

# 2009-2010 Influenza Season

(August 30, 2009 – present)

## Utah Public Health

### Situation Report

12/16/09

Updated Wednesdays at: <http://health.utah.gov/epi/h1n1flu/>



#### Utah Summary:

**Note:** Data in the Utah Summary section of this report is from Sunday to Saturday (MMWR Week 49), December 6, 2009 to December 12, 2009.

#### Circulation:

- The indicator used by public health to measure the circulation of influenza in the community is influenza-like illness (ILI) as reported by sentinel clinics. (An ILI sentinel clinic is a clinic that reports to public health the percentage of patient visits seen for influenza-like illnesses).
- Influenza is currently circulating at a level that is typical for what is seen during regular flu seasons, but is slightly higher than what is usually expected for this time of the year. ILI activity in the Utah has decreased for the seventh consecutive week, but is still above the statewide epidemic threshold of 1.1%.
- For the past week (MMWR Week 49), the ILI rate for Utah is 1.6% down from 1.8% last week).
  - This value is above the ILI outbreak threshold of 1.1%.
  - ILI is down for the seventh consecutive week.

#### Severity:

- The severity of an influenza outbreak (epidemic or pandemic) is measured by the number of influenza infections that result in hospitalization or death.
- Thus far for the 2009-2010 influenza season, the total number of influenza infections and hospitalizations associated with influenza have substantially exceeded the total expected for an entire influenza season.
- At this time there is no evidence that severity for the 2009 H1N1 Pandemic is changing, meaning that the ratio of infections resulting in hospitalization or death has been relatively constant since the beginning of the Pandemic.
- A total of **857** influenza-associated hospitalizations (IAHs) (due to both seasonal and 2009 pandemic (H1N1) strains) have been reported to public health this influenza season. This is **16** more than reported last week (last week's total IAHs was **841**). Of the **16** IAHs reported this week, **9** occurred within this last reporting week (12/06/09 to 12/12/09), and **7** occurred prior to that but were not reported to public health until this week. In some instances reporting lag times exist from the time the hospitalization occurs to when it is reported to public health.

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#### 2009 Pandemic A (H1N1) deaths:

- The severity measure listed above is for influenza caused by all strains (regular seasonal flu and the 2009 Pandemic A (H1N1)). In addition, Utah is collecting data on patient deaths (whether hospitalized or not) known to have been related to the 2009 Pandemic A (H1N1) strain.
- A total of **25** deaths related to 2009 Pandemic A (H1N1) have been reported to public health this influenza season. This is **one** more than reported last week. The death reported this week occurred within the last reporting week (11/29/09 to 12/05/09). For more information regarding these deaths, please refer to the Local Health District.
- Deaths not previously reported:
  - 1 in Southwest Utah Health District
    - 1 female, age 50-64 (died within the last reporting week)

#### Circulating strains:

Laboratory data reported from 12/06/09 to 12/12/09 shows that 40 total specimens were submitted to Utah Public Health Laboratory (UPHL) for influenza testing. Of the 40 specimens, 4 tested positive for influenza A, all of which were 2009 Pandemic A (H1N1) influenza.

- Influenza A:
  - 100% 2009 Pandemic Influenza A (H1N1)
  - 0% seasonal A (H1)
  - 0% seasonal A (H3)
- 0% Influenza B

### National/International Surveillance Summary

**Note:** Data in the National/International Surveillance Summary section of this report is from Sunday to Saturday (MMWR Week 48), November 29, 2009 to December 5, 2009.

- While influenza activity continues to decrease in the U.S., national ILI levels are still above national baseline levels and are higher than what is expected during this time of year.
- During the past week, widespread influenza activity was reported in 14 states, with regional influenza activity being reported in 25 states (see map).
- Nationally, the proportion of deaths attributed to pneumonia and influenza (P&I) during the past week was 7.8%, which is above the epidemic threshold for this time of year (7.1%). P&I mortality has been above the epidemic threshold for ten consecutive weeks.

