

**Weekly Influenza Summary:**

As of 9/15/2009, a total of 7,370 laboratory-confirmed cases of influenza were reported to ADHS for the 2008-09 season, and Arizona is reporting widespread influenza activity to CDC for the week ending 9/12/2009. The initial cases of the novel H1N1 influenza virus in the U.S. were announced on April 21<sup>st</sup>. 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 above the state baseline for week 35. Twelve influenza-associated pediatric deaths were reported to ADHS for the current season.

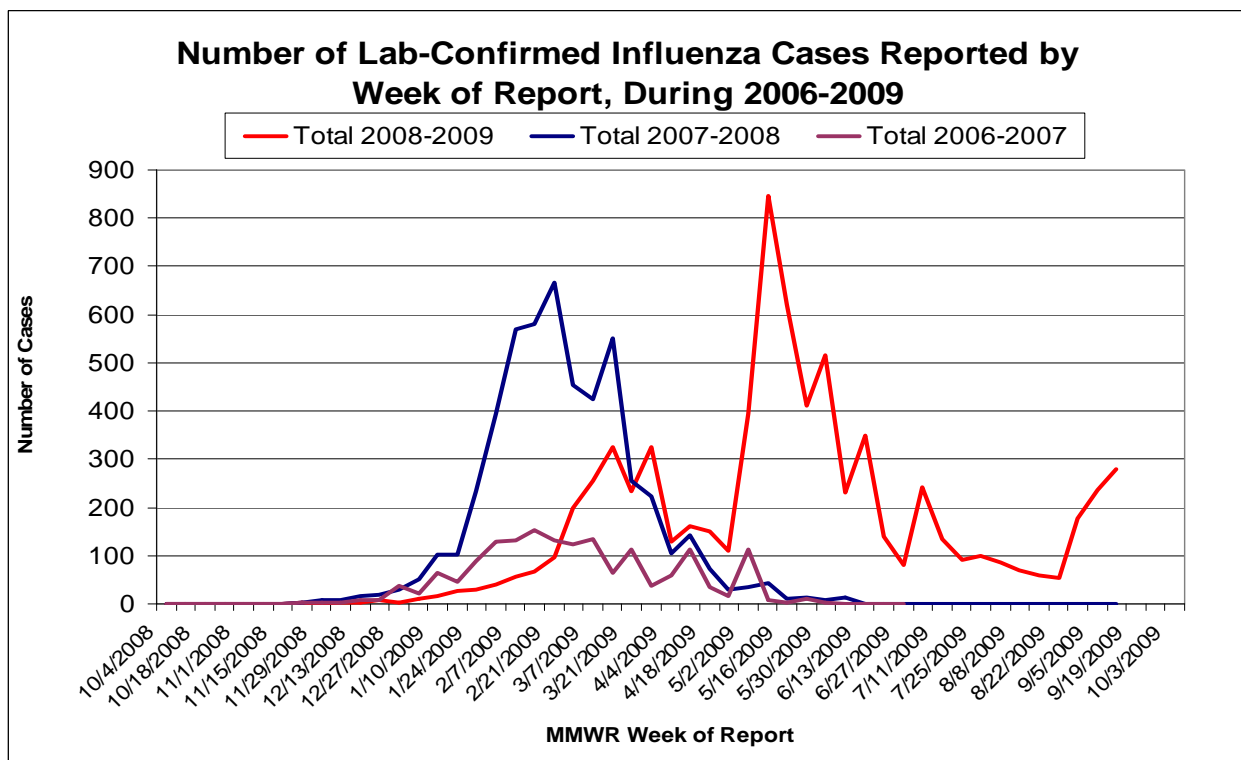
Surveillance for the 2008-2009 influenza season will end on MMWR 39 or week ending 10/3/2009. October 4<sup>th</sup>, 2009 or MMWR 40 will be the beginning of influenza surveillance for the 2009-2010 season.

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>).

