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.

**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 46, there were 11,823 specimens collected and tested for influenza, of those 1,115 were positive (9.4%).

![Figure 1: National Influenza Positive Tests by Week](image)


The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 46, there were 14 specimens collected for influenza of which 2 were positive (14.3%).

![Figure 2: Nevada (ILI Providers) Influenza Laboratory Confirmed Positive by Week](image)

*Source of Data: CDC: ILINet.*
Nevada State Public Health Laboratory (NSPHL) has tested 17 specimens for influenza from sentinel providers, 3 of which have been positive (17.6%). Southern Nevada Public Health Laboratory (SNPHL) has tested 105 specimens this season of which 3 were positive. Nationally, there have been 74,462 specimens sent to the WHO and NERVSS laboratories with 4,380 positive or 6.0%. 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 including out of state laboratories.

| ILINet Surveillance: Influenza Specimens Tested State and Nationally |
|-------------------|-----------------|-----------------|------------------|-----------------|-----------------|
| Specimens Tested  | NSPHL | SNPHL | State of Nevada (Week 46) | State of Nevada (Season) | National (Week 46) | National (Season) |
|                   | #     | %    | #    | %    | #    | %    |
| Positives to Influenza | 17   | 105  | 14   | 125  | 11,823 | 74,462 |
|                    | 3     | 3    | 2    | 14.3 | 6    | 3.0   |

Influenza A:

- A(2009 H1N1): 2 Specimens Tested (2 of 100 or 2.0%)
- A(H3): 2 Specimens Tested (2 of 100 or 2.0%)
- A(Sub-typing not performed): 0 Specimens Tested (0 of 0.0%)

Influenza B: 1 Specimens Tested (1 of 0.0%)

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

Influenza-like Illness (ILI) Surveillance Network has each sentinel providers report the number of patients that meet the ILI case definition and number of patients that visit the provider weekly. The “percentage of visits” is the number of ILI patients divided by the total number of patients visit per week. Nevada’s ILI percentage of visits to providers for week 46 is 1.1% and is below the state baseline 1.4. Region 9 ILI percentage for week 46 is 2.0% and includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 46 is 1.6% and is below the national baseline 2.0.

Figure 3

During week 46, 1.1% of visits to sentinel providers were due to ILI; this is an increase of 0.1% from the 2013-2014 influenza season.
Influenza-like Illness is reported by age groups, during week 46, patients age 0-4 were the greatest number of patients seen with ILI. The rate for week 46 is 6.1 per 100,000. The rate is calculated by the number of patients presented with ILI divided by the state population multiplied by 100,000.

Influenza-weekly report

BioSense

The BioSense application is a monitoring system of the CDC’s National Syndromic Surveillance Program that aims to increase the ability of state health authorities to track and respond to harmful health efforts of exposure to disease or hazardous conditions. During week 46, 44 patients were seen with ILI through BioSense, 0.3% of the total patients seen.

Table 2

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Current Week (Week 46)</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carson City Health and Human Services</td>
<td>16 36.4 78 18.5</td>
<td></td>
</tr>
<tr>
<td>Community Health Nursing</td>
<td>0 0.0 3 0.7</td>
<td></td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>12 27.3 227 53.8</td>
<td></td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>16 36.4 114 27.0</td>
<td></td>
</tr>
<tr>
<td>State of Nevada</td>
<td>44 100.0 422 100</td>
<td></td>
</tr>
</tbody>
</table>

Source of Data: CDC: ILINet.
Influenza-like Illness monitored through BioSense had the highest patient visits with ILI in the 25-49 age groups, which is different from the ILINet surveillance (age group 0-4). The total patient seen with ILI decreased from week 45, from 62 patients to 44 patients during week 46.

Figure 6

Influenza Positive Surveillance (NBS and NETSS)

Positive cases of influenza are reported to the state health authority for surveillance purposes. Figure 6 and Table 2 reflects 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 46, there were 20 influenza cases reported to the state, 18 influenza A and 2 influenza B cases.

Figure 7
Table 3

<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 46)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H1N1 A B Unknown Total</td>
<td>H1N1 A B Unknown Total</td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td>0 0 0 0 0 3</td>
<td>0 2 1 0 3</td>
</tr>
<tr>
<td>Community Health Nursing</td>
<td>0 0 0 0 0 3</td>
<td>0 1 2 0 3</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>0 16 2 0 18</td>
<td>0 41 8 1 50</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>0 2 0 0 2</td>
<td>0 6 13 0 19</td>
</tr>
<tr>
<td>State of Nevada</td>
<td>0 18 2 0 8</td>
<td>0 50 24 1 75</td>
</tr>
</tbody>
</table>

Source: OPHIE: NBS and SNHD: NETSS.

Nevada State Public Health Laboratory (NSPHL) submits all influenza laboratory tests to OPHIE regardless of outcome. The percent positive is the total influenza positive influenza tests divided by the total influenza laboratory tests completed. For the current influenza season the percent positive is 20%. Only 12 tests have been submitted to OPHIE with two positive.

Figure 8

Source: Reported to the Office of Public Health Informatics and Epidemiology from Nevada State Public Health Laboratory.

Hospitalizations

There have been 5 hospitalizations associated with influenza reported to the state health authority during week 46.

Table 4

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Influenza Hospitalizations</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current Week (Week 46)</td>
<td></td>
</tr>
<tr>
<td></td>
<td># %</td>
<td># %</td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td>0 0.0</td>
<td>0 0.0</td>
</tr>
<tr>
<td>Community Health Nursing</td>
<td>0 0.0</td>
<td>0 0.0</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>5 100</td>
<td>12 92.3</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>0 0</td>
<td>1 7.7</td>
</tr>
<tr>
<td>State of Nevada</td>
<td>5 100</td>
<td>13 100</td>
</tr>
</tbody>
</table>

Source: Reported to Office of Public Health Informatics and Epidemiology from each Jurisdiction.

Pneumonia and Influenza (P&I) Mortality Surveillance

The Pneumonia and Influenza (P&I) mortality percentage is the 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. During week 46, there are 13 deaths associated with P&I, as of November 24, which is below the national epidemic threshold at 3.2% (threshold at 6.4%). Nationally, the P&I mortality is below the national epidemic threshold at 5.0%.
Figure 9

Pneumonia and Influenza (P&I) Mortality by Week, 122 U.S. Cities Compared to Nevada 53 Week Comparison (2013 WK 46-2014 WK 46)

Source: OVR: WEVRRS and CDC: FluView.
**Technical Notes**

- 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**


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

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