

Influenza Weekly Report

2014 Week 47 (November 16 – 22) through 2015 Week 47 (November 22 – 28)

Department of Health and Human Services
Division of Public and Behavioral Health
Office of Public Health Informatics and Epidemiology



Brian Sandoval
Governor
State of Nevada

Richard Whitley, MS
Director
Department of Health and Human Services

Cody L. Phinney, MPH
Administrator
Division of Public and Behavioral Health

Tracey D Green, MD
Chief Medical Officer
Division of Public and Behavioral Health

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Data for the graphs and tables on the following pages are provisional and may be updated as additional information becomes available.

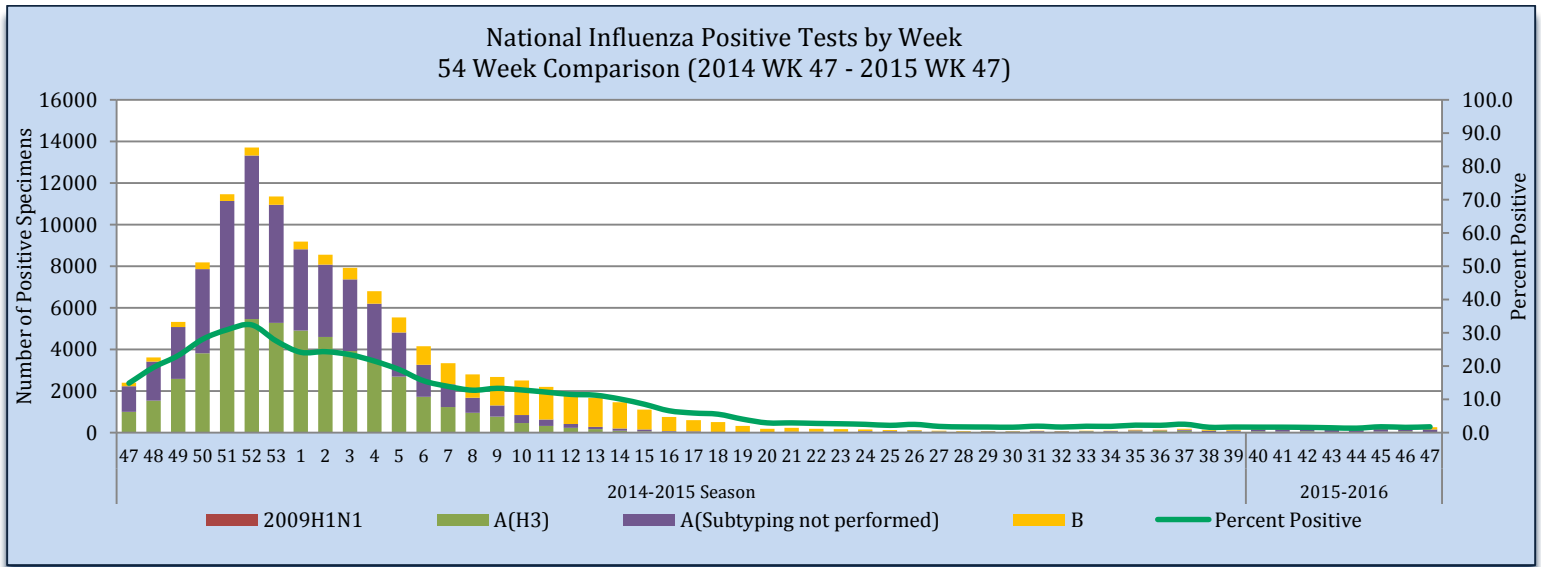
Purpose

The purpose of this report is to provide an overview of and statistics for the influenza season in Nevada for the local public health authorities, sentinel providers and the public.

Influenza-Like Illness Network Surveillance (ILINet)

Respiratory specimens are tested for influenza by the World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NRVESS) collaborating laboratories by sub-type. During week 47, there were 15,262 specimens collected and tested for influenza, of those 266 were positive (1.7%).

