

Influenza Weekly Report

2014 Week 6 (February 2 – 8) through 2015 Week 6 (February 8 – 14)

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.

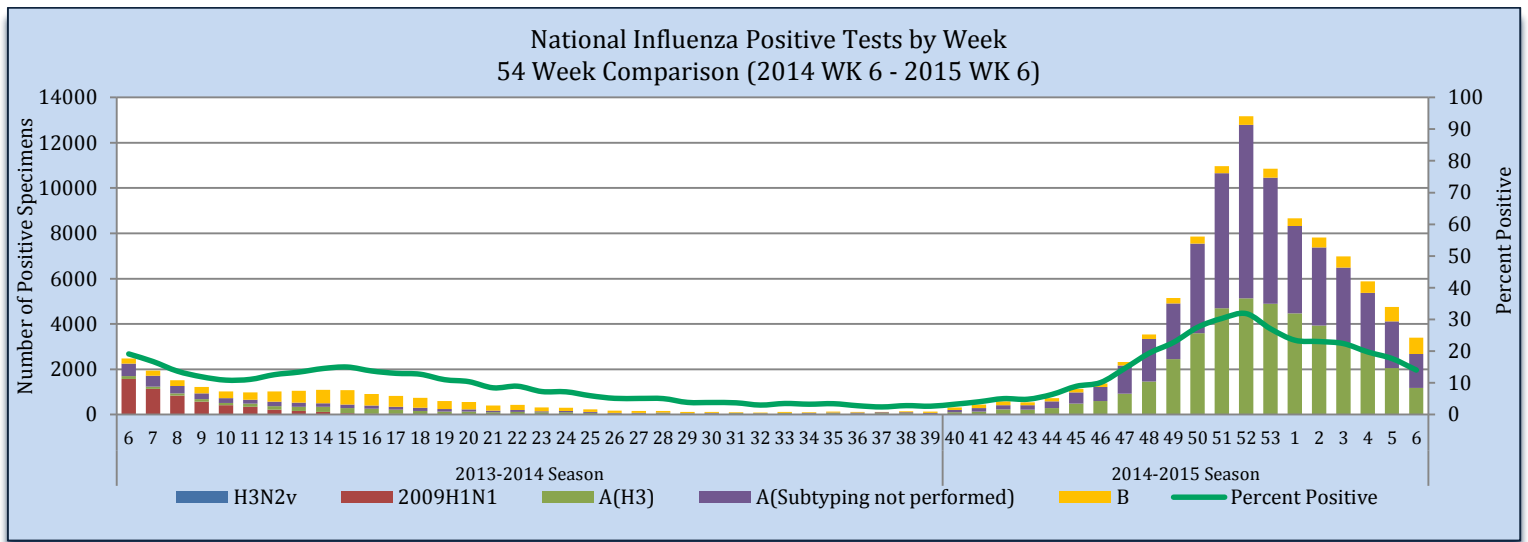
Purpose

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 6, there were 24,243 specimens collected and tested for influenza, of those 3,393 were positive (14.0%).

