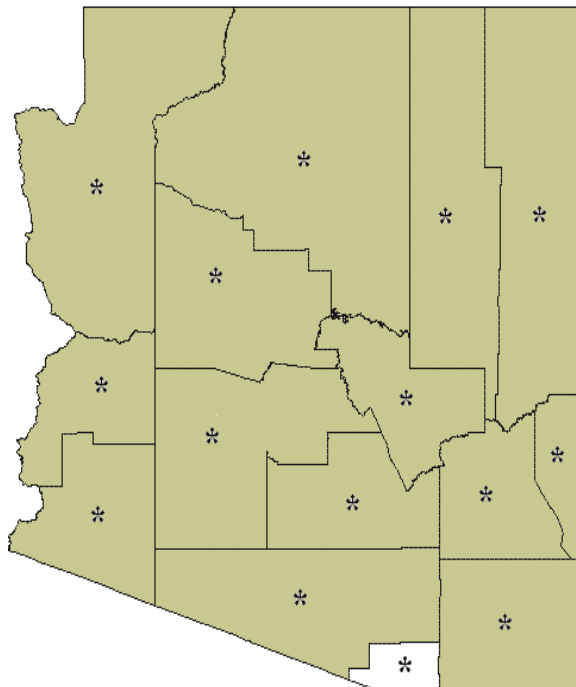


Laboratory-Confirmed Influenza Activity by County:

Arizona laboratories report positive influenza tests to ADHS. The positive cases are counted by the county of residence.



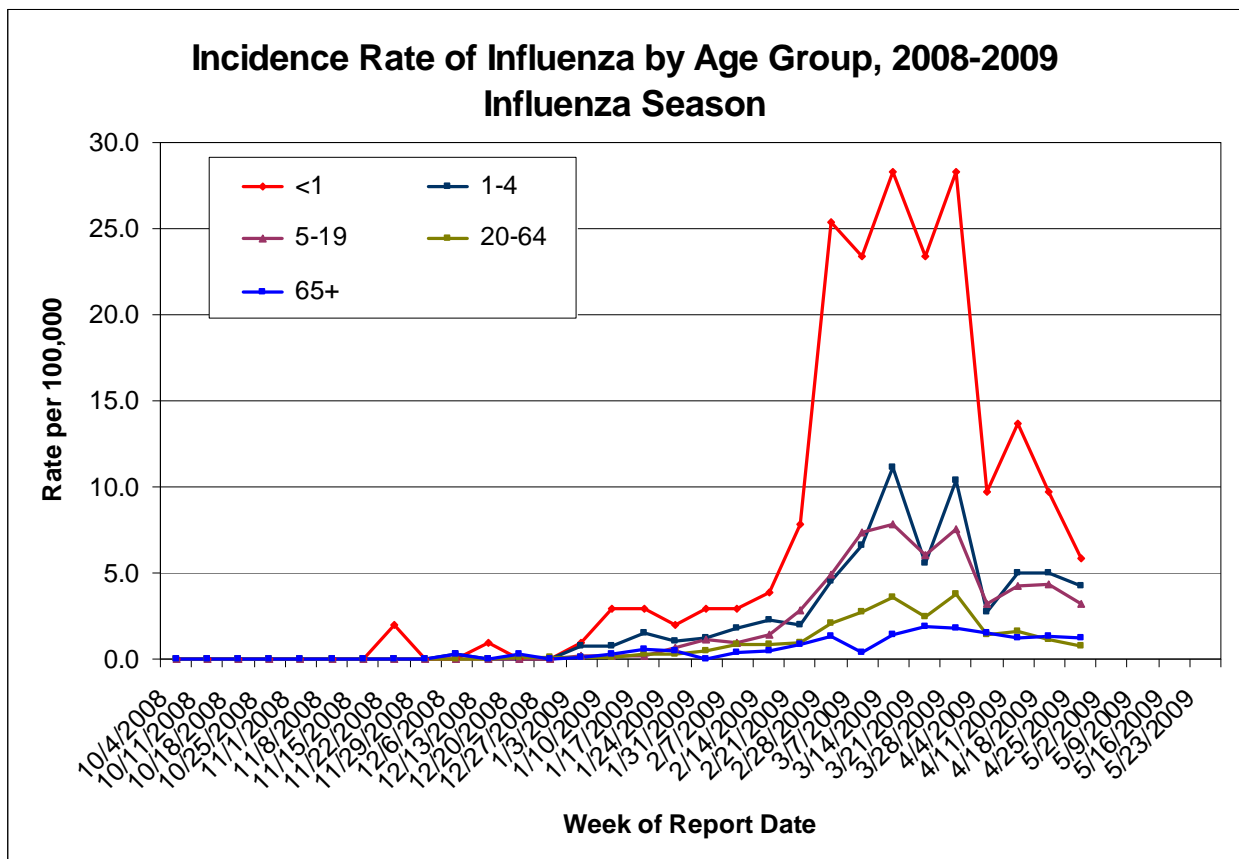
Key:

