

# Influenza Weekly Report

2017 Week 6 (February 5 – February 11, 2017) through 2018 Week 6 (February 4 – February 10, 2018)

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

Julie Kotchevar, Ph.D  
Acting Administrator  
Division of Public and Behavioral Health

*February, 2018*  
*Edition 1.0*

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

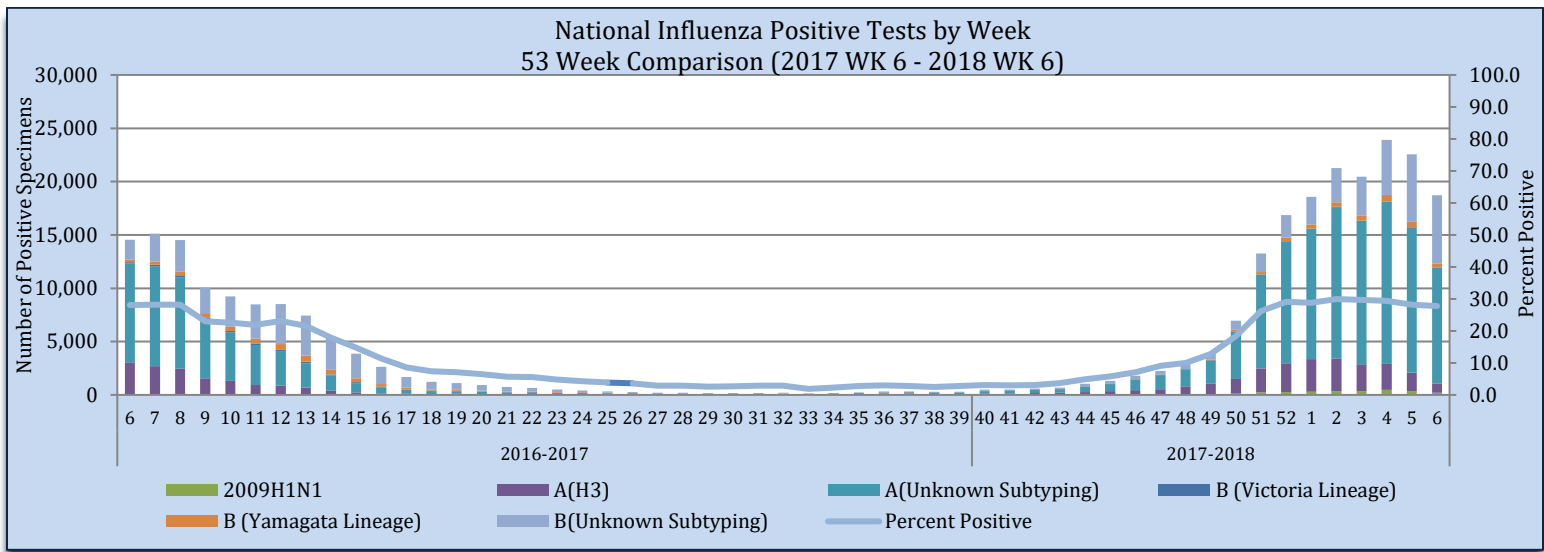
## Purpose

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 6, there were 67,249 specimens collected and tested for influenza, of those 18,716 were positive (27.8%).