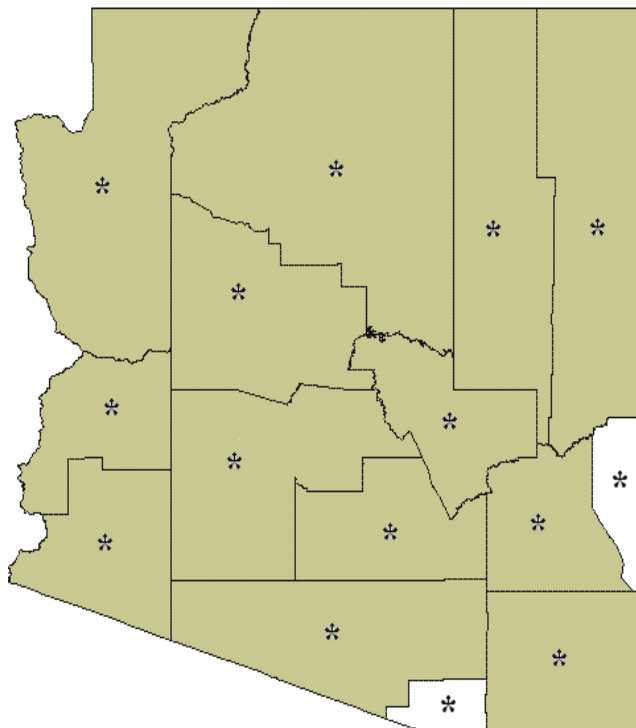
**Laboratory-Confirmed Influenza Activity by Season [2006-2009]:**

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.



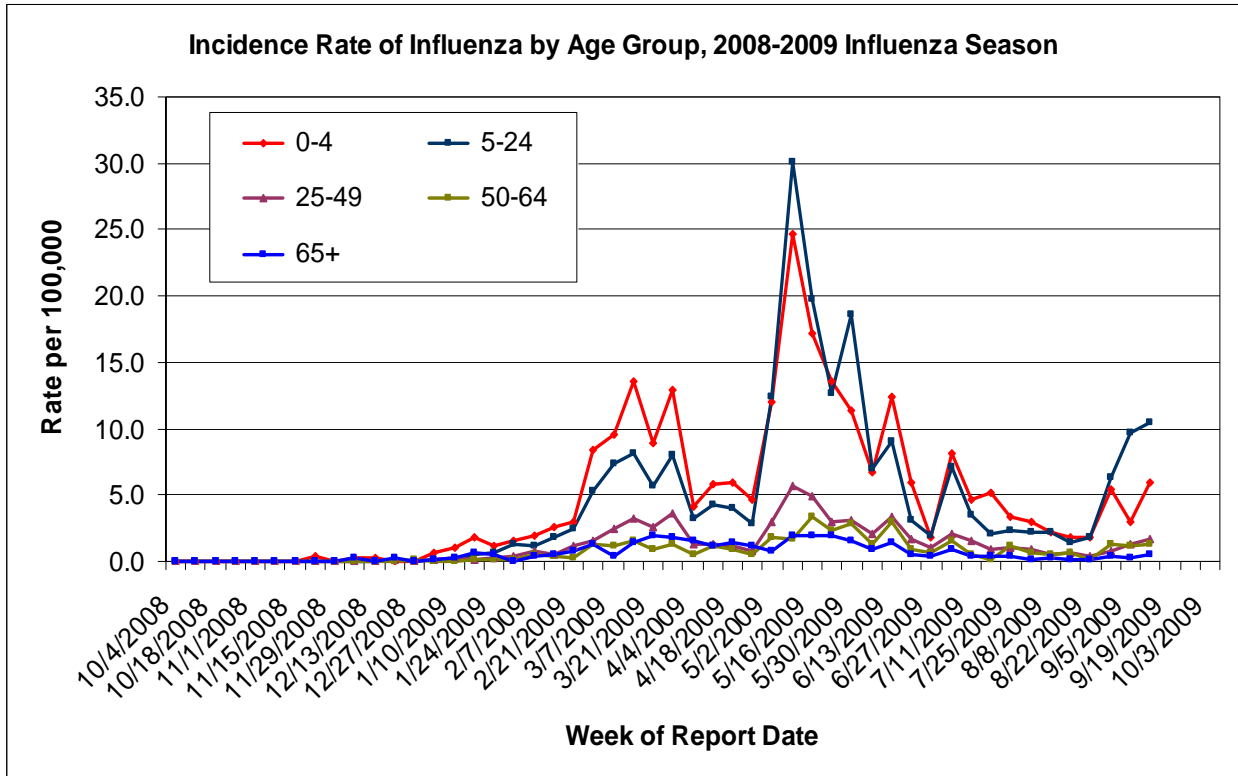
**Key:**

- \* = 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	186	44	76
Cochise	158	3	5
Coconino	357	24	38
Gila	45	2	6
Graham	157	0	6
Greenlee	111	0	0
La Paz	22	4	5
Maricopa	4,437	148	363
Mohave	94	14	45
Navajo	157	17	61
Pima	1,125	13	67
Pinal	250	1	3
Santa Cruz	49	0	0
Yavapai	70	3	13
Yuma	150	4	4
Unknown	2	2	2
<b>Total</b>	<b>7,370</b>	<b>279</b>	<b>694</b>

