



# Epidemiology and Response Division

## NEW MEXICO INFLUENZA SURVEILLANCE UPDATE 2008-2009 Influenza Season

Week Ending	Activity Level
1/31/09 (MMWR 4)	Local

NMDOH reported the state influenza activity as “**Local**” to the Centers for Disease Control and Prevention (CDC) for week ending January 31st, the most recent week that data are available (see table on page 3 for definitions). As of February 6th, the Scientific Lab Division (SLD) has received 296 culture specimens since the beginning of the season. Thirty-eight (12.8%) specimens have been culture-positive: 38 type A (30-H1, 2-H3 and 4 pending subtyping) and two type B (one Yamagata Lineage and one Victoria lineage).

### Summary of Influenza Surveillance in NM for Week Ending 1/31/09<sup>1</sup>:

Twenty-five of the 26 sentinel provider sites reporting:

- total of 7,787 patient visits seen for any reason,
- 123 (1.6%) were positive for influenza-like illness (ILI)<sup>2</sup>, and
- previous week (ending January 24th) reported 1.6% influenza-like illness.

### Summary of Sentinel Laboratory Influenza Testing in NM:

Period of 2008-2009 Influenza Season	Number of Tests Performed**	Positive Type A (n,%)	Positive Type B (n,%)	Positive Type Unknown <sup>3</sup> (n,%)	Total Positive All Types (n,%)
Week ending 1/31/09 (28 of 32 labs reporting)	590	57 (9.7%)	7 (1.2%)	0 (0.0%)	64 (10.9%)
Cumulative as of 9/28/08	4476	200 (4.5%)	39 (0.9%)	8 (0.2%)	247 (5.5%)

\*\*Includes rapid antigen and immunofluorescence testing (i.e., direct fluorescent antibody staining)

Note: The sensitivity and specificity of point of care rapid diagnostic tests vary during times when influenza is not circulating widely. The NM Influenza Surveillance Program expects some false positive rapid diagnostic results outside the time of peak influenza activity (i.e., beginning and end of season). The first NM laboratory confirmed case of the influenza season is based on a positive **viral culture** result.

### Influenza-Related Pediatric Mortality:

One influenza-associated pediatric death (New York City) was reported to CDC. It occurred in the week ending 1/24/09. A total of three pediatric deaths have been reported to CDC in this season.

### Influenza Activity, Mountain Region and Bordering States, Week Ending 1/31/09:

State	Activity Level	State	Activity Level
Montana	Regional	Arizona	Regional
Idaho	Sporadic	Utah	Local
Wyoming	Local	Nevada	Regional
Colorado	Widespread	Texas	Widespread
New Mexico	Local	Oklahoma	Local

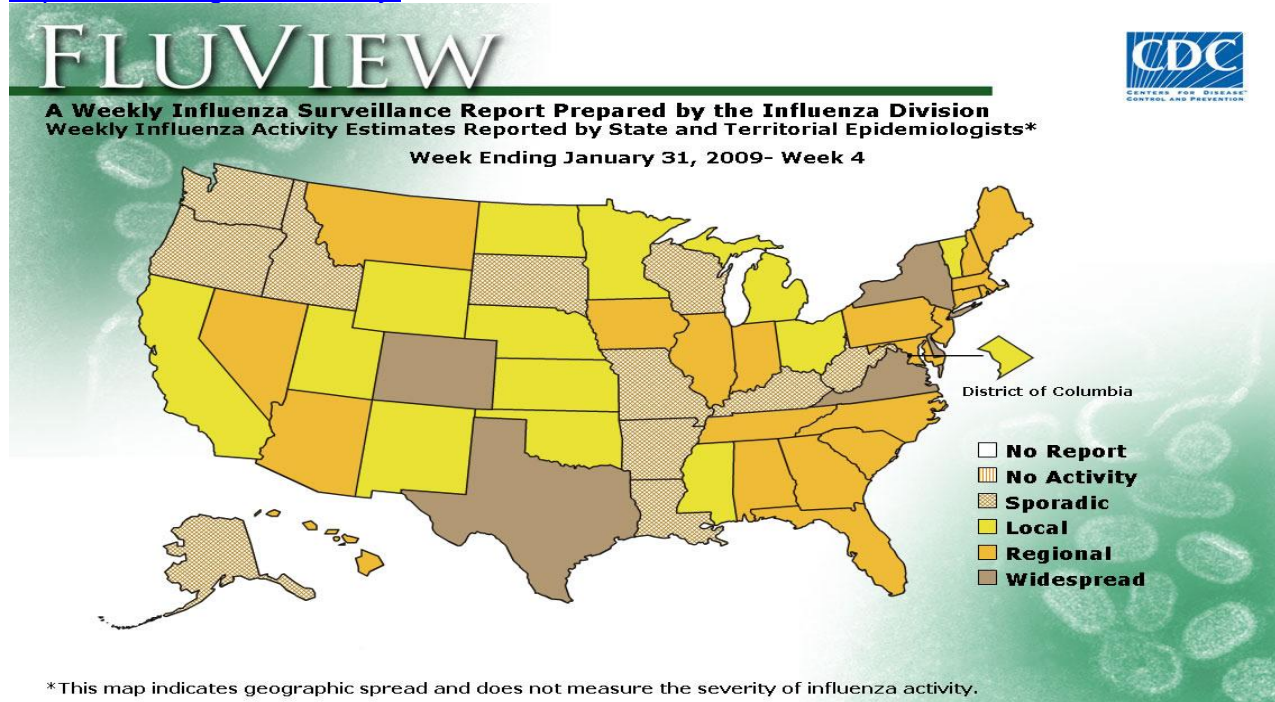
<sup>1</sup> Weekly ILI and lab data may change as additional reports are compiled.

