

**Synopsis:**

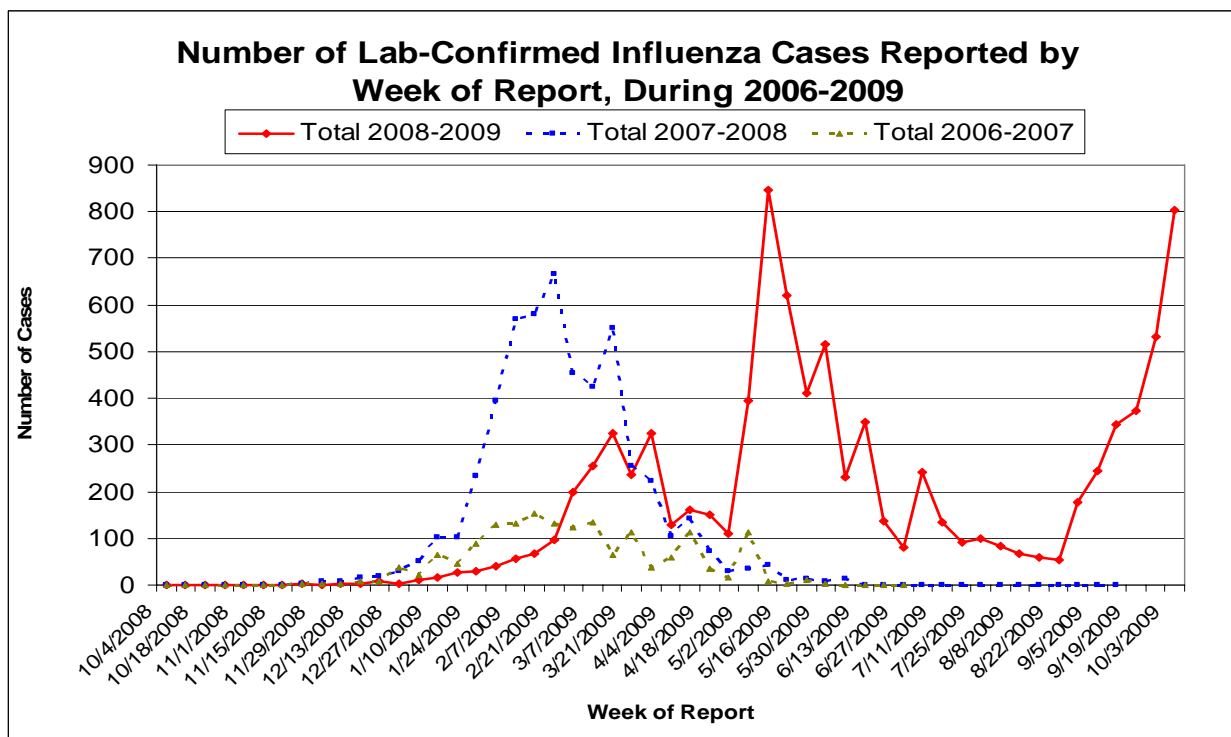
During the past week, influenza activity remained elevated in Arizona. Arizona’s influenza activity level continues to be ‘widespread’.

**Influenza activity highlights:**

- 803 laboratory-confirmed cases of influenza were reported in the past week, a 51% increase compared to the prior week; this includes 303 laboratory-confirmed cases of 2009 H1N1 influenza, a 27% increase compared to the week before
- 100% of subtyped influenza viruses at the Arizona State Laboratory during the previous week were 2009 H1N1 influenza virus
- 33 pneumonia and influenza deaths were identified from death certificates in the past week; 855 pneumonia and influenza deaths have been identified in the 2008-2009 influenza season; 1,083 pneumonia and influenza deaths were identified for the same time period during the 2007-2008 influenza season
- 3 deaths associated with lab-confirmed 2009 H1N1 influenza virus were identified in the previous week; 30 deaths associated with the 2009 H1N1 influenza virus have been identified this season.
- 0 lab-confirmed influenza-associated pediatric deaths were reported in the past week. 12 have been reported this season. 7 of the 12 were confirmed to be 2009 H1N1 influenza virus.
- The cases included in this report represent a small proportion of the true number of cases of influenza. Many people do not visit the doctor when ill and doctors should not be expected to run tests on all patients exhibiting influenza-like symptoms.

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

Positive influenza tests are reported to ADHS. These include many types of test (rapid tests, culture, PCR, DFA, etc.). Many of these do not distinguish 2009 H1N1 influenza from other influenza strains.