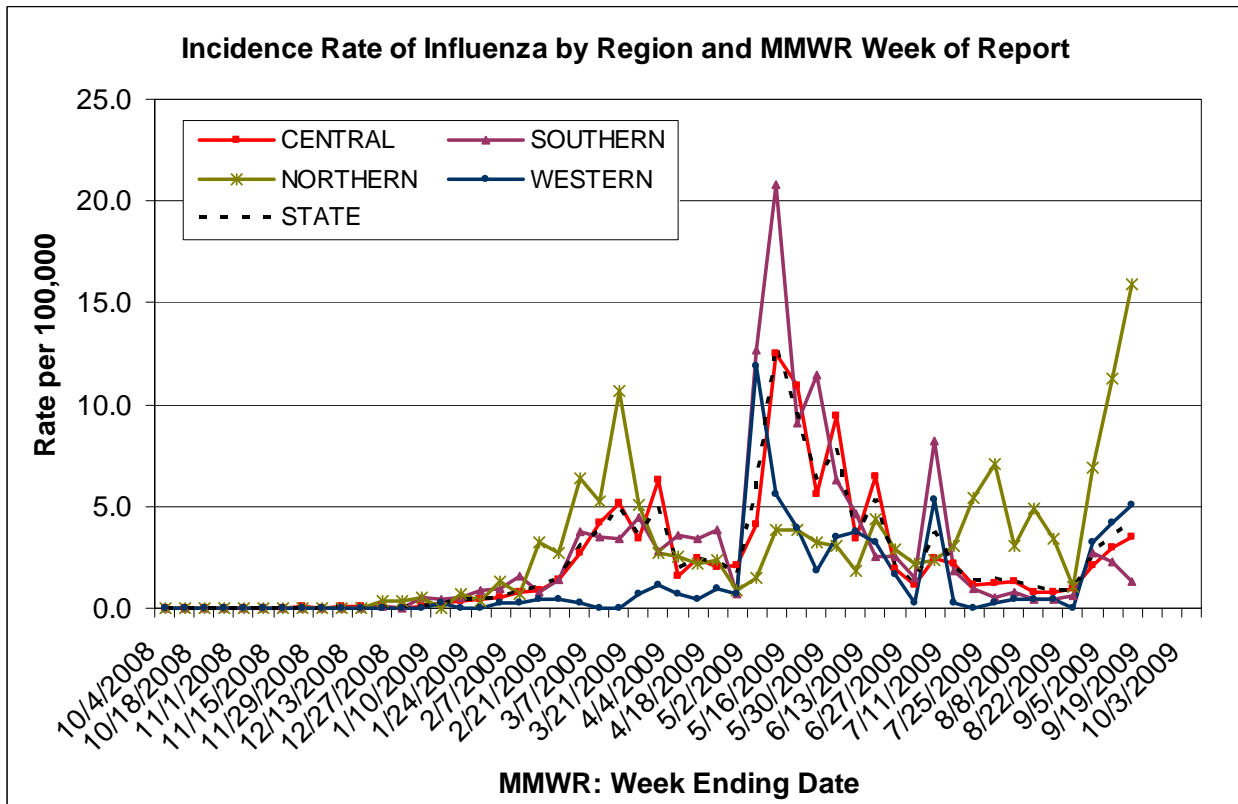
**Laboratory-Confirmed Influenza Activity by Age Group:**

