

Influenza Weekly Report

2014 Week 14 (March 30 – April 5) through 2015 Week 14 (April 5 – 11)

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.

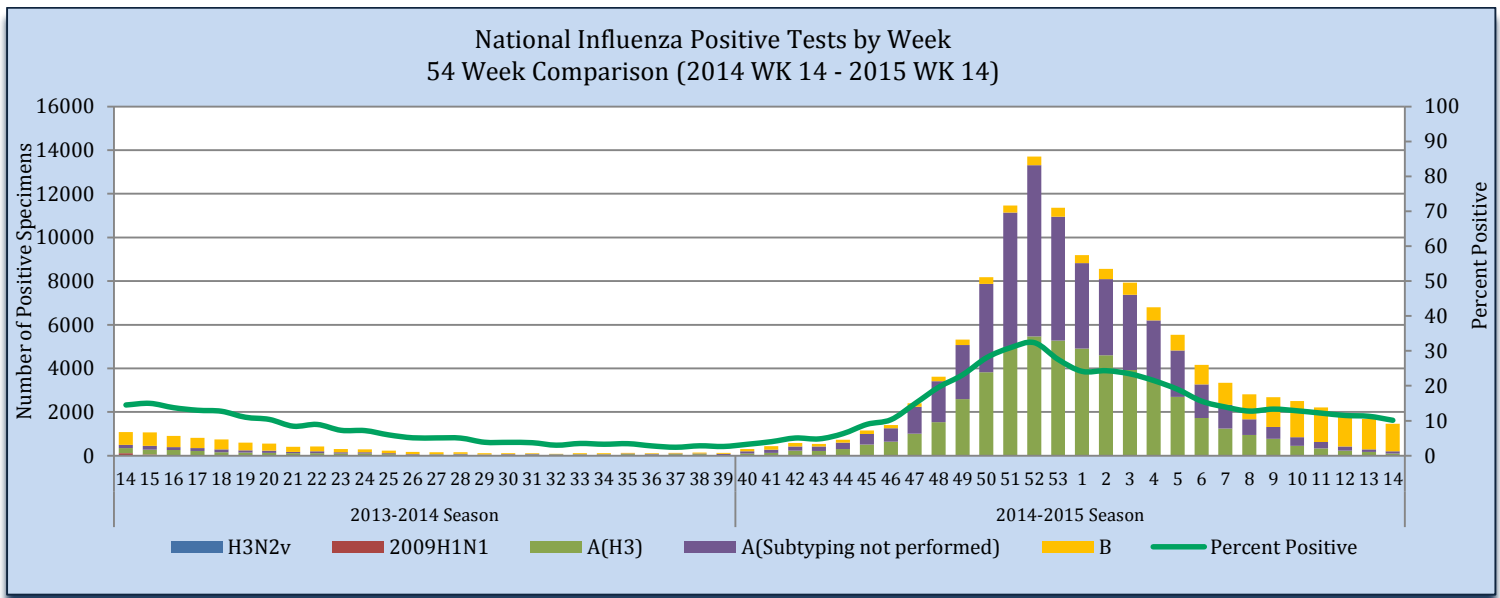
Purpose

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 14, there were 14,480 specimens collected and tested for influenza, of those 1,463 were positive (10.1%).

