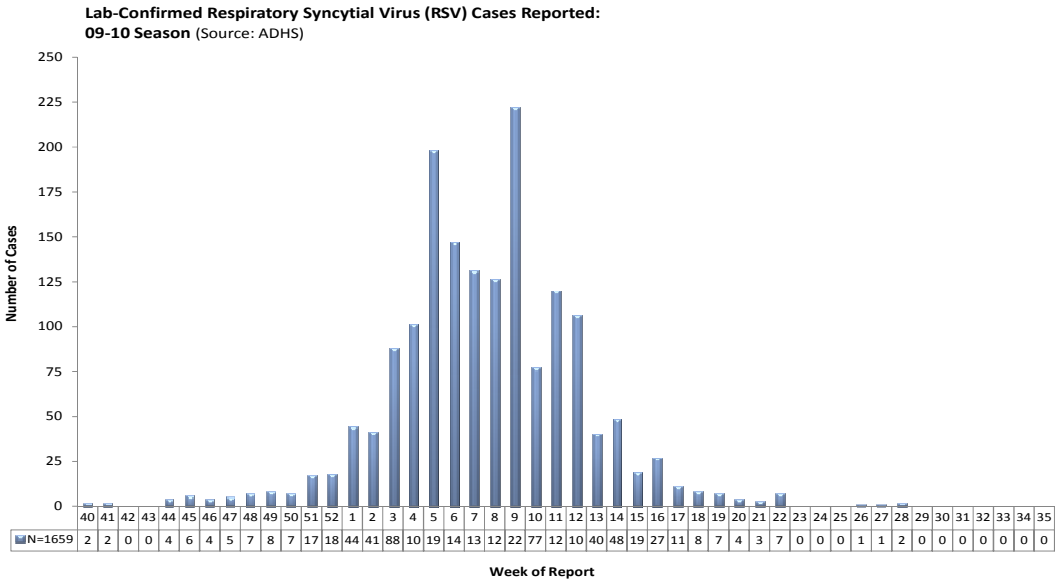
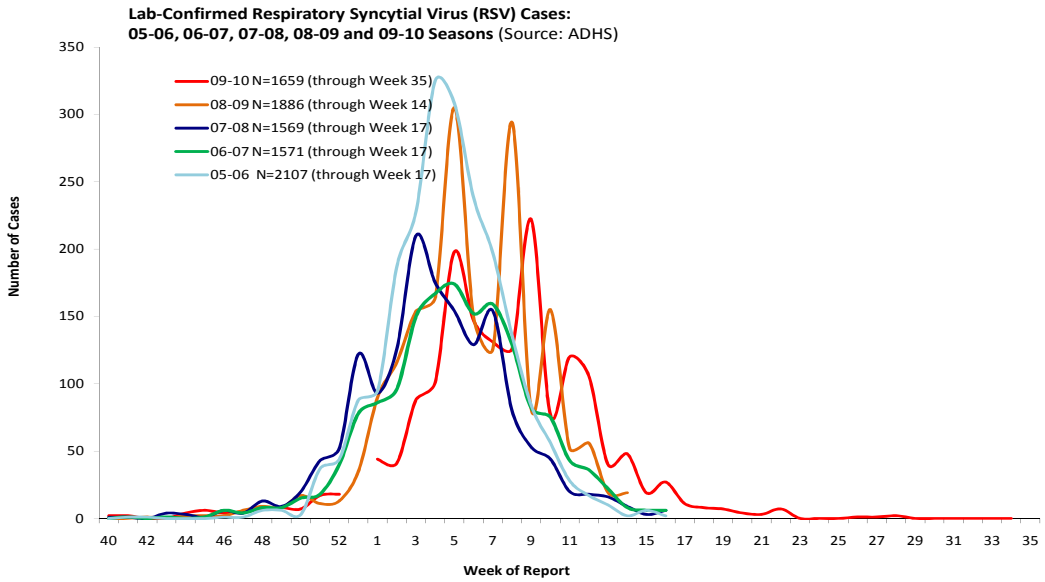
Influenza Surveillance Participants include:

Arizona Department of Health Services
Cigna Health Care Centers
Arizona State University Campus Health Services
Local Hospital Emergency Departments & Infection Control Practitioners
68 Maricopa County Public Schools

MARICOPA COUNTY RSV SUMMARY UPDATE

WEEK 35 (8/29/10-9/4/10)

Respiratory Syncytial Virus (RSV) Lab Surveillance: At the time of this report, 1659 lab-confirmed cases of RSV have been reported through Week 35.



Week	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
N=1659	2	2	0	0	4	6	4	5	7	8	7	17	18	44	41	88	10	19	14	13	12	22	77	12	10	40	48	19	27	11	8	7	4	3	7	0	0	0	1	1	2	0	0	0	0	0	0	0