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

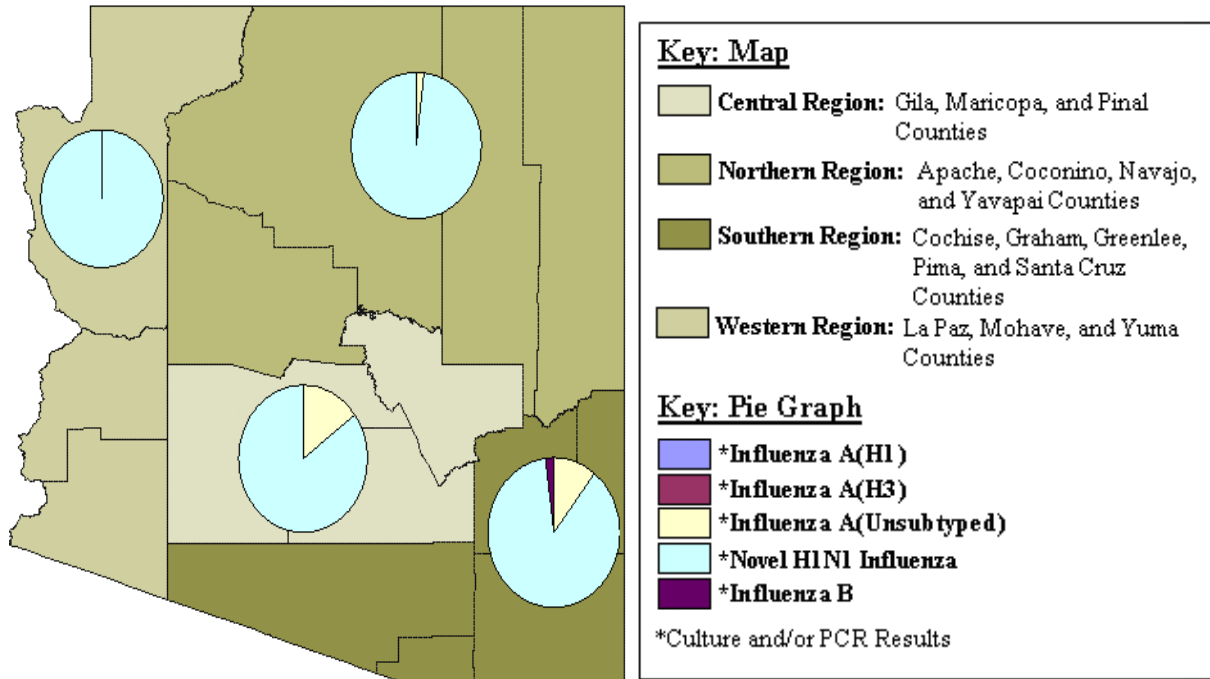


**Laboratory Surveillance:**

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 August 22<sup>nd</sup> through September 15<sup>th</sup>.



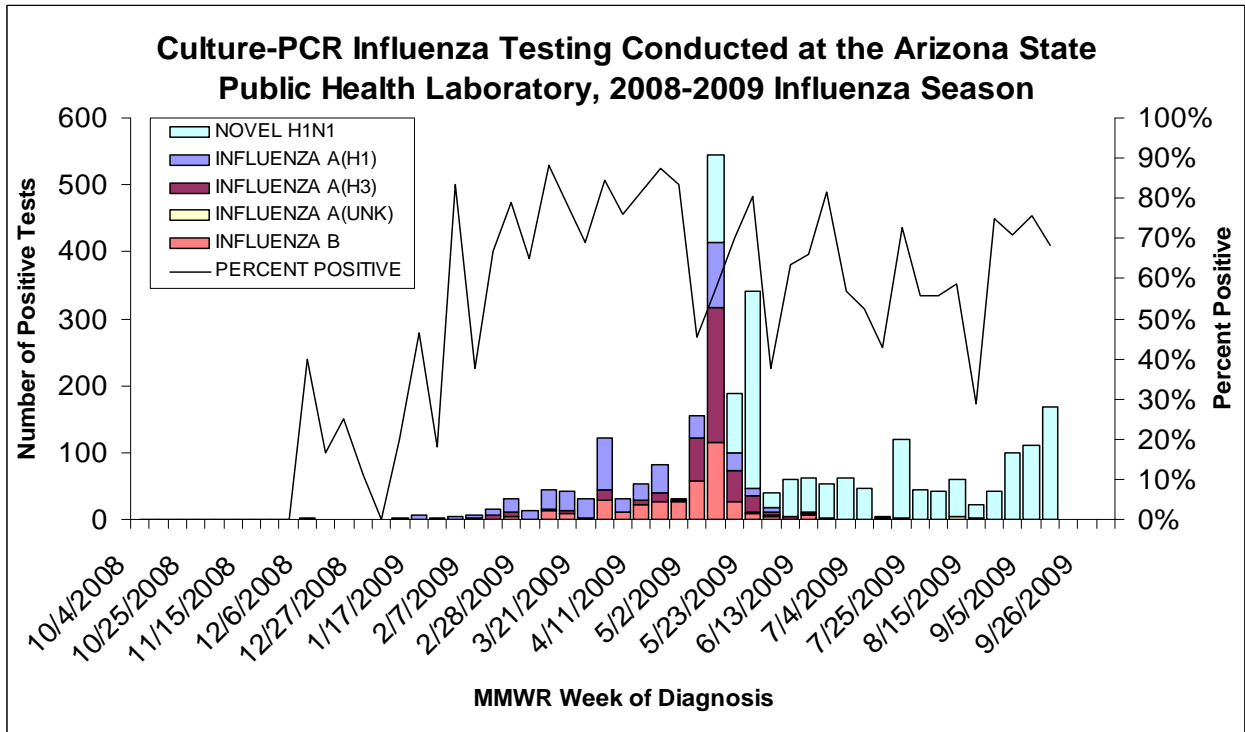
Region	Influenza A(H1)	Influenza A(H3)	Influenza A(Unsubtyped)	Novel H1N1 Influenza	Influenza B
Central	0 (0%)	0 (0%)	39 (15%)	225 (85%)	0 (0%)
Northern	0 (0%)	0 (0%)	1 (2%)	53 (98%)	0 (0%)
Southern	0 (0%)	0 (0%)	5 (10%)	42 (88%)	1 (2%)
Western	0 (0%)	0 (0%)	0 (0%)	32 (100%)	0 (0%)

