

Weekly Report

2016 Week 10 (March 06 – March 12, 2016) through 2017 Week 10 (March 05 – March 11)

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

John DiMuro, DO, MBA
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.

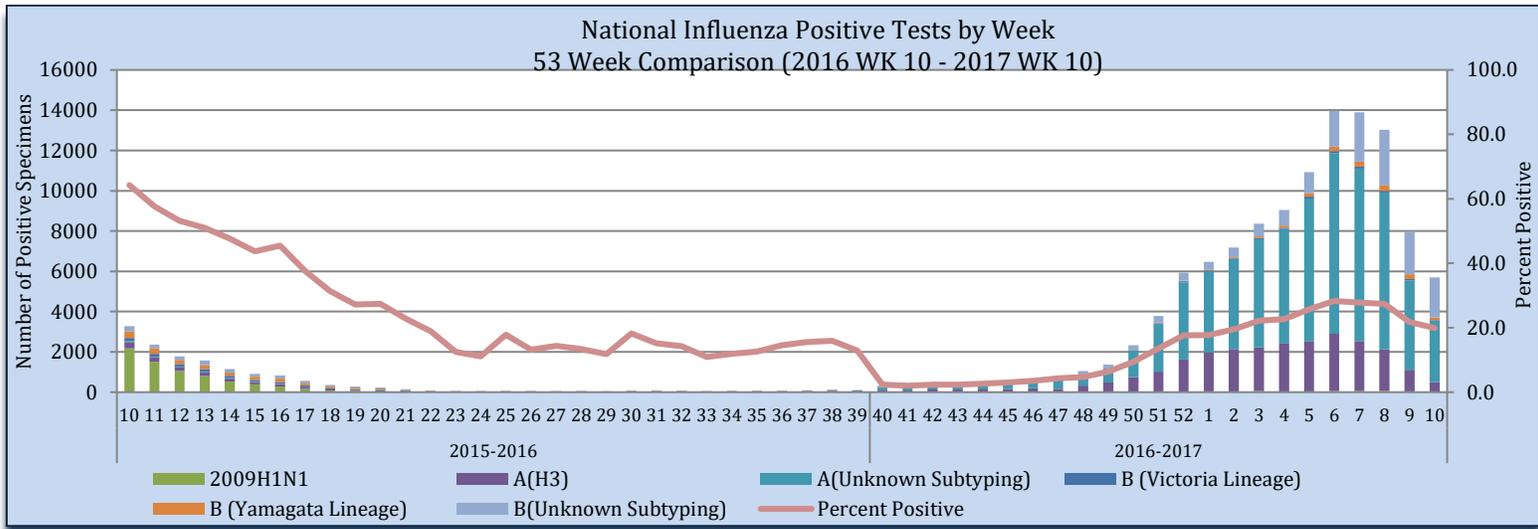
Purpose

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.

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 10, there were 28,616 specimens collected and tested for influenza, of those 5,694 were positive (19.9%).

