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 (NRVSS) collaborating laboratories by sub-type. During week 48, there were 12,296 specimens collected and tested for influenza, of those 221 were positive (1.8%).

Figure 1

![National Influenza Positive Tests by Week: 54 Week Comparison (2014 WK 48 - 2015 WK 48)](image)

**Source of Data:** CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 48, there were 23 specimen collected and tested for influenza of which 2 were positive (8.7%).

Figure 2

![Nevada (ILI Providers) Influenza Laboratory Confirmed Positive by Week: 54 Week Comparison (2014 WK 48 - 2015 WK 48)](image)

**Source of Data:** CDC: ILINet.
Nevada State Public Health Laboratory (NSPHL) has tested 27 specimens for influenza from sentinel providers, of which there have been 2 positive (7.4%). Southern Nevada Public Health Laboratory (SNPHL) has tested 68 specimens this season of which there have been no positives. Nationally, there have been 127,376 specimens sent to the WHO and NERVSS laboratories of which 1,974 have been positive or 1.5%. The national numbers in Table 1 are reflected in Figure 2. 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.

### Table 1

<table>
<thead>
<tr>
<th>IILINet Surveillance: Influenza Specimens Tested State and Nationally</th>
<th>NSPHL</th>
<th>SNPHL</th>
<th>State of Nevada (Week 48)</th>
<th>State of Nevada (Season)</th>
<th>National (Week 48)</th>
<th>National (Season)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimens Tested</td>
<td>27</td>
<td>68</td>
<td>23</td>
<td>188</td>
<td>12,296</td>
<td>127,376</td>
</tr>
<tr>
<td>Positives to Influenza A</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>8.7</td>
<td>7</td>
<td>3.7</td>
</tr>
<tr>
<td>Positives to Influenza B</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>100</td>
<td>2</td>
<td>40.0</td>
</tr>
</tbody>
</table>

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

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 48 is 1.5% and is at the state baseline 1.5%. Region 9 ILI percentage for week 48 is 1.2% and is below the region baseline 2.6%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 48 is 1.8% and is below the national baseline 2.1%.

### Figure 3

Percentage of Visits for ILI Reported to Outpatient ILI Surveillance Network, Comparison Between National, Regional, and State, 54 Week Comparison (2014 WK 48 - 2015 WK 48)

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

During week 48, 1.5% of visits to sentinel providers were due to ILI; this is lower than the 2014-2015 influenza season (1.9%). There were 8,895 patients seen by ILI providers during week 48, of which 130 patients presented with ILI; week 48 of 2014, there were 271 patients seen with ILI (14,635 total patients seen). There was no week 53 in the previous influenza seasons displayed below; therefore the week 53 data point for those seasons is an average of week 52 and 1.
Influenza Weekly Report

**Figure 4**

Nevada Percentage of Visits for Influenza-like Illness, Weekly Summary
54 Week Comparison (2009-2015)

![Graph showing percentage of visits for influenza-like illness in Nevada from 2009 to 2015.](image)

Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups, during week 48, patients age 0-4 were the greatest number of patients seen with ILI, at 53 patients seen. The rate for week 48 is 4.6 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 2015 is 2,855,061.

**Figure 5**

ILINet: Influenza-like Illness by Age Group and MMWR Week and the Incidence Rate
54 Week Comparison (2014 WK 48 - 2015 WK 48)

![Graph showing incidence rate of influenza-like illness by week from 2014 to 2015.](image)

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 6 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 48, there were 9 influenza cases reported to the state, 7 influenza A and 1 influenza B case.

**Table 2**

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Reported Influenza Cases by County Jurisdiction and Influenza Type</th>
<th>Current Week (Week 48)</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H1N1</td>
<td>A</td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td></td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Rural Community Health Services</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td></td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td></td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>State of Nevada</td>
<td></td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Source: OPHIE: NBS and SNHD: NETSS.
Influenza Weekly Report

Figure 6

Weekly Reported Influenza by Subtype as Compared with Respiratory Syncytial Virus Infections (RSV)
54 Week Comparison (2014 WK 48 - 2015 WK 48)

Source: OPHIE: NBS and SNHD: NETSS.

Hospitalizations

There were 5 hospitalization associated with influenza reported to the state health authority for week 48.

Table 3

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Influenza Hospitalizations</th>
<th>Current Week (Week 48)</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carson City Health and Human Services</td>
<td></td>
<td>#</td>
<td>#</td>
</tr>
<tr>
<td>Rural Community Health Services</td>
<td></td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td></td>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>State of Nevada</td>
<td></td>
<td>5</td>
<td>20</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. As of December 11, there were 14 P&I deaths and 387 total deaths for week 48. The P&I mortality percent is below the threshold at 3.6% (threshold 6.6%). Nationally, the P&I mortality is below the national epidemic threshold at 6.1% for week 48.

Figure 7

Pneumonia and Influenza (P&I) Mortality by Week,
122 U.S. Cities Compared to Nevada
54 Week Comparison (2014 WK 48- 2015 WK 48)

Source: OVR: WEVRSS 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 transmit 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:

NEVADA INFuenza SURVEILLANCE PROGRAM
OFFICE OF Public HEALTH INFORMATICS and EPIDemiology
4126 TECHNOLOGY WAY, STe 200
CARSON CITY NV 89706
TEL: (775) 684-5897
FAX: (775) 684-5999

Compiled and Written by:

JEN THOMPSON

Recommended Citation:


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.