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)
<b>Total*</b>	7,370	100%	5,168	100%	1,663	100%
<b>Influenza A*</b>	5,515	75%	2,898	56%	1,116	67%
Novel H1N1 †	1,474	20%	0	0%	0	0%
Influenza A(H1) †	456	6%	184	4%	235	14%
Influenza A(H3) †	381	5%	234	5%	31	2%
Influenza A(Unsubtyped) †	422	6%	257	5%	185	11%
<b>Influenza B*</b>	1,674	23%	1,900	37%	355	21%
B/Victoria lineage †	109	1%	0	0%	38	2%
B/Yamagata lineage †	1	0%	181	4%	5	1%
B/Unsubtyped †	398	5%	325	6%	120	7%
<b>Unknown*</b>	181	2%	370	7%	192	12%

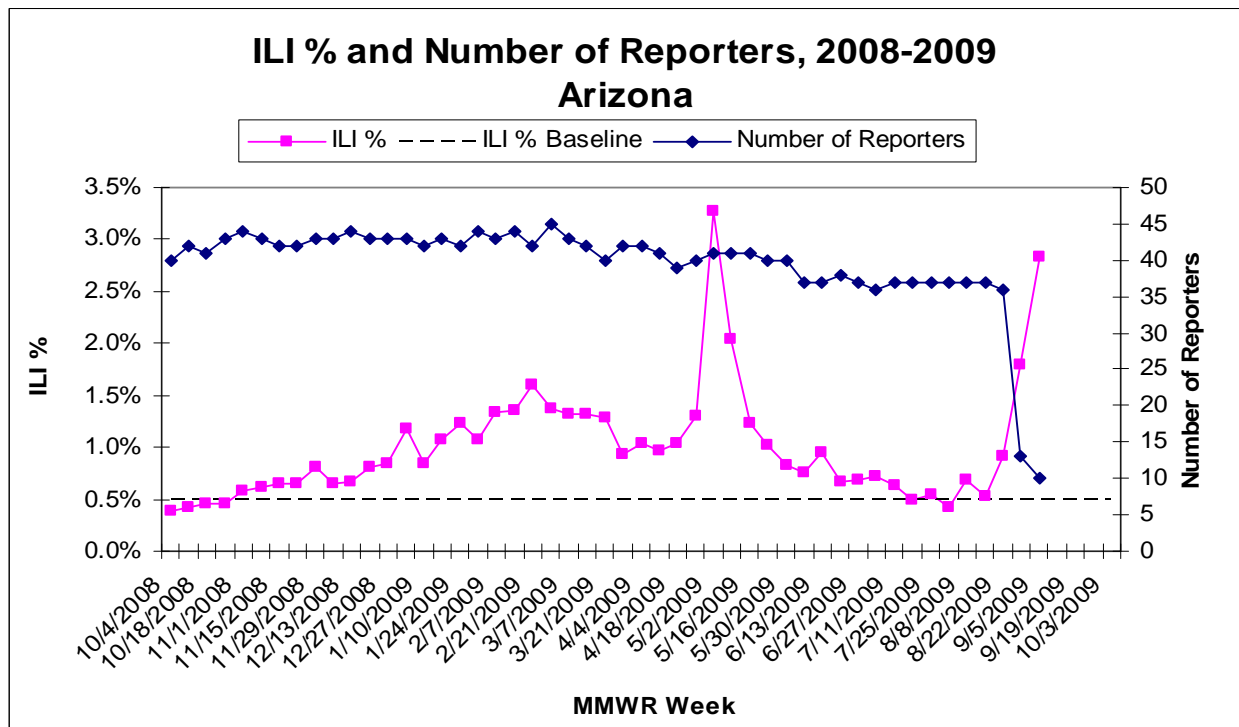
\* Data for the bolded categories include all tests.

† 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 2.8% for the week ending 9/5/2009 (week 35). This value is above the state baseline of 0.5%. As of 9/15/2009, 10 sentinel providers reported by the end of week 35. 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:**

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