



Nevada State Health Division

Influenza Surveillance Report

April 30, 2009

Pandemic Influenza

Epidemiology

Nevada: One case of swine flu (now known as H1N1 flu)** was confirmed in Washoe County on April 29, 2009. The 2-year old patient was not hospitalized and is doing well. This is Nevada's first case of H1N1. As of 1:30 pm PDT, April 30, 2009 there are no additional confirmed cases

****On April 30, 2009, the CDC replaced the term "Swine Flu" with "H1N1 Flu"*****

U.S.: According to the CDC, as of 10:30am EDT (1:30pm PDT) 4/30/09, **109 cases** of H1N1 flu have been confirmed in the U.S as noted in the table below.

U.S. Human Cases of H1N1 Flu Infection (As of April 30, 2009, 10:30 AM ET)

States	# of laboratory confirmed cases	Deaths
Arizona	1	
California	14	
Indiana	1	
Kansas	2	
Massachusetts	2	
Michigan	1	
Nevada	1	
New York	50	
Ohio	1	
South Carolina	10	
Texas	26	1
TOTAL COUNTS	109 cases	1 death

Source: CDC website at: <http://www.cdc.gov/swineflu/>



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On April 29, 2009, the World Health Organization raised the pandemic alert level to level 5

The reason for this increase in alert level is that more countries now have confirmed cases. This does not mean that the disease in infected persons is more severe. To date in the US the pattern of H1N1 cases is showing that the H1N1 cases are similar to seasonal flu in severity.

Worldwide: According to the World Health Organization (WHO) H1N1 Influenza update 6, as of 4/30/09, 11 countries are officially reporting 257 cases of swine influenza A/H1N1 infection. The breakdown is as follows:

United States – (109) with 1 reported death

Mexico – (97) with 7 reported deaths

Canada (19)

Spain – (13)

United Kingdom – (8)

Germany – (3)

New Zealand – (3)

Israel – (2)

Austria – (1)

Netherlands – (1)

Switzerland – (1)

Source: Who website at: http://www.who.int/csr/don/2009_04_30_a/en/index.html

Laboratory

The Nevada Public Health Laboratory began a 24/7 schedule on Sunday, 4/26/09.

As of 4:00pm, 4/29/09, the lab had 19 specimens running and 8 more being processed. No test results were available at that time.

The CDC has made PCR Test Kits for Swine Flu Confirmation available to laboratories. The lab ordered 1 kit on 4/28/09. Approximately 250 samples can be tested per kit. The date of delivery of the kit is uncertain. Until the State laboratory has the ability to confirm H1N1 cases, confirmed influenza A cases that are not typable will be sent to the CDC.



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Seasonal Influenza

Epidemiology

As of 4/30/09, some Nevada sentinel sites are beginning daily influenza like illness (ILI) reporting. Increased sentinel site daily reporting is expected as the CDC changes their system from weekly to daily reporting. It is not yet known when the change will be completed. Nevada is seeing an increase in the number of positive tests results, as well as influenza B test results. This is to be expected due to the increase in surveillance activities.

Nevada: Nevada has 5 reporting regions. As of 4/30/09, we are at “local influenza activity”, with 2 regions reporting elevated influenza activity.

There are 5 levels of influenza activity as defined by the CDC. They are:

- **No Activity:** No laboratory-confirmed cases of influenza and no reported increase in the number of cases of ILI.
- **Sporadic:** Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.
- **Local:** Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.
- **Regional:** Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.
- **Widespread:** Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

Source: CDC website at: <http://www.cdc.gov/flu/weekly/fluactivity.htm>



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Below are the statewide numbers of seasonal influenza cases in Nevada for 2009:

MMWR Week	Week of	Carson	Clark	Washoe	FaR Counties	Totals
17* up to 4/27/09	4/27/09	0	0	0	1	1
16	4/20/09	6	2	0	1	9
15	4/13/09	9	9	7	4	29
14	4/6/09	7	19	17	7	50
13	3/30/09	12	16	32	13	73
12	3/23/09	6	8	31	17	62
11	3/16/09	5	5	35	17	62
10	3/9/09	8	19	44	12	83
9	3/2/09	4	7	34	18	63
8	2/23/09	16	15	39	13	83
7	2/16/09	13	20	43	14	90
6	2/9/09	18	6	40	17	81
5	2/2/09	18	13	24	13	68
4	1/26/09	8	10	12	11	41
3	1/19/09	6	1	11	8	26
2	1/12/09	5	2	8	1	16
1	1/5/09	1	1	4	2	8
Totals		142	153	381	169	845

The number of cases statewide from October 1, 2008 – December 31, 2008 is 42, bringing the total number of cases so far for the 2008-2009 influenza season to 887. Breakdowns for individual FaR counties, as well as for the weeks from Oct-Dec, 2008 are available if needed.

U.S.: According to ILINet (CDC’s influenza syndromic surveillance system), nationwide:

- 0 states reported **widespread** activity
- 9 states reported **regional** activity
- 17 states reported **local** activity
- 22 states reported **sporadic** activity
- 2 states reported **no activity**

According to ILINet, Nevada’s ILI rate was 2.3% during week 15. In the “Mountain Region” of the U.S., which includes Nevada, the ILI rate was 1.4 %, which is below the regional baseline of 1.5%. The national ILI rate was 1.3%, which is below the national baseline of 2.4%