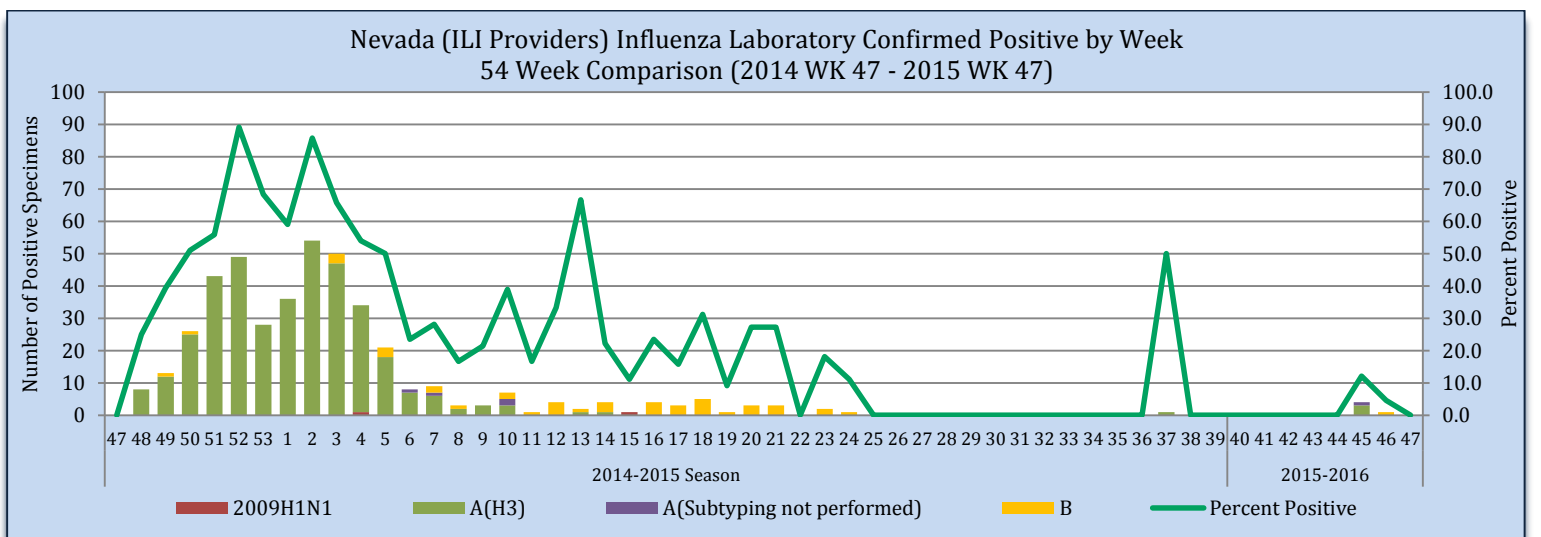
Figure 1



Source of Data: CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 47, there were 23 specimen collected and tested for influenza of which were no positive.

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 22 specimens for influenza from sentinel providers, of which there have been 4 positive (18.2%). Southern Nevada Public Health Laboratory (SNPHL) has tested 78 specimens this season of which there have been 3 positives. Nationally, there have been 116,849 specimens sent to the WHO and NERVSS laboratories of which 1,851 have been positive or 1.6%. The national numbers in Table 1 are reflected in Figure 1. The state of Nevada data in Table 1 is reflected in Figure 2. The Nevada total includes laboratory test for all Nevada residents including out of state laboratories.