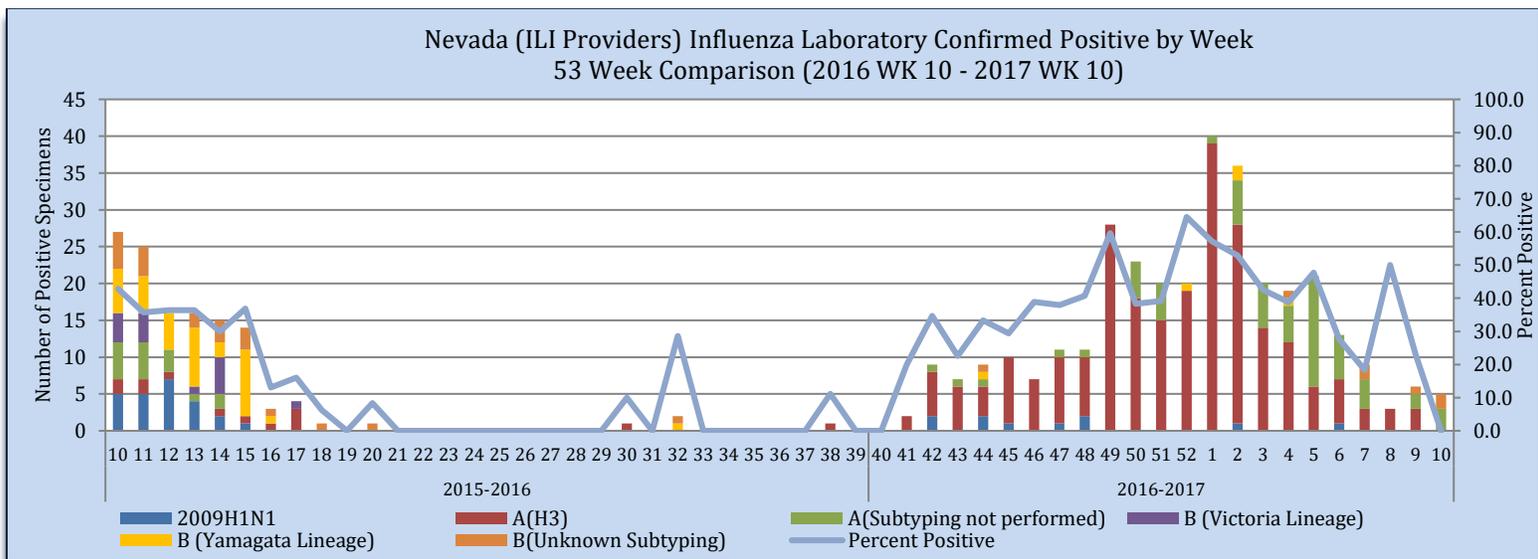
Figure 1



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 10, there were 29 specimens collected and 0 were positive. There is a two week delay for laboratory surveillance. Data are subject to change as we receive additional reports.

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 284 specimens for influenza from sentinel providers, of which there have been 246 positive (86.6%). Southern Nevada Public Health Laboratory (SNPHL) has tested 61 specimens this season of which there have been 5 positives. Nationally, there have been 670,065 specimens sent to the WHO and NERVSS laboratories of which 114,895 have been positive (17%). 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.