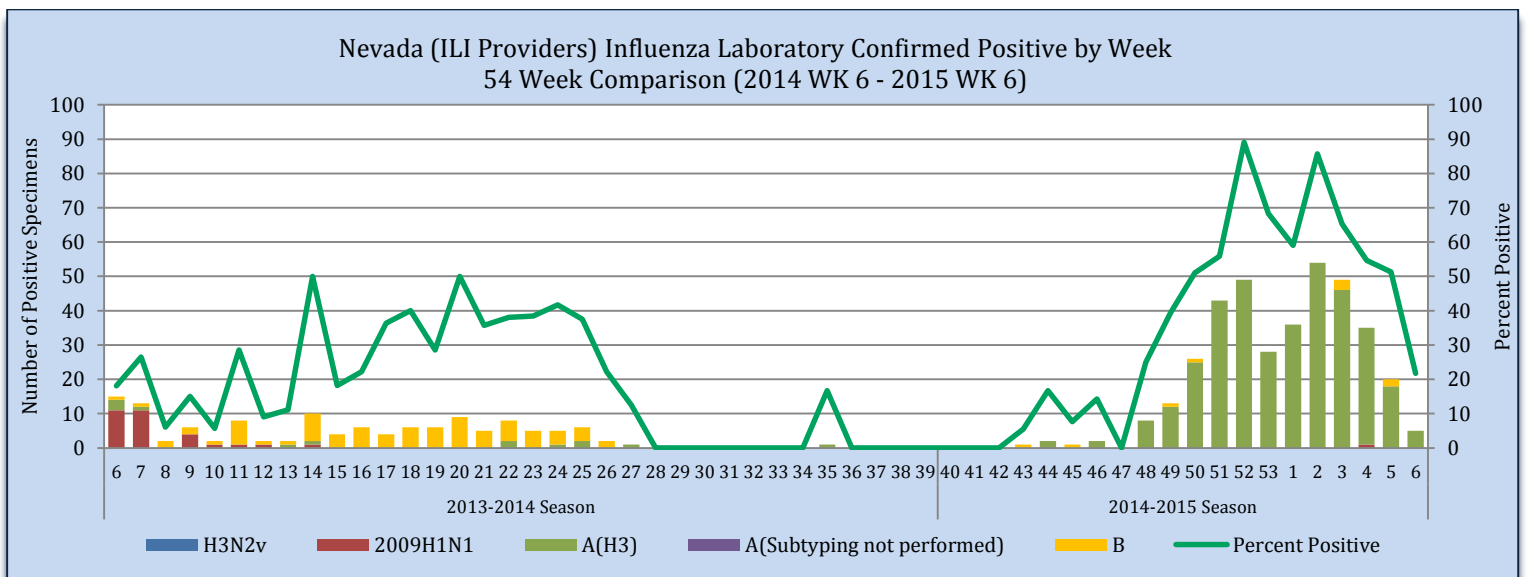
Figure 1



Source of Data: CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 6, there were 23 specimens collected and tested for influenza of which 5 were positive (21.7%).

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 341 specimens for influenza from sentinel providers, of which 253 have been positive (73.9%). Southern Nevada Public Health Laboratory (SNPHL) has test 377specimens this season of which 96 were positive. Nationally, there have been 467,499 specimens sent to the WHO and NERVSS laboratories of which 96,444 were positive or 20.6%. 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.