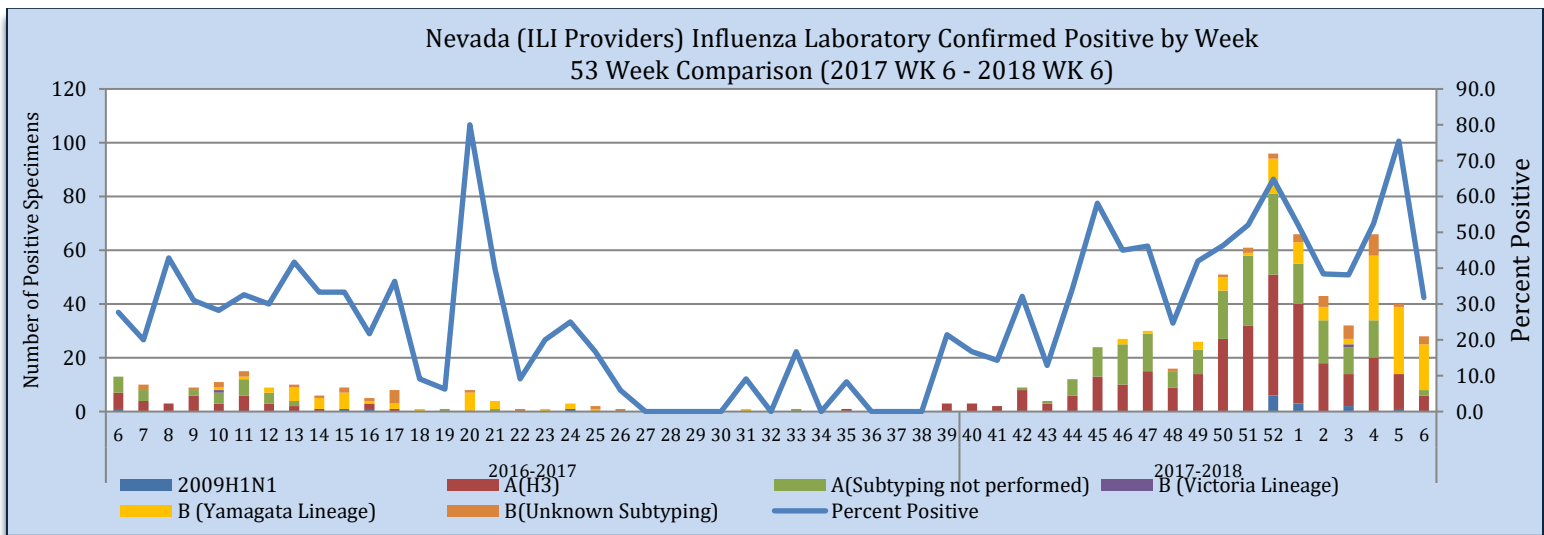
Figure 1



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 6, where there were 88 specimens collected, in which 28 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 467 specimens for influenza from sentinel providers, of which there have been 403 positive (86.3%). Southern Nevada Public Health Laboratory (SNPHL) has tested 64 specimens this season of which there have been 5 positive. Nationally, there have been 805,033 specimens sent to the WHO and NERVSS laboratories of which 178,040 have been positive (22.1%). 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.

