

Weekly Influenza Summary:

As of 7/28/2009, a total of 6,426 laboratory-confirmed cases of influenza were reported to ADHS for the 2008-09 season, and Arizona is reporting regional influenza activity to CDC for the week ending 7/25/2009. The initial cases of the pandemic influenza A(H1N1) virus in the U.S. were announced on April 21st. For specific information regarding this new influenza A(H1N1) strain, please visit: <http://www.azdhs.gov/phs/oids/epi/flu/h1n1/index.htm> or <http://www.cdc.gov/h1n1flu/>.

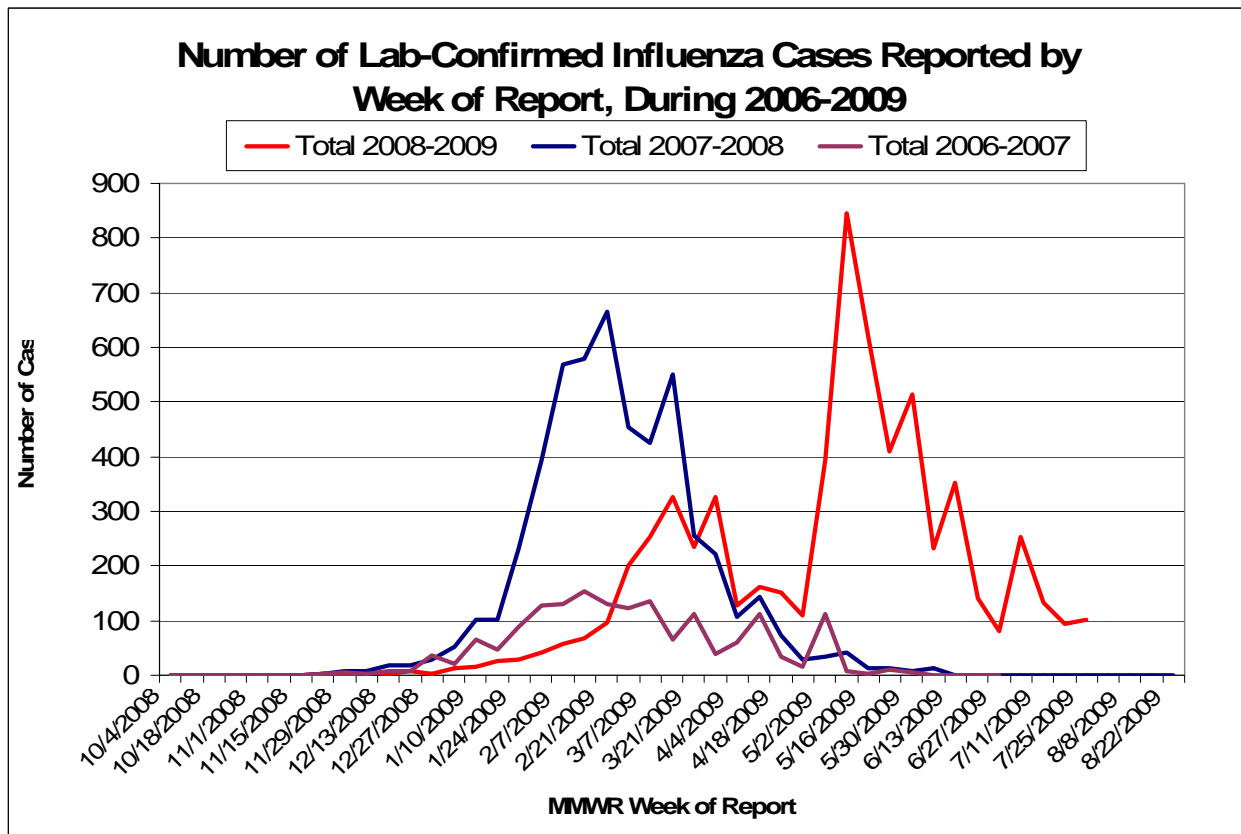
Cases of seasonal influenza were reported from all fifteen Arizona counties over the course of the season. The influenza-like-illness rate is higher than the state baseline for week 28. Ten influenza-associated pediatric deaths were reported to ADHS for the current season.

Data in this report are provisional and may change as more reports are received.