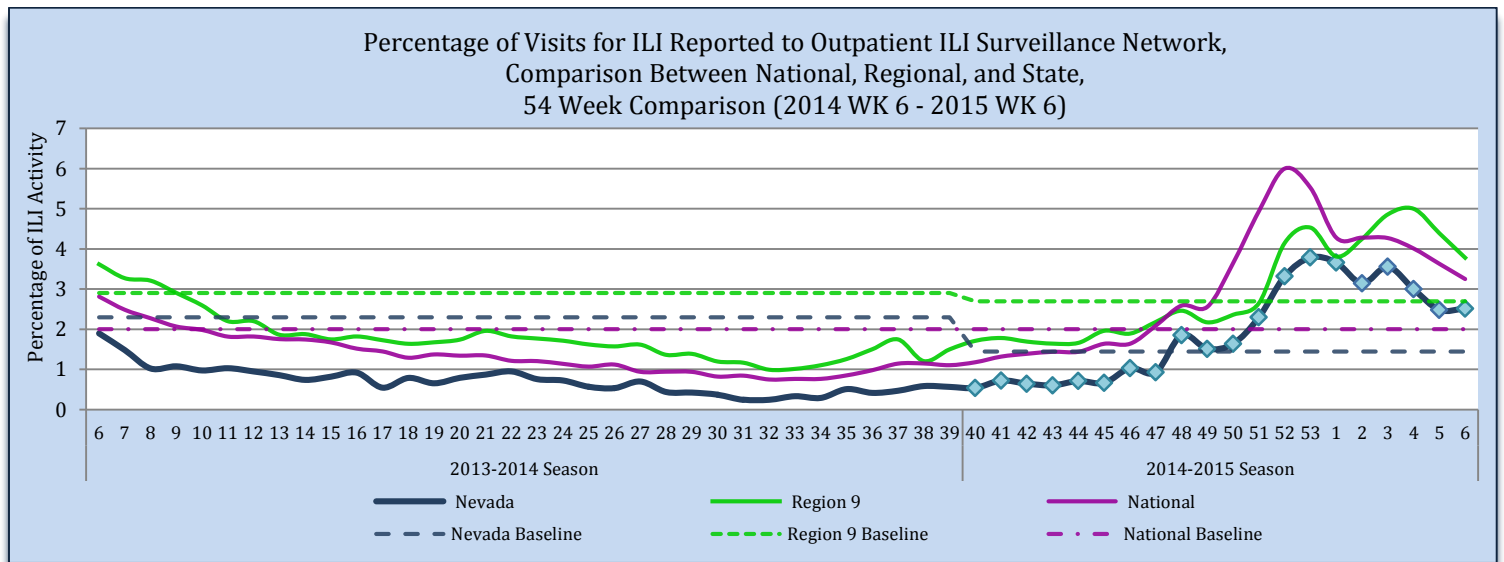
Table 1

ILINet Surveillance: Influenza Specimens Tested State and Nationally										
	NSPHL	SNPHL	State of Nevada (Week 6)		State of Nevada (Season)		National (Week 6)		National (Season)	
			#	%	#	%	#	%	#	%
Specimens Tested	345	377	23		762		24,243		467,499	
Positives to Influenza	255	96	5	21.7	372	48.8	3,393	14.0	96,444	20.6
Influenza A:	250	94	5	100	363	97.6	2,671	78.7	90,291	93.6
A(2009 H1N1)	1	0	0	0.0	1	0.3	6	0.2	158	0.2
A(H3)	249	94	5	100	362	99.7	1,163	43.5	47,633	52.8
A(Sub-typing not performed)	0	0	0	0.0	0	0.0	1,502	56.2	42,500	47.1
Influenza B:	5	2	0	0.0	9	2.4	722	21.3	6,152	6.4

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 6 is 2.5% and is above the state baseline 1.4%, the 12th consecutive week. Region 9 ILI percentage for week 6 is 3.8% and is above the region baseline 2.7% for the 8th consecutive week. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 6 is 3.3% and is above the national baseline 2.0, for the 13th consecutive week.

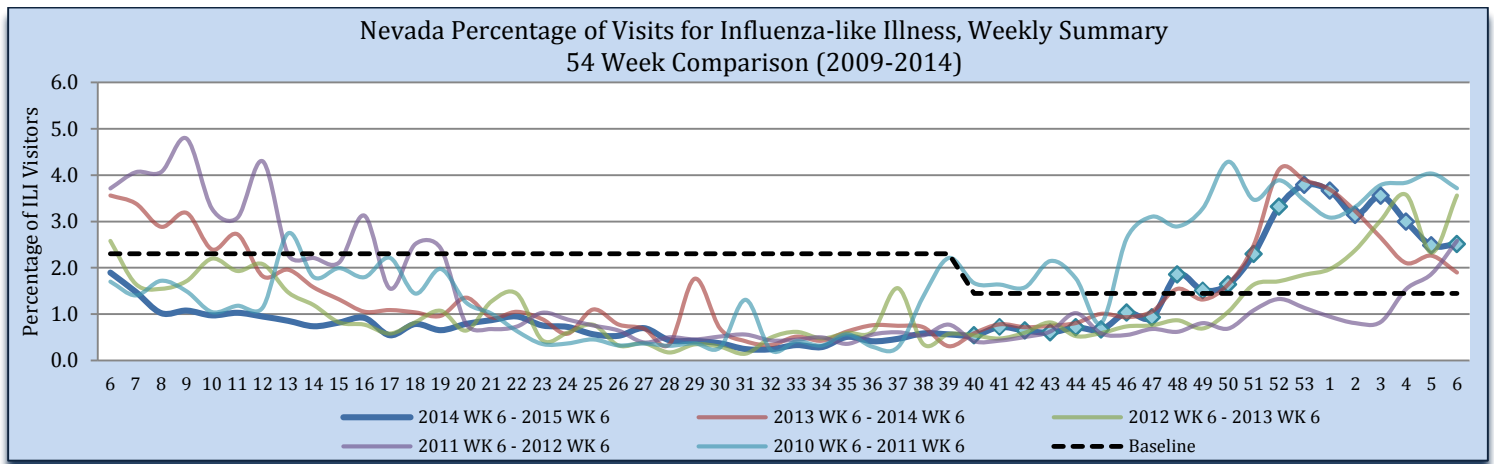
Figure 3



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

During week 6, 2.5% of visits to sentinel providers were due to ILI; this is .6% greater than the 2013-2014 influenza season (1.9%). There were 17,904 patients seen by ILI providers during week 6, of which 450 patients presented with ILI; week 6 of 2014, there were 351 patients seen with ILI. There was no week 53 in the previous influenza season displayed below; therefore the week 53 data point for those seasons is an average of week 52 and 1.

