

# Influenza Weekly Report

2014 Week 51 (December 14 – 20) through 2015 Week 51 (December 20 – 26)

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



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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.

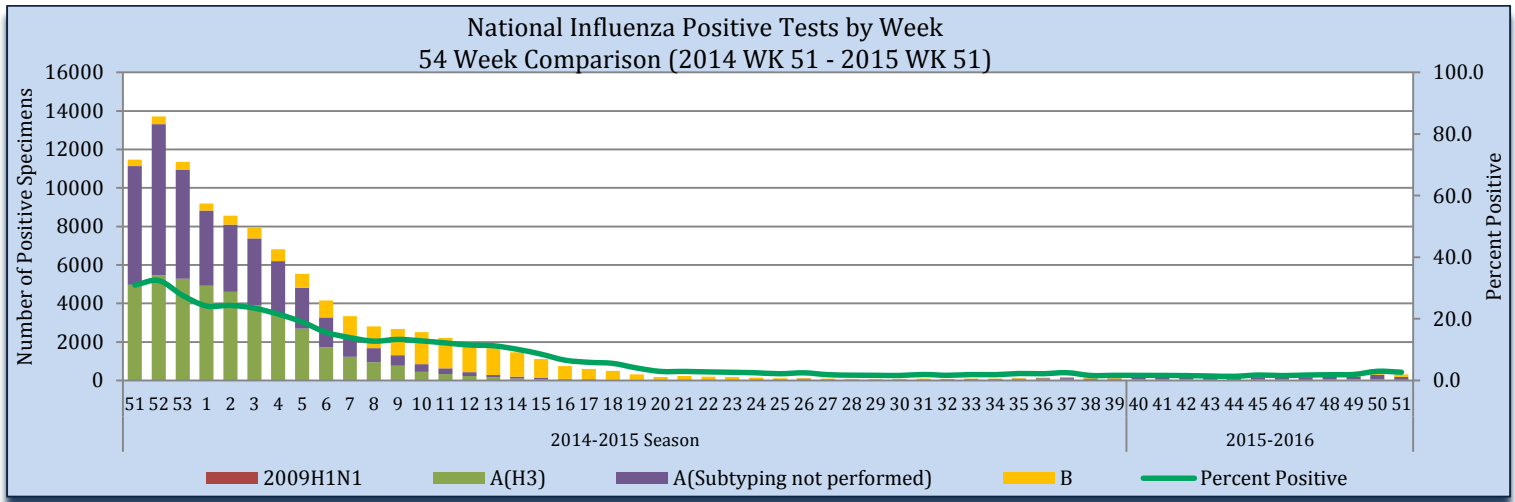
## Purpose

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 51, there were 12,034 specimens collected and tested for influenza, of those 320 were positive (2.7%).