- * = Any activity reported this season
- Green** = Activity reported in the previous three weeks
- White** = No activity reported in the previous three weeks

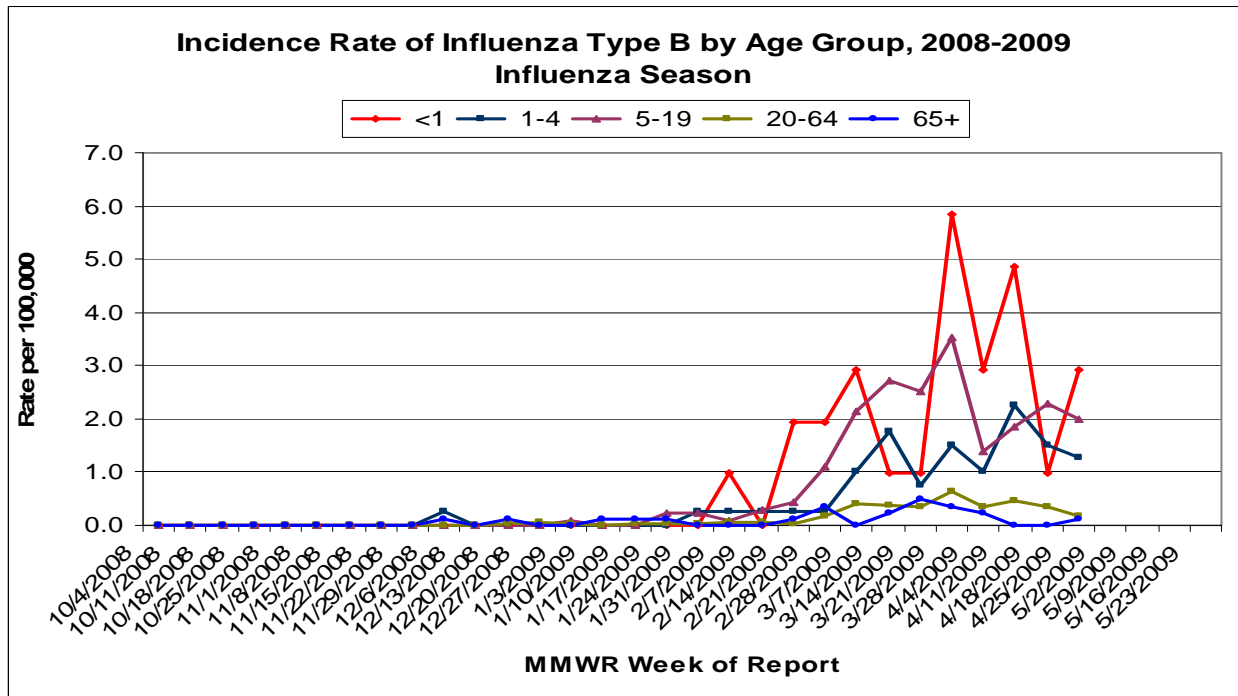
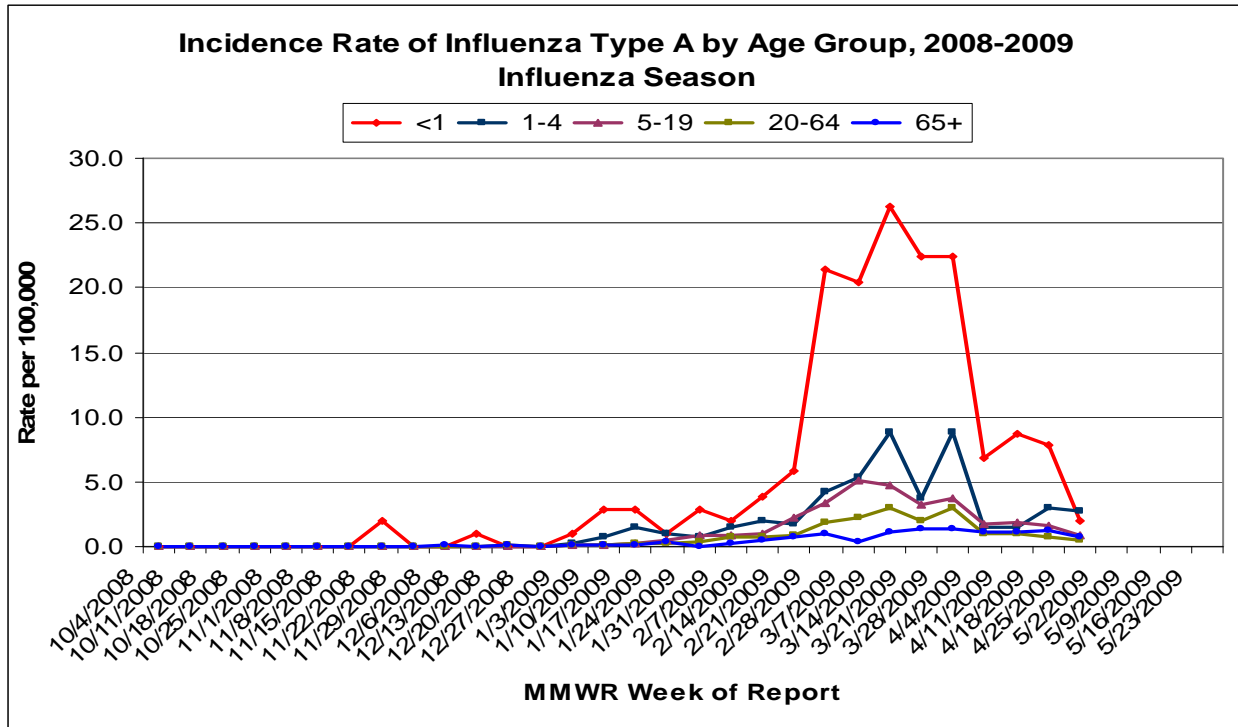
County	Number of Laboratory-Confirmed Cases		
	2008-2009 Season	Last Week	Last 3 Weeks
Apache	52	1	4
Cochise	44	1	10
Coconino	168	4	18
Gila	10	2	2
Graham	24	2	10
Greenlee	29	1	23
La Paz	6	0	1
Maricopa	1,449	82	269
Mohave	13	2	5
Navajo	33	0	4
Pima	349	6	51
Pinal	41	2	8
Santa Cruz	6	0	0
Yavapai	12	0	2
Yuma	9	1	3
Unknown	0	0	0
Total	2,245	104	410

