

Influenza Weekly Report

2017 Week 13 (March 26 – April 1, 2017) through 2018 Week 13 (March 25 – March 31, 2018)

Department of Health and Human Services
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.

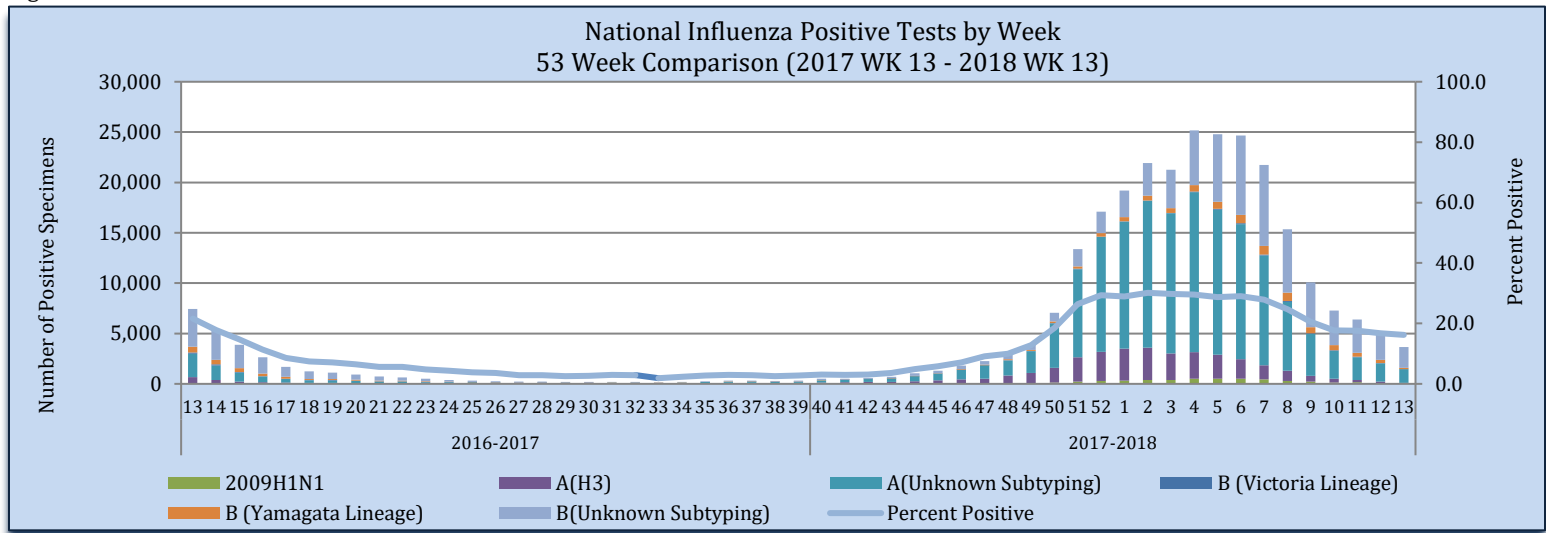
Purpose

The purpose of this report is to provide an overview of 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 13, there were 22,598 specimens collected and tested for influenza, of those 3,670 were positive (16.2%).