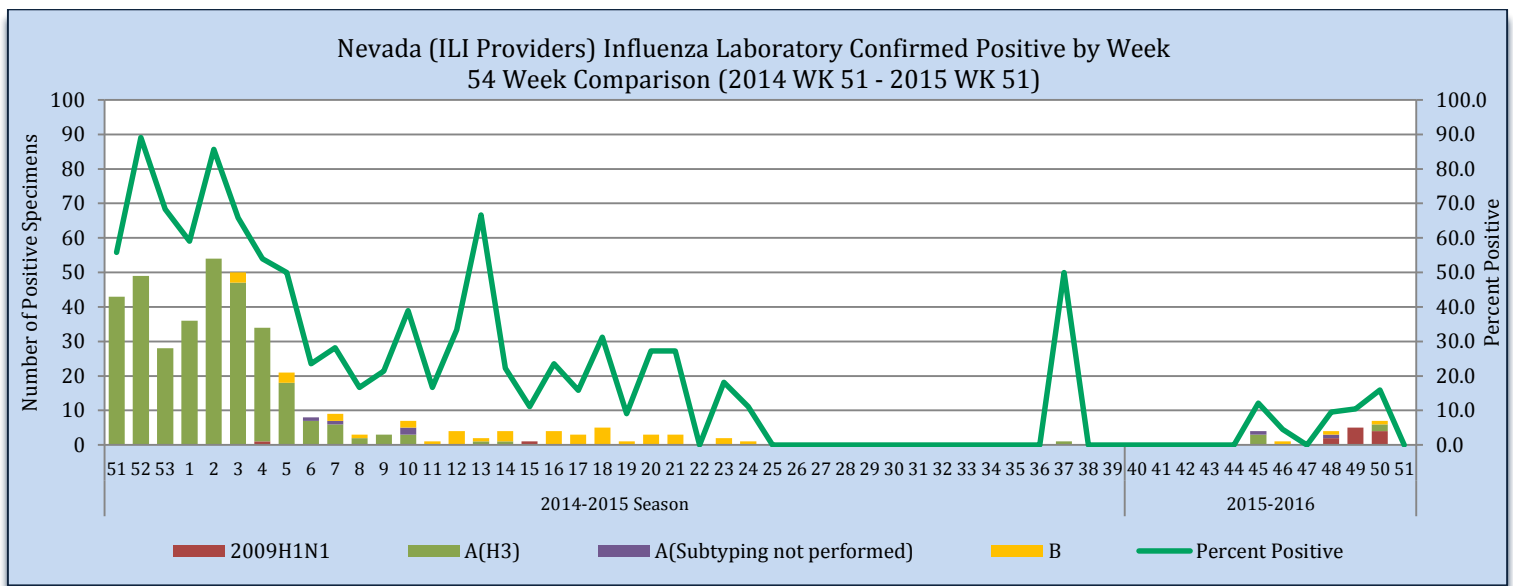
Figure 1



Source of Data: CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 51, there were 17 specimen collected and tested for influenza of which there were no positives.

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 34 specimens for influenza from sentinel providers, of which there have been 4 positive (11.8%). Southern Nevada Public Health Laboratory (SNPHL) has tested 113 specimens this season of which there have been 3 positive (2.7%). Nationally, there have been 177,408 specimens sent to the WHO and NERVSS laboratories of which 3,266 have been positive or 1.8%. 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.