Laboratory-Confirmed Influenza Activity by Age Group:

The graph below shows the incidence rate of all lab-confirmed cases of influenza by age group for the season.

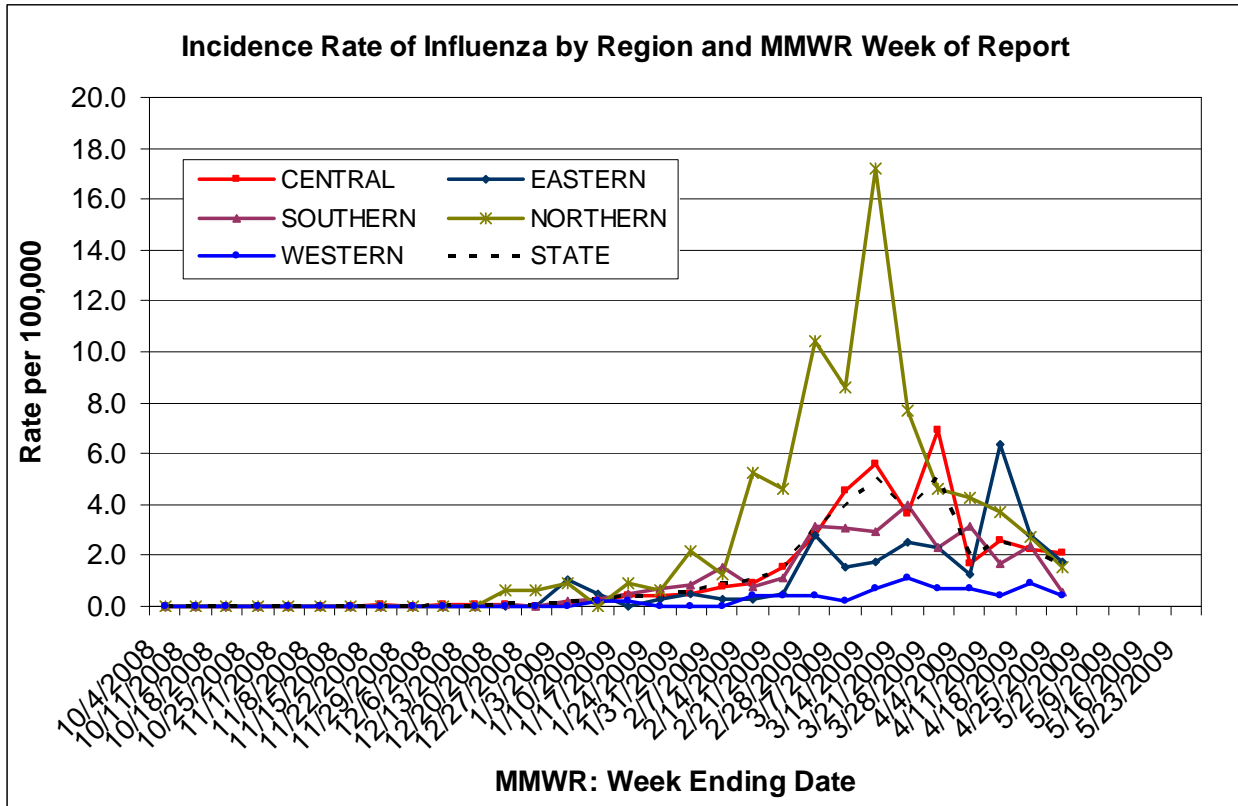


Prior influenza exposure, vaccination, or other factors may affect which age groups are affected by circulating influenza viruses. The graphs below show the rate of reported influenza, by viral type.

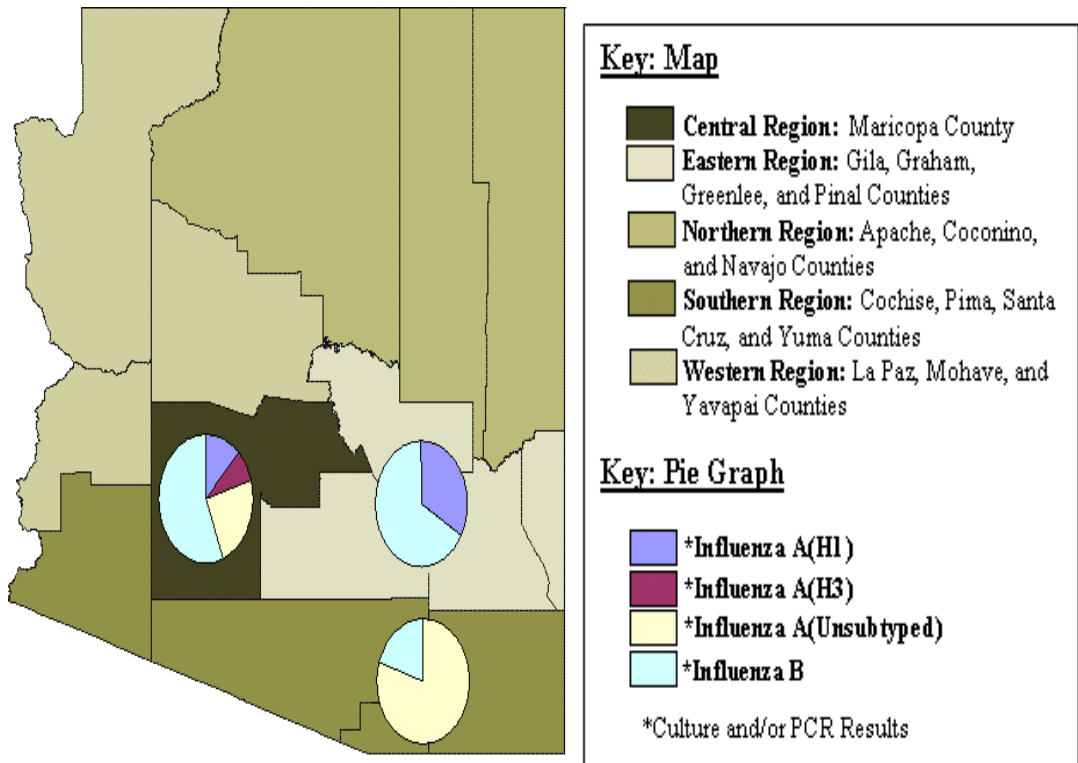


Laboratory Surveillance:

The graph below shows the incidence rate of all lab-confirmed cases of influenza by region for the season.



