

# Influenza Weekly Report

2017 Week 20 (May 14 – May 20, 2017) through 2018 Week 20 (May 13 – May 19, 2018)

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Office of Analytics



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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.

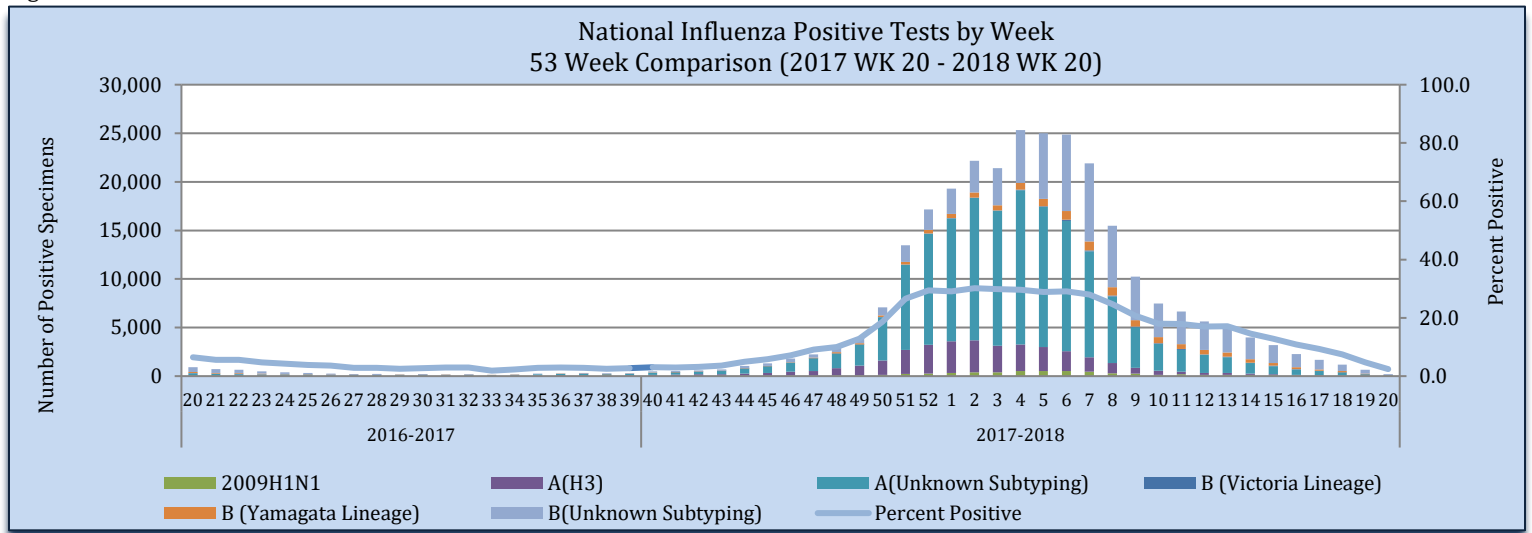
## Purpose

The purpose of this report is to provide an overview of 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 20, there were 8,605 specimens collected and tested for influenza, of those 204 were positive (2.4%).