National influenza surveillance data are available at the CDC’s Influenza Surveillance site (<http://www.cdc.gov/flu/weekly/fluactivity.htm>).

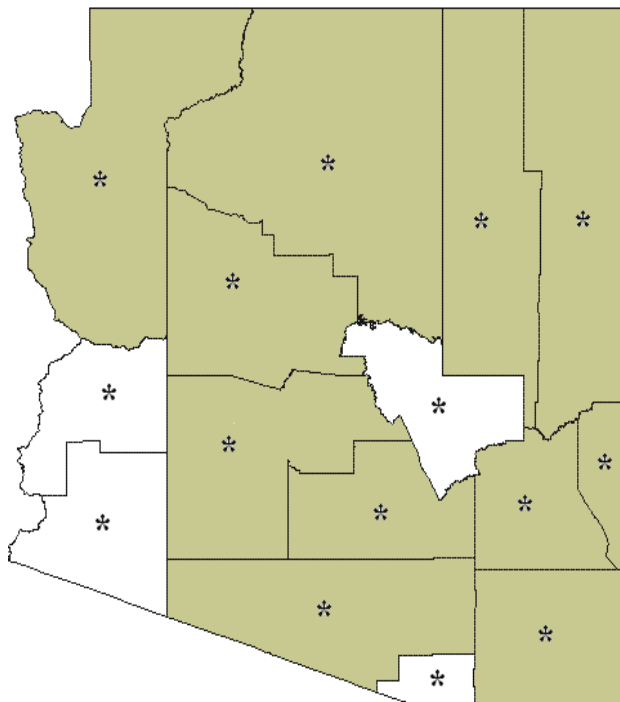
Laboratory-Confirmed Influenza Activity by Season [2006-2009]:

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



Laboratory-Confirmed Influenza Activity by County:

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



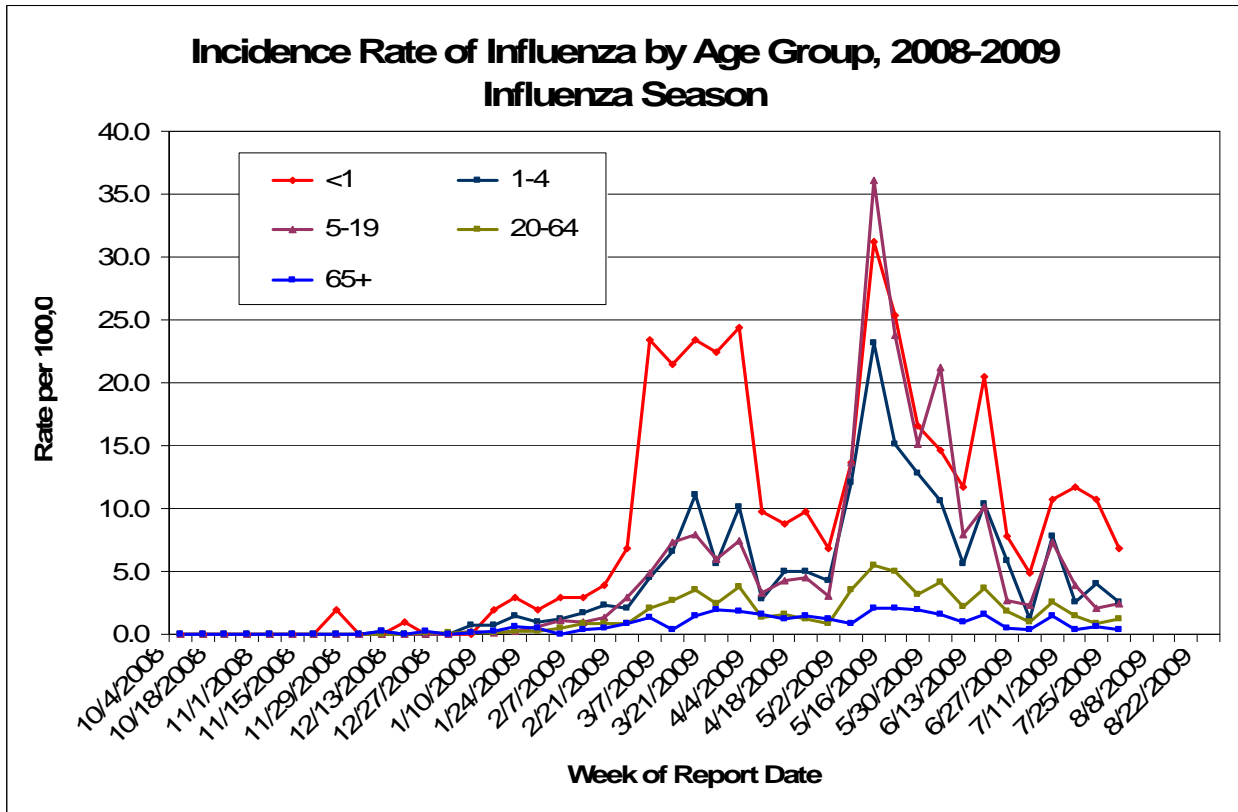
Key:

- * = 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	98	3	12
Cochise	147	1	6
Coconino	280	28	54
Gila	38	0	0
Graham	151	0	1
Greenlee	111	0	1
La Paz	17	0	0
Maricopa	3,939	52	191
Mohave	46	2	3
Navajo	88	5	15
Pima	1,038	5	35
Pinal	234	2	5
Santa Cruz	48	0	0
Yavapai	46	3	6
Yuma	144	0	0
Unknown	0	0	0
Total	6,426	101	329

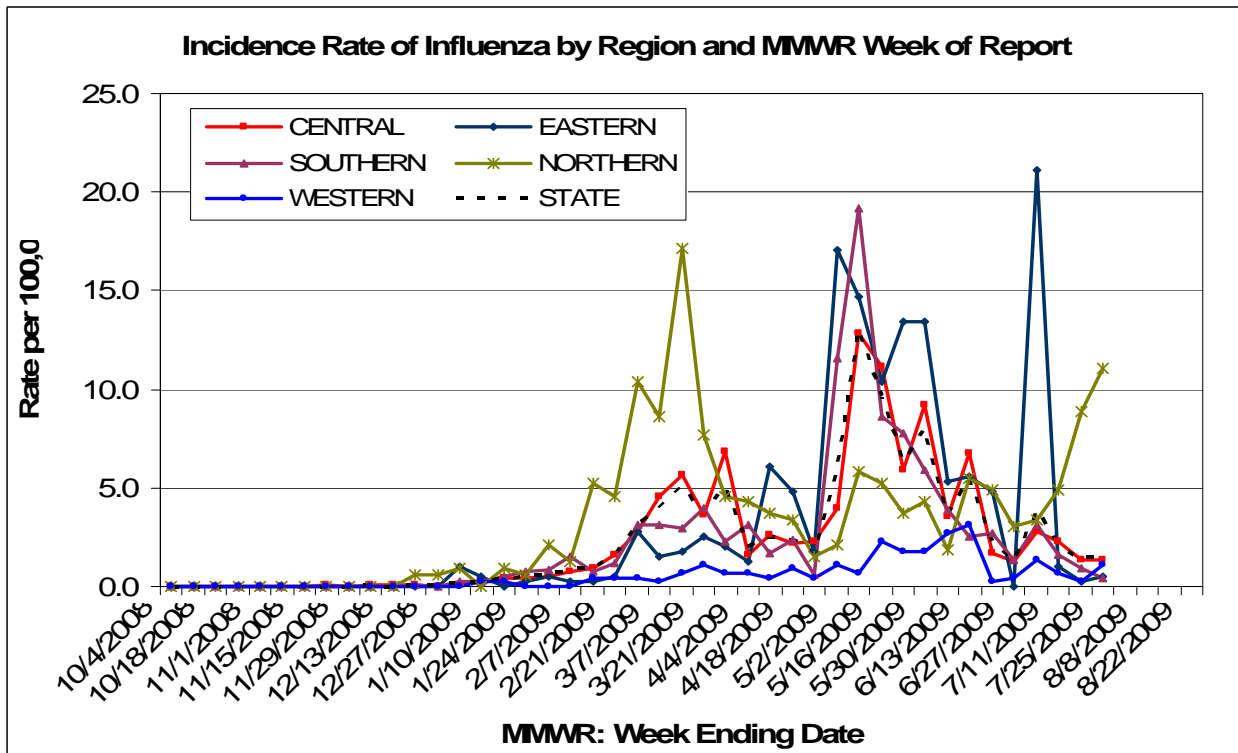
Laboratory-Confirmed Influenza Activity by Age Group:

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

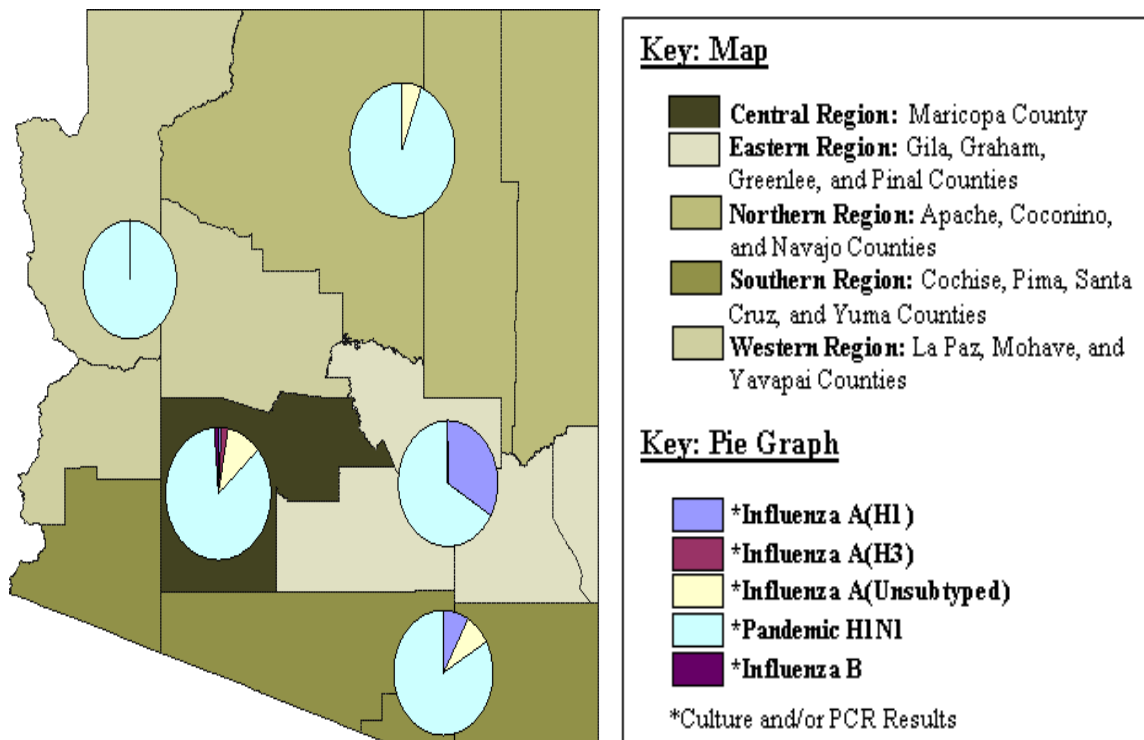


Laboratory Surveillance:

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 July 5th through the 25th.



Region	Influenza A(H1)	Influenza A(H3)	Influenza A(Unsubtyped)	Pandemic Influenza H1N1	Influenza B
Central	1 (1%)	2 (2%)	11 (11%)	87 (85%)	1 (1%)
Eastern	1 (33%)	0 (0%)	0 (0%)	2 (67%)	0 (0%)
Southern	1 (8%)	0 (0%)	1 (8%)	10 (83%)	0 (0%)
Northern	0 (0%)	0 (0%)	2 (6%)	32 (94%)	0 (0%)
Western	0 (0%)	0 (0%)	0 (0%)	6 (100%)	0 (0%)

