

# Weekly Report

2016 Week 48 (November 27 – December 3, 2016) through 2017 Week 48 (November 26 – December 2, 2017)

Department of Health and Human Services  
Office of Analytics



Brian Sandoval  
Governor  
State of Nevada

Richard Whitley, MS  
Director  
Department of Health and Human Services

Amy Roukie, MBA  
Administrator  
Division of Public and Behavioral Health

*December 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.

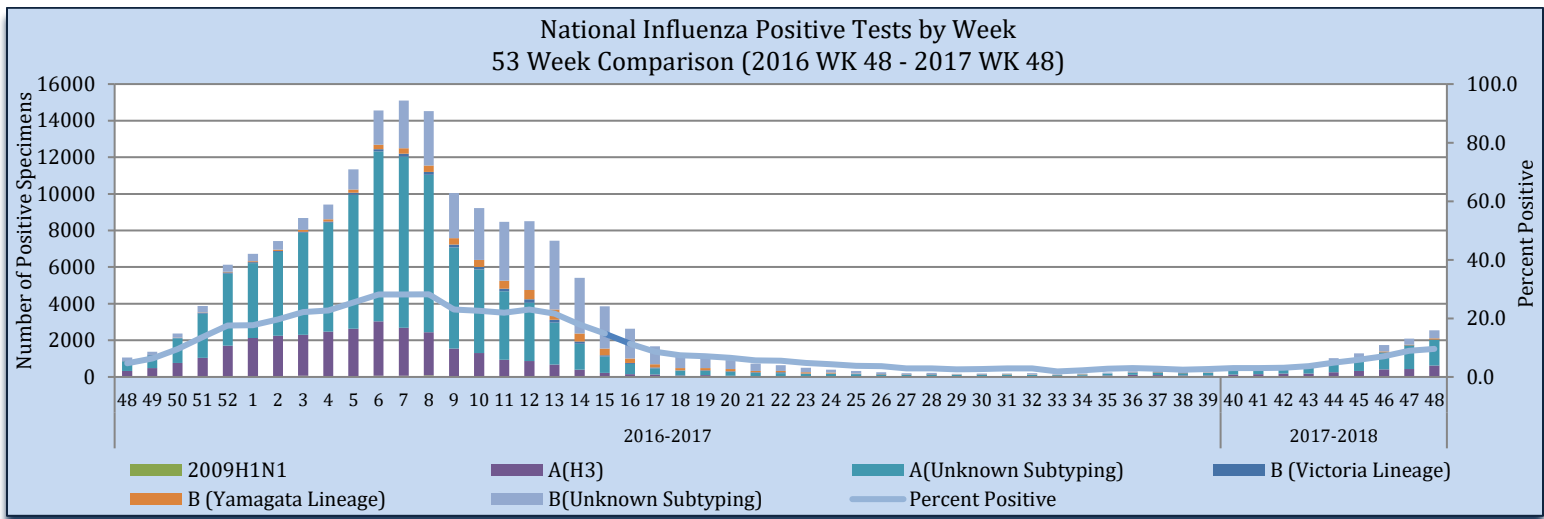
## Purpose

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 48, there were 26,439 specimens collected and tested for influenza, of those 2,542 were positive (9.6%).