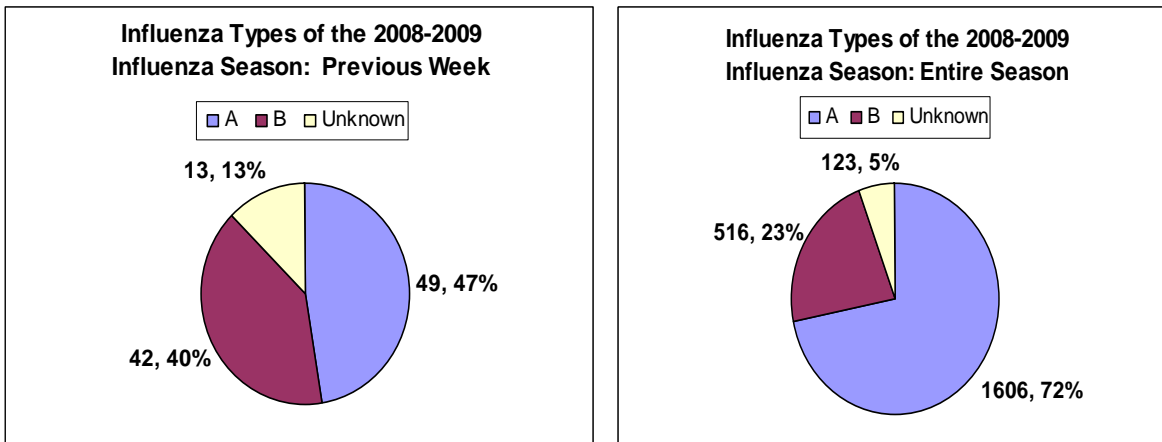
The results below show only culture and/or PCR results reported to ADHS from the Arizona State Laboratory or other laboratories across the state during the previous three weeks or from April 4th through the 25th.



Region	Influenza A(H1)	Influenza A(H3)	Influenza A(Unsubtyped)	Influenza B
Central	9 (12.3%)	6 (8.2%)	17 (23.3%)	41 (56.2%)
Eastern	1 (33.3%)	0 (0.0%)	0 (0.0%)	2 (66.7%)
Southern	0 (0.0%)	0 (0.0%)	4 (80.0%)	1 (20.0%)
Northern	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Western	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)

Laboratories report positive influenza tests to ADHS. Data are then compiled based on influenza type from all positive laboratory tests.

The pie charts below show all lab-confirmed cases of influenza in the noted time periods.



	Season (2008-2009)	Percent Total (2008-2009)	Season (2007-2008)	Percent Total (2007-2008)	Season (2006-2007)	Percent Total (2006-2007)
Total*	2245	100%	5,168	100%	1,663	100%
Influenza A*	1606	72%	2,898	56%	1,116	67%
A/H1 †	291	13%	184	4%	235	14%
A/H3 †	64	3%	234	5%	31	2%
A/Unsubtyped †	30	1%	257	5%	185	11%
Influenza B*	516	23%	1,900	37%	355	21%
B/Victoria lineage †	51	2%	0	0%	38	2%
B/Yamagata lineage †	0	0%	181	4%	5	1%
B/Unsubtyped †	50	2%	325	6%	120	7%
Unknown*	123	5%	370	7%	192	12%

* Data for the bolded categories include all tests.

† Data for the subcategories include only culture and PCR tests conducted at the Arizona State Laboratory or other reporting laboratories.

	Arizona † (2008-2009)	Percent Total (2008-2009)	Mountain Region* (2008-2009)	Percent Total (2008-2009)	Nationwide* (2008-2009)	Percent Total (2008-2009)
Total	486	100%	2145	100%	25925	100%
Influenza A	385	79%	1718	80%	17239	66%
A/H1	291	76%	679	40%	6223	36%
A/H3	64	17%	201	12%	750	4%
A/Unsubtyped	30	8%	838	49%	10266	60%
Influenza B	101	21%	427	20%	8686	34%

† Data represents the cumulative results for all culture and PCR tests conducted at the Arizona State Laboratory or other reporting laboratories within the state of Arizona through MMWR 16 or week ending 4/28/2009.