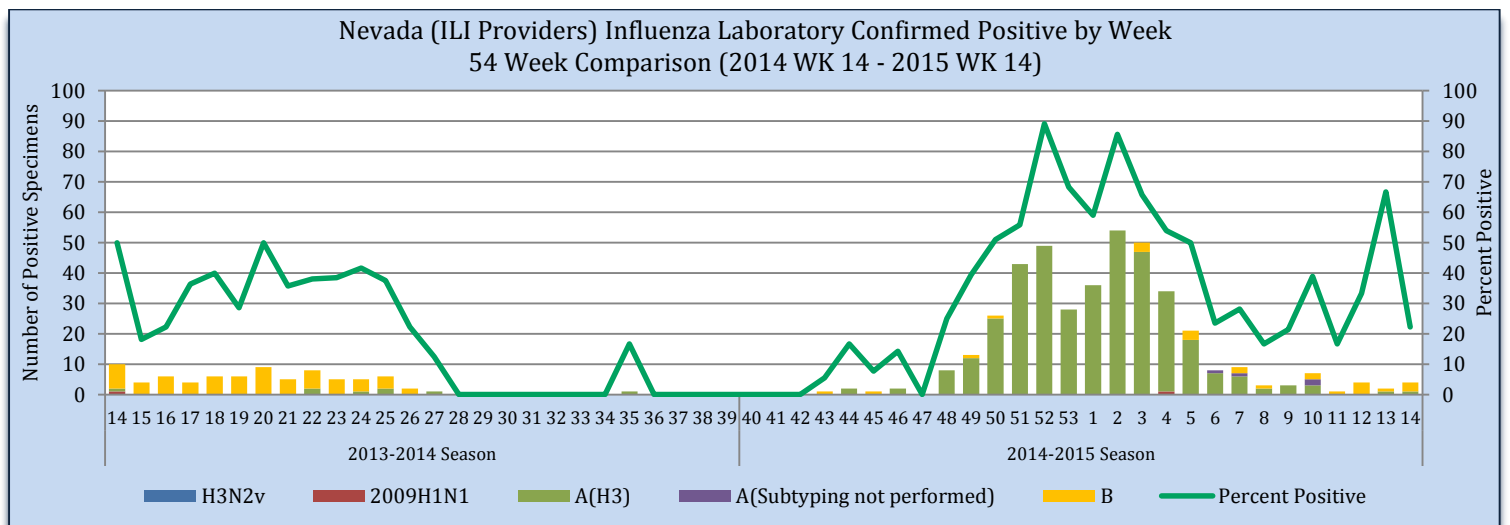
Figure 1



Source of Data: CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 14, there was 18 specimen collected and tested for influenza, of those 4 were positive (22.2%).

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 400 specimens for influenza from sentinel providers, of which 277 have been positive (69.3%). Southern Nevada Public Health Laboratory (SNPHL) has test 442 specimens this season of which 107 were positive. Nationally, there have been 633,718 specimens sent to the WHO and NERVSS laboratories of which 121,980 were positive or 19.2%. 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.