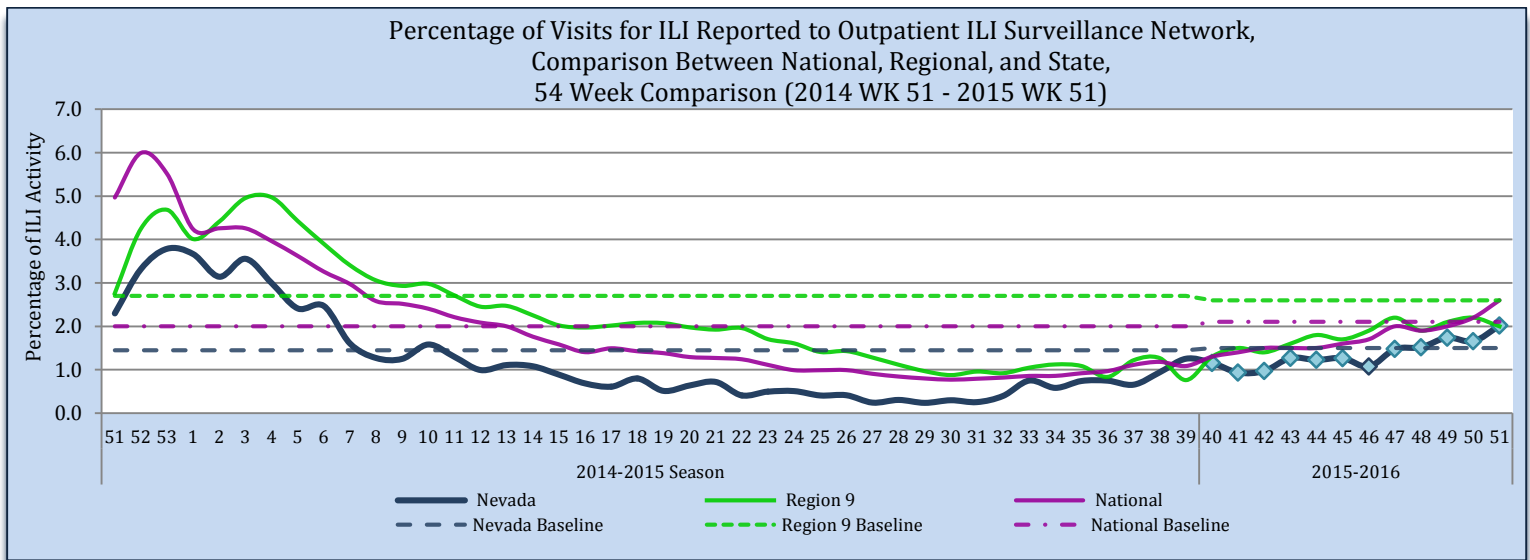
Table 1

ILINet Surveillance: Influenza Specimens Tested State and Nationally										
	NSPHL	SNPHL	State of Nevada (Week 51)		State of Nevada (Season)		National (Week 51)		National (Season)	
			#	%	#	%	#	%	#	%
Specimens Tested	34	113	17		337		12,034		177,408	
Positives to Influenza	4	3	0	0.0	21	6.6	320	2.7	3,266	1.8
<b>Influenza A:</b>	3	3	0	0.0	18	85.7	189	59.1	2,091	64.0
A (2009 H1N1)	0	3	0	0.0	11	61.1	23	12.2	201	9.6
A (H3)	3	0	0	0.0	5	27.8	6	3.2	399	19.1
A (Sub-typing not performed)	0	0	0	0.0	2	11.1	160	84.7	1,491	71.3
<b>Influenza B:</b>	1	0	0	0.0	3	14.3	131	40.9	1,175	36.0
B (Victoria Linage)	1	0	0	0.0	1	33.3	0	0.0	21	1.8
B (Yamagata Linage)	0	0	0	0.0	0	0.0	4	3.1	54	4.6
B (Sub-typing not performed)	0	0	0	0.0	2	66.7	127	96.9	1,100	93.6

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 51 is 2.0% and is above the state baseline 1.5% for the 5ht consecutive week. Region 9 ILI percentage for week 51 is 2.0% 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 51 is 2.6% and is above the national baseline 2.1%.

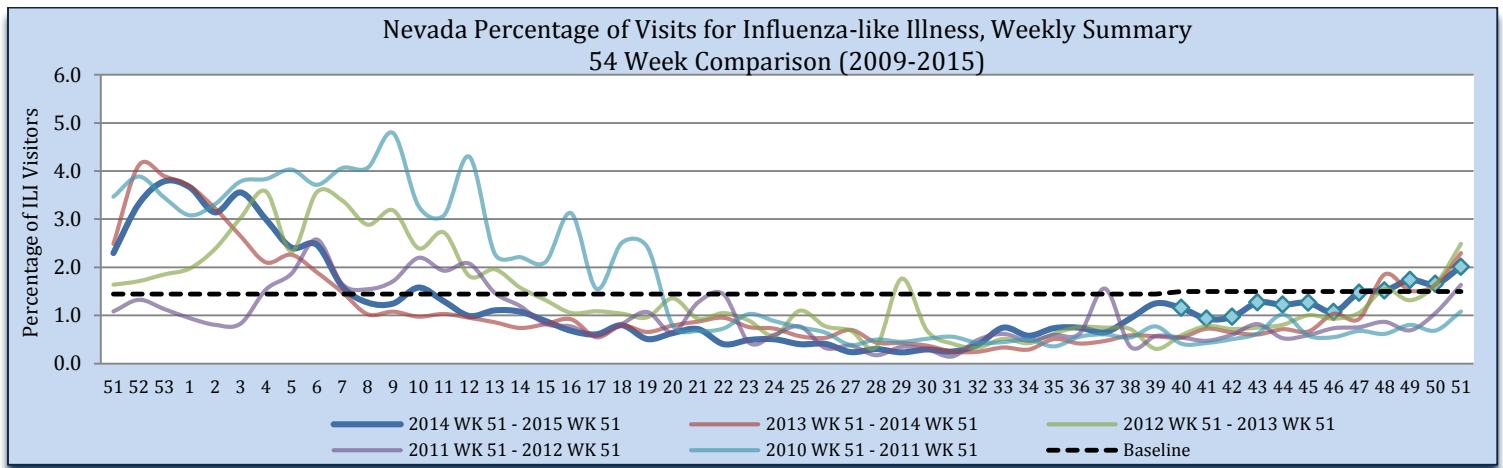
Figure 3



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

During week 51, 2.0% of visits to sentinel providers were due to ILI; this is lower than the 2014-2015 influenza season (2.3%). There were 8,848 patients seen by ILI providers during week 51, of which 178 patients presented with ILI; week 51 of 2014, there were 406 patients seen with ILI (17,683 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.