* Data represents the cumulative results for all identified influenza isolates within the respective category through MMWR 15 or week ending 4/21/2009.

Mortality Surveillance:

The first influenza-associated pediatric death was reported to ADHS during the 2008-2009 influenza season and was reported to CDC for the week ending 2/21/2009. The case was co-infected with the influenza B virus and *Staphylococcus aureus*.

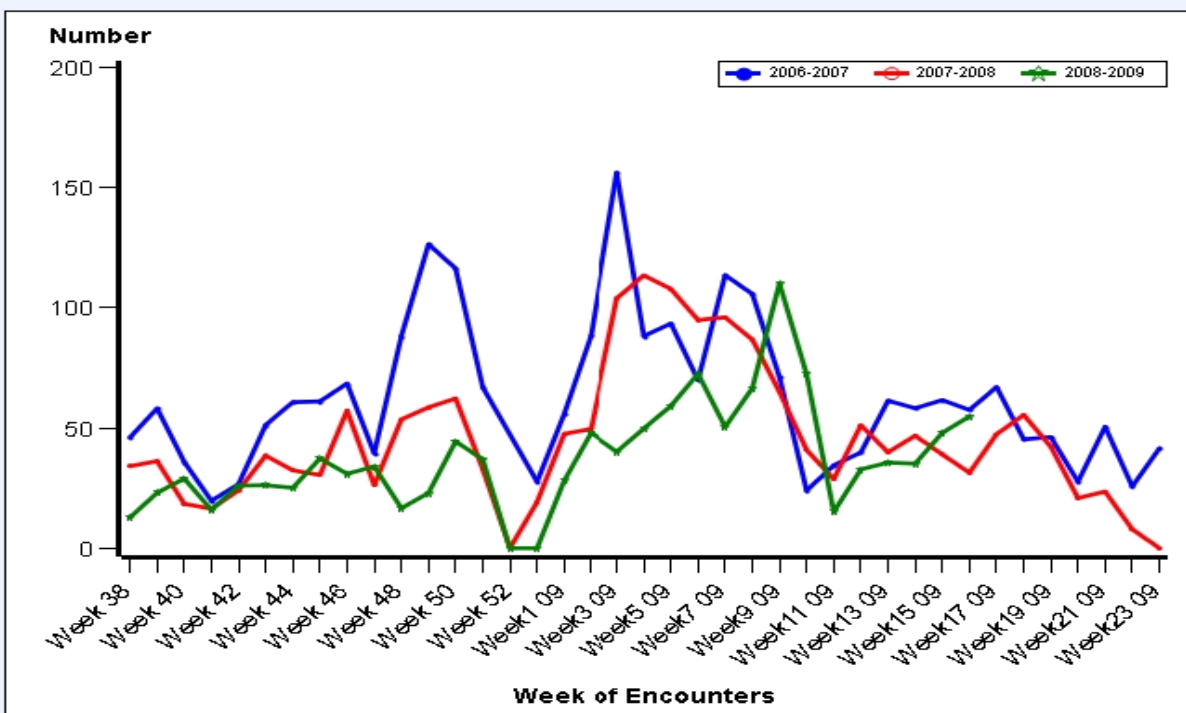
Influenza-Like Illness (ILI) Surveillance from Participating Arizona Schools:

ADHS and the Arizona School Nurse Consortium (AZSNC) developed and implemented a software program called Child Health Indicator Program (CHIP) to assist school nurses in electronic management of student health records. Currently, nurses in 331 Arizona schools use the software to collect information on student health conditions for 266 nursing diagnosis codes, including influenza-like illness (ILI), rash, and gastrointestinal illness (GI).

The graph presents the weekly trend of ILI syndromes reported among students during the school years of 2006-2007, 2007-2008, and 2008-2009. The number of school nurse encounters are not diagnosed cases of communicable diseases but are based on the nursing codes that school nurses enter to track student conditions. Also, the numbers in the graph are only from schools that used CHIP during the school year.