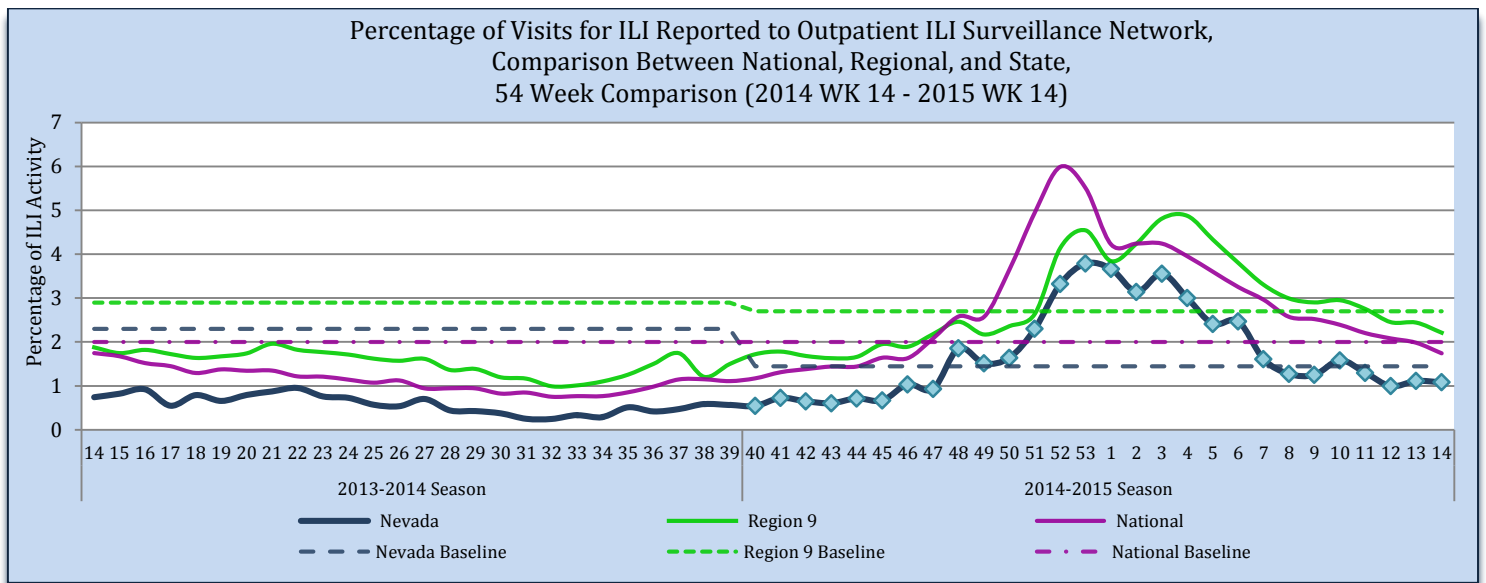
Table 1

ILINet Surveillance: Influenza Specimens Tested State and Nationally										
	NSPHL	SNPHL	State of Nevada (Week 14)		State of Nevada (Season)		National (Week 14)		National (Season)	
			#	%	#	%	#	%	#	%
Specimens Tested	400	442	18		897		14,480		633,718	
Positives to Influenza	277	107	4	22.2	409	45.6	1,463	10.1	121,980	19.2
Influenza A:	256	103	1	25.0	381	93.2	199	13.6	104,431	85.6
A(2009 H1N1)	1	0	0	0.0	1	0.3	7	3.5	199	0.2
A(H3)	255	103	1	100	380	99.7	86	43.2	52,090	49.9
A(Sub-typing not performed)	0	0	0	0.0	0	0.0	106	53.3	52,142	49.9
Influenza B:	17	4	3	75.0	24	5.9	1,264	86.4	17,548	14.4

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 14 is 1.1% and is below the state baseline 1.4%. Region 9 ILI percentage for week 14 is 2.2% and is below the region baseline of 2.7%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 14 is 1.7% and is below the national baseline 2.0%.

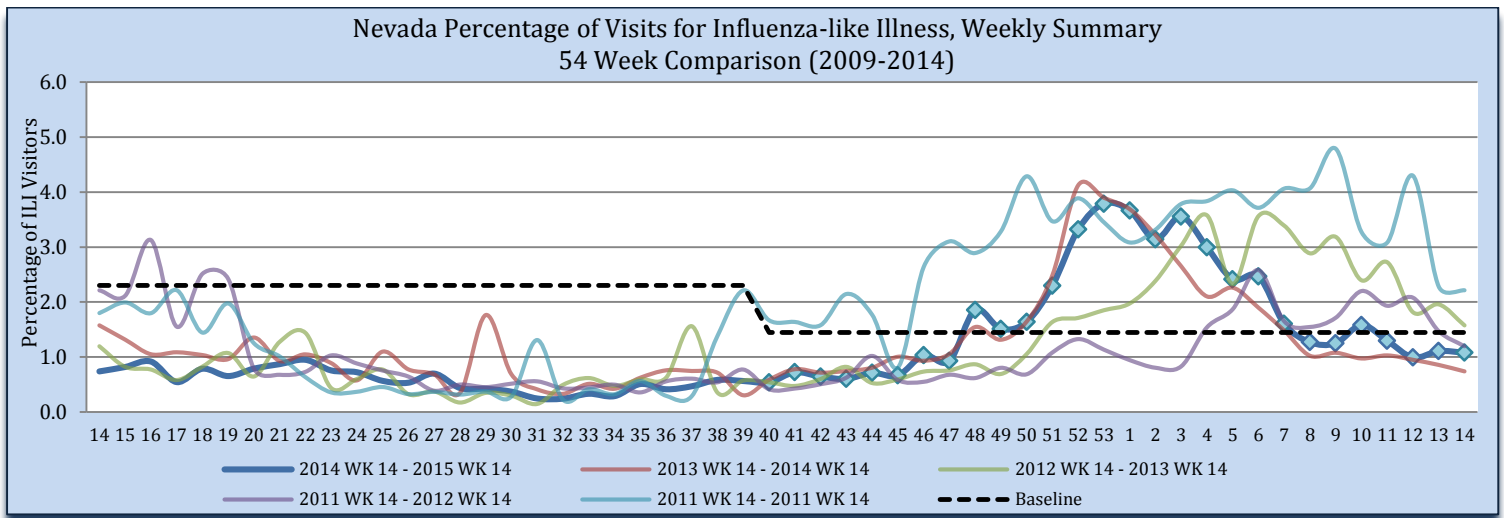
Figure 3



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

During week 14, 1.1% of visits to sentinel providers were due to ILI; this is higher than the 2013-2014 influenza season (0.7%). There were 16,602 patients seen by ILI providers during week 14, of which 179 patients presented with ILI; week 14 of 2014, there were 126 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.