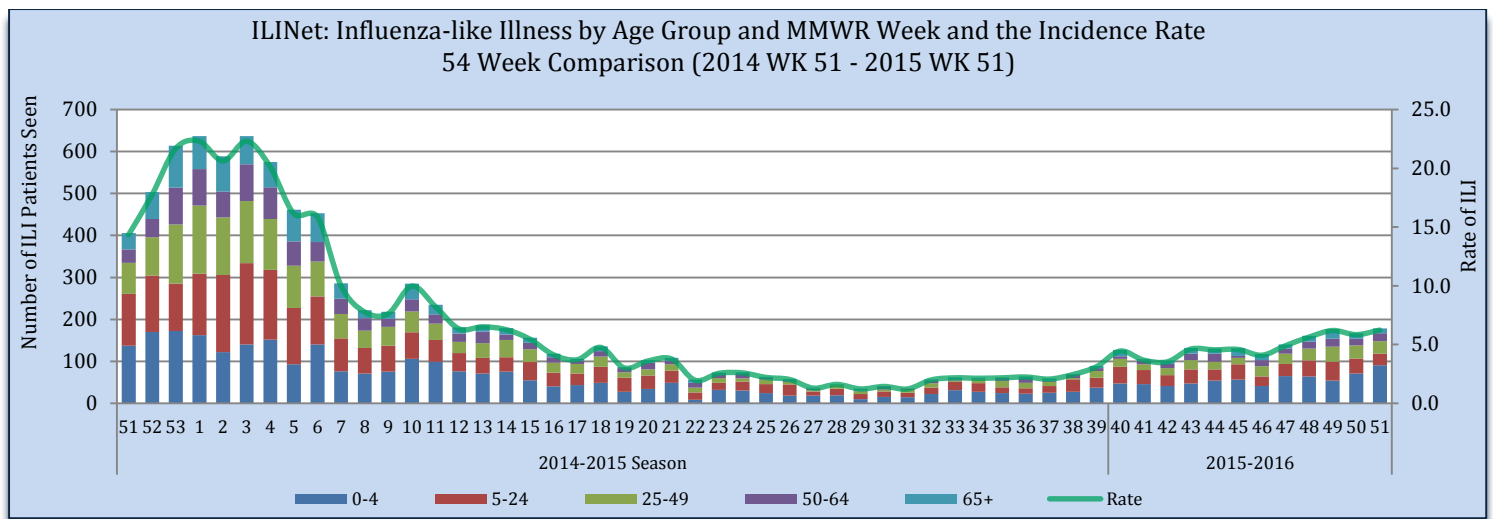
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups, during week 51, patients age 0-4 were the greatest number of patients seen with ILI, at 91 patients seen. The rate for week 51 is 6.2 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)

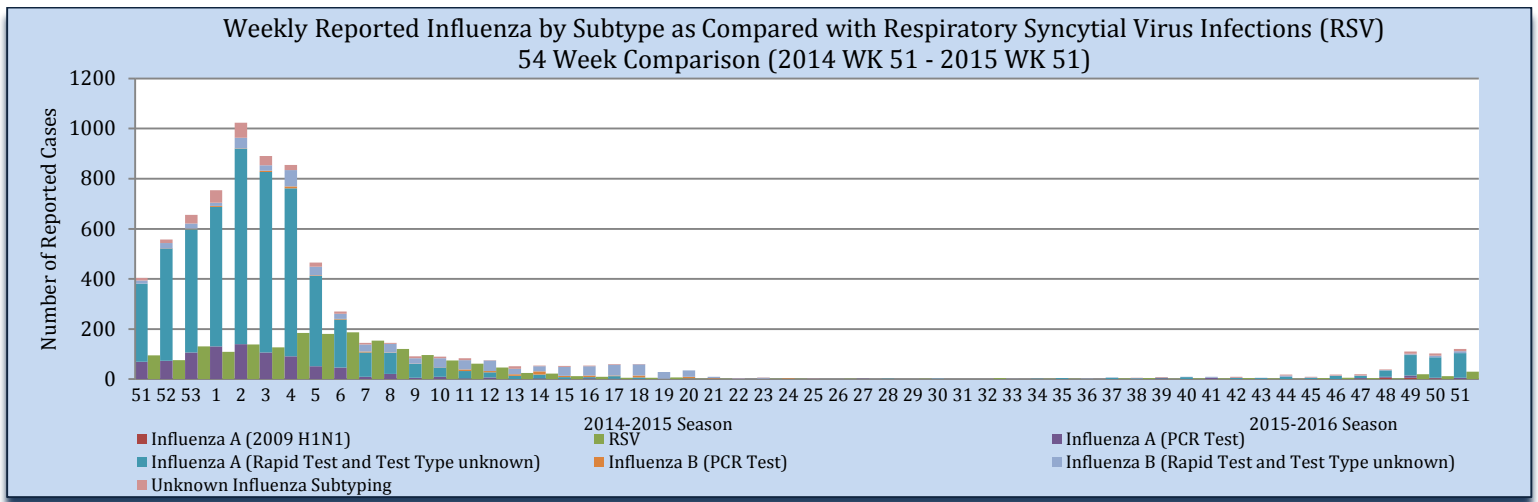
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 51, there were 120 influenza cases reported to the state, 1 H1N1 influenza A, 103 influenza A (H3 or unknown subtyping) and 7 influenza B case.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type									
	Current Week (Week 51)					Cumulative Influenza Season				
	H1N1	A	B	Unknown	Total	H1N1	A	B	Unknown	Total
Carson City Health and Human Services	0	2	0	0	2	0	10	1	0	11
Rural Community Health Services	0	0	3	0	3	0	2	10	0	12
Southern Nevada Health District	1	96	4	8	109	18	330	17	44	409
Washoe County Health District	0	5	0	1	6	0	27	7	3	37
State of Nevada	1	103	7	9	120	18	369	35	47	469