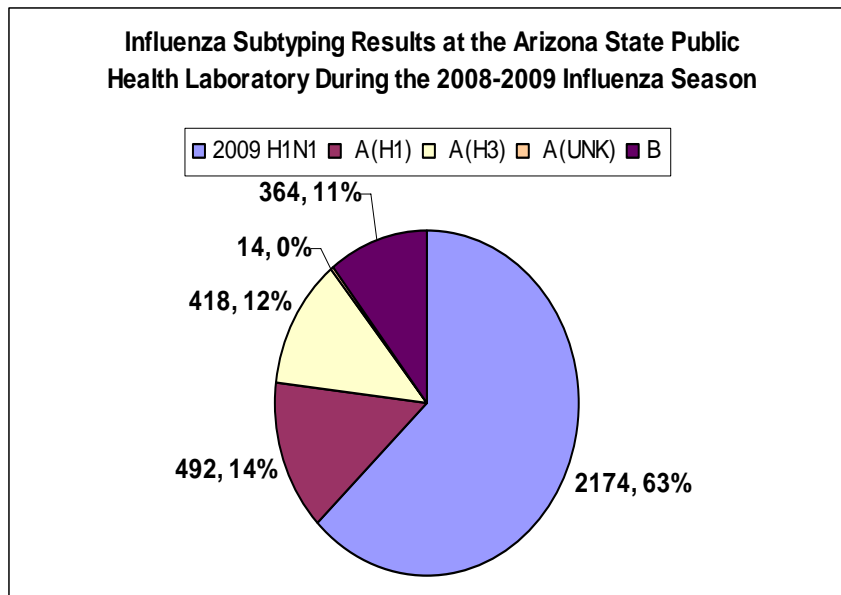
**Laboratory-Confirmed Influenza Activity by County [2008-2009 Influenza Season]:**

County	Number of Laboratory-Confirmed Cases (Includes ALL reported lab-confirmed flu reports, regardless of type of tests or influenza subtype. Many of these tests do not distinguish subtype.)		Number of Laboratory-Confirmed 2009 H1N1 influenza Cases (Includes ONLY cases that are confirmed to be 2009 H1N1 influenza by the State Lab or other validated facilities.)	
	2008-2009 Season	Last Week	2008-2009 Season	Last Week
Apache	299	33	58	3
Cochise	274	87	9	2
Coconino	456	30	82	10
Gila	70	9	26	8
Graham	220	36	9	1
Greenlee	111	0	0	0
La Paz	42	1	14	1
Maricopa	5,338	410	1,448	239
Mohave	136	11	69	3
Navajo	245	34	87	13
Pima	1,325	103	242	12
Pinal	278	13	110	3
Santa Cruz	74	8	17	1
Yavapai	109	17	24	6
Yuma	172	11	68	1
Unknown	0	0	0	0
<b>Total</b>	9,149	803	2,263	303

**Arizona State Public Health Laboratory (ASPHL) - Influenza Subtyping Data:**

- In the past week, 292 specimens tested positive for influenza at ASPHL.
- 100% of the influenza viral subtypes identified at ASPHL were 2009 H1N1 influenza.

Results for the 2008-2009 influenza season are shown below.



## Epidemiologic Information for confirmed 2009 H1N1 influenza cases:

	Total Confirmed H1N1 Cases (N=2,263)	Investigated H1N1 Hospitalizations** (N=399)	Identified H1N1- associated Deaths** (N=30)
<b>AGE</b>			
Range	9 Days – 89 Years	9 Days – 86 Years	1 Year – 77 Years
Mean, Median	20 years, 15 years	27 Years, 22 years	42 Years, 50.5 years
<b>AGE GROUP</b>			
0 to 4 years	288 (13%)	88 (22%)	1 (3%)
5 to 18 years	1,109 (49%)	92 (23%)	6 (20%)
19 to 49 years	656 (29%)	129 (32%)	7 (23%)
50 to 64 years	162 (7%)	68 (17%)	13 (43%)
65 years or older	41 (2%)	22 (6%)	3 (10%)
Unknown age	7 (0%)	0 (0%)	0 (0%)
<b>MEDICAL HISTORY &amp; INFO</b>			
At least 1 Underlying Medical Condition*	N/A	281 (70%)	25 (83%)
Pneumonia at Time of Hospital Admission	N/A	153 (38%)	22 (73%)
Intensive Care Unit Admission	N/A	96 (24%)	25 (83%)
Mechanical ventilation required	N/A	56 (14%)	25 (83%)

\*Medical conditions include: asthma, chronic lung disease, chronic heart or circulatory disease, metabolic disease, cancer, pregnancy, immunosuppressive condition, neurologic disease, and other chronic diseases.

\*\*Investigations for identified H1N1 hospitalizations and deaths are ongoing. Pertinent data may not be collected for all identified cases at time of the report, so data presented above may be incomplete.

### Glossary of Key Terms:

*2008-2009 Influenza Season* – The season is defined by surveillance weeks. The first day of the 2008-2009 influenza season was September 28<sup>th</sup>, 2008, or week 40 and the 2008-2009 surveillance season will continue through October 3<sup>rd</sup>, 2009, or week 39.

*Widespread Activity* – Increased influenza-like illness (ILI) and/or institutional outbreaks (ILI or laboratory-confirmed) in at least half of Arizona’s defined regions AND recent (within the previous three weeks) laboratory-confirmed influenza in the state.

*Pneumonia and Influenza Mortality* – Many influenza-related deaths are due to complications of influenza infection, including pneumonia, and influenza is infrequently listed as the cause of death on death certificates. Surveillance from death certificates often uses the category of “pneumonia and influenza” as an indicator, although not all pneumonias are associated with influenza. See the CDC website for more information

[http://www.cdc.gov/flu/about/disease/us\\_flu-related\\_deaths.htm](http://www.cdc.gov/flu/about/disease/us_flu-related_deaths.htm).

*Hospitalization* – A hospitalization, for purposes of 2009 H1N1 influenza investigations, is defined as a laboratory-confirmed 2009 H1N1 influenza case who has been admitted to the hospital for at least 24 hours.