



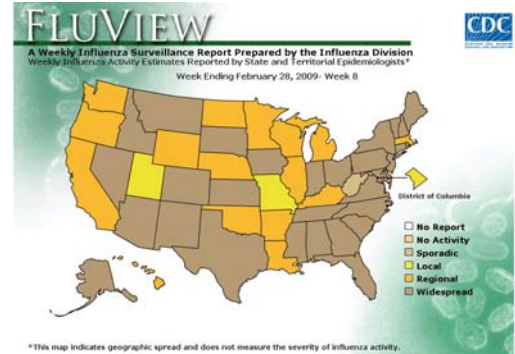
Iowa Influenza Surveillance Network (IISN)

Influenza and Other Respiratory Virus Weekly Activity Report

For the week ending March 7, 2009 Week 9

Influenza Quick Stats:

Iowa activity level: **Widespread¹**
 Lab-confirmed cases: 40
 Sentinel % ILI²: 2.57% (threshold 2.1%)
 Hospitalizations: 4
 School % absence: 3.48% (threshold 3.06%)
 School days ≥10% absence: 38



Iowa activity summary:

Influenza activity has been reported in many schools this week. Cases are being reported in all age groups. The dominant strain is AH1 but influenza B is identified in about 1/3 of all cases.

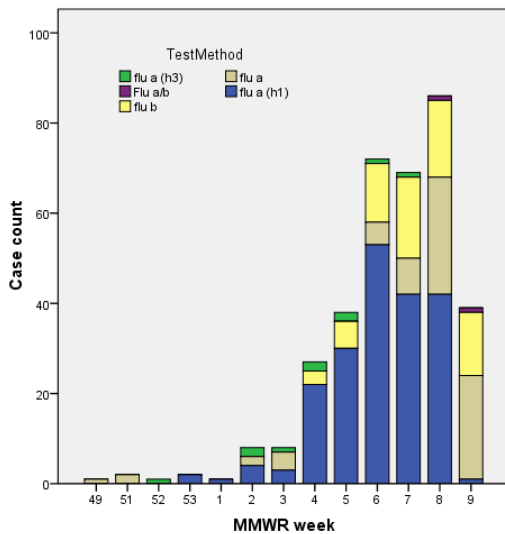
National activity summary: Widespread influenza activity was reported by 31 states. Regional influenza activity was reported by 16 states. Local influenza activity was reported by the District of Columbia and two states. Sporadic activity was reported by Puerto Rico and one state.

National virologic surveillance: The results of tests performed during the current week and cumulative totals for the season are Influenza A 75.6% and Influenza B 24.4%. Since week 2 (the week ending January 17, 2009), when influenza activity increased nationally, influenza A (H1) viruses have predominated circulation nationally each week and for the season overall in all regions. Since week 2, 91% of subtyped influenza A viruses reported to CDC were influenza A (H1).

Antiviral resistance: Since October 1, 2008, 364 influenza A (H1N1), 56 influenza A (H3N2), and 166 influenza B viruses have been tested for resistance to the neuraminidase inhibitors (oseltamivir and zanamivir). Three hundred sixty-five influenza A (H1N1) and 56 influenza A (H3N2) viruses have been tested for resistance to the adamantanes (amantadine and rimantadine). Influenza A (H1N1) viruses from 36 states have been tested for antiviral resistance to oseltamivir so far this season. To date, all influenza A (H3N2) viruses tested are resistant to the adamantanes and all oseltamivir-resistant influenza A (H1N1) viruses tested are sensitive to the adamantanes. Influenza activity in the United States increased this week with influenza A (H1N1) viruses predominating overall. CDC issued interim recommendations for the use of influenza antiviral medications in the setting of oseltamivir resistance among circulating influenza A (H1N1) viruses on December 19, 2008. These interim recommendations are available at <http://www2a.cdc.gov/HAN/ArchiveSys/viewMsgV.asp?AlertNum=00279>

Laboratory-confirmed cases: (excludes rapid test positives; only weeks with cases are included in the table; includes several labs)