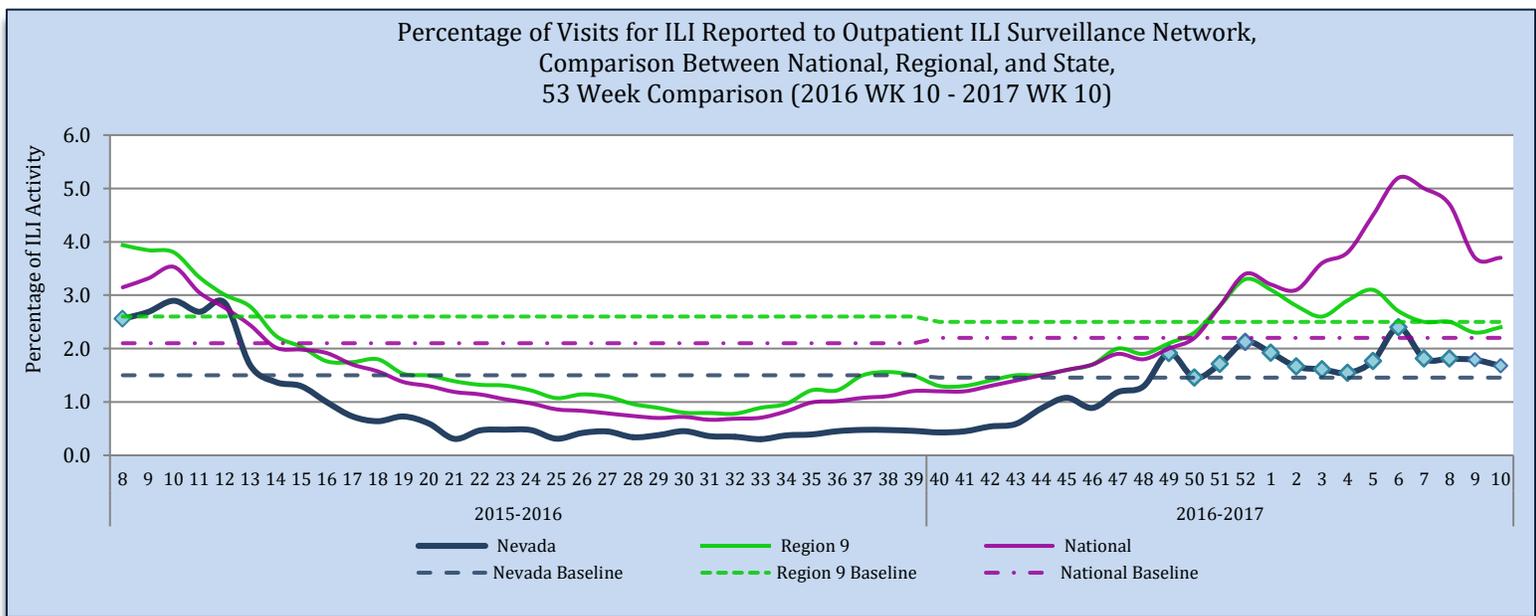
Table 1

	Influenza Specimens Tested State and Nationally through Sentinel Providers										
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 10)		State of Nevada (Season)		National (Week 10)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	284	61	489	29		834		28,616		670,065	
Influenza Positives	246	5	78	5	17.2	329	39.4	5,694	19.9	114,895	17.1
Influenza A:	242	5	70	3	60.0	317	96.4	3,551	62.4	95,630	83.2
A (2009 H1N1)	9	0	1	0	0.0	10	3.2	16	0.5	656	0.7
A (H3)	233	5	6	0	0.0	244	77.7	476	13.4	25,117	26.3
A (Sub-typing not performed)	0	0	63	3	100.00	63	19.9	3,059	86.1	69,857	73.0
Influenza B:	4	0	8	2	40.0	12	3.6	2,143	37.6	19,265	16.8
B (Victoria Lineage)	0	0	0	0	0.0	0	0.0	34	1.6	951	4.9
B (Yamagata Lineage)	4	0	1	0	0.0	5	41.7	126	5.9	1,694	8.8
B (Sub-typing not performed)	0	0	7	2	100.0	7	58.3	1,983	92.5	16,620	86.3

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 10 is 1.7% which is above the state baseline of 1.5%. Region 9 ILI percentage for week 10 is 2.4% which is the below the region baseline 2.5%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 10 is 3.7% which is above the national baseline 2.2%.

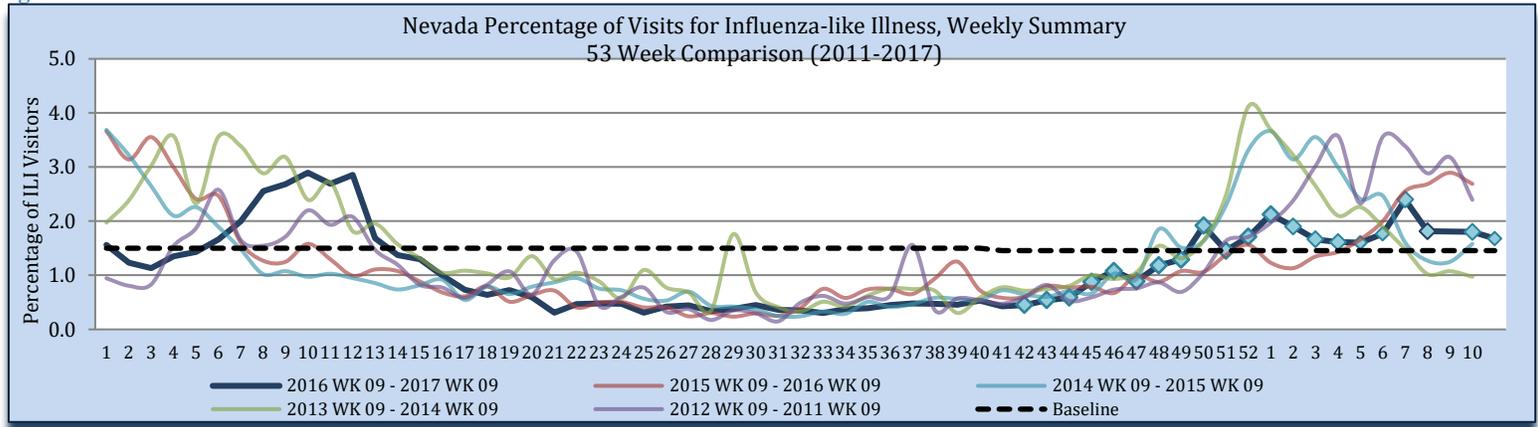
Figure 3



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

During week 10, 1.7% of visits to sentinel providers were due to ILI; this is lower than the 2015-2016 influenza season (2.7%). There were 10,679 patients seen by sentinel providers during week 10, of which 179 patients presented with ILI; week 10 of 2016, there were 461 patients seen with ILI (17,149 total patients seen).