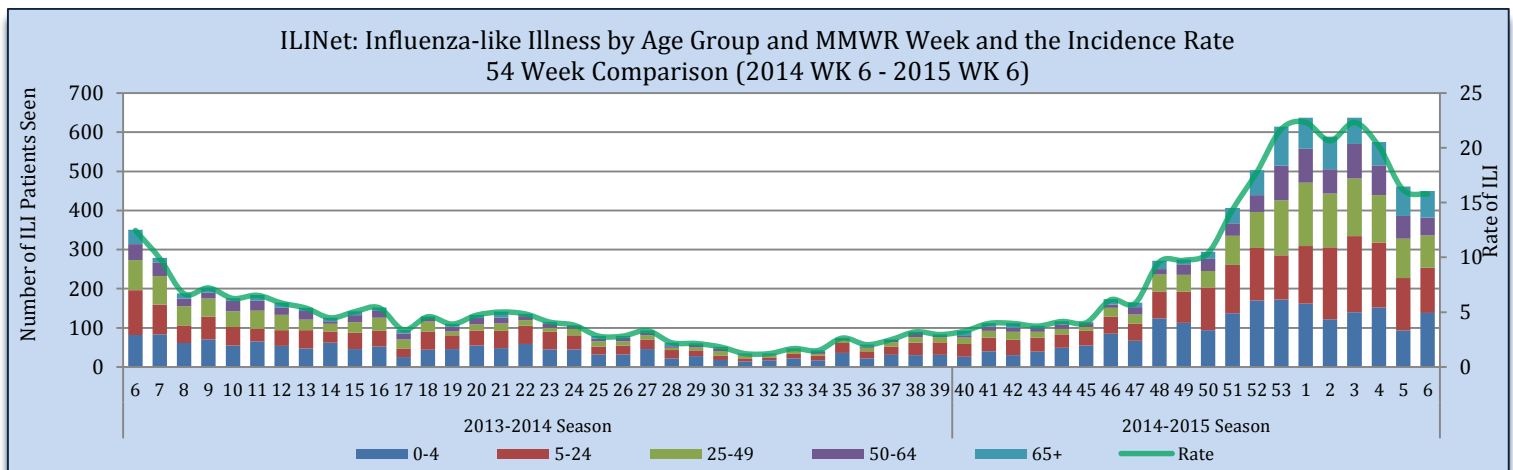
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups, during week 6, patients age 0-4 were the greatest number of patients seen with ILI, at 138 patients seen. The rate for week 6 is 15.8 per 100,000. 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)

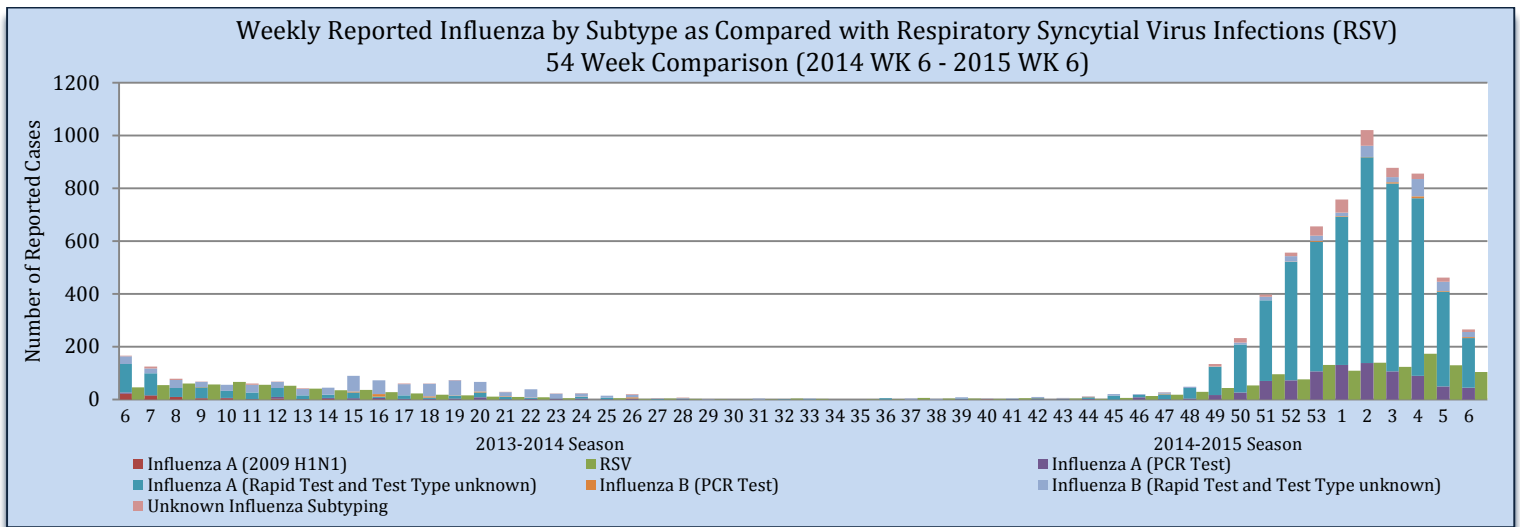
Positive cases of influenza are reported to the state health authority for surveillance purposes. Figure 6 and Table 2 reflects all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 6, there were 265 influenza cases reported to the state, 233 influenza A cases, 23 influenza B cases and 9 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type									
	Current Week (Week 6)					Cumulative Influenza Season				
	H1N1	A	B	Unknown	Total	H1N1	A	B	Unknown	Total
Carson City Health and Human Services	0	29	2	0	31	0	899	53	2	954
Rural Community Health Services	0	15	1	1	17	0	539	17	42	598
Southern Nevada Health District	0	87	10	8	105	0	2,990	169	197	3,356
Washoe County Health District	0	102	10	0	112	0	1,342	83	36	1,461
State of Nevada	0	233	23	9	265	0	5,770	322	277	6,369

