

# Influenza Weekly Report

2017 Week 11 (March 12 – March 18, 2017) through 2018 Week 11 (March 11 – March 17, 2018)

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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.

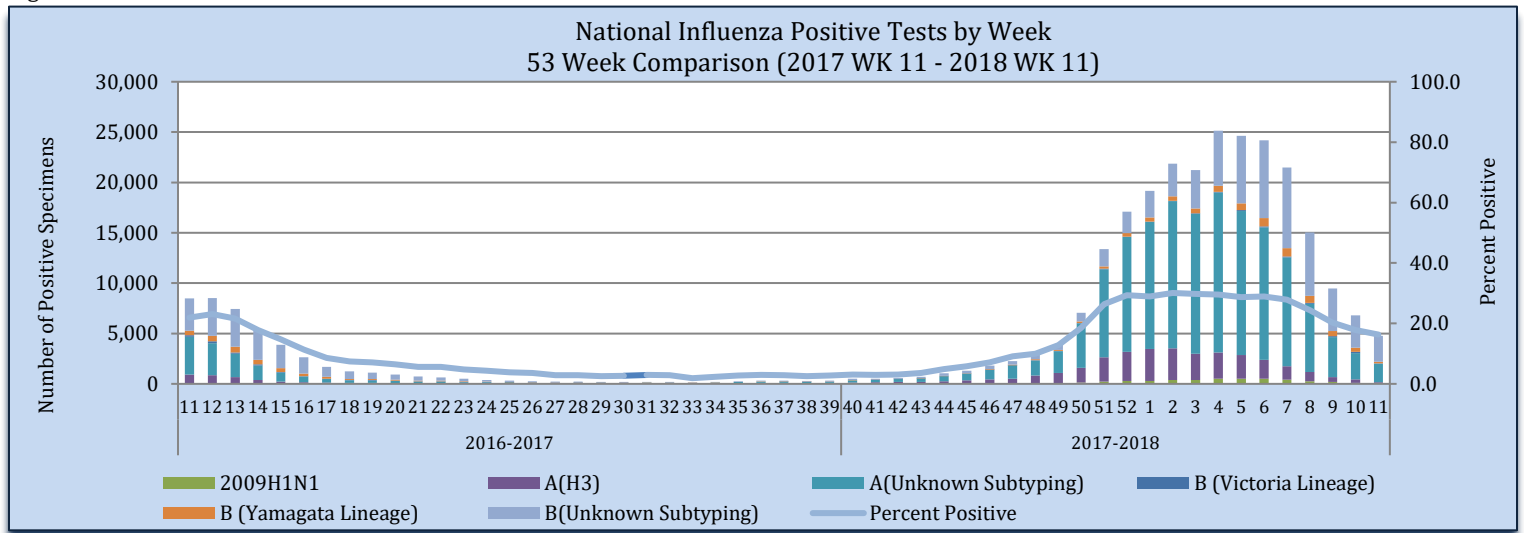
## Purpose

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 11, there were 29,109 specimens collected and tested for influenza, of those 4,759 were positive (16.4%).