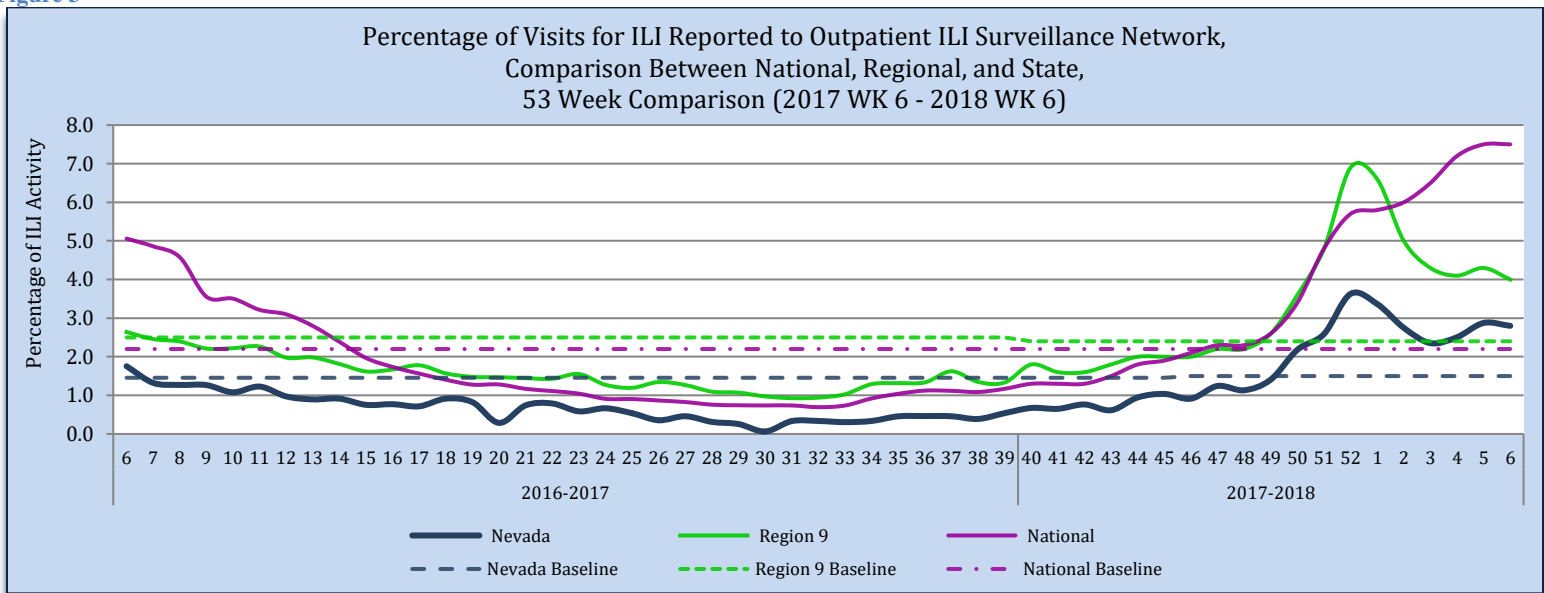
Table 1

	Influenza Specimens Tested State and Nationally through Sentinel Providers										
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 6)		State of Nevada (Season)		National (Week 6)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	467	64	861	88	-	1392	-	67,249		805,033	
Influenza Positives	403	5	232	28	31.8	640	46.0	18,716	27.8	178,040	22.1
<b>Influenza A:</b>	299	3	201	8	28.6	503	78.6	11,946	63.8	139,160	78.2
A (2009 H1N1)	15	0	1	0	0.0	16	3.2	201	1.7	3,018	2.2
A (H3)	284	3	6	6	75.0	293	58.3	870	7.3	23,775	17.1
A (Sub-typing not performed)	0	0	194	2	25.0	194	38.6	10,875	91.0	112,367	80.7
<b>Influenza B:</b>	104	2	31	20	71.4	137	21.4	6,770	36.2	38,880	21.8
B (Victoria Lineage)	1	0	0	0	0.0	1	0.7	26	0.4	399	1.0
B (Yamagata Lineage)	103	0	3	17	85.0	106	77.4	340	5.0	3,808	9.8
B (Sub-typing not performed)	0	2	28	3	15.0	30	21.9	6,404	94.6	34,673	89.2

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 6 is 2.8% which is above the state baseline of 1.5%. Region 9 ILI percentage for week 5 is 4.0% which is the above the region baseline of 2.4%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 6 is 7.5% which is above the national baseline 2.2%.

