

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

Synopsis:

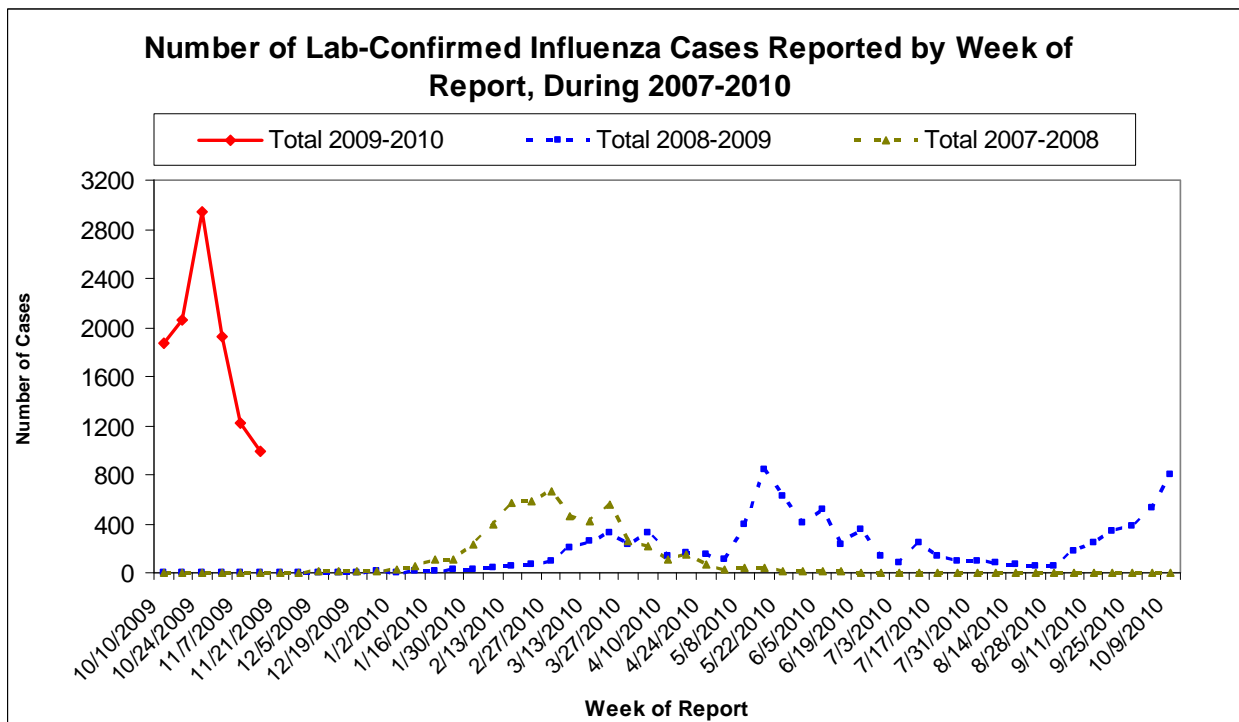
During the past week, influenza activity remained elevated in Arizona. Arizona’s influenza activity level continues to be “widespread”.

Influenza activity highlights:

- 994 laboratory-confirmed cases of influenza were reported in the past week; this includes 417 laboratory-confirmed cases of 2009 H1N1 influenza.
- 100% of the subtyped influenza viruses at the Arizona State Laboratory during the previous week were the 2009 H1N1 influenza virus
- 25 pneumonia and influenza (P&I) deaths were identified during the previous week and 87 P&I deaths have been identified during the 2009-2010 influenza season; 880 P&I deaths were identified during the 2008-2009 influenza season
- 11 deaths associated with lab-confirmed 2009 H1N1 influenza virus were identified in the previous week; 103 deaths associated with the 2009 H1N1 influenza virus have been identified since April 2009.
- No lab-confirmed influenza-associated pediatric deaths were reported in the past week and 8 deaths have been reported for the current season. The 2009 H1N1 influenza virus was confirmed in all eight 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	135	2	22	1	80
Cochise	467	7	26	0	37
Coconino	293	19	76	2	158
Gila	44	6	16	0	43
Graham	464	44	12	2	21
Greenlee	1	0	1	0	1
La Paz	4	0	2	0	17
Maricopa	6,105	517	3,442	205	4,924
Mohave	260	57	210	49	280
Navajo	87	2	42	1	133
Pima	1,843	169	724	97	972
Pinal	563	120	317	32	428
Santa Cruz	65	2	18	1	35
Yavapai	409	46	138	26	158
Yuma	275	3	118	1	197
Unknown	3	0	1	0	1
Total	11,018	994	5,165	417	7,485

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

- In the past week, 64 specimens tested positive for influenza at ASPHL.
- 100% of the subtyped influenza viruses at the Arizona State Laboratory during the previous week were the 2009 H1N1 influenza virus
- One specimen 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=7,485)	Identified H1N1 Hospitalizations (N=1,087)	Identified H1N1- Associated Deaths (N=103)
AGE			
Range	9 Days – 96 Years	9 Days – 89 Years	9 Months – 80 Years
Mean, Median	22 years, 17 years	27 Years, 22 years	43 Years, 49 years
AGE GROUP			
0 to 4 years	1,091 (15%)	222 (20%)	3 (3%)
5 to 18 years	3,125 (42%)	269 (25%)	11 (11%)
19 to 49 years	2,445 (33%)	349 (32%)	40 (39%)
50 to 64 years	601 (8%)	185 (17%)	37 (36%)
65 years or older	169 (2%)	62 (6%)	12 (12%)
Unknown age	54 (1%)	0 (0%)	0 (0%)
		Investigated H1N1 Hospitalizations** (N=861)	Investigated H1N1- Associated Deaths** (N=86)
MEDICAL HISTORY & INFO			
At least 1 Underlying Medical Condition*		549 (64%)	73 (85%)
Pneumonia at Time of Hospital Admission		350 (41%)	54 (63%)
Intensive Care Unit Admission		222 (26%)	62 (72%)
Mechanical ventilation required		130 (15%)	59 (69%)

*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.