

Weekly Report

2016 Week 4 (January 24 – January 30, 2016) through 2017 Week 4 (January 22 – January 28)

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



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February 2017
Edition 1.0

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

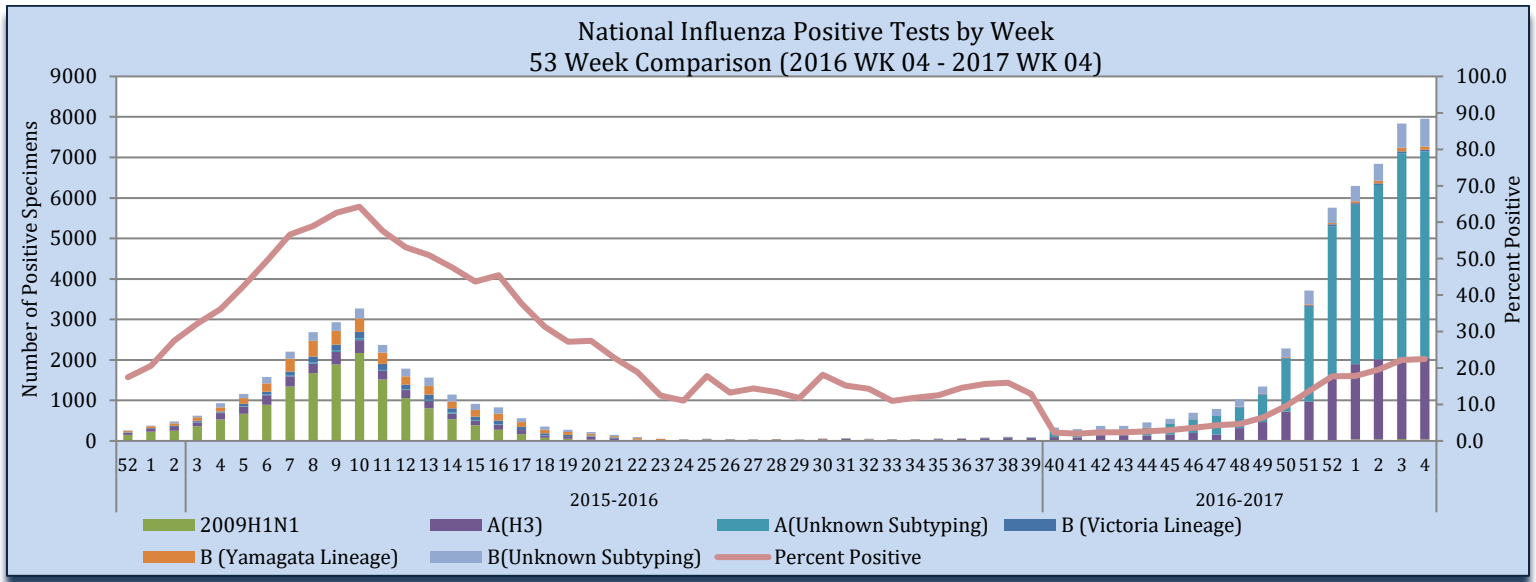
Purpose

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.

Sentinel Provider Data: 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 04, there were 35,361 specimens collected and tested for influenza, of those 7,955 were positive (22.5%).