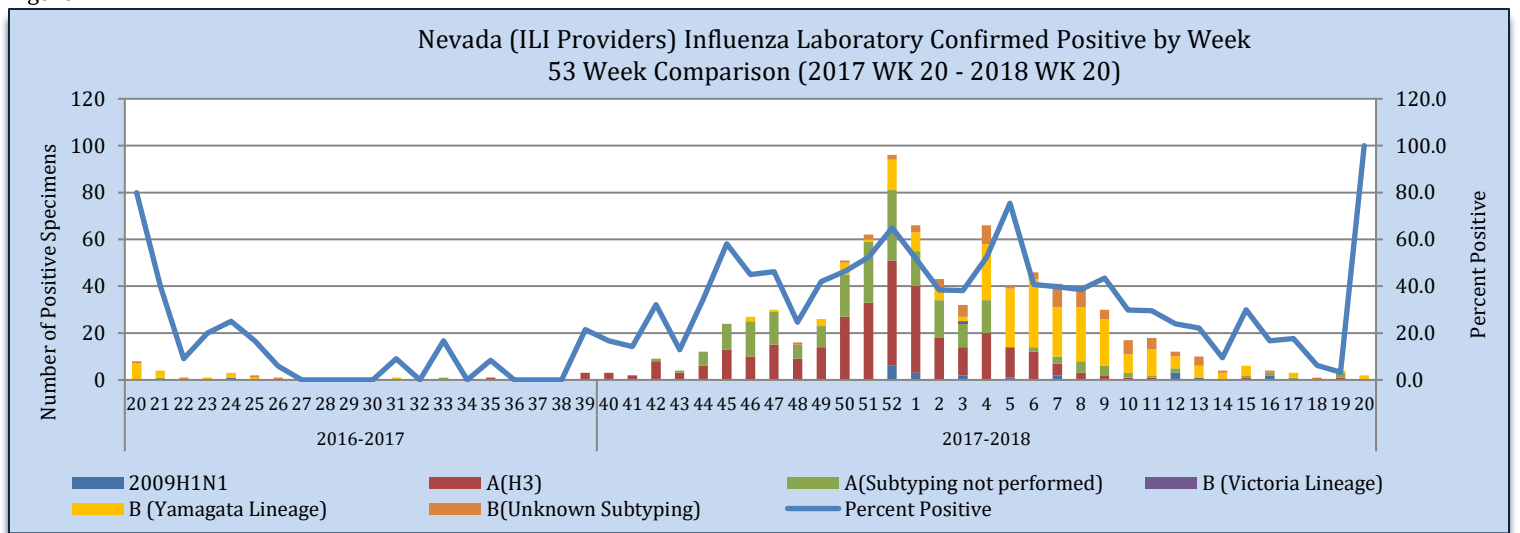
Figure 1



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 20, where there were 2 specimens collected, in which 2 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 642 specimens for influenza from sentinel providers, of which there have been 545 positive (84.9%). Southern Nevada Public Health Laboratory (SNPHL) has tested 118 specimens this season of which there have been 7 positive. Nationally, there have been 1,303,108 specimens sent to the WHO and NERVSS laboratories of which 277,068 have been positive (21.3%). 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.