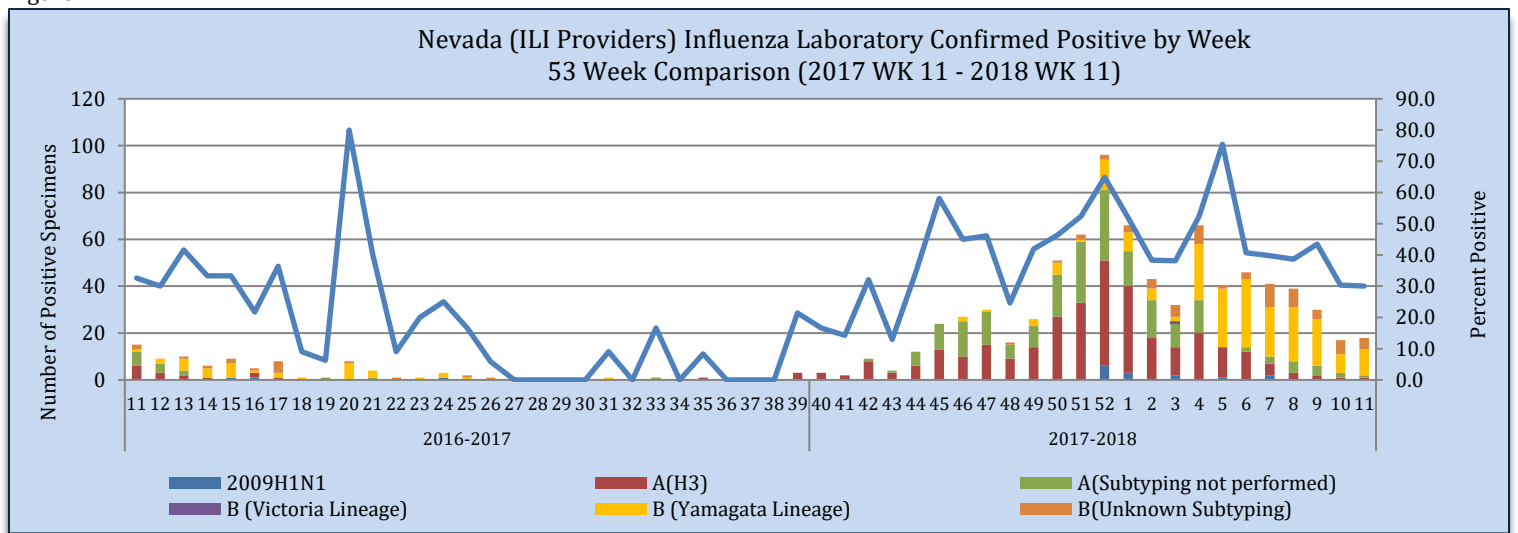
Figure 1



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 11, where there were 60 specimens collected, in which 18 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 597 specimens for influenza from sentinel providers, of which there have been 516 positive (86.4%). Southern Nevada Public Health Laboratory (SNPHL) has tested 87 specimens this season of which there have been 6 positive. Nationally, there have been 1,089,780 specimens sent to the WHO and NERVSS laboratories of which 246,766 have been positive (22.6%). 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.