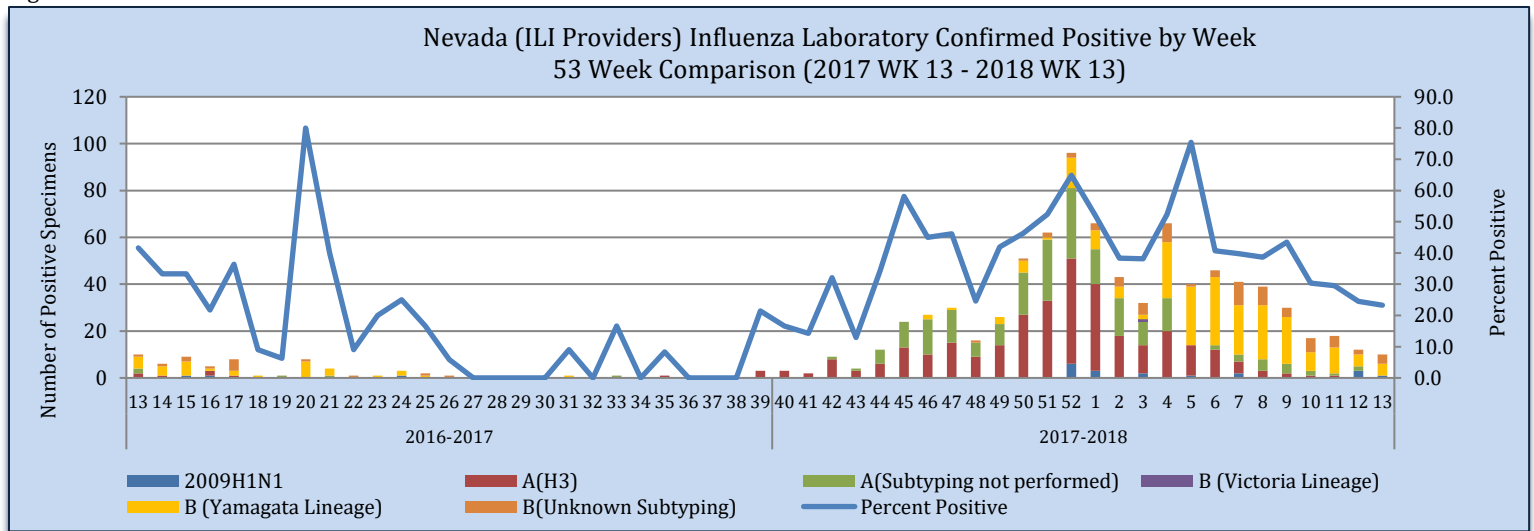
Figure 1



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 13, where there were 43 specimens collected, in which 10 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 614 specimens for influenza from sentinel providers, of which there have been 529 positive (86.2%). Southern Nevada Public Health Laboratory (SNPHL) has tested 99 specimens this season of which there have been 7 positive. Nationally, there have been 1,159,851 specimens sent to the WHO and NERVSS laboratories of which 259,772 have been positive (22.4%). 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.