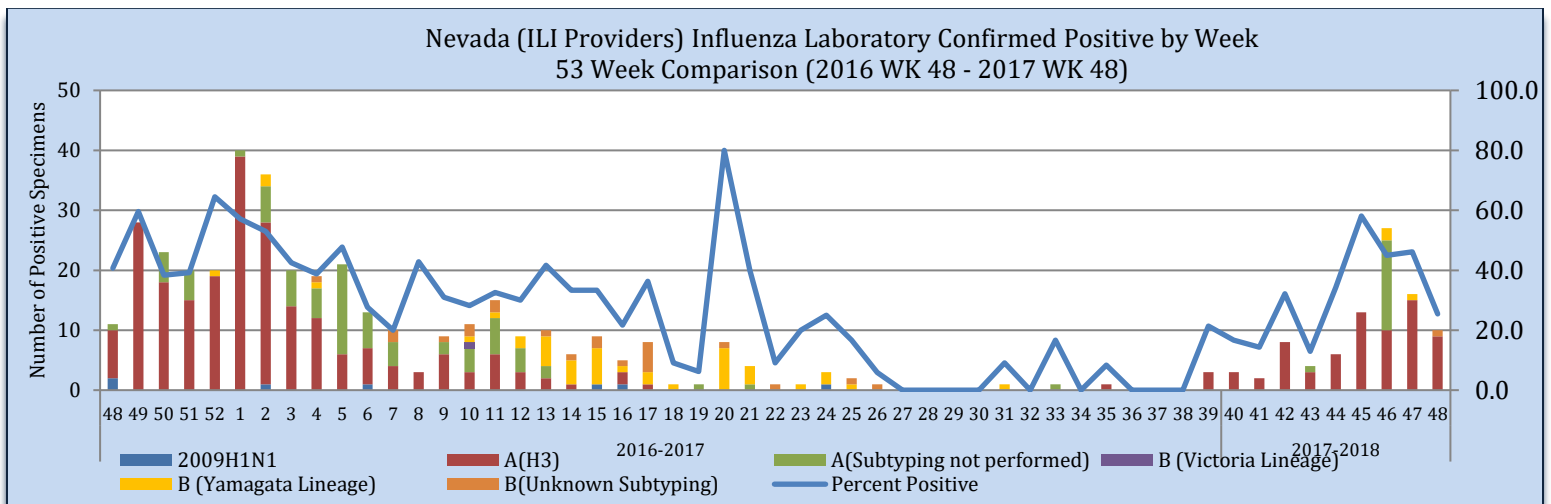
Figure 1



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. Laboratory data is obtained from CDC’s ILINet system. During week 48, where there were 63 specimens collected, in which 16 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 79 specimens for influenza from sentinel providers, of which there have been 67 positive (84.8%). Southern Nevada Public Health Laboratory (SNPHL) has tested 16 specimens this season of which there have been 2 positive. Nationally, there have been 187,995 specimens sent to the WHO and NERVSS laboratories of which 10,962 have been positive (5.8%). 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 tested by sentinel providers, including out of state laboratories.