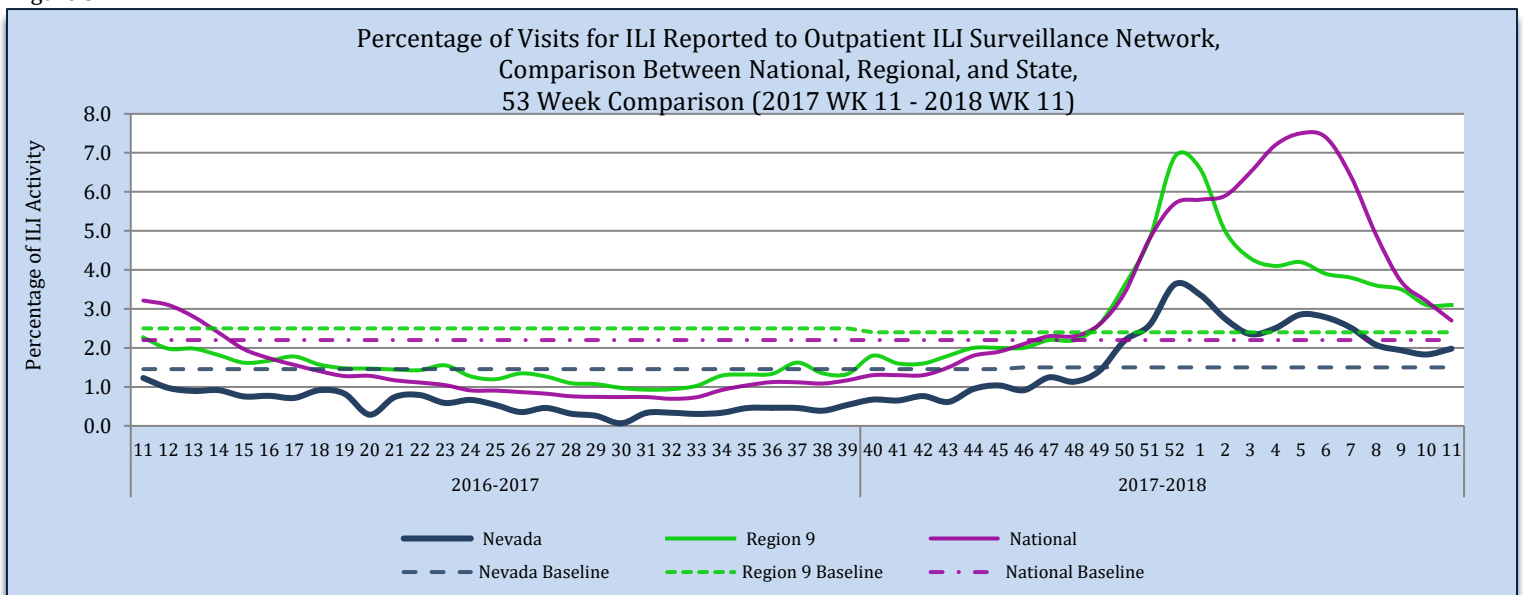
Table 1

	Influenza Specimens Tested State and Nationally through Sentinel Providers										
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 11)		State of Nevada (Season)		National (Week 11)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	597	87	1,123	60	-	1,807	-	29,109		1,089,780	
Influenza Positives	516	6	282	18	30.0	804	44.5	4,759	16.3	246,766	22.6
<b>Influenza A:</b>	318	3	218	2	11.1	539	67.0	2,012	42.3	177,412	71.9
A (2009 H1N1)	17	0	1	0	0	18	3.3	67	3.3	4,609	2.6
A (H3)	301	3	8	1	50.0	312	57.9	100	5.0	29,524	16.6
A (Sub-typing not performed)	0	0	209	1	50.0	209	38.8	1,845	91.7	143,279	80.8
<b>Influenza B:</b>	198	3	64	16	88.9	265	33.0	2,747	57.7	69,354	28.1
B (Victoria Lineage)	1	0	0	0	0	1	0.4	22	0.8	916	1.3
B (Yamagata Lineage)	197	0	4	11	68.8	201	75.8	147	5.4	7,208	10.4
B (Sub-typing not performed)	0	3	60	5	31.3	63	23.8	2,578	93.8	61,230	88.3

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 11 is 2.0% which is above the state baseline of 1.5%. Region 9 ILI percentage for week 11 is 3.1% which is the above the regional baseline of 2.4%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 11 is 2.7% which is above the national baseline 2.2%.

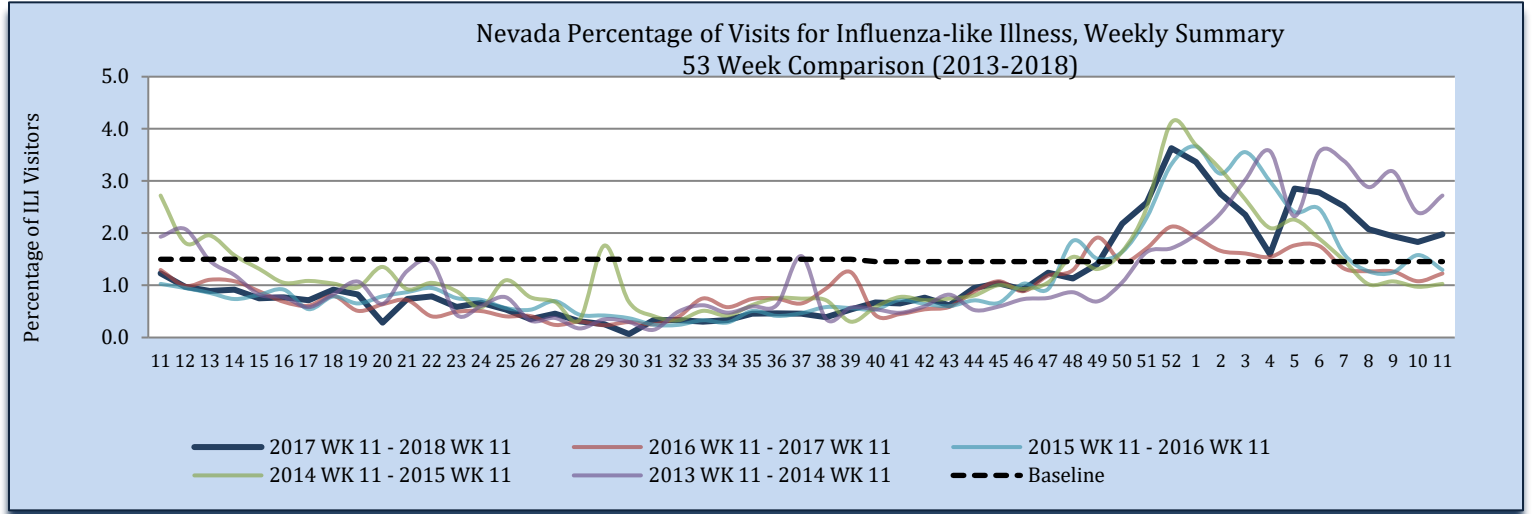
Figure 3



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

During week 11, 2.0% of visits to sentinel providers were due to ILI; this is greater than the 2016-2017 influenza season (1.2%). There were 10,104 patients seen by sentinel providers during week 11, of which 200 patients presented with ILI; week 11 of 2017, there were 238 patients seen with ILI (19,383 total patients seen). Data availability depends on sentinel provider reporting.

