

2009-2010 Influenza Season (Season began 10/4/2009)

**Synopsis:**

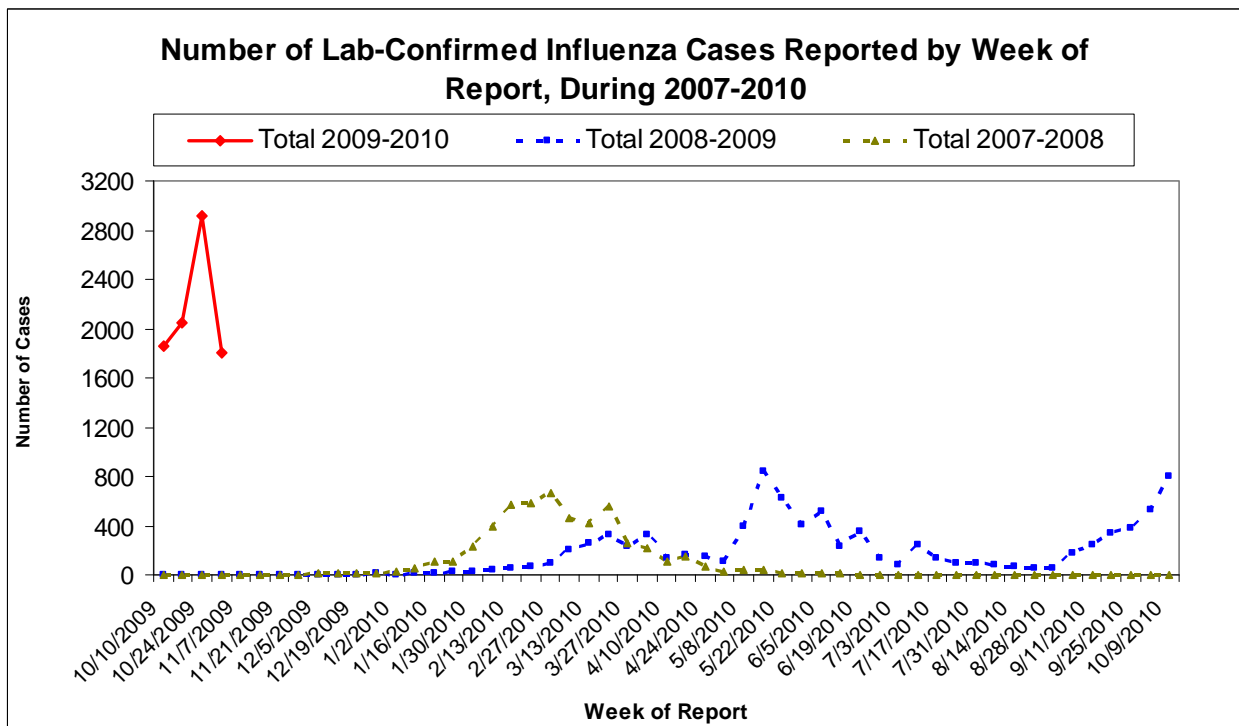
During the past week, influenza activity remained elevated in Arizona. Arizona’s influenza activity level continues to be “widespread”.

**Influenza activity highlights:**

- 1,806 laboratory-confirmed cases of influenza were reported in the past week; this includes 1,088 laboratory-confirmed cases of 2009 H1N1 influenza.
- 100% of subtyped influenza viruses at the Arizona State Laboratory during the previous week were 2009 H1N1 influenza virus
- 50 pneumonia and influenza (P&I) deaths have been identified during the 2009-2010 influenza season; 880 pneumonia and influenza deaths were identified during the 2008-2009 influenza season
- 17 deaths associated with lab-confirmed 2009 H1N1 influenza virus were identified in the previous week; 81 deaths associated with the 2009 H1N1 influenza virus have been identified since April 2009.
- 1 lab-confirmed influenza-associated pediatric death was reported in the past week and 6 deaths have been reported for the current season. The 2009 H1N1 influenza virus was confirmed in five out of six deaths.
- 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 [2007-2010]:**

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 [2009-2010 Influenza Season]:**

<b>County</b>	<b>Number of Laboratory-Confirmed Cases (Includes ALL reported lab-confirmed flu reports, regardless of subtype.)</b>		<b>Number of Laboratory-Confirmed 2009 H1N1 Influenza Cases (Includes ONLY cases that are confirmed to be H1N1 by the State Lab or other validated facilities.)</b>		
	<i>2009-2010 Season</i>	<i>Last Week</i>	<i>2009-2010 Season</i>	<i>Last Week</i>	<i>Total Since April 2009</i>
Apache	125	12	16	2	74
Cochise	444	39	26	1	36
Coconino	231	36	68	14	150
Gila	39	5	15	0	42
Graham	264	62	9	0	18
Greenlee	1	1	1	1	1
La Paz	3	0	1	0	16
Maricopa	4,981	1,084	2,860	743	4,340
Mohave	144	33	107	24	177
Navajo	79	33	35	8	126
Pima	1,373	305	449	184	695
Pinal	353	115	220	81	331
Santa Cruz	60	2	13	1	31
Yavapai	301	65	79	23	99
Yuma	229	11	88	6	165
Unknown	6	3	1	0	1
<b>Total</b>	8,633	1,806	3,988	1,088	6,302

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

- In the past week, 385 specimens tested positive for influenza at ASPHL.
- 100% of the influenza viral subtypes identified at ASPHL were 2009 H1N1 influenza.

## **Epidemiologic Information for confirmed 2009 H1N1 influenza cases since April 2009:**

	<b>Total Confirmed H1N1 Cases (N=6,302)</b>	<b>Investigated H1N1 Hospitalizations** (N=786)</b>	<b>Identified H1N1- associated Deaths** (N=81)</b>
<b>AGE</b>			
<b>Range</b>	9 Days – 96 Years	9 Days – 89 Years	1 Year – 77 Years
<b>Mean, Median</b>	21 years, 16 years	26 Years, 20 years	42 Years, 46 years
<b>AGE GROUP</b>			
<b>0 to 4 years</b>	867 (14%)	164 (21%)	2 (2%)
<b>5 to 18 years</b>	2,780 (44%)	214 (27%)	10 (12%)
<b>19 to 49 years</b>	2,017 (32%)	242 (31%)	35 (43%)
<b>50 to 64 years</b>	466 (7%)	123 (16%)	24 (30%)
<b>65 years or older</b>	128 (2%)	43 (5%)	10 (12%)
<b>Unknown age</b>	44 (1%)	0 (0%)	0 (0%)
<b>MEDICAL HISTORY &amp; INFO</b>			
<b>At least 1 Underlying Medical Condition*</b>	N/A	515 (66%)	58 (72%)
<b>Pneumonia at Time of Hospital Admission</b>	N/A	304 (39%)	44 (54%)
<b>Intensive Care Unit Admission</b>	N/A	196 (25%)	50 (62%)
<b>Mechanical ventilation required</b>	N/A	115 (15%)	49 (60%)

\*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:**

*2009-2010 Influenza Season* – The season is defined by surveillance weeks. The first day of the 2009-2010 influenza season was October 4<sup>th</sup>, 2009, or week 40 and the 2009-2010 surveillance season will continue through October 2<sup>nd</sup>, 2010, 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.