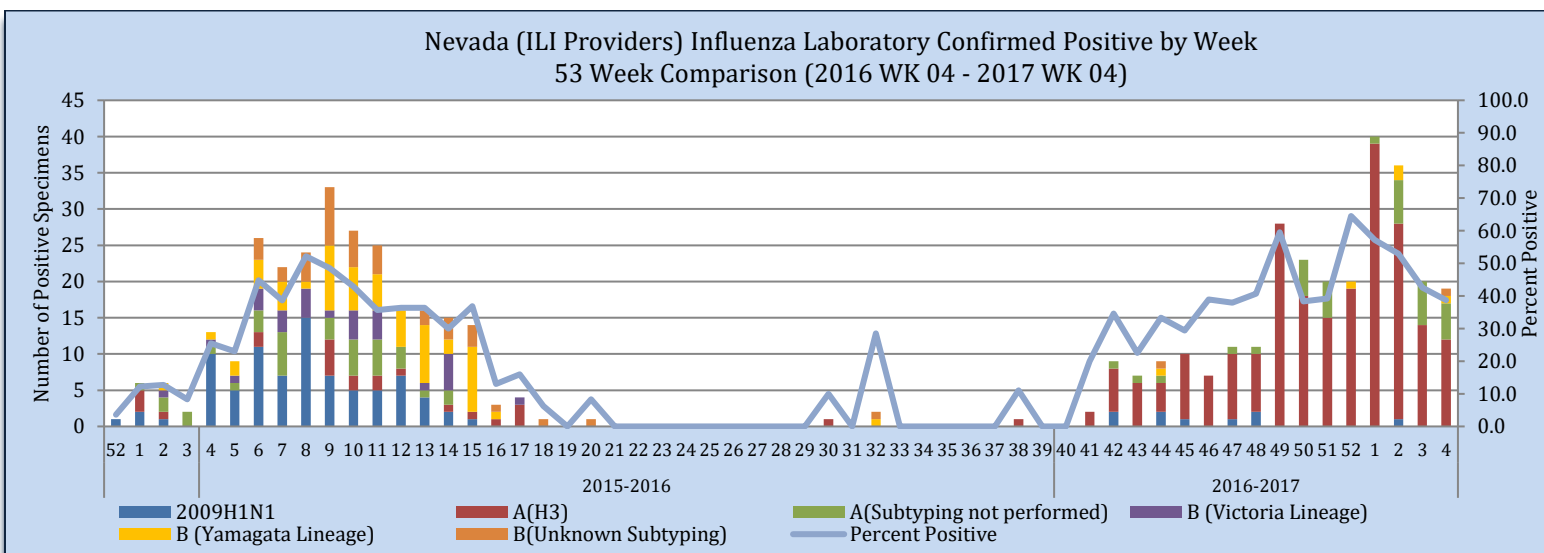
Figure 1



Source of Data: CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents tested by sentinel providers including out of state laboratories. During week 04, there were 49 specimens collected and 19 were positive (38.8%). There is a two week delay for laboratory surveillance.

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 260 specimens for influenza from sentinel providers, of which there have been 226 positive (87%). Southern Nevada Public Health Laboratory (SNPHL) has tested 49 specimens this season of which there have been 5 positives. Nationally, there have been 401,164 specimens sent to the WHO and NERVSS laboratories of which 46,906 have been positive (11.7%). 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 tested by sentinel providers, including out of state laboratories.