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



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

### Hospitalizations

There was 7 hospitalization associated with influenza reported to the state health authority for week 51.

Table 3

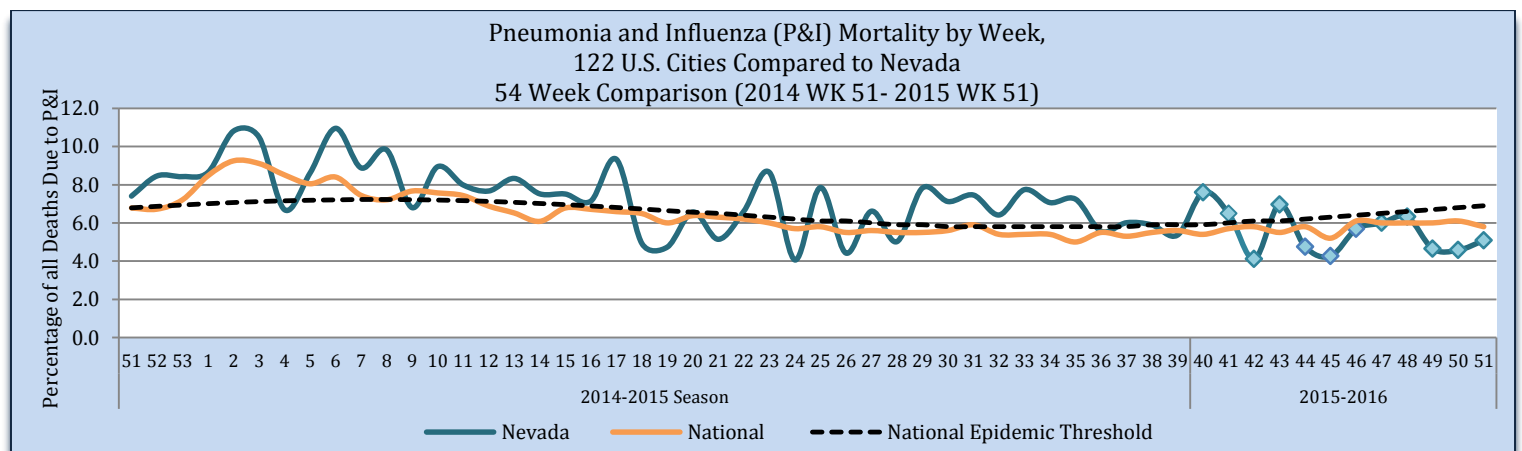
Reporting Jurisdiction	Influenza Hospitalizations		Cumulative Influenza Season	
	Current Week (Week 51)		#	%
Carson City Health and Human Services	0	0.0	4	9.1
Rural Community Health Services	1	14.3	3	6.8
Southern Nevada Health District	6	85.7	37	84.1
Washoe County Health District	0	0.0	0	0.0
State of Nevada	7	100	44	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 18 P&I deaths and 356 total deaths for week 51. The P&I mortality percent is below the threshold at 5.1% (threshold 6.9%). Nationally, the P&I mortality is below the national epidemic threshold at 5.8% for week 51.

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>.
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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:

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