

Weekly Influenza Summary:

As of 6/30/2009, a total of 5,872 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 6/27/2009. 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/>.

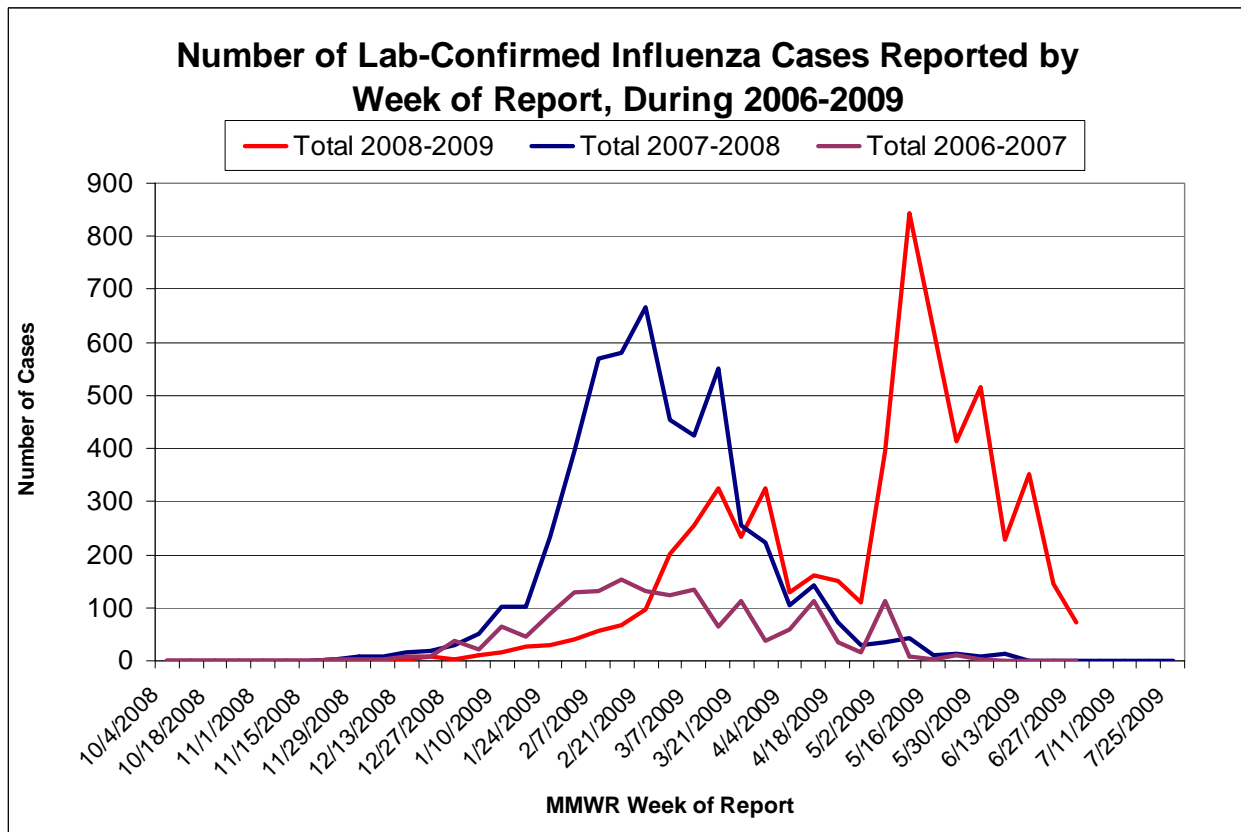
The seasonal influenza strains continue to circulate along with the novel H1N1. Cases of seasonal influenza have been reported from all fifteen Arizona counties over the course of the season. The influenza-like-illness rate is higher than the state baseline for week 24. Nine influenza-associated pediatric 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>).