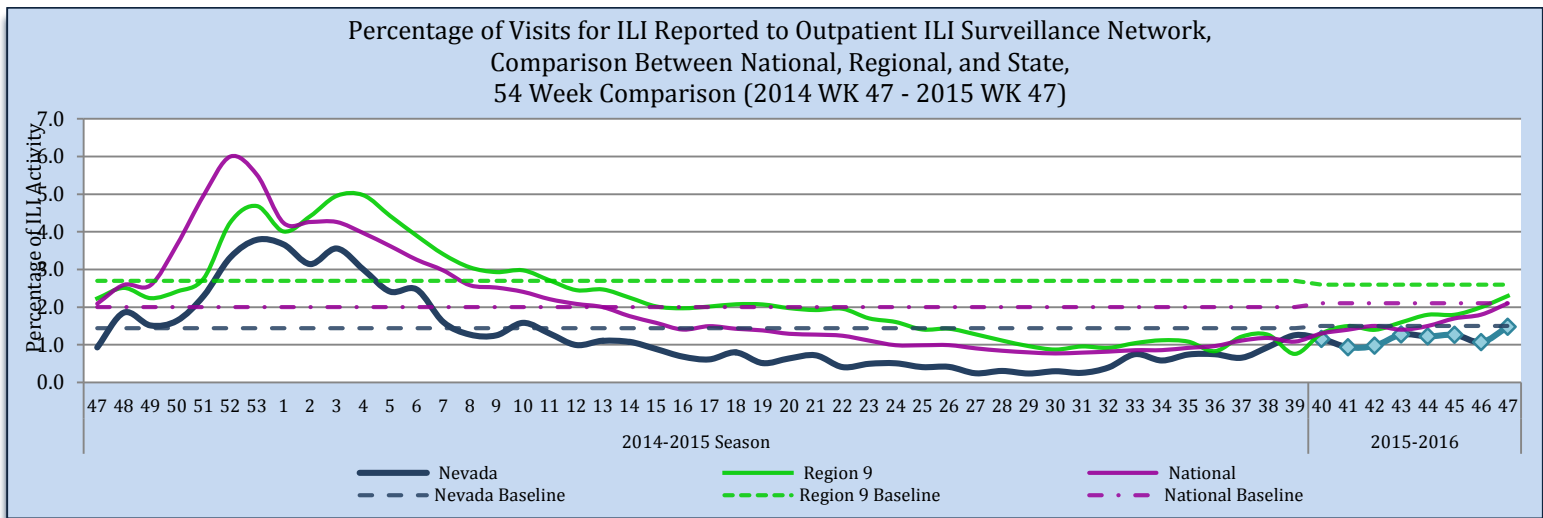
Table 1

ILINet Surveillance: Influenza Specimens Tested State and Nationally										
	NSPHL	SNPHL	State of Nevada (Week 47)		State of Nevada (Season)		National (Week 47)		National (Season)	
			#	%	#	%	#	%	#	%
Specimens Tested	22	78	23		186		15,262		116,849	
Positives to Influenza	4	3	0	0.0	5	2.7	266	1.7	1,851	1.6
Influenza A:	1	0	0	0.0	4	80.0	160	60.2	1,209	65.3
A (2009 H1N1)	0	0	0	0.0	0	0.0	15	9.4	72	6.0
A (H3)	1	0	0	0.0	3	75.0	24	15.0	306	25.3
A (Sub-typing not performed)	0	0	0	0.0	1	25.0	121	75.6	831	68.7
Influenza B:	0	0	0	0.0	1	20.0	106	39.8	642	34.7
B (Victoria Linage)	0	0	0	0.0	0	0.0	3	2.8	14	2.2
B (Yamagata Linage)	0	0	0	0.0	0	0.0	9	8.5	25	3.9
B (Sub-typing not performed)	0	0	0	0.0	1	100	94	88.7	603	93.9

Source of Data: CDC: FluView Report and CDC: ILINet.

Influenza-like illness (ILI) Surveillance Network has each sentinel providers report the number of patients that meet the ILI case definition and number of patients that visit the provider weekly. The “percentage of visits” is the number of ILI patients divided by the total number of patients visit per week. Nevada’s ILI percentage of visits to providers for week 47 is 1.5% and is at the state baseline 1.5%. Region 9 ILI percentage for week 47 is 2.3% and is below the region baseline 2.6%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 47 is 2.1% and is below the national baseline 2.1%.