<sup>2</sup> Influenza-like Activity (ILI) is defined as Fever ( $\geq 100^{\circ}\text{F}$  [ $37.8^{\circ}\text{C}$ ], oral or equivalent) AND cough and/or sore throat in absence of a KNOWN cause other than influenza.

<sup>3</sup> Some rapid influenza tests cannot differentiate between types A and B.

## National Flu Surveillance and Laboratory Activity, Week Ending 1/31/09:

**Flu Activity:** Nationwide, for the week ending 1/31/09, 2.3% of patient visits to U.S. sentinel providers were due to ILI, which is below the national baseline of 2.4%. Refer to map below for state by state reported activity. More information on national surveillance can be found at: <http://www.cdc.gov/flu/weekly/>.



### Laboratory Activity (National):

	Week 4	Cumulative for the Season
<b>No. of specimens tested</b>	4,895	81,842
<b>No. of positive specimens (%)</b>	792 (16.2%)	4,336 (5.3%)
<b>Positive specimens by type/subtype</b>		
<b>Influenza A</b>	673 (85.0%)	3,641 (84.0%)
<b>A (H1)</b>	151 (22.4%)	1,135 (31.2%)
<b>A (H3)</b>	20 (3.0%)	170 (4.7%)
<b>A (unsubtyped)</b>	502 (74.6%)	2,336 (64.2%)
<b>Influenza B</b>	119 (15.0%)	695 (16.0%)

**Antigenic Characterization Testing (National):** Since October 1, 2008, all influenza A (H1N1) virus strains have been characterized as A/Brisbane/59/2007-like and all influenza A (H3N2) viruses have been characterized as A/Brisbane/10/2007-like, the influenza A (H1N1) and influenza A (H3N2) components included in the 2008-09 influenza vaccine. Evaluation of the influenza B viruses has revealed 23 out of 78 (29.5%) isolates are of the Yamagata lineage, the B component of the 2008-09 vaccine. The remaining 55 (70.5%) viruses belong to the B/Victoria lineage and are not related to the influenza B vaccine strain.

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This information is collected by the Influenza Sentinel Surveillance Program, Infectious Disease Epidemiology Bureau, Epidemiology Response Division, NMDOH.

For questions, please call 505-827-0006.

For more information on influenza go to the NMDOH web page: <http://www.health.state.nm.us/flu/> or the CDC web page: <http://www.cdc.gov/ncidod/diseases/flu/fluvirus.htm>

**Table: Influenza Activity Levels**

Activity Level	ILI activity*/Outbreaks		Laboratory data
<b>No activity</b>	Low	<b>And</b>	No lab confirmed cases <sup>†</sup>
<b>Sporadic</b>	Not increased	<b>And</b>	Isolated lab-confirmed cases
	<b>OR</b>		
<b>Local</b>	Not increased	<b>And</b>	Lab confirmed outbreak in one institution <sup>‡</sup>
	Increased ILI in 1 region**; ILI activity in other regions is not increased	<b>And</b>	Recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI
<b>Local</b>	<b>OR</b>		
	2 or more institutional outbreaks (ILI or lab confirmed) in 1 region; ILI activity in other regions is not increased	<b>And</b>	Recent (within the past 3 weeks) lab evidence of influenza in region with the outbreaks; virus activity is no greater than sporadic in other regions
<b>Regional</b> (doesn't apply to states with ≤4 regions)	Increased ILI in ≥2 but less than half of the regions	<b>And</b>	Recent (within the past 3 weeks) lab confirmed influenza in the affected regions
	<b>OR</b>		
<b>Regional</b> (doesn't apply to states with ≤4 regions)	Institutional outbreaks (ILI or lab confirmed) in ≥2 and less than half of the regions	<b>And</b>	Recent (within the past 3 weeks) lab confirmed influenza in the affected regions
	<b>OR</b>		
<b>Widespread</b>	Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least half of the regions	<b>And</b>	Recent (within the past 3 weeks) lab confirmed influenza in the state.

\*Influenza-like illness: Fever (≥ 100°F [37.8°C], oral or equivalent) and cough and/or sore throat (in the absence of a known cause other than influenza)

<sup>†</sup> Lab confirmed case = case confirmed by rapid diagnostic test, antigen detection, culture, or PCR. Care should be given when relying on results of point of care rapid diagnostic test kits during times when influenza is not circulating widely. The sensitivity and specificity of these tests vary and the predicative value positive may be low outside the time of peak influenza activity. Therefore, a state may wish to obtain laboratory confirmation of influenza by testing methods other than point of care rapid tests for reporting the first laboratory confirmed case of influenza of the season.

<sup>‡</sup> Institution includes nursing home, hospital, prison, school, etc.

\*\*Region: population under surveillance in a defined geographical subdivision of a state. A region could be comprised of 1 or more counties and would be based on each state's specific circumstances. Depending on the size of the state, the number of regions could range from 2 to approximately 12. The definition of regions would be left to the state but existing state health districts could be used in many states. Allowing states to define regions would avoid somewhat arbitrary county lines and allow states to make divisions that make sense based on geographic population clusters. Focusing on regions larger than counties would also improve the likelihood that data needed for estimating activity would be available.

**Influenza Surveillance Graphs— 2008-2009 Season:**