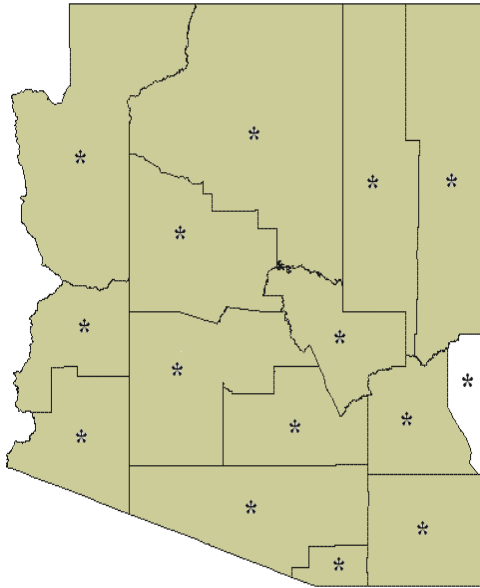
Laboratory-Confirmed Influenza Activity by Season [2006-2009]:

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.



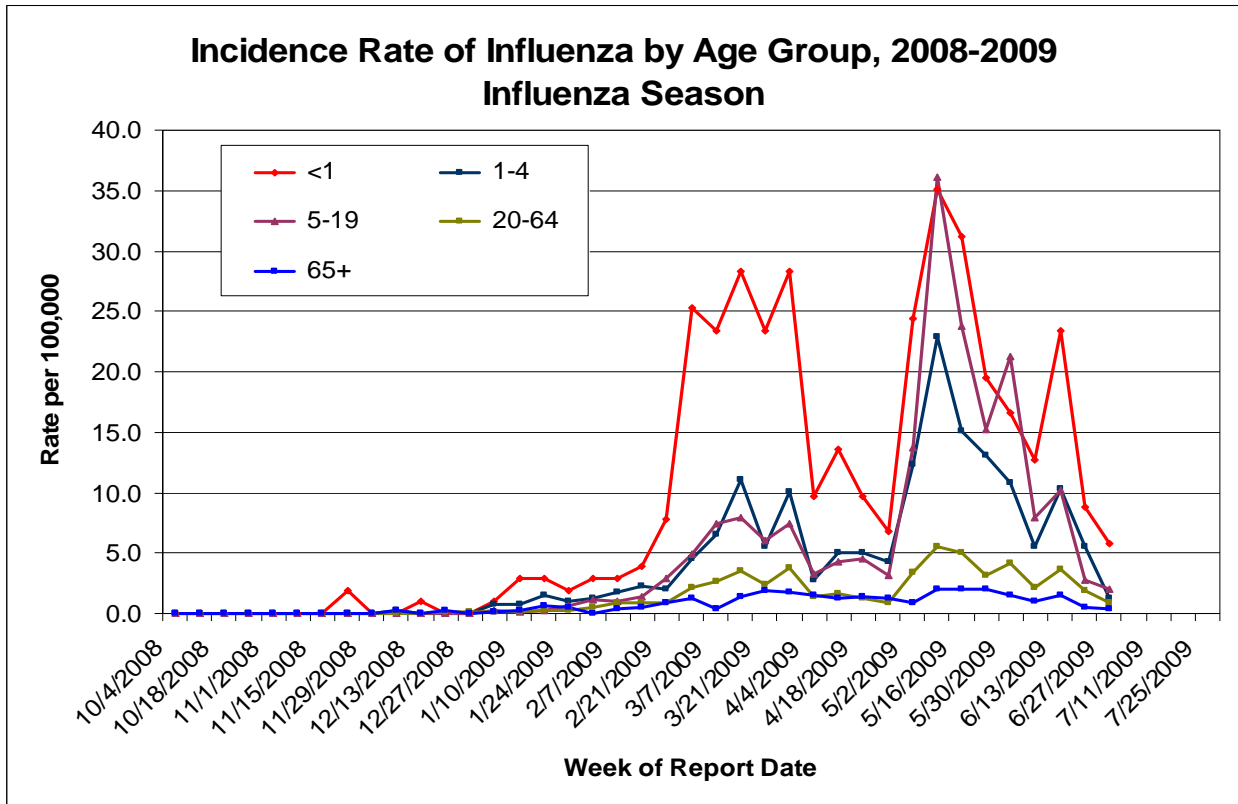
Key:

- * = 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	85	3	4
Cochise	140	0	18
Coconino	221	4	15
Gila	38	0	2
Graham	148	0	15
Greenlee	35	0	1
La Paz	16	0	7
Maricopa	3,659	47	469
Mohave	39	0	10
Navajo	69	3	19
Pima	985	14	93
Pinal	226	0	45
Santa Cruz	48	0	0
Yavapai	38	0	10
Yuma	125	0	20
Unknown	0	0	0
Total	5,872	71	728

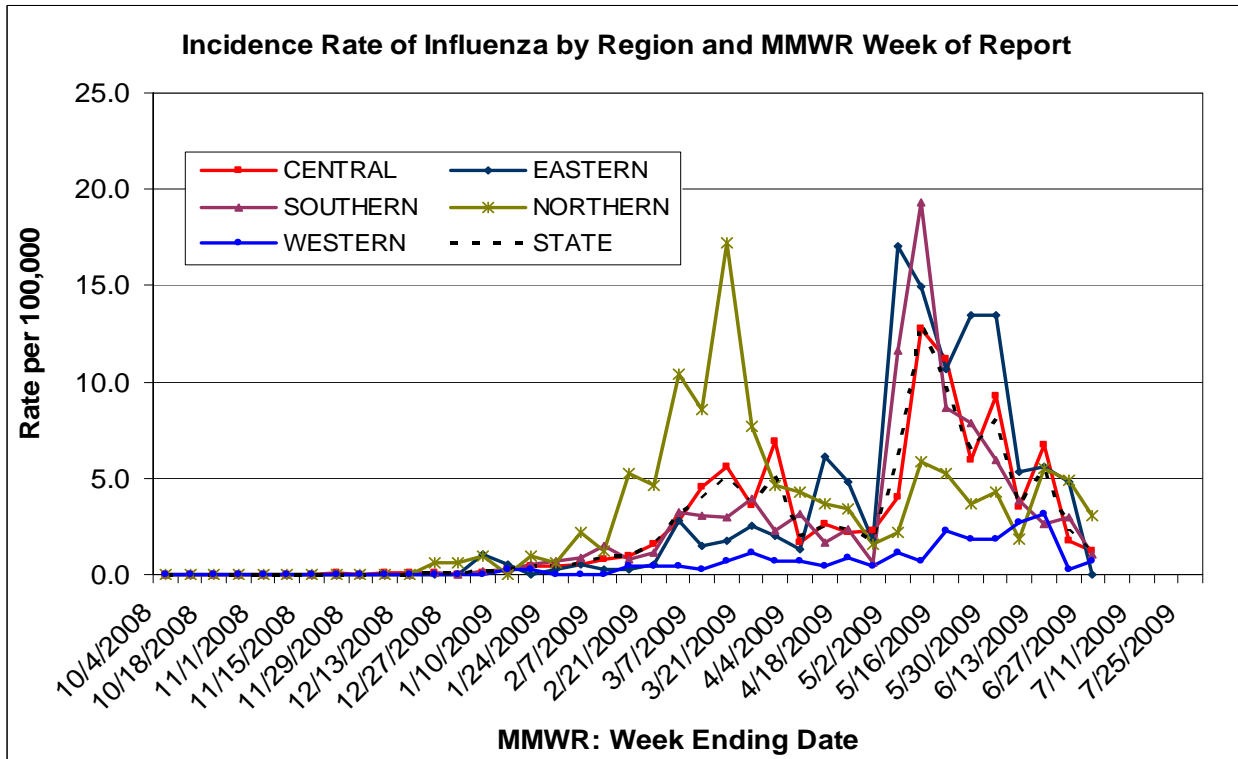
Laboratory-Confirmed Influenza Activity by Age Group:

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

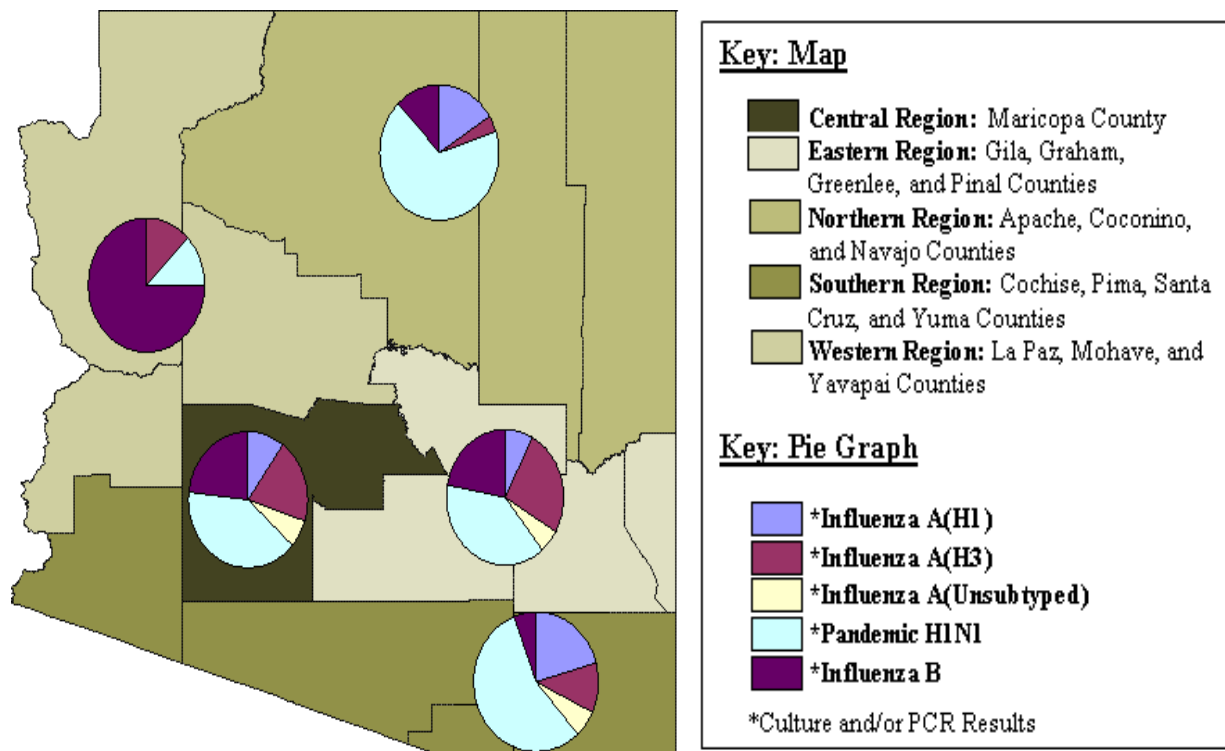


Laboratory Surveillance:

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 June 7th through the 27th.



Region	Influenza A(H1)	Influenza A(H3)	Influenza A(Unsubtyped)	Pandemic Influenza H1N1	Influenza B
Central	20 (8%)	65 (25%)	15 (6%)	99 (39%)	57 (22%)
Eastern	3 (10%)	6 (20%)	2 (7%)	12 (40%)	7 (23%)
Southern	7 (21%)	4 (12%)	2 (6%)	19 (56%)	2 (6%)
Northern	4 (16%)	1 (4%)	0 (0.0%)	17 (68%)	3 (12%)
Western	0 (0%)	1 (13.0%)	0 (0%)	1 (13%)	6 (75%)

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*	5,872	100%	5,168	100%	1,663	100%
Influenza A*	4,117	70%	2,898	56%	1,116	67%
A/H1 †	411	7%	184	4%	235	14%
A/H3 †	347	6%	234	5%	31	2%
A/Type unknown†	335	6%	257	5%	185	11%
Influenza B*	1,557	27%	1,900	37%	355	21%
B/Victoria lineage †	104	2%	0	0%	38	2%
B/Yamagata lineage †	0	0%	181	4%	5	1%
B/Unsubtyped †	376	6%	325	6%	120	7%
Unknown*	198	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.

