Influenza Weekly Report


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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 18, there were 11,455 specimens collected and tested for influenza, of those 807 were positive (7.0%).

**Figure 1**

![National Influenza Positive Tests by Week: 53 Week Comparison (2017 WK 18 - 2018 WK 18)](image)


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 18, where there were 12 specimens collected, in which 1 were positive. There is a two-week delay for laboratory surveillance. Data are subject to change as we receive additional reports.

**Figure 2**

![Nevada (ILI Providers) Influenza Laboratory Confirmed Positive by Week: 53 Week Comparison (2017 WK 18 - 2018 WK 18)](image)

*Source of Data: CDC: ILINet.*
Nevada State Public Health Laboratory (NSPHL) has tested 634 specimens for influenza from sentinel providers, of which there have been 541 positive (85.3%). Southern Nevada Public Health Laboratory (SNPHL) has tested 112 specimens this season of which there have been 7 positive. Nationally, there have been 1,273,474 specimens sent to the WHO and NERVSS laboratories of which 274,775 have been positive (21.6%). 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

<table>
<thead>
<tr>
<th>Influenza Specimens Tested State and Nationally through Sentinel Providers</th>
<th>NSPHL</th>
<th>SNPHL</th>
<th>All Other Laboratories</th>
<th>State of Nevada (Week 18)</th>
<th>State of Nevada (Season)</th>
<th>National (Week 18)</th>
<th>National (Season)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimens Tested</td>
<td>634</td>
<td>112</td>
<td>1,273</td>
<td>12</td>
<td>-</td>
<td>2,019</td>
<td>-</td>
</tr>
<tr>
<td>Influenza Positives</td>
<td>541</td>
<td>7</td>
<td>296</td>
<td>1</td>
<td>8.3</td>
<td>844</td>
<td>41.8</td>
</tr>
</tbody>
</table>

Influenza A:
- A (2009 H1N1): 324 specimens tested, 4 positive (1.2%), 551 specimens tested, 65.3% positive, 280 specimens tested, 34.7% positive, 188,192 specimens tested, 68.5% positive.
- A (H3): 302 specimens tested, 3 positive (1.0%), 313 specimens tested, 56.8% positive, 31,488 specimens tested, 16.7% positive.
- A (Sub-typing not performed): 0 specimens tested, 0 positive.

Influenza B:
- B (Victoria Lineage): 1 specimen tested, 0 positive.
- B (Yamagata Lineage): 216 specimens tested, 4 positive (1.8%), 220 specimens tested, 75.1% positive, 10,094 specimens tested, 11.7% positive.
- B (Sub-typing not performed): 0 specimens tested, 3 positive.

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 18 is 0.7% which is below the state baseline of 1.5%. Region 9 ILI percentage for week 18 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 18 is 1.5% which is below the national baseline of 2.2%.

During week 18, 0.7% of visits to sentinel providers were due to ILI; this is lower than the 2016-2017 influenza season (0.9%). There were 8,957 patients seen by sentinel providers during week 18, of which 67 patients presented with ILI; week 18 of 2017, there were 169 patients seen with ILI (18,459 total patients seen). Data availability depends on sentinel provider reporting.
Influenza-like Illness is reported by age groups. During week 18, patients ages 5-24 were the greatest number of patients seen with ILI, at 27 patients seen. The rate for week 18 is 2.3 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 2018 is 2,969,849.

## 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 18, there were 97 influenza cases reported to the state, 30 influenza A, 62 influenza B and 5 unknown subtyping.

### Table 2

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Reported Influenza Cases by County Jurisdiction and Influenza Type</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current Week (Week 18)</td>
<td></td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td>A 7 B 15 Unknown 0 Total 22</td>
<td>A 1,322 B 754 Unknown 87 Total 2,163</td>
</tr>
<tr>
<td>Rural Community Health Services</td>
<td>2 0 0 2 Total 1088</td>
<td>2 942 Unknown 30 Total 2,060</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>16 22 3 41 Total 7,423</td>
<td>3095 386 Total 10,904</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>5 25 2 32 Total 3,298</td>
<td>1,856 431 Total 5,585</td>
</tr>
<tr>
<td>State of Nevada</td>
<td>30 62 5 97 Total 13,131</td>
<td>6,647 934 Total 20,712</td>
</tr>
</tbody>
</table>

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

There were 4 hospitalizations associated with influenza reported to the state health authority for week 18.

### Table 3

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Current Week (Week 18)</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carson City Health and Human Services</td>
<td>0</td>
<td>155</td>
</tr>
<tr>
<td>Rural Community Health Services</td>
<td>0</td>
<td>45</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>3</td>
<td>966</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>1</td>
<td>536</td>
</tr>
<tr>
<td>State of Nevada</td>
<td>4</td>
<td>1,702</td>
</tr>
</tbody>
</table>

*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 14th, there were 22 P&I deaths and 333 total deaths for week 18 in Nevada. Please note that the CDC does not have updated P&I counts for week 17 or week 18.

*Source: OVR: WEVRRS and CDC: FluView.*
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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 subtyping 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

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

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