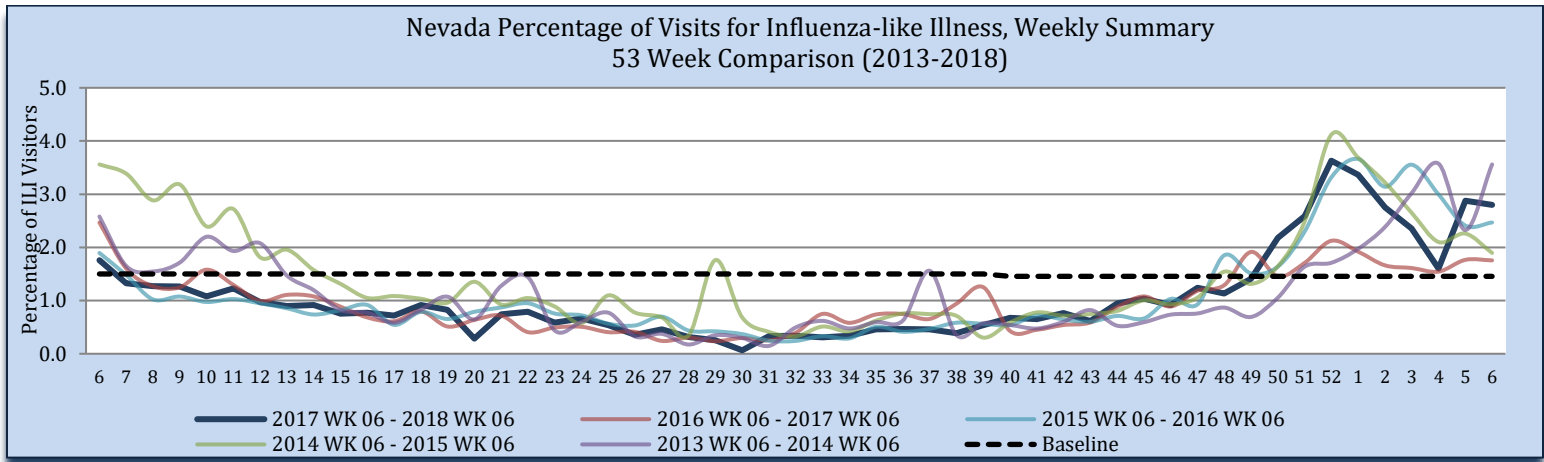
Figure 3



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

During week 6, 2.8% of visits to sentinel providers were due to ILI; this is greater than the 2016-2017 influenza season (1.8%). There were 19,069 patients seen by sentinel providers during week 6, of which 534 patients presented with ILI; week 6 of 2017, there were 335 patients seen with ILI (19,084 total patients seen). Data availability depends on sentinel provider reporting.

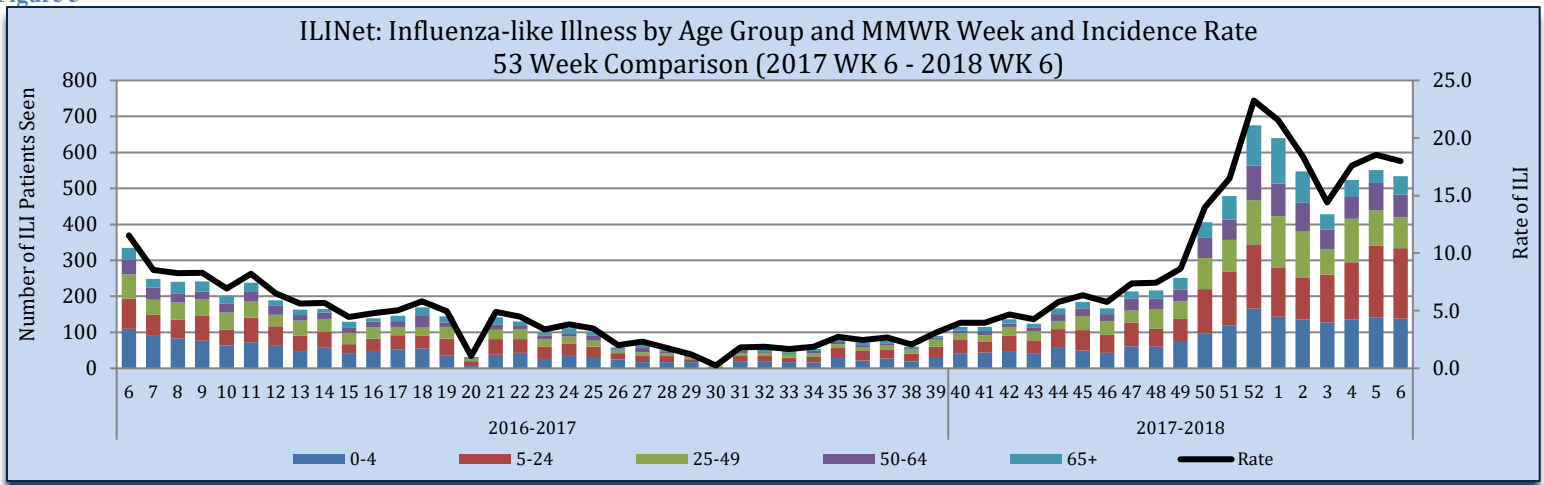
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 6, patients ages 5-24 were the greatest number of patients seen with ILI, at 196 patients seen. The rate for week 6 is 18.0 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 2018 is 2,969,849.