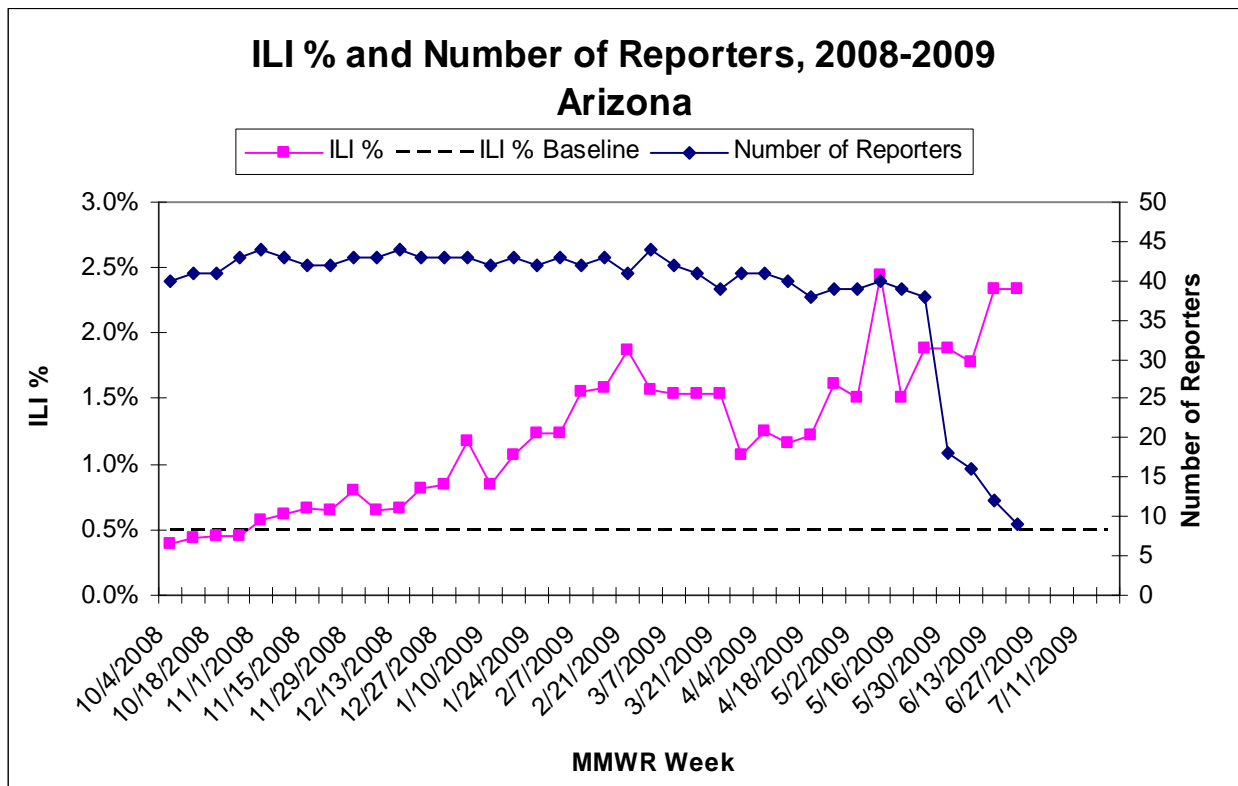
	Arizona† (2008-2009)	Percent Total (2008-2009)	Mountain Region* (2008-2009)	Percent Total (2008-2009)	Nationwide* (2008-2009)	Percent Total (2008-2009)
Total	1,637	100%	2145	100%	25925	100%
Influenza A	1,157	71%	1718	80%	17239	66%
A/H1	411	36%	679	40%	6223	36%
A/H3	236	20%	201	12%	750	4%
A/Unsubtyped	335	29%	838	49%	10266	60%
Influenza B	480	29%	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 24 or week ending 6/20/2009.

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

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

The proportion of patient visits to sentinel providers for ILI in the state was 2.3% for the week ending 6/20/2009 (week 24). This value is much higher than the state baseline of 0.5%. As of 6/24/2009, 9 sentinel providers reported by the end of week 24. 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:

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