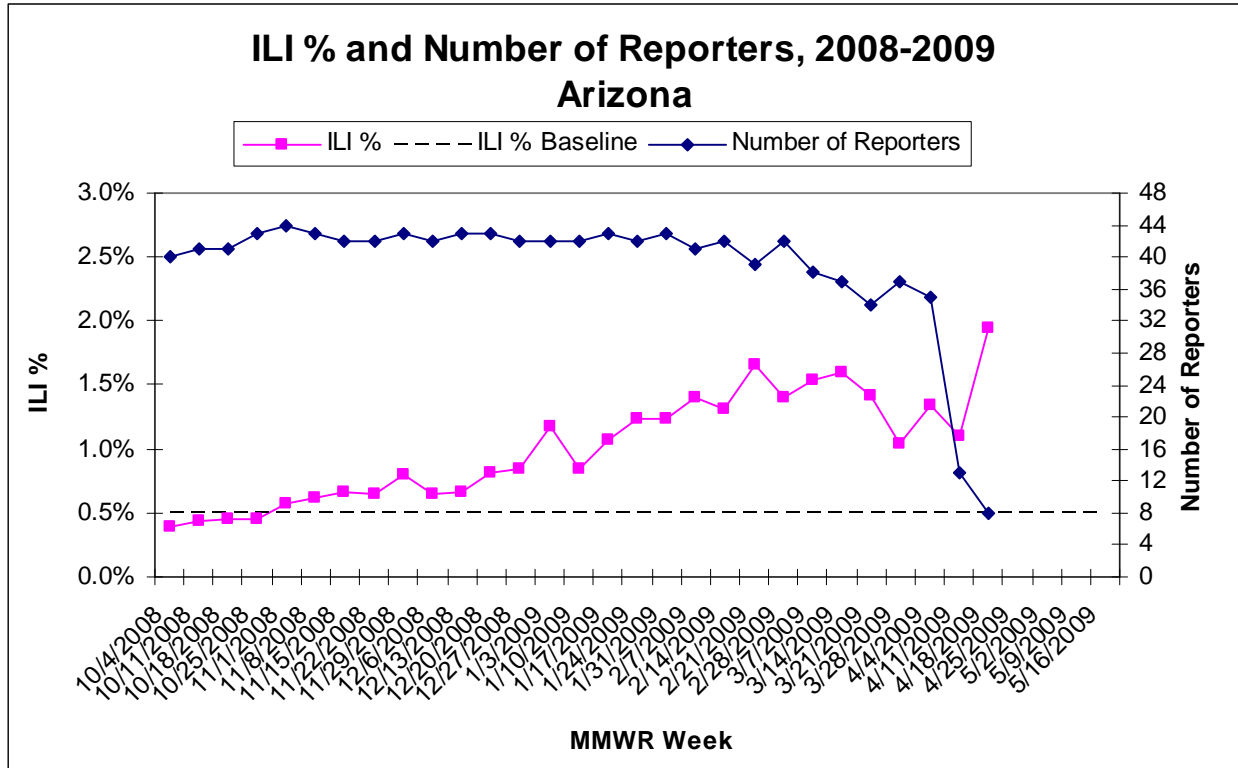
**Data is based on activity through 4/18/2009

Influenza-Like Illness Per School Enrollment in Arizona (per 100,000)



Influenza-Like Illness (ILI) Surveillance from Sentinel Providers:

The proportion of patient visits to sentinel providers for ILI in the state was 1.9% for the week ending 4/18/2009 (week 15). This value is much higher than the state baseline of 0.5%. As of 4/7/2009, 8 sentinel providers reported by the end of week 15. Due to the lower number of reporting providers, the noted ILI proportion may not be representative for the entire state of Arizona during week 14. ILI is defined as a fever of at least 100°F plus either a cough or a sore throat.



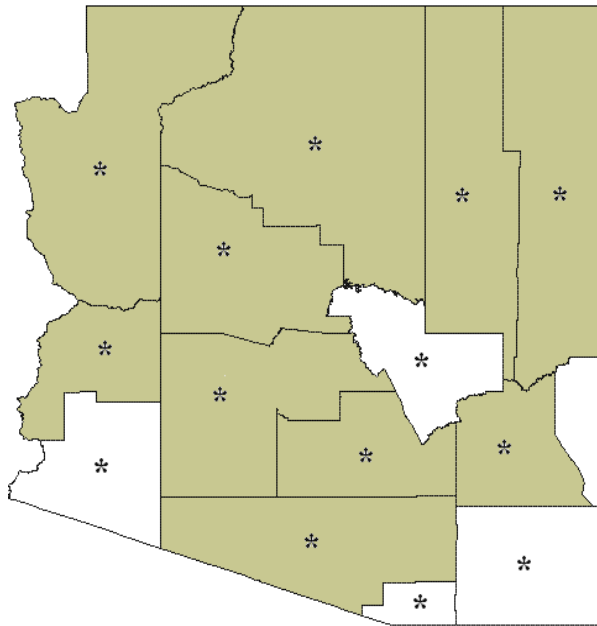
Please see the following pages for the weekly RSV summary.