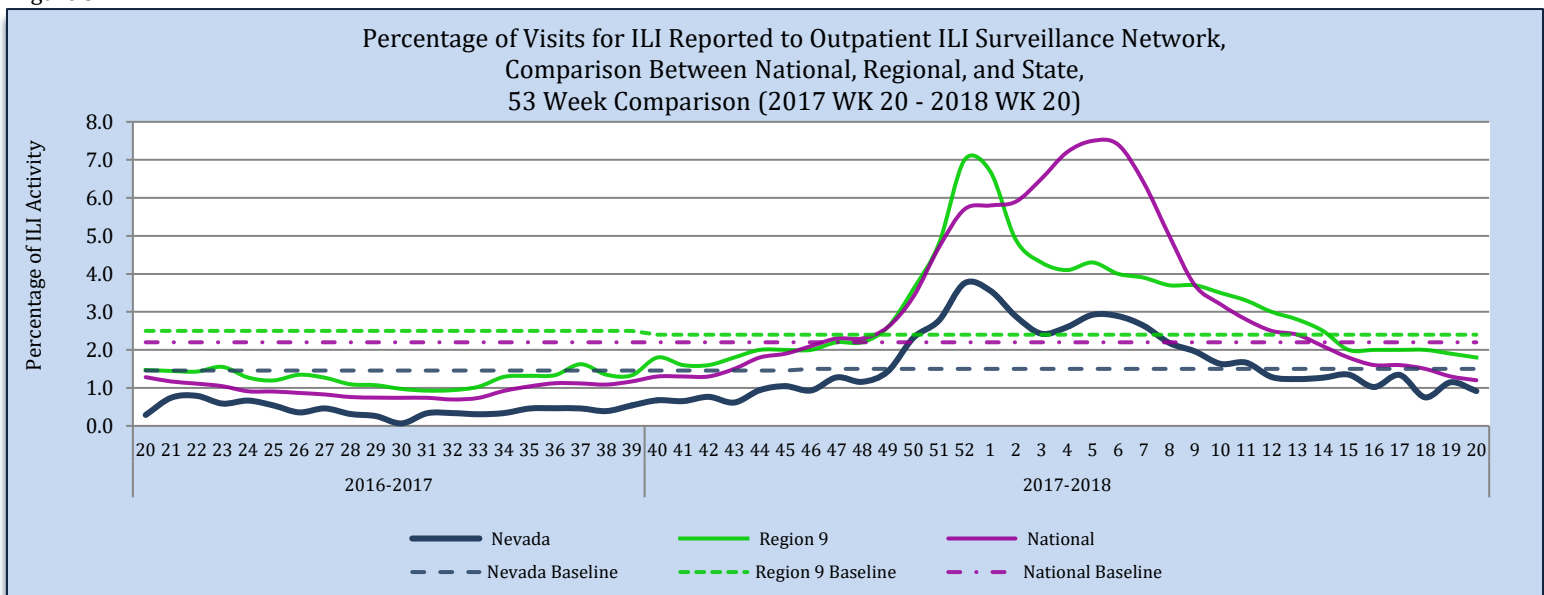
Table 1

Influenza Specimens Tested State and Nationally through Sentinel Providers											
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 20)		State of Nevada (Season)		National (Week 20)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	642	118	1,387	2	-	2,147	-	8,605		1,303,108	
Influenza Positives	545	7	298	2	100	850	39.6	204	2.4	277,068	21.3
<b>Influenza A:</b>											
Influenza A:	325	4	225	0	0	554	65.2	91	44.6	189,171	68.3
A (2009 H1N1)	22	1	1	0	0	24	4.3	4	4.4	5,670	3.0
A (H3)	303	3	8	0	0	314	56.7	2	2.2	31,908	16.9
A (Sub-typing not performed)	0	0	216	0	0	216	39.0	85	93.4	151,593	80.1
<b>Influenza B:</b>											
Influenza B:	220	3	73	2	100	296	34.8	113	55.4	87,897	31.7
B (Victoria Lineage)	1	0	0	0	0	1	0.3	1	0.9	1,326	1.5
B (Yamagata Lineage)	219	0	4	2	100	223	75.3	6	5.3	10,498	11.9
B (Sub-typing not performed)	0	3	69	0	0	72	24.3	106	93.8	76,073	86.5

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 20 is 0.9% which is below the state baseline of 1.5%. Region 9 ILI percentage for week 20 is 1.8% which is below 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 20 is 1.2% which is below the national baseline of 2.2%.

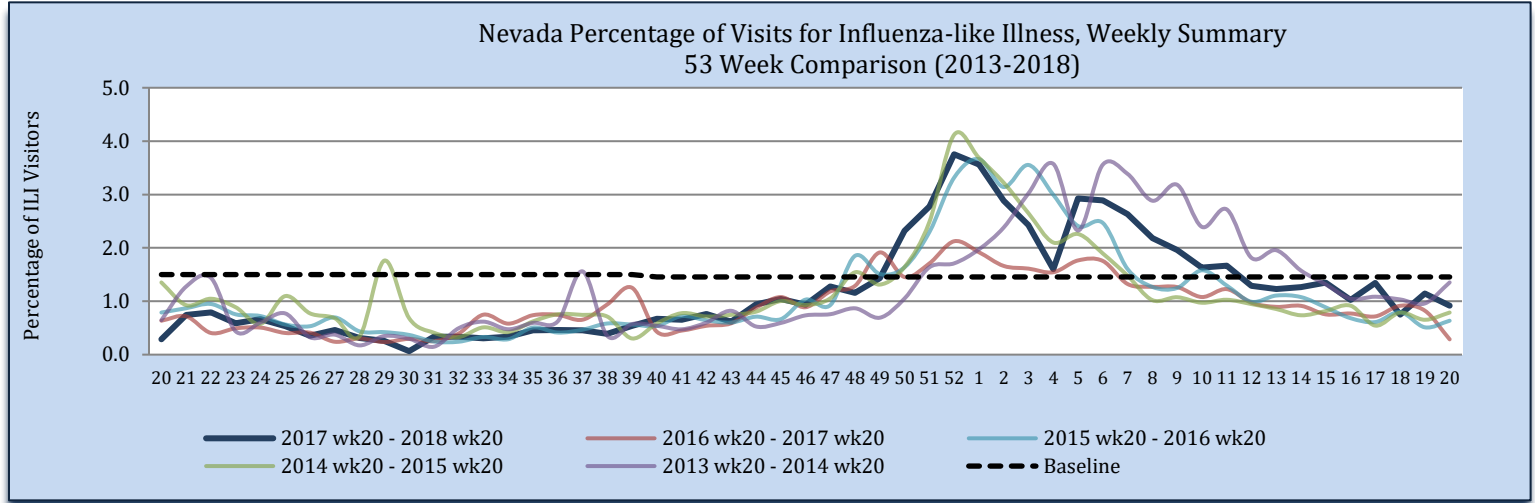
Figure 3



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

During week 20, 0.9% of visits to sentinel providers were due to ILI; this is greater than the 2016-2017 influenza season (0.3%). There were 8,084 patients seen by sentinel providers during week 20, of which 74 patients presented with ILI; week 20 of 2017, there were 31 patients seen with ILI (10,823 total patients seen). Data availability depends on sentinel provider reporting.