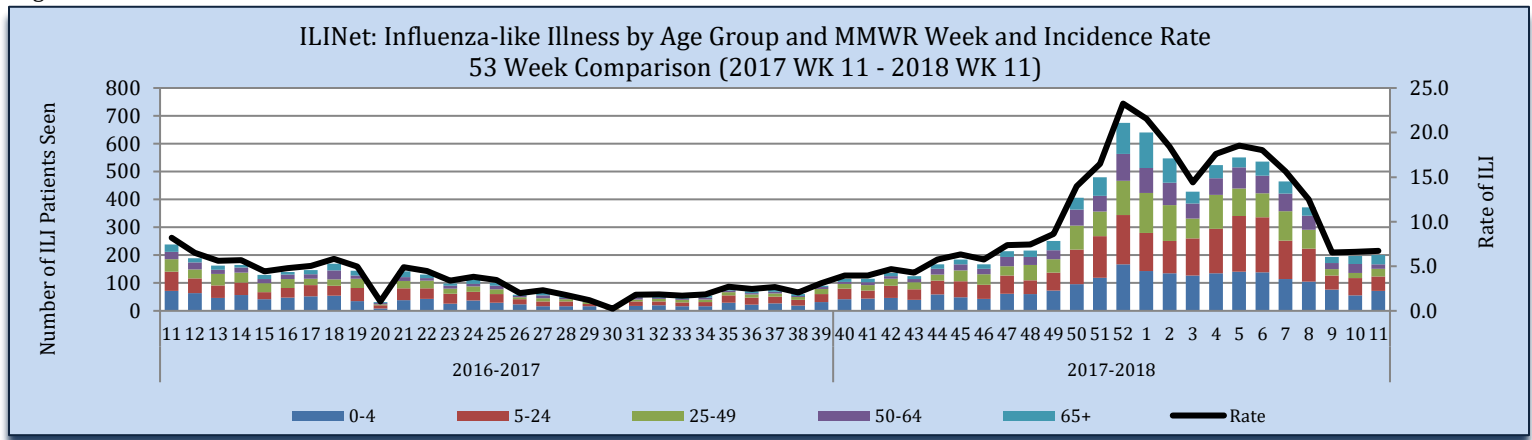
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 11, patients ages 0-4 were the greatest number of patients seen with ILI, at 72 patients seen. The rate for week 11 is 6.7 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)