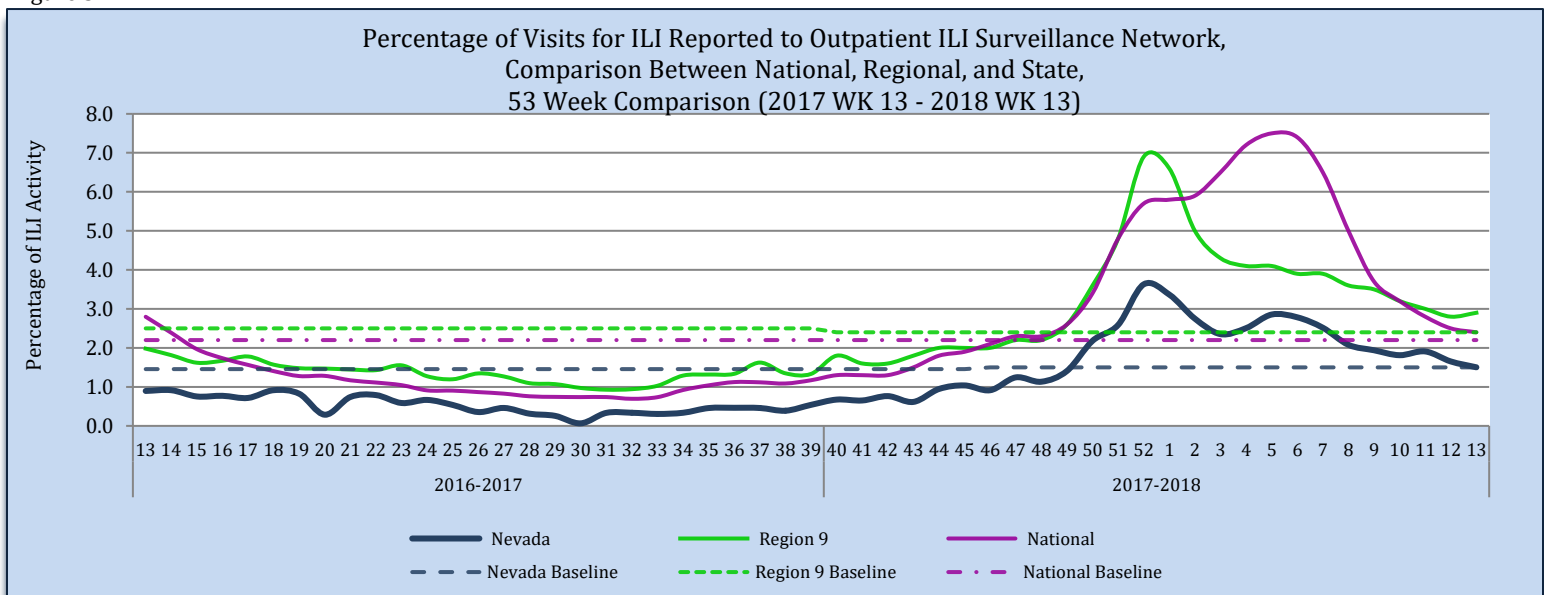
Table 1

Influenza Specimens Tested State and Nationally through Sentinel Providers											
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 13)		State of Nevada (Season)		National (Week 13)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	614	99	1,187	43	-	1,900	-	22,598		1,159,851	
Influenza Positives	529	7	290	10	23.3	826	43.5	3,670	16.2	259,772	22.4
Influenza A:	321	4	220	1	10.0	545	66.0	1,449	39.5	183,030	70.5
A (2009 H1N1)	20	1	1	1	100	22	4.0	41	2.8	4,976	2.7
A (H3)	301	3	8	0	0.0	312	57.2	73	5.0	30,378	16.6
A (Sub-typing not performed)	0	0	211	0	0.0	211	38.7	1,335	92.1	147,676	80.7
Influenza B:	208	3	70	9	90.0	281	34.0	2,221	60.5	76,742	29.5
B (Victoria Lineage)	1	0	0	0	0.0	1	0.4	19	0.9	974	1.3
B (Yamagata Lineage)	207	0	4	5	55.6	211	75.1	113	5.1	8,297	10.8
B (Sub-typing not performed)	0	3	66	4	44.4	69	24.6	2,089	94.1	67,471	87.9

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 13 is 1.5% which is equal to the state baseline of 1.5%. Region 9 ILI percentage for week 13 is 2.9% which is 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 13 is 2.4% which is above the national baseline of 2.2%.

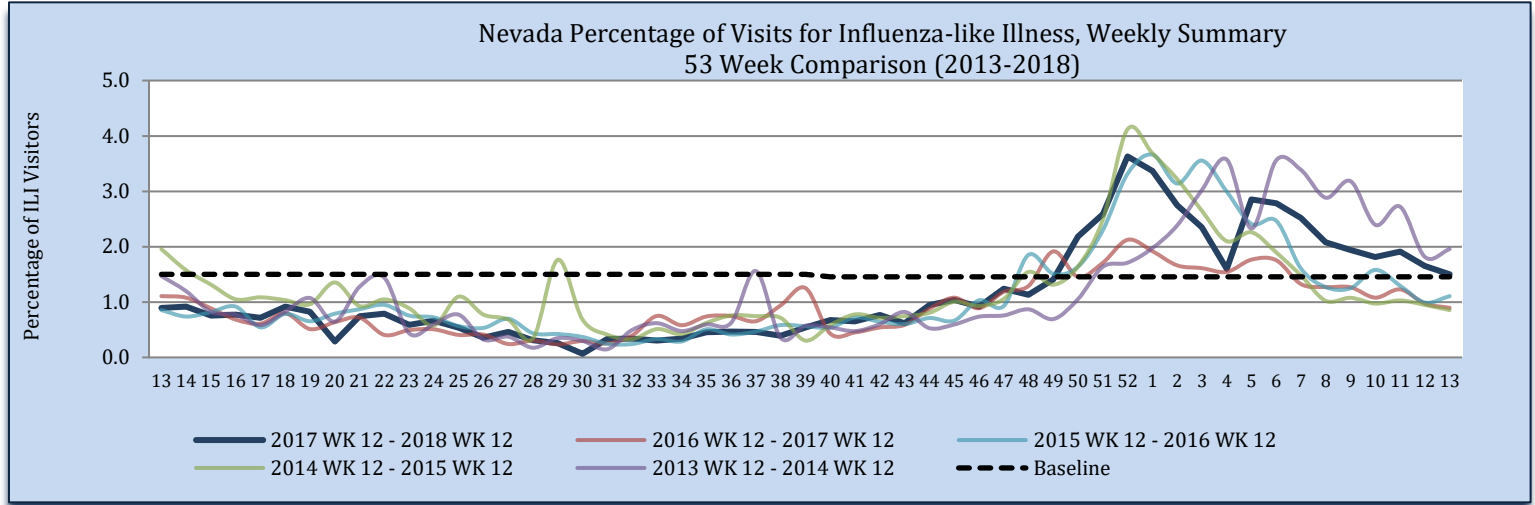
Figure 3



Source of Data: CDC: FluView Report and CDC: ILINet.