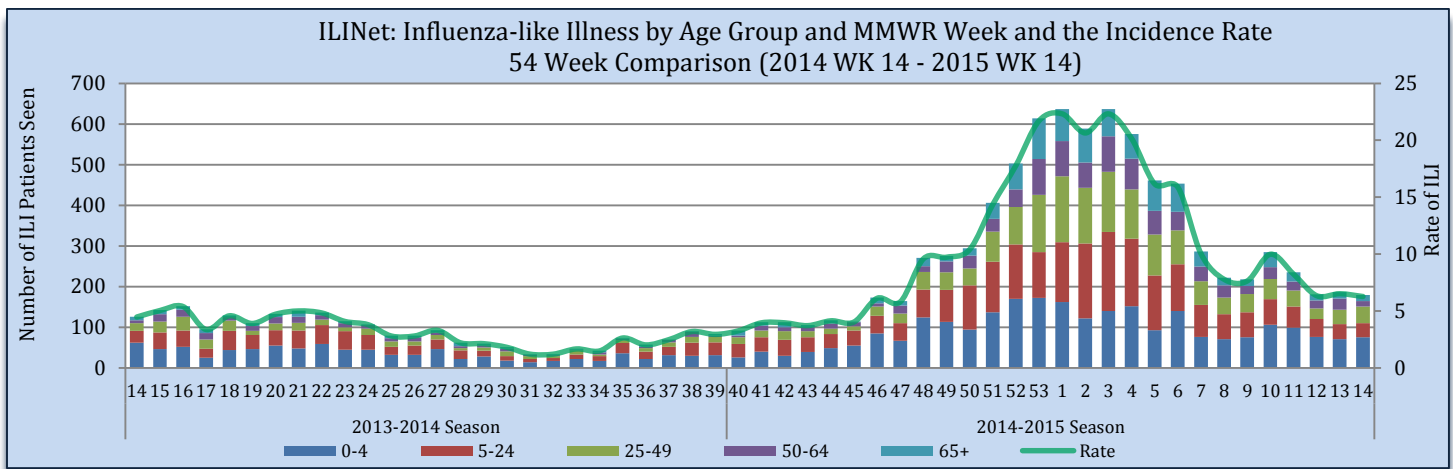
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups, during week 14, patients age 0-4 were the greatest number of patients seen with ILI, at 75 patients seen. The rate for week 14 is 6.3 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)

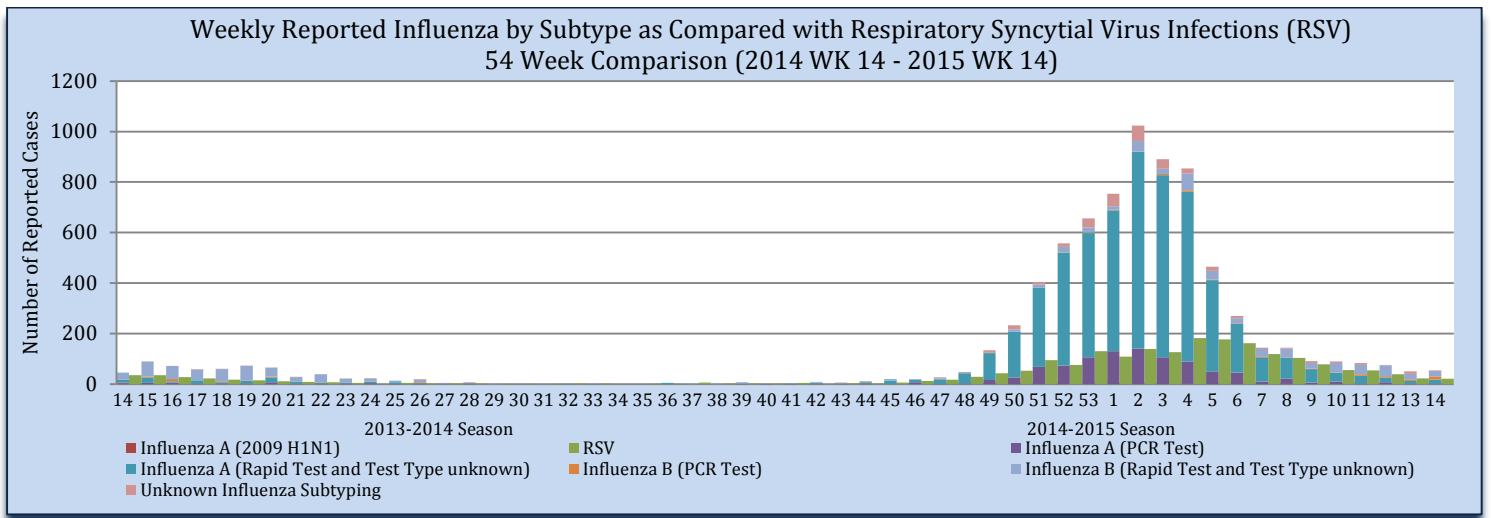
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 14, there were 54 influenza cases reported to the state, 18 influenza A cases, 34 influenza B cases and 2 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type									
	Current Week (Week 14)					Cumulative Influenza Season				
	H1N1	A	B	Unknown	Total	H1N1	A	B	Unknown	Total
Carson City Health and Human Services	0	5	5	1	11	0	936	106	3	1,045
Rural Community Health Services	0	1	3	0	4	0	562	48	48	658
Southern Nevada Health District	0	10	24	1	35	1	3,207	295	222	3,725
Washoe County Health District	0	2	2	0	4	1	1,490	157	51	1,699
State of Nevada	0	18	34	2	54	2	6,195	606	324	7,127