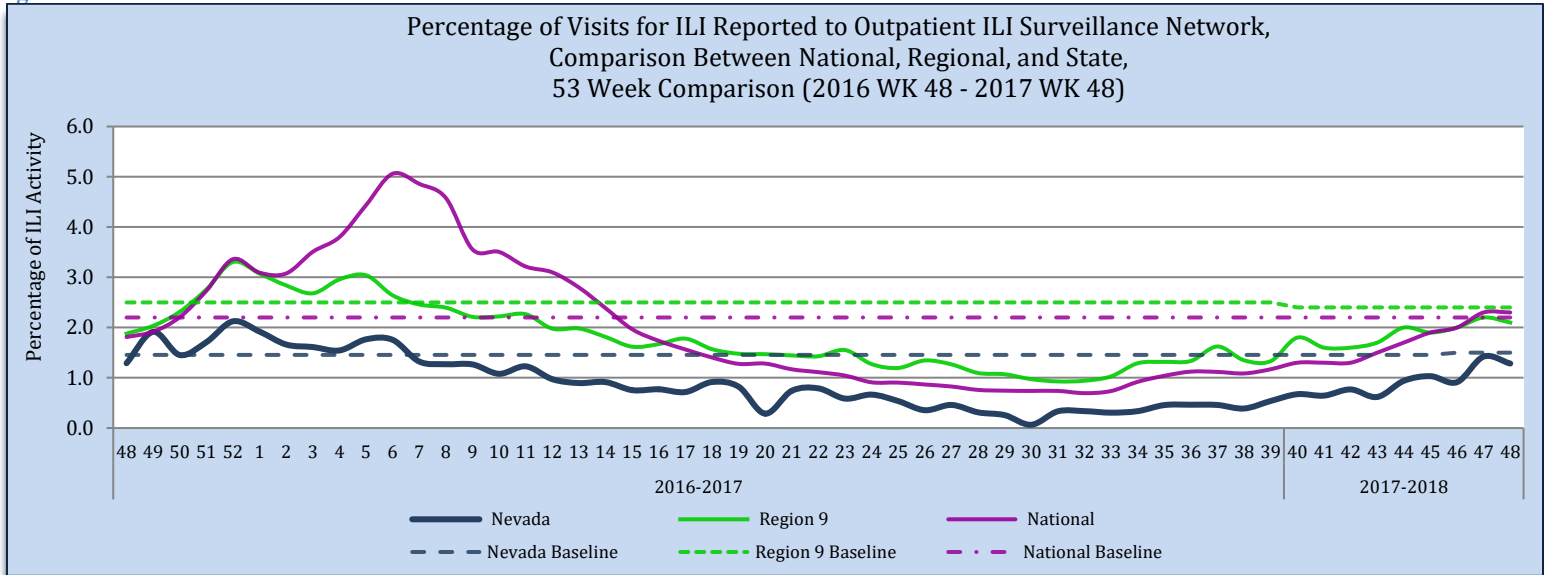
Table 1

Influenza Specimens Tested State and Nationally through Sentinel Providers											
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 48)		State of Nevada (Season)		National (Week 48)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	79	16	262	63	-	357	-	26,439		187,995	
Influenza Positives	67	2	59	16	25.4	128	35.9	2,542	9.6	10,962	5.8
<b>Influenza A:</b>	64	2	58	15	93.8	124	96.9	2,045	80.4	8,603	78.5
A (2009 H1N1)	1	0	0	0	0.0	1	0.8	56	2.7	250	2.9
A (H3)	63	2	4	9	60.0	69	55.6	566	27.7	2,452	28.5
A (Sub-typing not performed)	0	0	54	6	40.0	54	43.5	1,423	69.6	5,901	68.6
<b>Influenza B:</b>	3	0	1	1	6.3	4	3.1	497	19.6	2,359	21.5
B (Victoria Lineage)	0	0	0	0	0.0	0	0.0	3	0.6	21	0.9
B (Yamagata Lineage)	3	0	0	0	0.0	3	75.0	67	13.5	284	12.0
B (Sub-typing not performed)	0	0	1	1	100.0	1	25.0	427	85.9	2,054	87.1

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 48 is 1.8% which is above the state baseline of 1.5%. Region 9 ILI percentage for week 48 is 2.1% which is the below the region baseline 2.4%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 48 is 2.3% which is above the national baseline 2.2%.

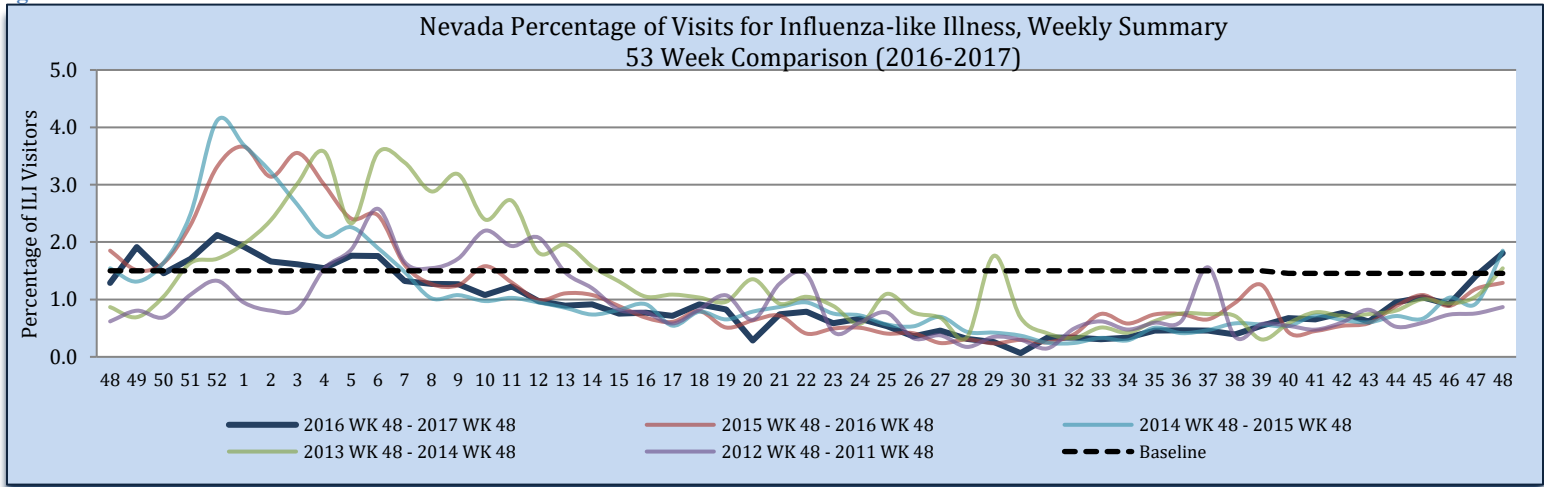
Figure 3



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

During week 48, 1.3% of visits to sentinel providers were due to ILI; this equal to the 2016-2017 influenza season (1.3%). There were 11,786 patients seen by sentinel providers during week 48, of which 213 patients presented with ILI; week 48 of 2016, there were 240 patients seen with ILI (18,608 total patients seen). Data availability depends on sentinel provider reporting.