Weekly RSV Summary:

As of 4/21/2009, a total of 2,875 lab-confirmed cases were reported to ADHS during the 2008-2009 season.

Lab-Confirmed RSV Cases Reported by County:

Since October 2004, laboratories have been required to report positive RSV tests to ADHS.



Key:

* = Any activity reported this season

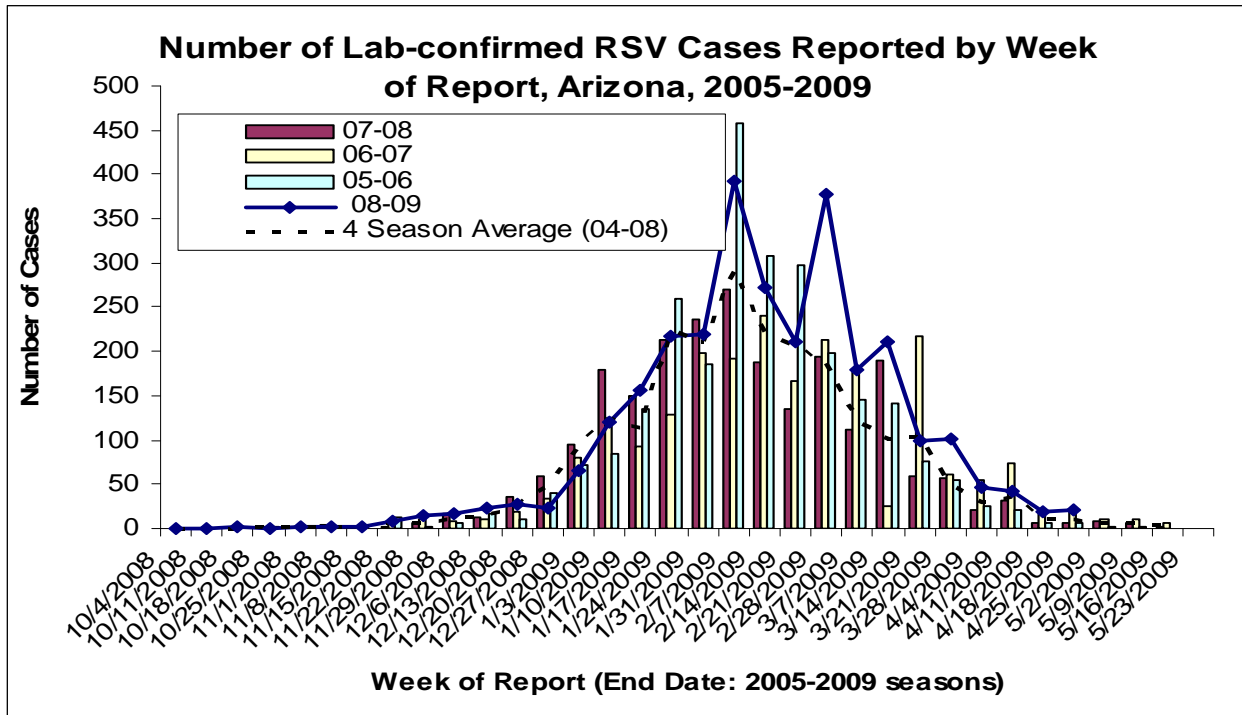
Green = Activity reported in the previous three weeks

White = No activity reported in the previous three weeks

County	Number of Laboratory-Confirmed Cases		
	2008-2009 Season	Last Week	Last 3 Weeks
Apache	84	1	5
Cochise	53	0	0
Coconino	97	1	4
Gila	28	0	1
Graham	5	0	0
Greenlee	0	0	0
La Paz	9	1	1
Maricopa	1910	10	44
Mohave	78	5	9
Navajo	95	0	3
Pima	266	1	2
Pinal	200	1	12
Santa Cruz	11	1	1
Yavapai	17	1	1
Yuma	22	0	0
Unknown	0	0	0
Total	2875	22	83

Laboratory Surveillance:

Laboratories report positive RSV tests to ADHS.



Laboratory-Confirmed RSV Activity by Age and Gender:

Laboratories report positive RSV tests to ADHS.