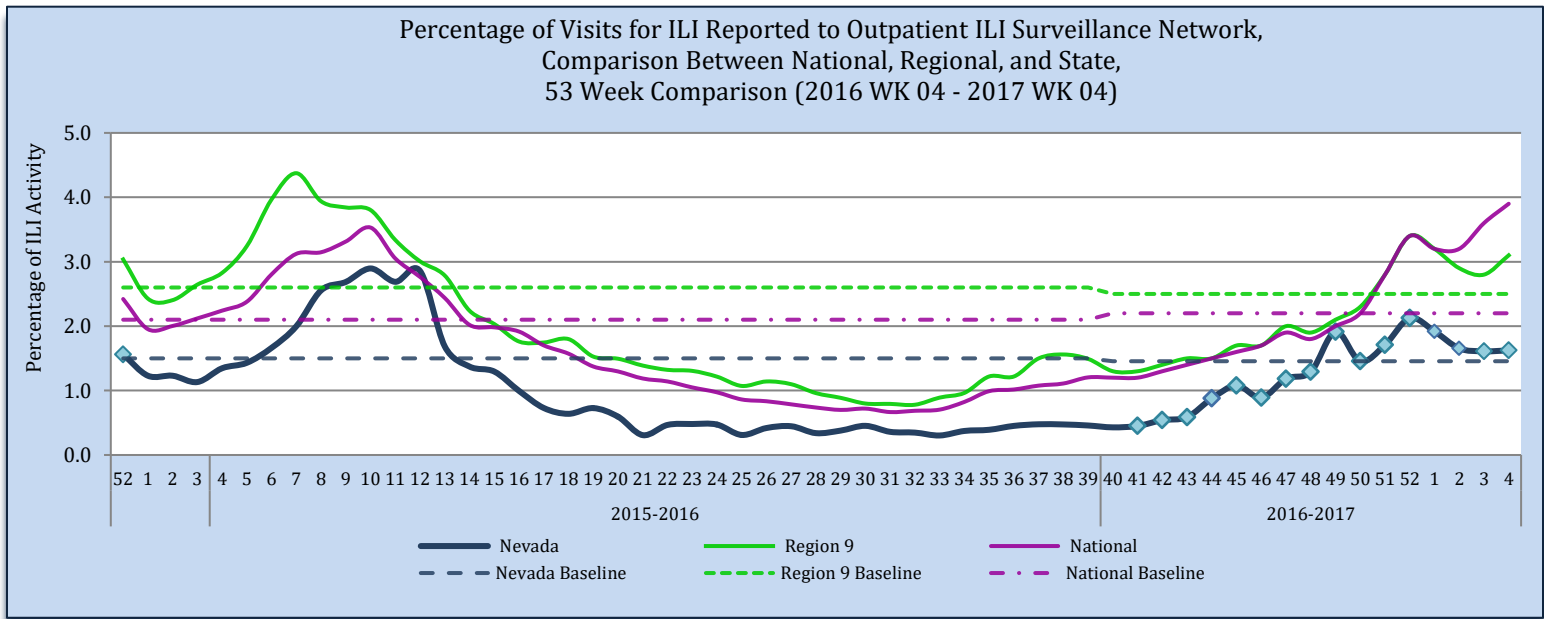
Table 1

	Influenza Specimens Tested State and Nationally through Sentinel Providers										
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 04)		State of Nevada (Season)		National (Week 04)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	260	49	324	49		633		35,361		401,164	
Influenza Positives	226	5	41	19	38.8	272	43.0	7,955	22.5	46,906	11.7
Influenza A:	222	5	38	17	89.5	265	97.4	7,146	89.8	41,832	89.2
A (2009 H1N1)	8	0	1	0	0.0	9	3.4	36	0.5	334	0.8
A (H3)	214	5	4	12	70.6	223	84.2	2,015	28.2	12,831	30.7
A (Sub-typing not performed)	0	0	33	5	29.4	33	12.5	5,095	71.3	28,667	68.5
Influenza B:	4	0	3	2	10.5	7	2.6	809	10.5	5,074	10.8
B (Victoria Lineage)	0	0	0	0	0.0	0	0.0	45	5.6	362	7.1
B (Yamagata Lineage)	4	0	1	1	50.0	5	71.4	80	9.9	395	7.8
B (Sub-typing not performed)	0	0	2	1	50.0	2	28.6	684	84.5	4,317	85.1

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

Influenza-like Illness (ILI) Surveillance Network has each sentinel provider report the number of patients seen that meet the ILI case definition and the total number of patients seen for any reason each week. The “percentage of visits for ILI” is the number of ILI patients divided by the total number of patients visit per week. Nevada’s percentage of ILI visits for week 04 is 1.6% which is above the state baseline of 1.5%. Region 9 ILI percentage for week 04 is 3.1% which is above the region baseline 2.5%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 04 is 3.9% which is above the national baseline 2.2%.