During week 13, 1.5% of visits to sentinel providers were due to ILI; this is greater than the 2016-2017 influenza season (0.9%). There were 9,453 patients seen by sentinel providers during week 13, of which 142 patients presented with ILI; week 13 of 2017, there were 163 patients seen with ILI (18,207 total patients seen). Data availability depends on sentinel provider reporting.

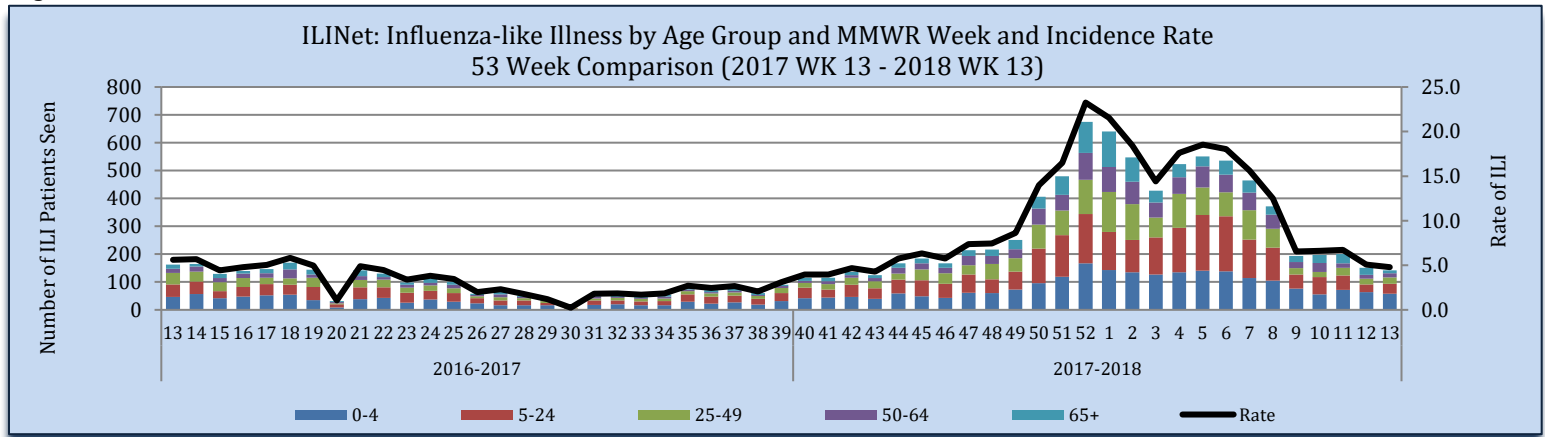
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 13, patients ages 0-4 were the greatest number of patients seen with ILI, at 58 patients seen. The rate for week 13 is 4.8 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)

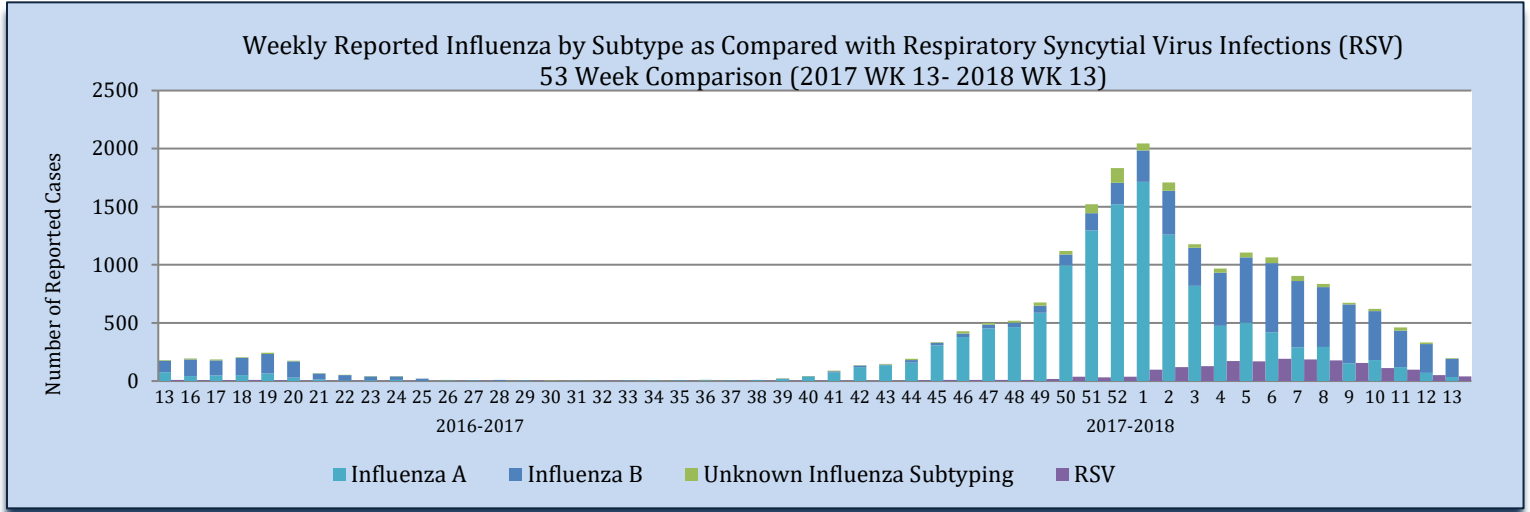
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 7 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 13, there were 288 influenza cases reported to the state, 64 influenza A, 210 influenza B and 14 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 13)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	4	12	3	19	1,295	670	85	2,050
Rural Community Health Services	7	26	0	33	1,077	931	30	2,038
Southern Nevada Health District	24	119	3	146	7,287	2,788	274	10,349
Washoe County Health District	29	53	8	90	3,255	1,726	406	5,387
State of Nevada	64	210	14	288	12,914	6,115	795	19,824