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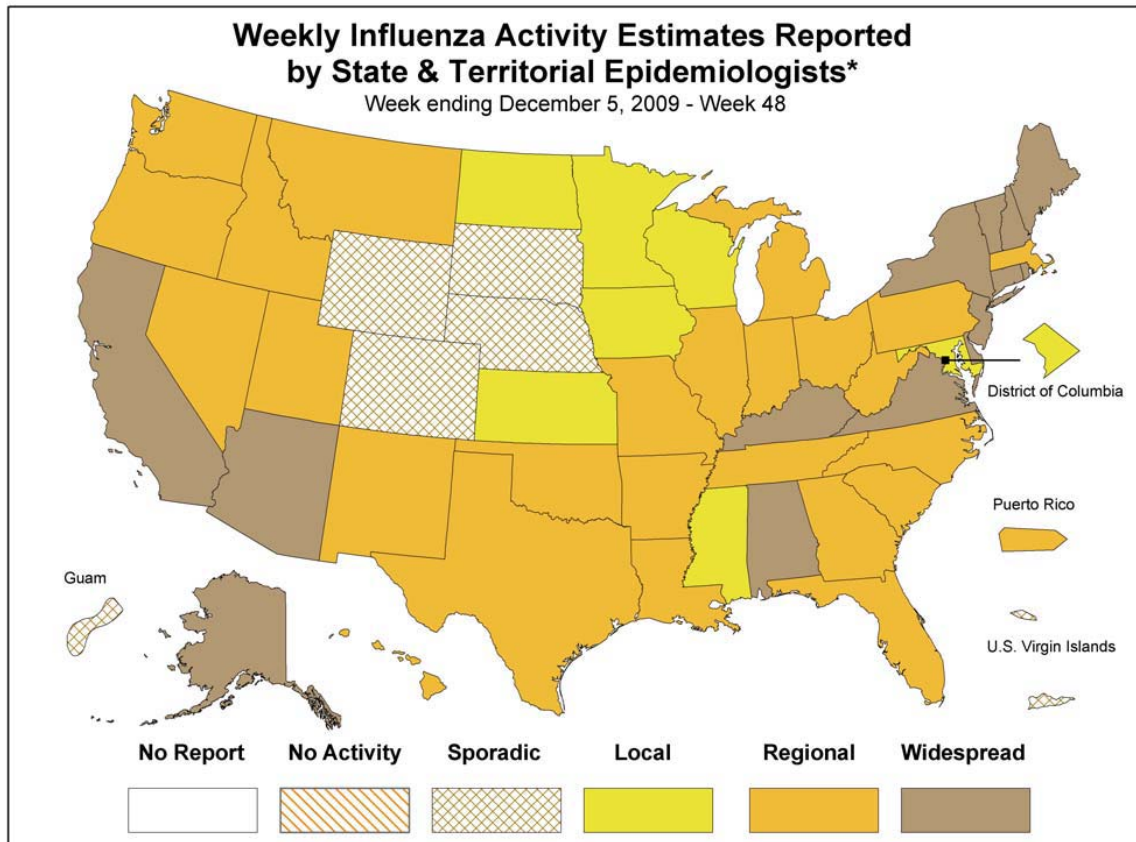
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\* This map indicates geographic spread & does not measure the severity of influenza activity

### Viral circulation and resistance:

Data in this section comes from the CDC and is collected nationally:

- 98.5% of all influenza isolates typed at national reference labs this week were Influenza A:
  - 98.6% of subtyped isolates were 2009 Pandemic A (H1N1)
  - 0.3% were seasonal A (H1)
  - 0.0% were seasonal A (H3)
  - 1.1% of isolates were unable to be subtyped
- 1.5% were Influenza B
- The majority of influenza viruses currently circulating in the U.S. are 2009 Pandemic Influenza A (H1N1)

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This antiviral susceptibility profile is compiled by CDC and represents strains identified since September 1, 2009. The results of antiviral resistance testing performed are summarized in the table below.