Figure 5



Source of Data: CDC: ILINet.

### Influenza Positive Surveillance (NBS and NETSS)

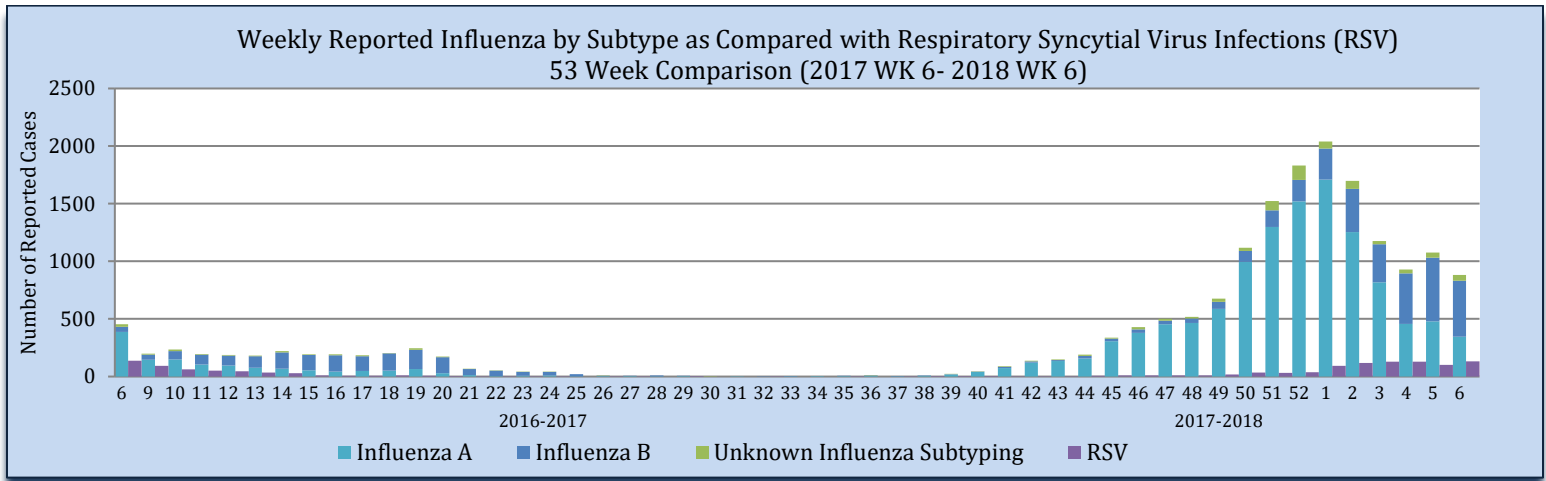
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 6, there were 883 influenza cases reported to the state, 347 influenza A, 487 influenza B and 49 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 6)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	74	63	12	149	1163	388	57	1,608
Rural Community Health Services	60	118	5	183	937	457	28	1,422
Southern Nevada Health District	130	122	10	262	6532	1185	222	7,939
Washoe County Health District	83	184	22	289	2967	1082	326	4,375
State of Nevada	347	487	49	883	11,599	3,112	633	15,344

Source: to Office of Analytics: NBS and SNHD: NETSS.

Figure 6



Source of Data: to Office of Analytics: NBS and SNHD: NETSS.

### Hospitalizations

There were 39 hospitalizations associated with influenza reported to the state health authority for week 6.