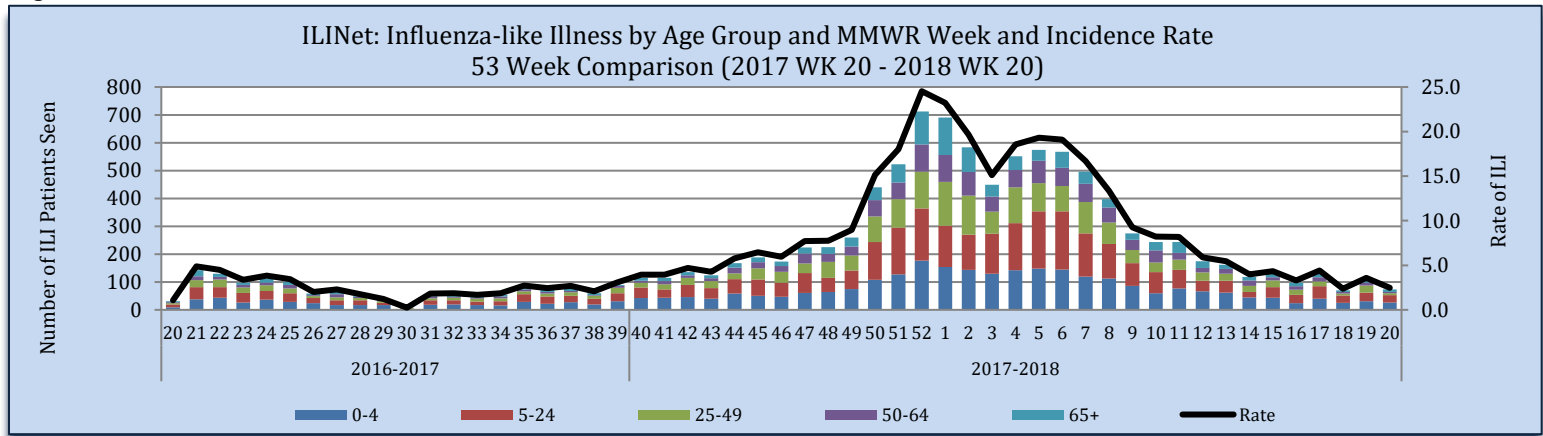
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 20, patients ages 5-24 were the greatest number of patients seen with ILI, at 27 patients seen. The rate for week 20 is 2.5 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)

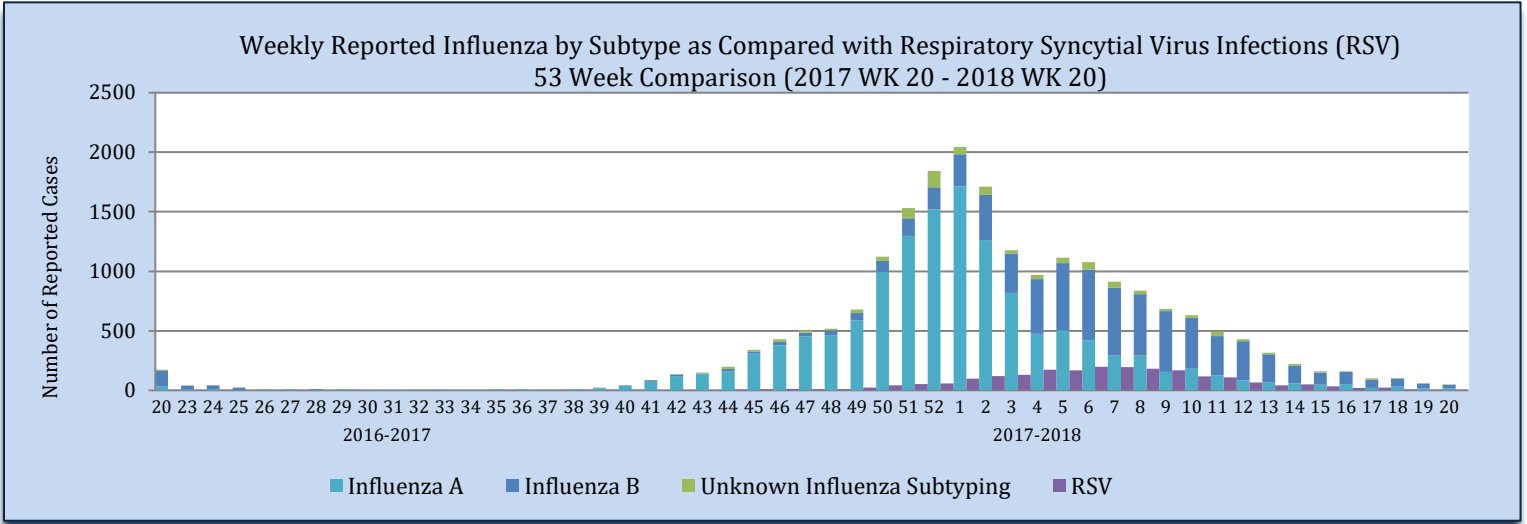
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 7 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 20, there were 50 influenza cases reported to the state, 16 influenza A, 30 influenza B and 4 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 20)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	2	3	0	5	1,326	762	87	2,175
Rural Community Health Services	0	0	0	0	1,088	942	30	2,060
Southern Nevada Health District	13	20	3	36	7,452	3,146	388	10,986
Washoe County Health District	1	7	1	9	3,302	1,873	437	5,612
State of Nevada	16	30	4	50	13,168	6,723	942	20,833