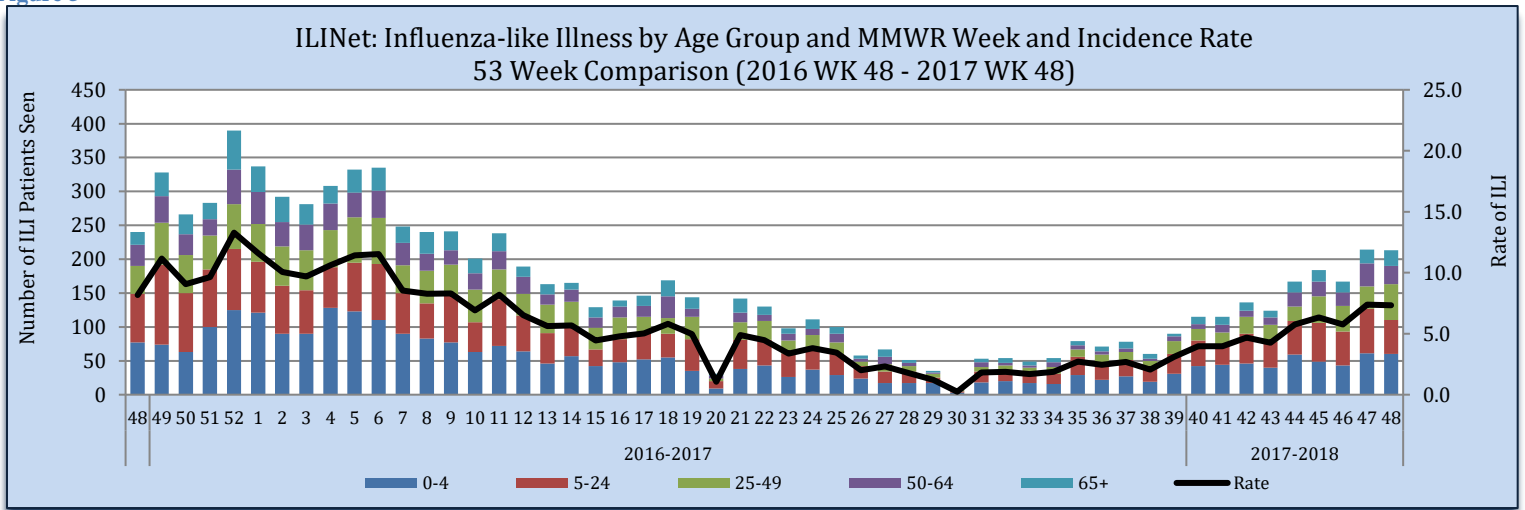
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 48, patients ages 0-4 were the greatest number of patients seen with ILI, at 60 patients seen. The rate for week 48 is 7.3 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)

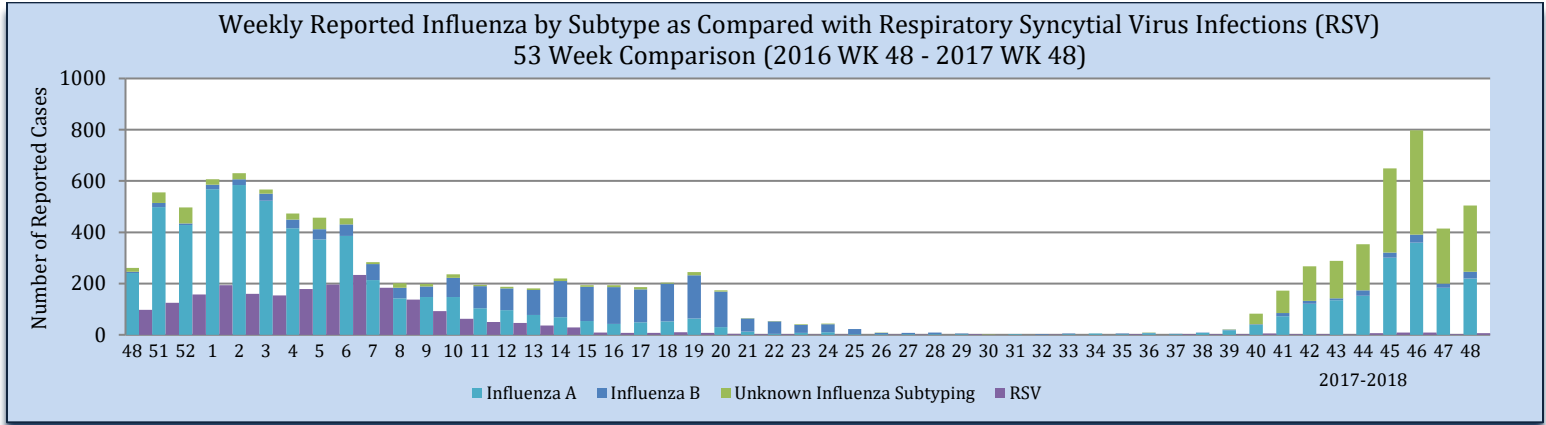
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 48, there were 259 influenza cases reported to the state, 220 influenza A, 26 influenza B and 13 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 48)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	26	1	0	27	269	9	0	278
Rural Community Health Services	36	2	0	38	114	5	0	119
Southern Nevada Health District	36	2	0	38	693	49	0	742
Washoe County Health District	122	21	13	156	509	85	64	658
State of Nevada	220	26	13	259	1,585	148	64	1,797