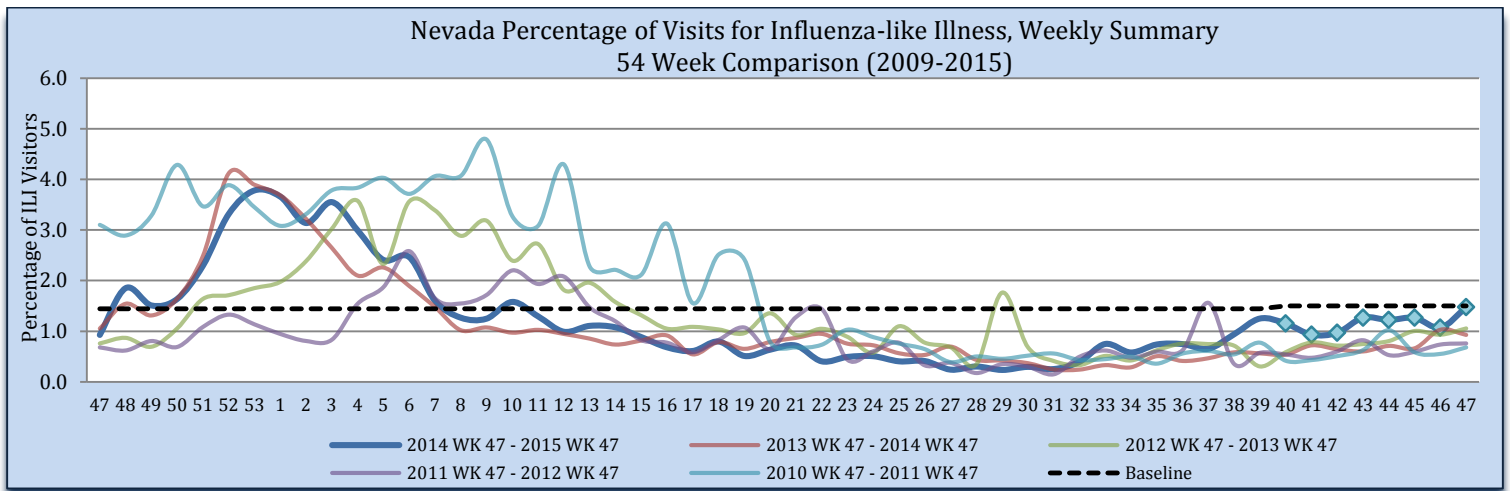
Figure 3



Source of Data: CDC: Flu View Report and CDC: ILINet.

During week 47, 1.5% of visits to sentinel providers were due to ILI; this is higher than the 2014-2015 influenza season (0.9%). There were 9,503 patients seen by ILI providers during week 47, of which 140 patients presented with ILI; week 47 of 2014, there were 164 patients seen with ILI (17,672 total patients seen). There was no week 53 in the previous influenza seasons displayed below; therefore the week 53 data point for those seasons is an average of week 52 and 1.

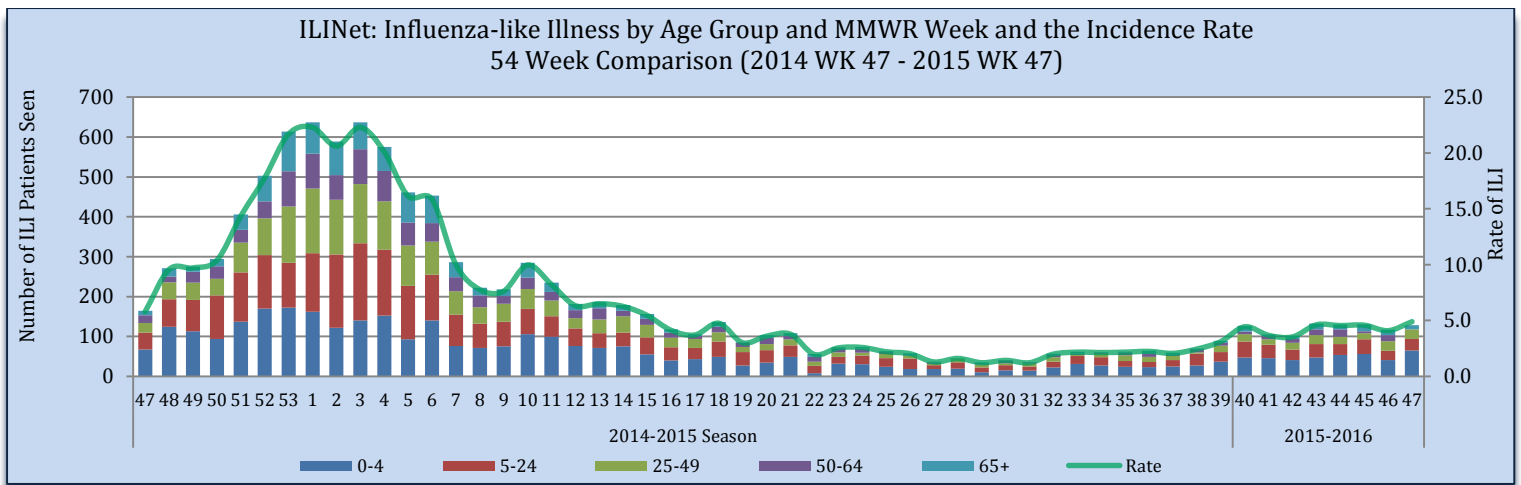
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups, during week 47, patients age 0-4 were the greatest number of patients seen with ILI, at 65 patients seen. The rate for week 47 is 4.9 per 100,000 population. The rate is calculated by the number of patients presented with ILI, divided by the state population, multiplied by 100,000. The estimated state population for 2015 is 2,855,061.