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



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

Hospitalizations

There have been 7 hospitalizations associated with influenza reported to the state health authority during week 14.

Table 3

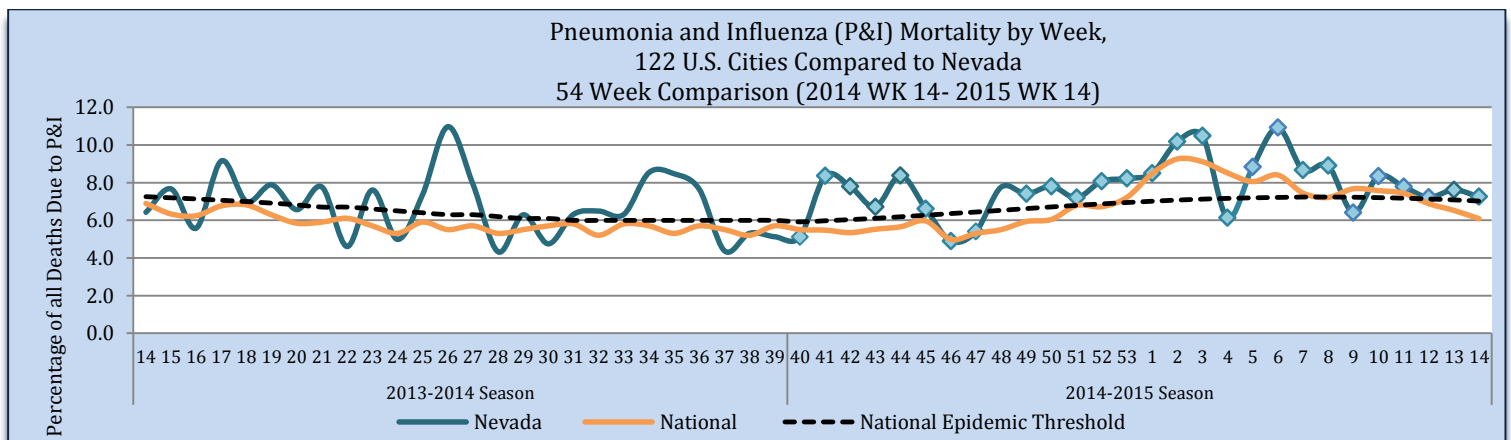
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 14)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	0	0.0	43	7.3
Rural Community Health Services	0	0.0	30	5.1
Southern Nevada Health District	7	100	295	50.3
Washoe County Health District	0	0.0	218	37.2
State of Nevada	7	100	586	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 June 17, there were 27 P&I deaths and 372 total deaths for week 14. The P&I mortality percent is above the threshold at 7.3% (threshold 7.0%). Nationally, the P&I mortality is below the national epidemic threshold at 6.1% for week 14.

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

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

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