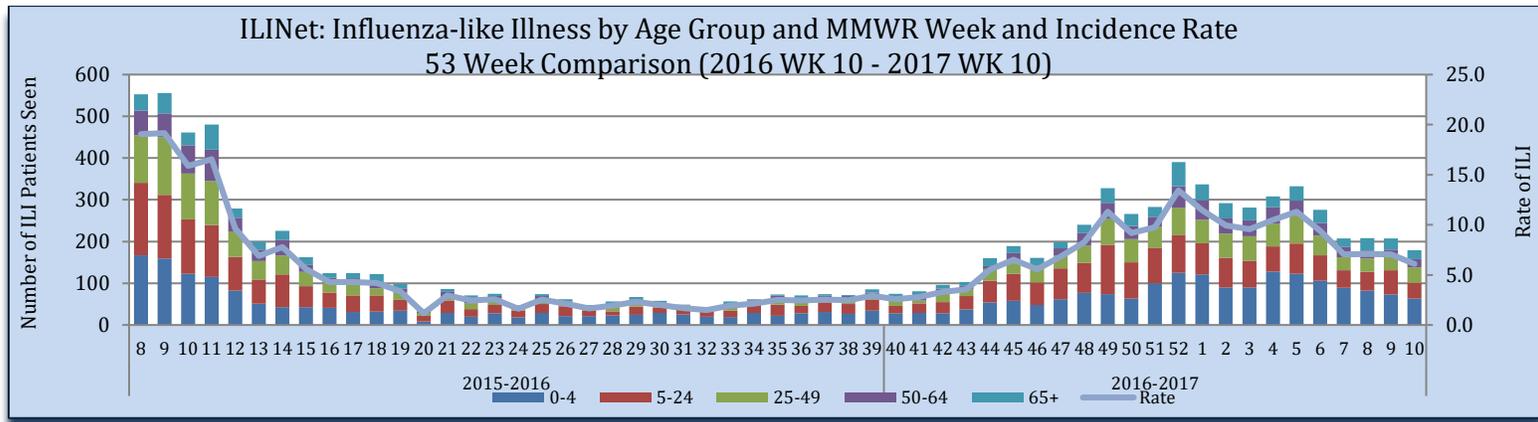
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 10, patients age 0-4 were the greatest number of patients seen with ILI, at 63 patients seen. The rate for week 10 is 6.1 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)

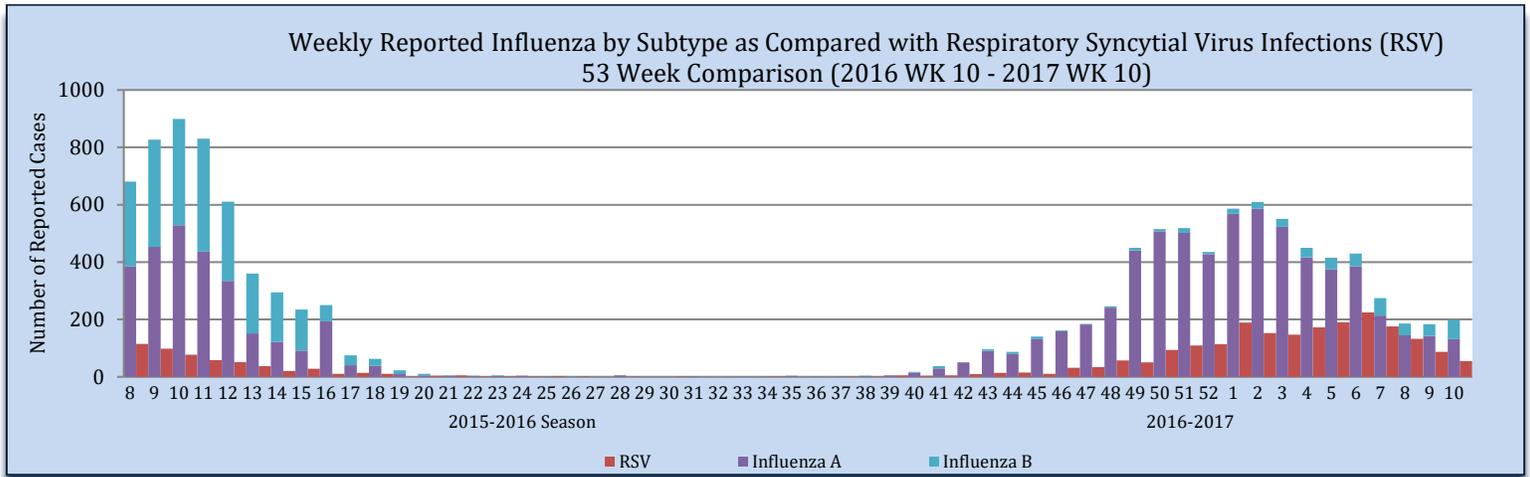
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 10, there were 212 influenza cases reported to the state, 131 influenza A, 67 influenza B and 14 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 10)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	2	3	0	5	791	11	2	804
Rural Community Health Services	5	2	0	7	563	29	37	629
Southern Nevada Health District	101	52	12	165	3,056	372	202	3,630
Washoe County Health District	23	10	2	35	1,929	72	136	2,137
State of Nevada	131	67	14	212	6,339	484	377	7,200