Figure 5



Source of Data: CDC: ILINet.

Influenza Positive Surveillance (NBS and NETSS)

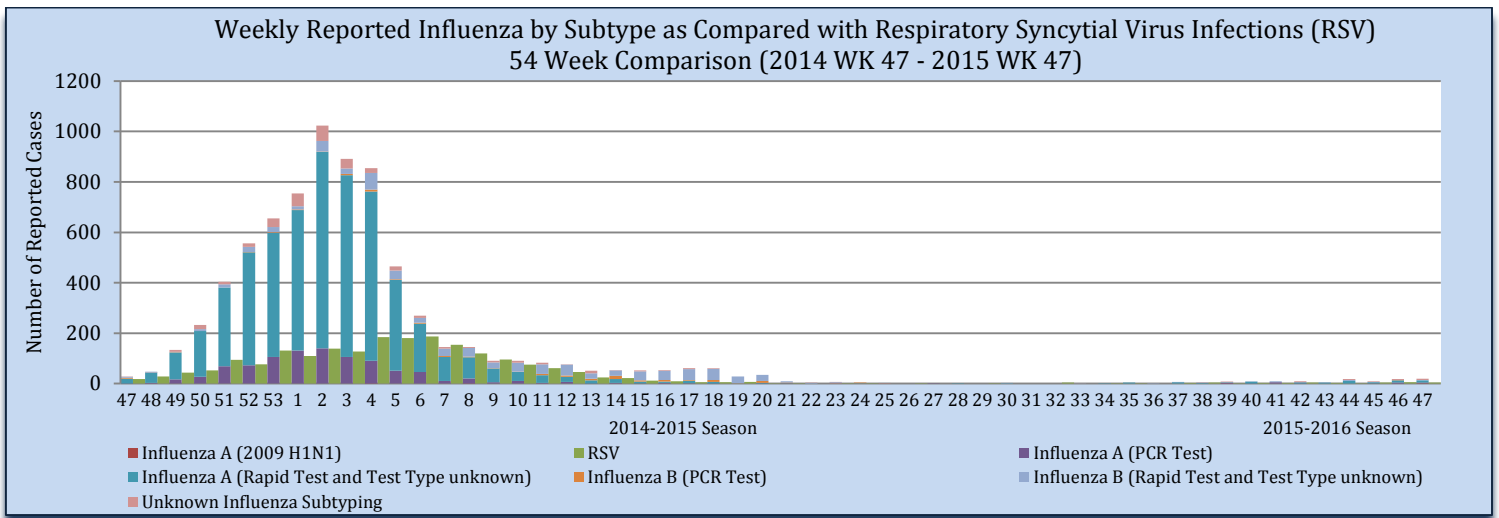
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 47, there were 20 influenza cases reported to the state, 11 influenza A, 2 influenza B case and 5 unknown sub-typing.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type									
	Current Week (Week 47)					Cumulative Influenza Season				
	H1N1	A	B	Unknown	Total	H1N1	A	B	Unknown	Total
Carson City Health and Human Services	0	0	0	0	0	0	5	0	0	5
Rural Community Health Services	0	0	0	0	0	0	1	0	0	1
Southern Nevada Health District	0	11	2	5	20	3	44	10	15	72
Washoe County Health District	0	0	0	0	0	0	12	5	2	19
State of Nevada	0	11	2	5	20	3	62	15	17	97

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



Source of Data: OPHIE: NBS and SNHD: NETSS.

Hospitalizations

There were 3 hospitalization associated with influenza reported to the state health authority for week 47.