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



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

### Hospitalizations

There were 43 hospitalizations associated with influenza reported to the state health authority for week 48.

Table 3

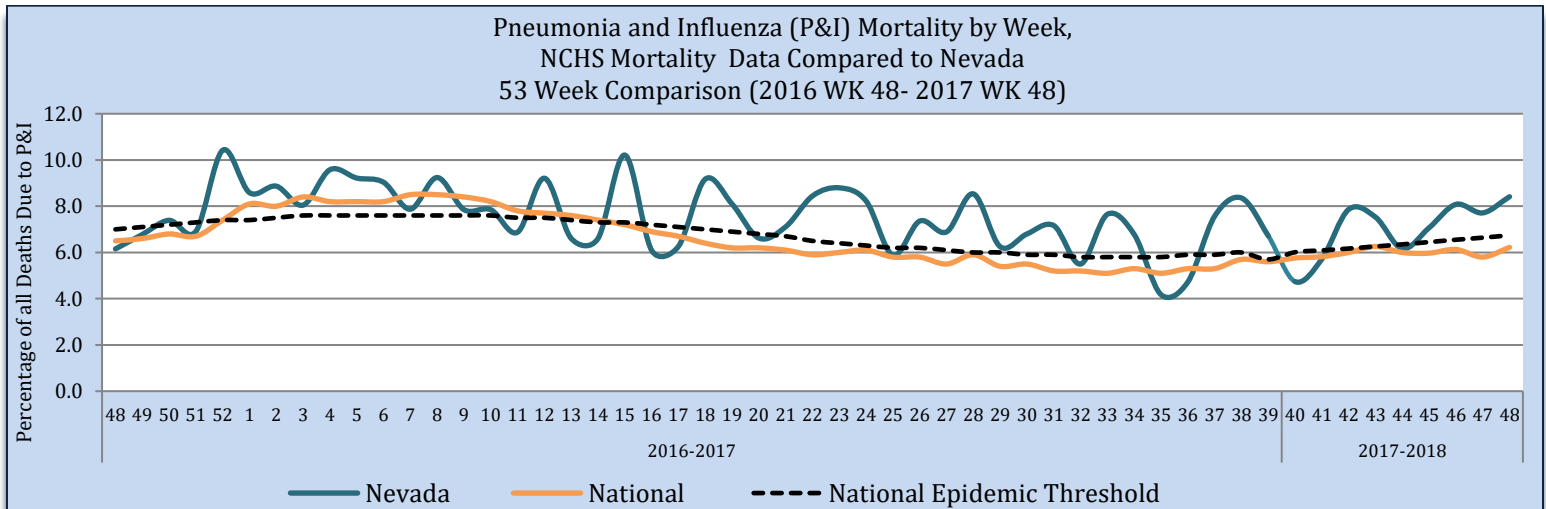
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 48)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	4	9.3%	26	10.6%
Rural Community Health Services	2	4.7%	5	2.0%
Southern Nevada Health District	15	34.9%	138	56.3%
Washoe County Health District	22	51.2%	76	31.0%
State of Nevada	43	100.0%	245	100.0%

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 December 27<sup>st</sup>, there were 35 P&I deaths and 416 total deaths for week 48 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. 2016-2017. Accessed December 2017.
4. Office of Vital Records (OVR). DPBH. Web Enabled Vital Records Registry System (WEVRRS) [unpublished data]. 2016-2017. Accessed November 2017.
5. Southern Nevada Health District (SNHD). NETSS/Trisano. 2016-2017. Accessed December 2017.

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

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

### Compiled and Written by:

Helen See, MPH

### Reviewed by:

Jennifer Thompson  
Melissa Peek-Bullock

### Recommended Citation:

Department of Health and Human Services. Office of Analytics. Influenza Weekly Report, 2016 Week 48 (November 27, 2016) through 2017 Week 48 (December 2, 2017), Nevada. December 2017 i 48 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.