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



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

Hospitalizations

There were 10 hospitalization associated with influenza reported to the state health authority for week 10.

Table 3

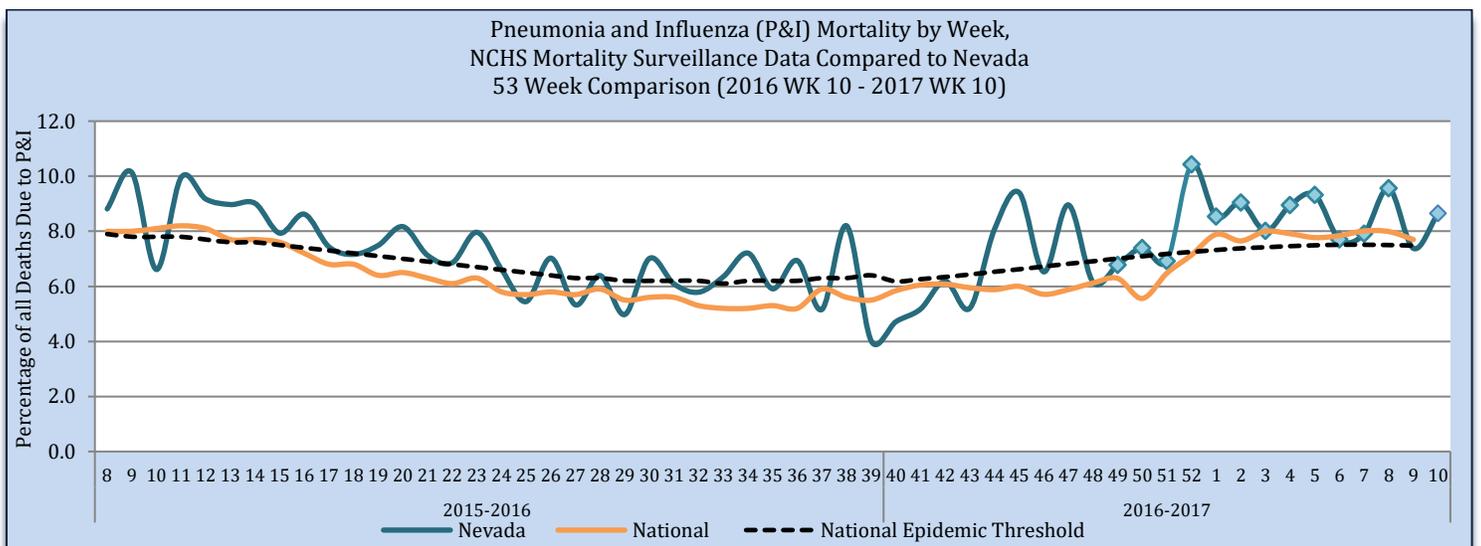
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 10)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	1	10.0	30	6.2
Rural Community Health Services	1	10.0	17	3.5
Southern Nevada Health District	5	50.0	165	34.2
Washoe County Health District	3	30.0	271	56.1
State of Nevada	10	100	483	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 March 27th, there were 29 P&I deaths and 393 total deaths for week 10 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 March 2017.
4. Office of Vital Records (OVR). DPBH. Web Enabled Vital Records Registry System (WEVRRS) [unpublished data]. 2015-2017. Accessed March 2017.
5. Southern Nevada Health District (SNHD). NETSS/Trisano. 2015-2017. Accessed March 2017.

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

**NEVADA INFLUENZA SURVEILLANCE PROGRAM
OFFICE OF PUBLIC HEALTH INFORMATICS AND EPIDEMIOLOGY
500 DAMONTE RANCH PKWY, STE 657
RENO, NV 89521
TEL: (775) 684-5289
FAX: (775) 684-5999**

Compiled and Written by:

Liliana E. Wilbert, MPH

Reviewed by:

Jennifer Thompson
Melissa Peek-Bullock

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