

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

Synopsis:

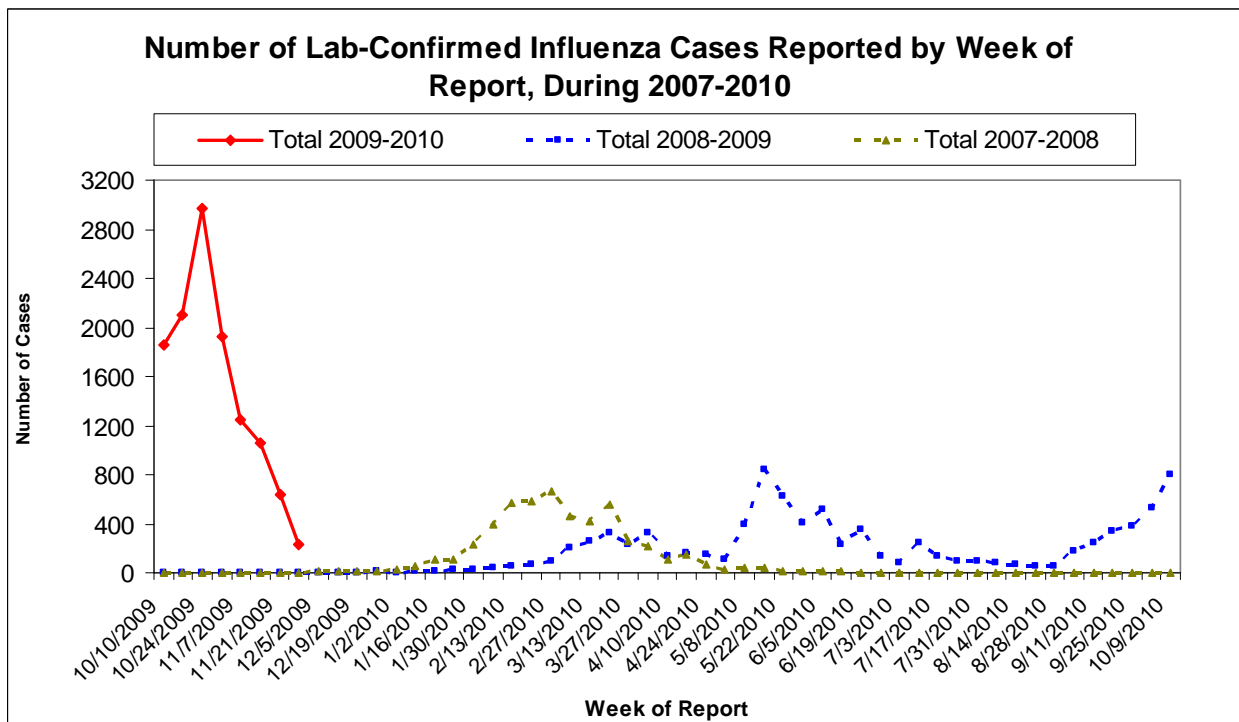
During the past week, influenza activity continues to decline in Arizona. However, Arizona’s influenza activity level continues to be “widespread”.

Influenza activity highlights:

- 224 laboratory-confirmed cases of influenza were reported in the past week; this includes 111 laboratory-confirmed cases of 2009 H1N1 influenza.
- 100% of the subtyped influenza viruses at the Arizona State Laboratory during the previous week were 2009 H1N1 influenza virus
- 8 pneumonia and influenza (P&I) deaths were identified during the previous week and 156 P&I deaths have been identified during the 2009-2010 influenza season; 880 P&I deaths were identified during the 2008-2009 influenza season
- 10 deaths associated with lab-confirmed 2009 H1N1 influenza virus were identified in the previous week; 125 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 11 deaths have been reported for the current season. The 2009 H1N1 influenza virus was confirmed in all eleven pediatric 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]:

County	Number of Laboratory-Confirmed Cases (Includes ALL reported lab-confirmed flu reports, regardless of subtype.)		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.)		
	<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	146	2	26	1	84
Cochise	475	3	33	1	44
Coconino	307	1	81	1	163
Gila	56	1	19	1	46
Graham	540	7	13	0	22
Greenlee	1	0	1	0	1
La Paz	6	0	3	0	18
Maricopa	6,502	110	3,664	54	5,145
Mohave	321	16	256	13	326
Navajo	90	2	43	1	134
Pima	2,134	51	801	19	1,050
Pinal	649	25	381	16	492
Santa Cruz	67	0	19	0	36
Yavapai	443	6	165	4	186
Yuma	291	0	131	0	210
Unknown	2	0	0	0	0
Total	12,030	224	5,636	111	7,957

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

- In the past week, 30 specimens tested positive for influenza at ASPHL.
- 100% of the subtyped influenza viruses at the Arizona State Laboratory during the previous week were 2009 H1N1 influenza virus
- Two specimens tested positive for influenza B at the Arizona State Laboratory this season.

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

	Total Confirmed H1N1 Cases (N=7,957)	Identified H1N1 Hospitalizations (N=1,488)	Identified H1N1- Associated Deaths (N=125)
AGE			
Range	7 Days – 100 Years	7 Days – 96 Years	4 Months – 80 Years
Mean, Median	23 years, 17 years	27 Years, 22 years	43 Years, 48 years
AGE GROUP			
0 to 4 years	1,173 (15%)	316 (21%)	4 (3%)
5 to 18 years	3,232 (41%)	349 (23%)	13 (10%)
19 to 49 years	2,654 (33%)	476 (32%)	50 (40%)
50 to 64 years	655 (8%)	255 (17%)	43 (34%)
65 years or older	189 (2%)	92 (6%)	15 (12%)
Unknown age	54 (1%)	0 (0%)	0 (0%)
		Investigated H1N1 Hospitalizations** (N=1,051)	Investigated H1N1- Associated Deaths** (N=120)
MEDICAL HISTORY & INFO			
At least 1 Underlying Medical Condition*		644 (61%)	105 (88%)
Pneumonia at Time of Hospital Admission		410 (39%)	77 (64%)
Intensive Care Unit Admission		260 (25%)	88 (73%)
Mechanical ventilation required		159 (15%)	82 (68%)

*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 are only for investigated cases.

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 4th, 2009, or week 40 and the 2009-2010 surveillance season will continue through October 2nd, 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.

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.