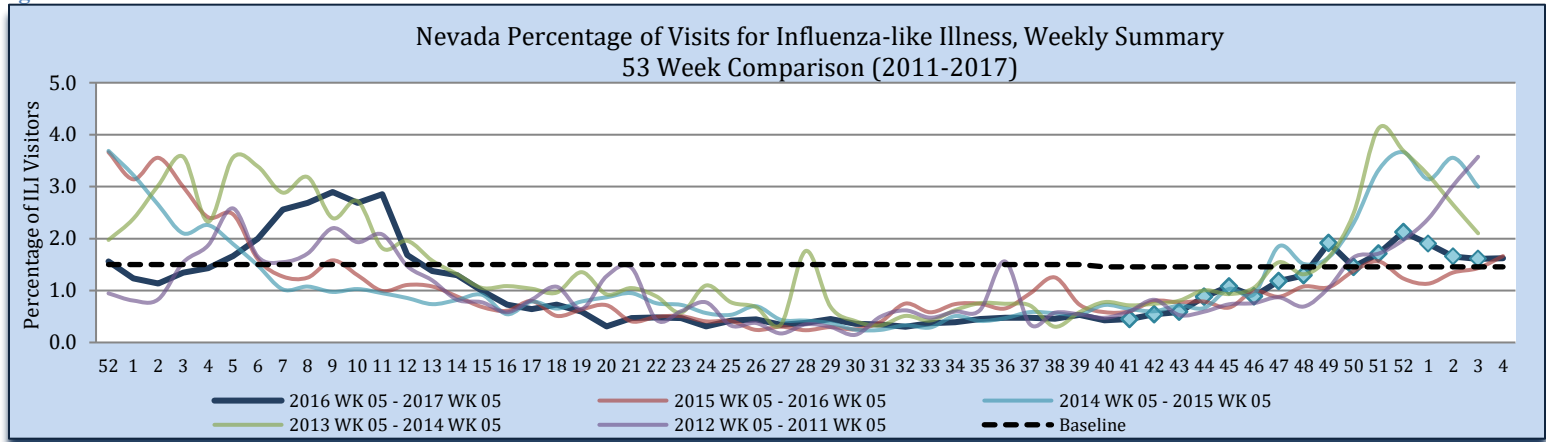
Figure 3



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

During week 04, 1.6% of visits to sentinel providers were due to ILI; this is higher than the 2015-2016 influenza season (1.4%). There were 18,783 patients seen by sentinel providers during week 04, of which 305 patients presented with ILI; week 04 of 2016, there were 287 patients seen with ILI (20,054 total patients seen).

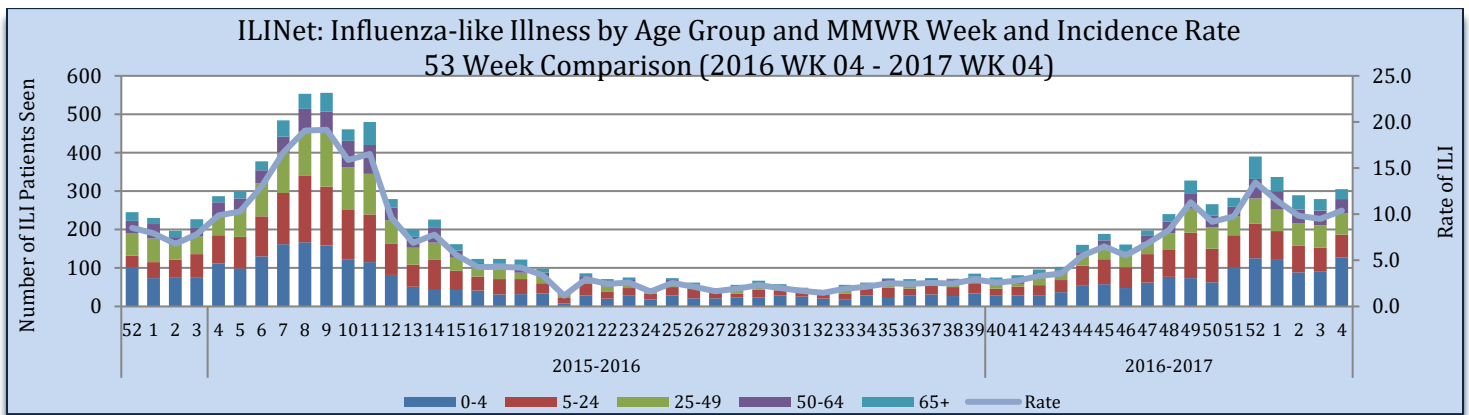
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 04, patients age 0-4 were the greatest number of patients seen with ILI, at 128 patients seen. The rate for week 04 is 10.4 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 2017 is 2,935,490.