Table 3

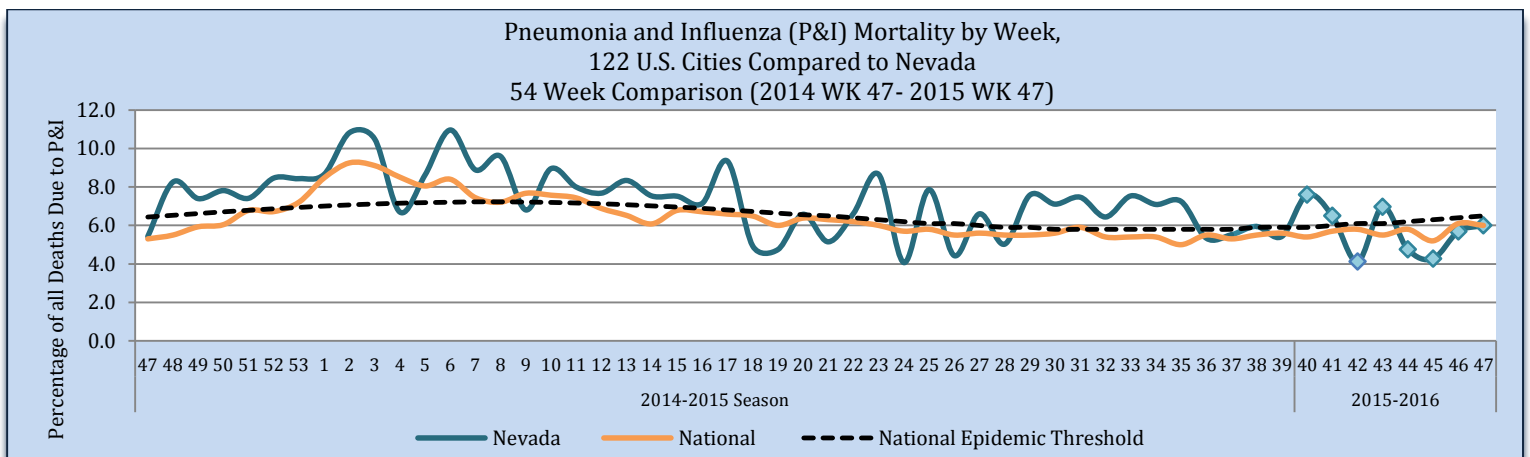
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 47)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	0	0.0	3	20.0
Rural Community Health Services	0	0.0	1	6.7
Southern Nevada Health District	3	100	11	73.3
Washoe County Health District	0	0.0	0	0.0
State of Nevada	3	100	15	100

Source: Reported to Office of Public Health Informatics and Epidemiology from each Jurisdiction.

Pneumonia and Influenza (P&I) Mortality Surveillance

The Pneumonia and Influenza (P&I) mortality percentage is the deaths, where Pneumonia or Influenza is listed as the underlying or contributing cause of death, divided by the total deaths in Nevada for each week. As of January 5, there were 27 P&I deaths and 450 total deaths for week 47. The P&I mortality percent is below the threshold at 6.0% (threshold 6.5%). Nationally, the P&I mortality is below the national epidemic threshold at 6.0% for week 47.

Figure 7



Source: OVR: WEVRRS and CDC: FluView.

Technical Notes

- Influenza-like illness (ILI): a fever greater than or equal 100°F with cough and/or sore throat
- Percent positive: The number of positive influenza laboratory tests divided by the total number of tests performed.
- Incidence rate is per 100,000 population as estimated by the state demographer.

This report contains information from national and state-level data sources. Influenza surveillance data is collected by a various systems, including:

- Influenza-like Illness Network (ILINet): a sentinel surveillance system in collaboration with the Centers for the Disease Control and Prevention (CDC) where outpatient providers report ILI information weekly.
- National Electronic Telecommunication System for Surveillance (NETSS): a system whereby data is transmits to CDC. Influenza data collected through NETSS does not provide influenza sub-typing information.
- National Electronic Disease Surveillance System (NEDSS): a system for collecting data and monitoring disease trends and outbreaks.
- NEDSS Based System (NBS): an implementation of the NEDSS standards. It provides a secure, accurate, and efficient means of collecting, transmitting, and analyzing public health data.

Citations

1. CDC. FluView: A Weekly Influenza Surveillance Report. <http://www.cdc.gov/flu/weekly/pastreports.htm>.
2. Nevada State Demographer's Office. 2003-2014 ASRHO Estimates and Projections. Division of Public and Behavioral Health edition. Vintage 2014.
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4. OPHIE. DPBH. NBS. 2013-2014. Accessed January 2016.
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6. Southern Nevada Health District (SNHD). NETSS/Trisano. 2013-2014. Accessed January 2016.

Comments, suggestions, and requests for further information may be addressed to:

NEVADA INFLUENZA SURVEILLANCE PROGRAM
OFFICE OF PUBLIC HEALTH INFORMATICS AND EPIDEMIOLOGY
4126 TECHNOLOGY WAY, STE 200
CARSON CITY NV 89706
TEL: (775) 684-5897
FAX: (775) 684-5999

Compiled and Written by:

JEN THOMPSON

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