	Samples tested	% resistant to Oseltamivir	Samples tested	% resistant to Zanamivir	Samples tested	% resistant to Adamantanes
2009 Pandemic A (H1N1)	2,043	0.8%	559	0%	452	99.8%
Seasonal A (H1N1)	2	50%	0	0	1	0
Seasonal A (H3N2)	5	0	0	0	3	100%
Influenza B	1	0	0	0	NA	NA

#### 2009 Pandemic Influenza A (H1N1) Vaccine Information:

- Utah will receive a total of 174,300 doses of the 2009 Pandemic A H1N1 vaccine in this weeks order. That will make a total of 875,100 doses of the 2009 Pandemic A H1N1 vaccine received so far this season for Utah.
- Utah health care providers reported having administered 371,532 doses of H1N1 vaccine, as of Wednesday, December 9, 2009.
- 2009 Pandemic A H1N1 vaccine continues to arrive in weekly shipments. Check with your Local Health Department or designated health care provider to receive the vaccine. For a listing of local health department websites visit <http://www.ualhd.org/Department/Department.htm>.
- Non-Safety Related Voluntary Recall of Certain Lots of Sanofi Pasteur H1N1 Pediatric (0.25 mL, for 6-35 month olds) Vaccine in Pre-Filled Syringes
  - As part of its quality assurance program, Sanofi Pasteur, Inc., performs additional routine, ongoing testing of influenza vaccines after the vaccine has been distributed to health care providers to ensure that vaccines continue to meet required specifications.
  - In recent testing of the amount of antigen in its influenza A (H1N1) monovalent vaccine, Sanofi Pasteur found four distributed lots of single-dose, pre-filled syringe pediatric (0.25 mL.) vaccine with antigen content lower than required potency levels. The manufacturer is conducting a non-safety related voluntary recall of these affected lots of vaccine. Visit [http://www.cdc.gov/h1n1flu/vaccination/syringes\\_ga.htm](http://www.cdc.gov/h1n1flu/vaccination/syringes_ga.htm) for more information.
  - Utah received 2,800 doses of the affected vaccine. Sanofi Pasteur will be contacting the providers who received direct shipments to make

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arrangements for returning the unused vaccine. Providers have been instructed to discontinue use of any affected vaccine they have in stock. CDC is not recommending revaccination of any children who received this vaccine.

#### Guidance:

New CDC guidance available at: <http://www.cdc.gov/h1n1flu/whatsnew.htm>

- Update: H1N1 Flu (Swine Flu): Resources for Obstetric Health Care Providers. This update provides a quick overview of what pregnant women need to know about 2009 H1N1 flu. The materials found at [http://www.cdc.gov/h1n1flu/clinician\\_pregnant.htm](http://www.cdc.gov/h1n1flu/clinician_pregnant.htm) can be downloaded for use in doctor's offices or by individuals (posted Monday, December 14, 2009).

#### Pre-Hospital Influenza A (H1N1) Data:

- The UDOH daily receives data from Emergency Medical Services (EMS) providers in the State. Included in the data are primary patient symptoms, primary impressions of paramedics and medical technicians of the patients, and other surveillance indicators for flu-like illness. This week, rates for pre-hospital influenza-like illness symptoms, impressions and indicators have decreased since last week. The overall trend for the past few weeks continues to be a decrease in these factors.

#### Hospital Data:

- More beds available - Utah hospitals reported a statewide total of 1974 available, staffed hospital beds. This is 170 more than last week, with 100% of hospitals reporting (50). There are a total of 5,840 licensed hospital beds in the state.
- Ventilator availability is increasing steadily - Utah hospitals reported that 456 staffed ventilators were available this week. This is 28 more than the previous week. Also, 369 pediatric capable ventilators were reported as available this week. This is 9 more than the previous week.
- Fewer children on rescue therapies such as ventilators - Hospitals reported a nearly 50% decrease in patients on \*rescue therapies, such as ventilators and ECMO, bypass, etc. Twenty three patients were reported this week as compared to 46 last week. Most of the decrease was in patients 12 and younger, a drop from 24 last week to 6 this week. Fifty is the highest number reported since reporting began on October 7, 2009.

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\*All causes for rescue therapies included, not just influenza like illness.

#### In the News:

- Many stories continue to run in local and statewide newspapers and television stations regarding the H1N1 flu and vaccine. No major rumors or incorrect information has been detected this week in local and statewide newspapers and television outlets.