Figure 5



Source of Data: CDC: ILINet.

Influenza Positive Surveillance (NBS and NETSS)

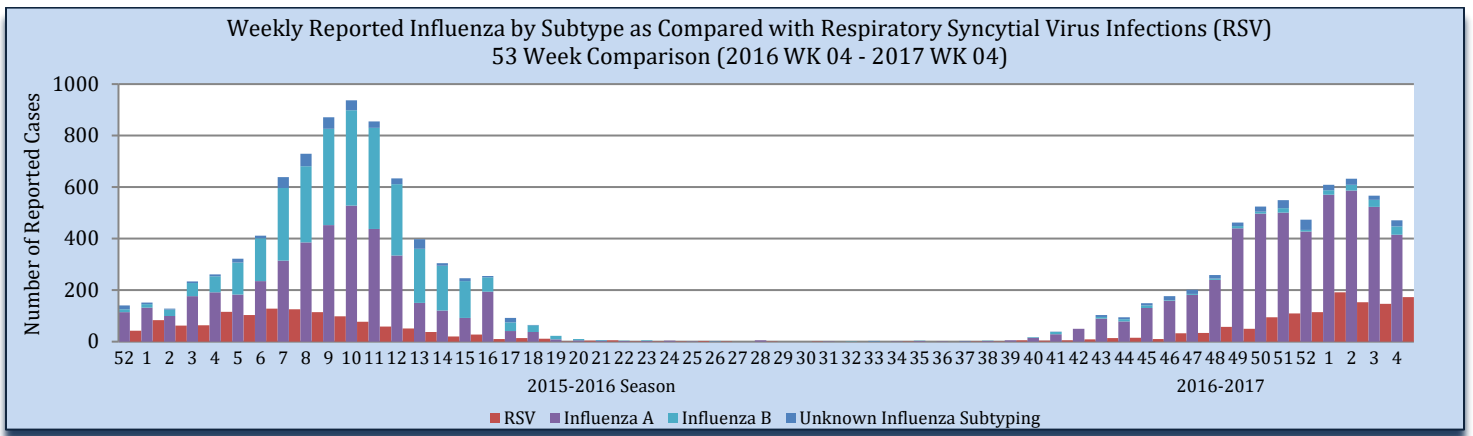
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 04, there were 471 influenza cases reported to the state, 415 influenza A, 33 influenza B and 23 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 04)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	16	0	0	16	707	2	2	711
Rural Community Health Services	69	3	6	78	455	17	24	496
Southern Nevada Health District	275	25	17	317	2,053	127	112	2,292
Washoe County Health District	55	5	0	60	1,719	41	121	1,881
State of Nevada	415	33	23	471	4,934	187	259	5,380

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



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

Hospitalizations

There were 25 hospitalization associated with influenza reported to the state health authority for week 04.