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 29 hospitalizations associated with influenza reported to the state health authority for week 13.

Table 3

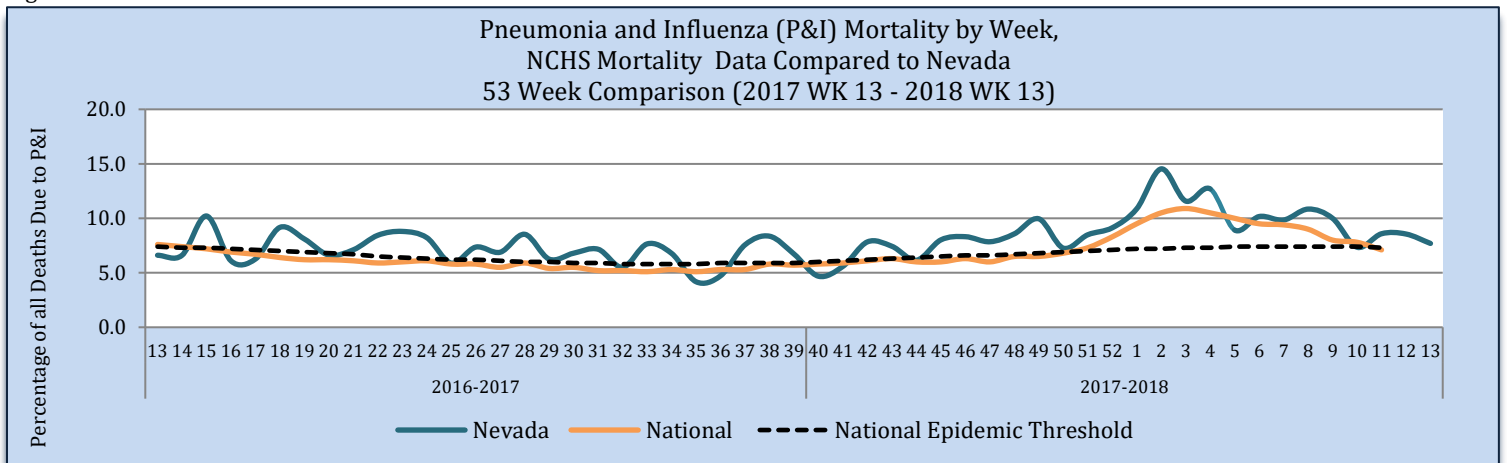
Influenza Hospitalizations				
Reporting Jurisdiction	Current Week (Week 13)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	2	6.9	149	9.2
Rural Community Health Services	0	0.0	44	2.7
Southern Nevada Health District	18	62.1	924	56.7
Washoe County Health District	9	31.0	512	31.4
State of Nevada	29	100	1,629	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 April 13th, there were 33 P&I deaths and 429 total deaths for week 13 in Nevada. Please note that the CDC does not have updated P&I counts for week 12 or week 13.

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

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