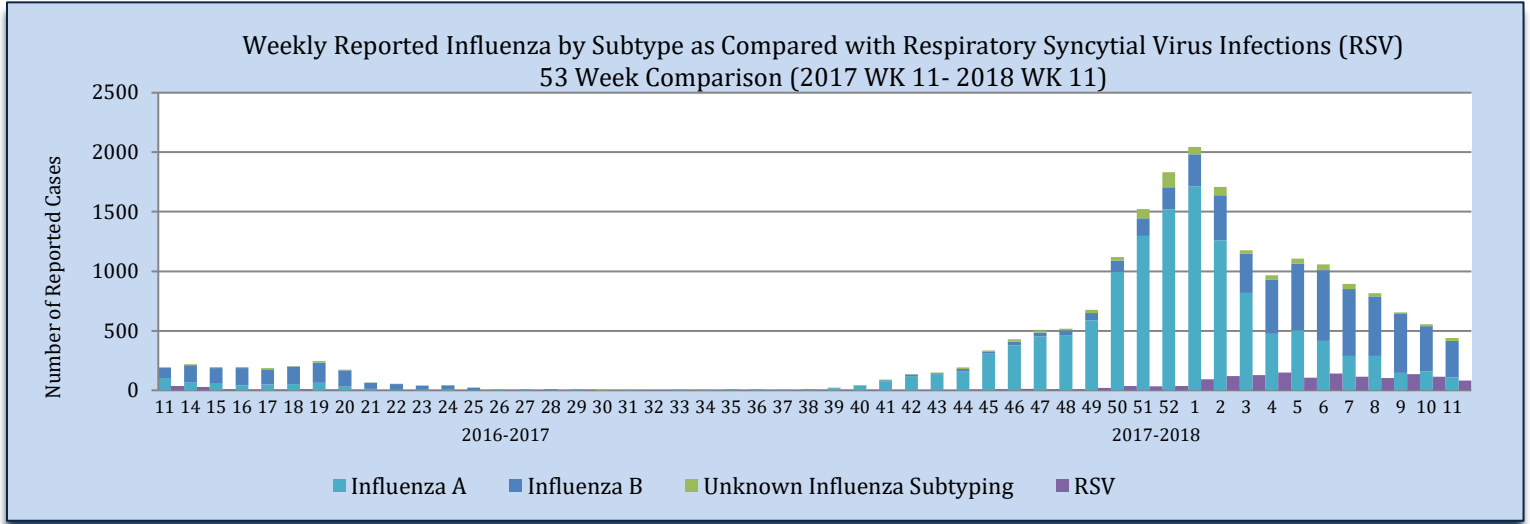
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 7 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 11, there were 440 influenza cases reported to the state, 110 influenza A, 305 influenza B and 25 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 11)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	9	27	3	39	1,285	608	80	1,973
Rural Community Health Services	9	21	0	30	1,066	880	30	1,976
Southern Nevada Health District	62	198	15	275	7,046	2,416	262	9,724
Washoe County Health District	30	59	7	96	3,210	1,604	389	5,203
State of Nevada	110	305	25	440	12,607	5,508	761	18,876

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 18 hospitalizations associated with influenza reported to the state health authority for week 11.

Table 3

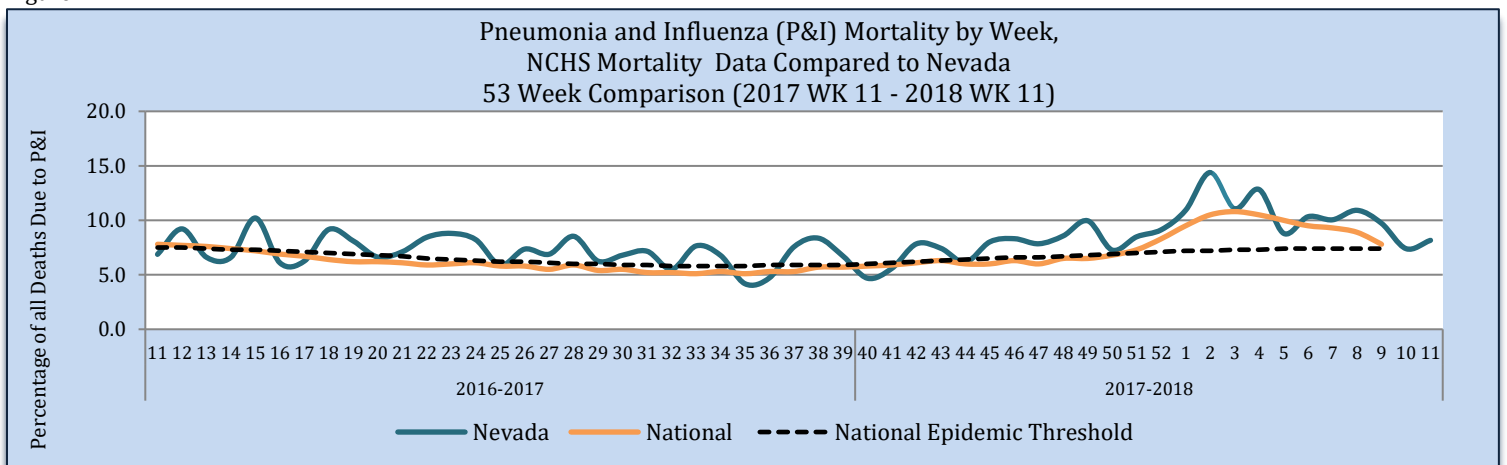
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 11)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	2	11.1	144	9.2
Rural Community Health Services	2	11.1	44	2.8
Southern Nevada Health District	9	50.0	883	56.4
Washoe County Health District	5	27.8	494	31.6
State of Nevada	18	100	1,565	100

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 March 26<sup>th</sup>, there were 36 P&I deaths and 441 total deaths for week 11 in Nevada. Please note that the CDC does not have updated P&I counts for week 10 or week 11.

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

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