Table 3

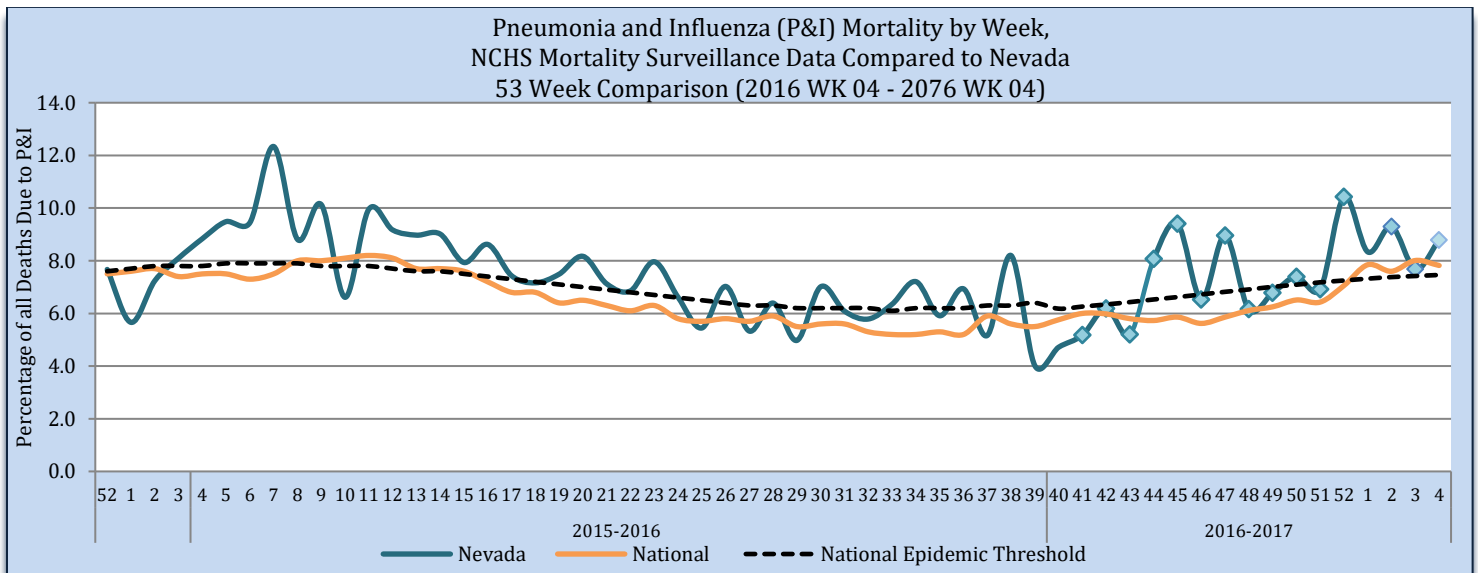
Reporting Jurisdiction	Influenza Hospitalizations		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	1	4.0	28	6.9
Rural Community Health Services	3	12.0	7	1.7
Southern Nevada Health District	16	64.0	129	31.9
Washoe County Health District	5	20.0	241	59.5
State of Nevada	25	100	405	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 all 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 23rd, there were 37 P&I deaths and 421 total deaths for week 04 in Nevada.

Figure 7



Source: OVR; WEVRRS and CDC; FluView.

Technical Notes

- Data are subject to changes, additionally, there is a lag in reporting.
- Influenza surveillance procedures vary by jurisdiction.
- 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. 2003-2020 ASRHO Estimates and Projections. Division of Public and Behavioral Health edition. Vintage 2015.
3. OPHIE. DPBH. NBS. 2015-2017. Accessed February 2017.
4. Office of Vital Records (OVR). DPBH. Web Enabled Vital Records Registry System (WEVRRS) [unpublished data]. 2015-2017. Accessed February 2017.
5. Southern Nevada Health District (SNHD). NETSS/Trisano. 2015-2017. Accessed February 2017.

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Recommended Citation:

Division of Public and Behavioral Health. Office of Public Health Informatics and Epidemiology. Influenza Weekly Report, 2016 Week 04 (January 24, 2016) through 2017 Week 04 (January 28), Nevada. January 2017 i 04 edition 1.0.

This publication was supported by Cooperative Agreement Number TP000534-02 from the Centers for Disease Control and Prevention and/or Assistant Secretary for Preparedness and Response. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention and/or Assistant Secretary for Preparedness and Response.