Table 3

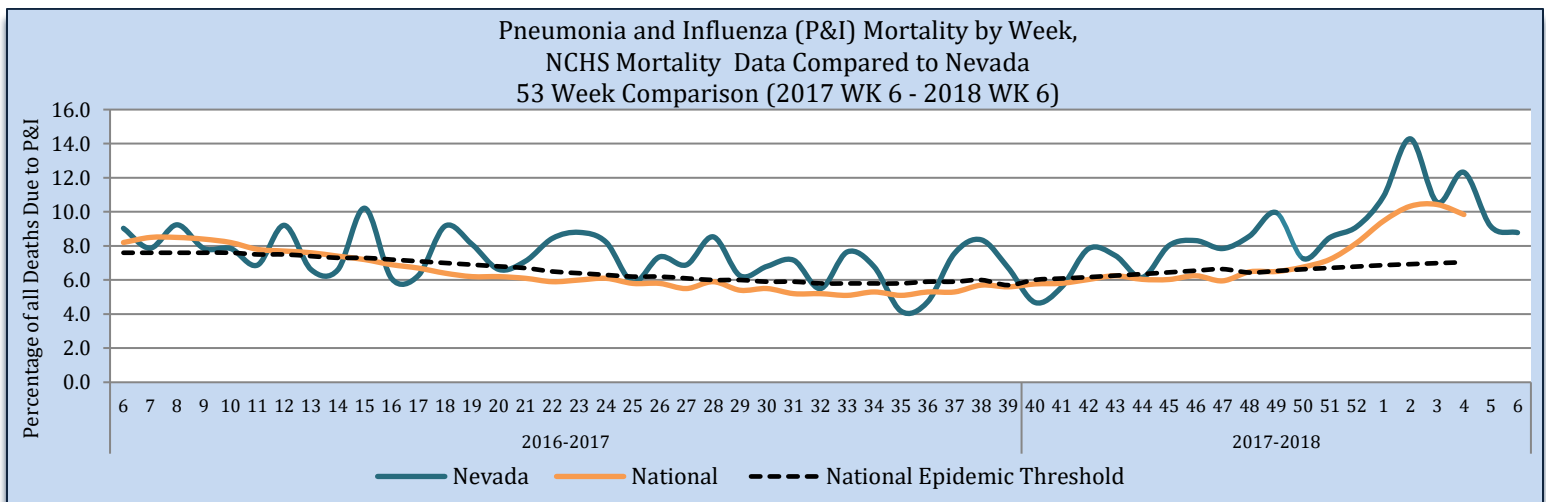
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 5)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	4	10.3%	124	9.2%
Rural Community Health Services	2	5.1%	38	2.8%
Southern Nevada Health District	24	61.5%	745	55.4%
Washoe County Health District	9	23.1%	437	32.5%
State of Nevada	39	100.0%	1344	100.0%

Source: Reported to Office of Analytics 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 21<sup>st</sup>, there were 35 P&I deaths and 378 total deaths for week 5 in Nevada. Please note that the CDC does not have updated P&I counts for week 4 or week 5.

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. Office of Analytics. DHHS. NBS. 2016-2018. Accessed February 2018.
4. Office of Vital Records (OVR). DPBH. Web Enabled Vital Records Registry System (WEVRRS) [unpublished data]. 2017-2018. Accessed February 2018.
5. Southern Nevada Health District (SNHD). NETSS/Trisano. 2016-2018. Accessed February 2018.

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

**NEVADA INFLUENZA SURVEILLANCE PROGRAM  
OFFICE OF ANALYTICS  
4126 TECHNOLOGY WAY  
CARSON CITY, NV 89706  
TEL: (775) 684-5997  
FAX: (775) 684-5999**

### Compiled and Written by:

Helen See, MPH

### Reviewed by:

Jennifer Thompson  
Michelle Khau  
Melissa Peek-Bullock

### Recommended Citation:

Department of Health and Human Services. Office of Analytics. Influenza Weekly Report, 2017 Week 6 (February 5, 2017) through 2018 Week 6 (February 10, 2018), Nevada. February 2018 i 6 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.