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

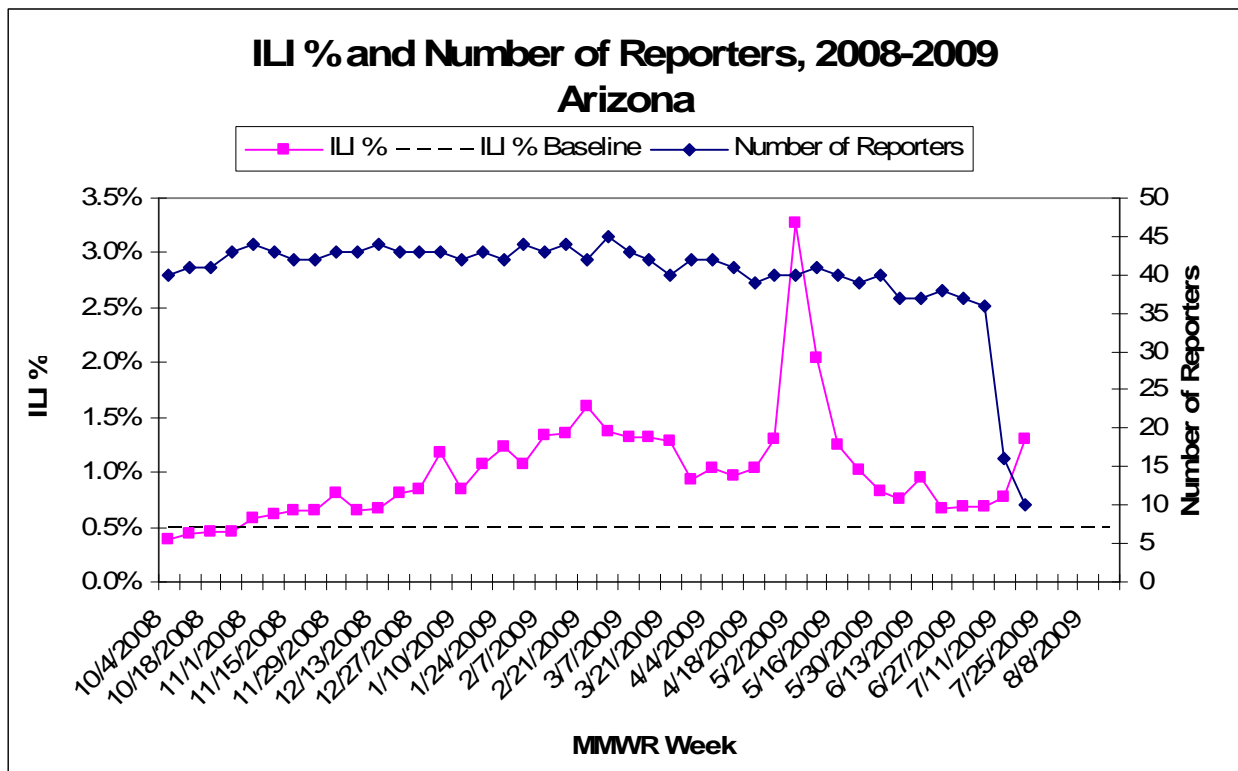
	Season (2008-2009)	Percent Total (2008-2009)	Season (2007-2008)	Percent Total (2007-2008)	Season (2006-2007)	Percent Total (2006-2007)
Total*	6,426	100%	5,168	100%	1,663	100%
Influenza A*	4,597	72%	2,898	56%	1,116	67%
A/H1 †	419	7%	184	4%	235	14%
A/H3 †	377	6%	234	5%	31	2%
A/Type unknown†	334	5%	257	5%	185	11%
Influenza B*	1,662	26%	1,900	37%	355	21%
B/Victoria lineage †	105	2%	0	0%	38	2%
B/Yamagata lineage †	0	0%	181	4%	5	1%
B/Unsubtyped †	387	6%	325	6%	120	7%
Unknown*	167	3%	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.

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

The proportion of patient visits to sentinel providers for ILI in the state was 1.3% for the week ending 7/18/2009 (week 28). This value is higher than the state baseline of 0.5%. As of 7/28/2009, 10 sentinel providers reported by the end of week 27. Due to the lower number of providers reporting during the previous week, the ILI proportion may not be representative for the entire state of Arizona. ILI is defined as a fever of at least 100°F plus either a cough or a sore throat.



Mortality Surveillance:

Ten influenza-associated pediatric deaths have been reported to ADHS during the 2008-2009 influenza season. Eight individuals were infected with influenza A and two with influenza B. Of the eight individuals infected with influenza A, four were confirmed to be novel H1N1. One case died in February, two in April, three in May, and four in June.