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



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

Hospitalizations

There have been 19 hospitalizations associated with influenza reported to the state health authority during week 6.

Table 3

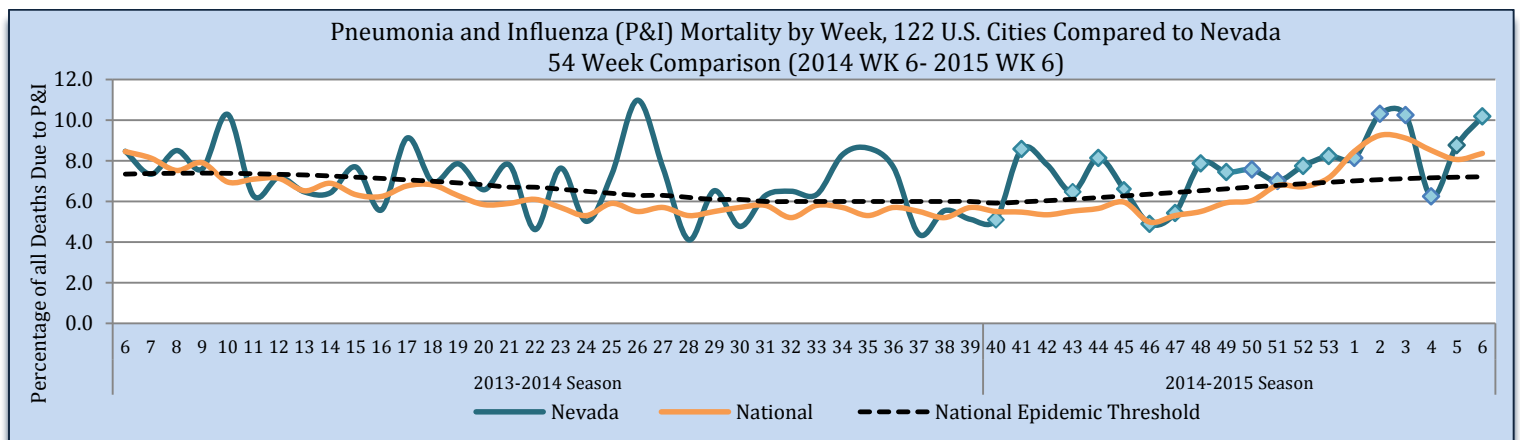
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 6)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	0	0.0	42	8.8
Rural Community Health Services	1	5.0	27	5.7
Southern Nevada Health District	7	35.0	217	45.5
Washoe County Health District	12	60.0	191	40.0
State of Nevada	19	100	457	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 February 28, there were 42 P&I deaths and 413 total deaths for week 6. The P&I mortality percent is above the threshold at 10.2% (threshold 7.2%). Nationally, the P&I mortality is above the national epidemic threshold at 8.4% for week 6.

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.
3. OPHIE. DPBS. BioSense. 2013-2014. Accessed March 2015.
4. OPHIE. DPBH. NBS. 2013-2014. Accessed March 2015.
5. Office of Vital Records (OVR). DPBH. Web Enabled Vital Records Registry System (WEVRRS) [unpublished data]. 2013-2014. Accessed March 2015.
6. Southern Nevada Health District (SNHD). NETSS/Trisano. 2013-2014. Accessed March 2015.

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

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