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 8 hospitalizations associated with influenza reported to the state health authority for week 20.

Table 3

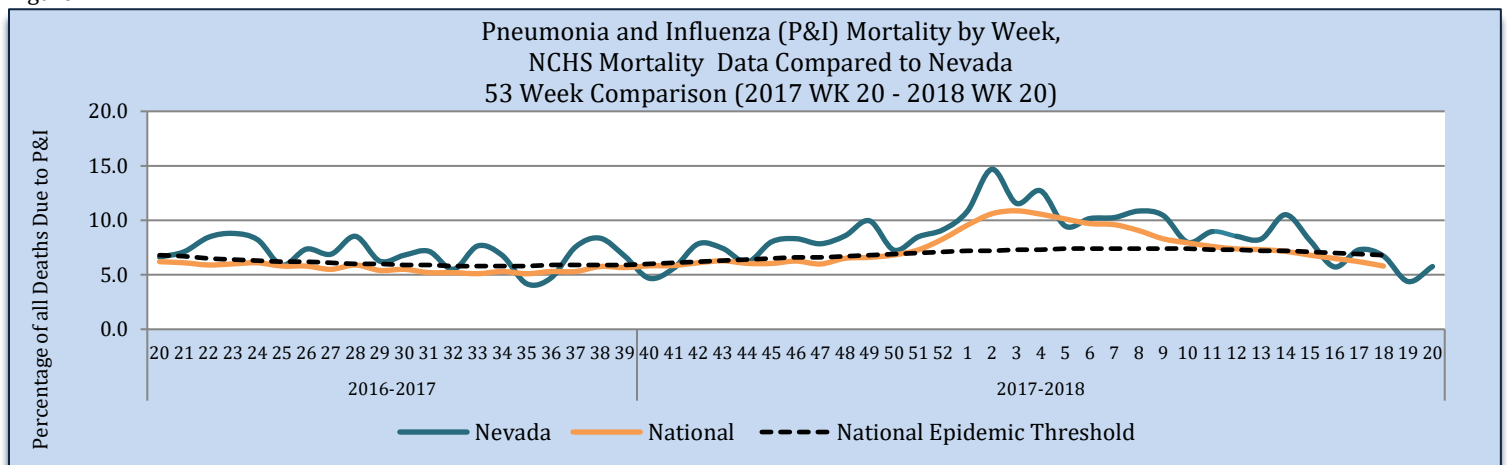
Reporting Jurisdiction	Influenza Hospitalizations		Cumulative Influenza Season	
	Current Week (Week 20)		#	%
Carson City Health and Human Services	1	12.5	158	9.2
Rural Community Health Services	0	0	45	2.6
Southern Nevada Health District	4	50.0	973	56.7
Washoe County Health District	3	37.5	541	31.5
State of Nevada	8	100	1,717	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 May 30<sup>th</sup>, there were 20 P&I deaths and 347 total deaths for week 20 in Nevada. Please note that the CDC does not have updated P&I counts for week 19 or week 20.

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

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### Recommended Citation:

Department of Health and Human Services. Office of Analytics. Influenza Weekly Report, 2017 Week 20 (May 14, 2017) through 2018 Week 20 (May 19, 2018), Nevada. May 2018 i 10 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.