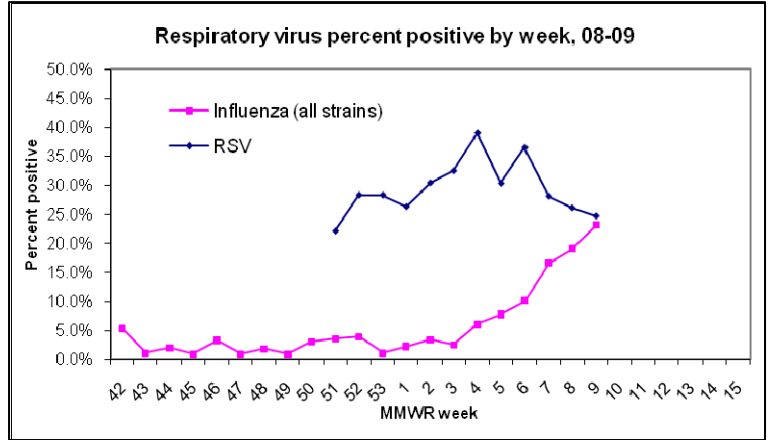
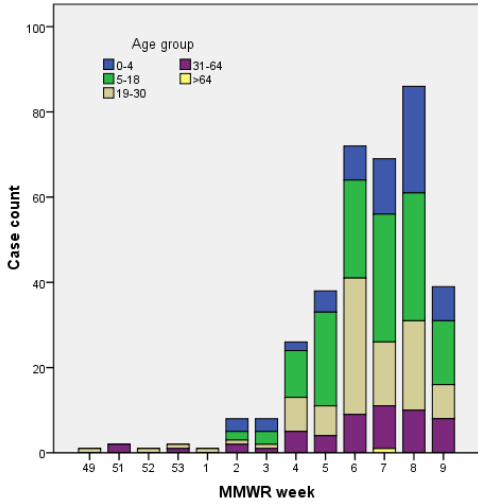
Laboratory-confirmed cases by influenza type and strain



	flu a/b	flu a (h1)	flu a (h3)	flu a	flu b	Total
49	0	0	0	1	0	1
51	0	0	0	2	0	2
52	0	0	1	0	0	1
53	0	2	0	0	0	2
1	0	1	0	0	0	1
2	0	4	2	2	0	8
3	0	3	1	4	0	8
4	0	22	2	0	3	27
5	0	30	2	0	6	38
6	0	53	1	5	13	72
7	0	42	1	8	18	69
8	1	42	0	26	17	86
9	1	1	0	23	14	40
Total	2	200	10	71	71	355

¹ **No Activity:** No laboratory-confirmed cases of influenza and no reported increase in the number of cases of influenza-like illness (ILI).
Sporadic: Small numbers of laboratory-confirmed influenza cases or a single influenza outbreak has been reported, but there is no increase in cases of ILI.
Local: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.
Regional: Outbreaks of influenza or increases in ILI and recent laboratory-confirmed influenza in at least two but less than half the regions of the state.
Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state.
² Influenza-like illness is defined as fever ≥100°F and cough and/or sore throat.

Laboratory-confirmed cases by age group



Influenza and Other Respiratory Viral Laboratory Data:

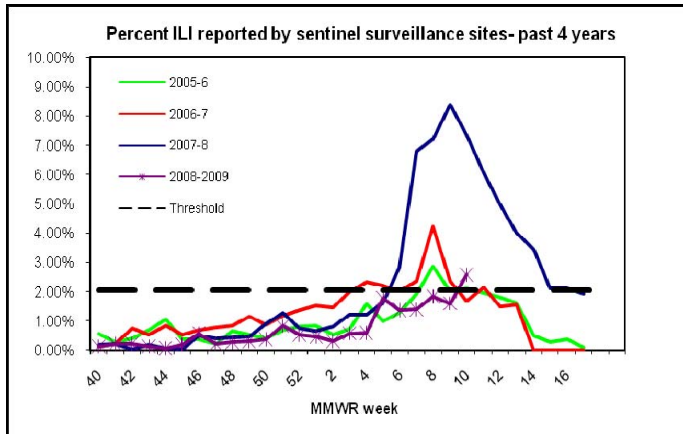
Laboratory-confirmed cases are primarily reported by the University Hygienic Laboratory (UHL) only. UHL also determines the type and strain (AH1, AH3). Influenza is not a required reportable disease. Laboratory data is used to confirm the presence of influenza and the types and strains circulating, not determine the exact number of cases in Iowa.

Region	INFLUENZA					RSV*		
	Tested	Flu A	Flu B	Both	% Positive	Tested	Positive	% Positive
Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster	370	61	12	0	19.7%	123	29	23.6%
Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright	79	9	4	0	16.5%	26	9	34.6%
Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury	205	29	6	0	17.1%	94	21	22.3%
Region 4- Adair, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union	37	8	0	0	21.6%	18	7	38.9%
Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne	33	0	3	0	9.1%	35	9	25.7%
Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott	1355	210	113	26	25.8%	278	67	24.1%
TOTAL	2079	317	138	26	23.1%	574	142	24.7%

*The CDC epidemic threshold for RSV is ~10% of all test results reported as positive. Additional RSV trends may be viewed at <http://www.cdc.gov/surveillance/nrevss/rsv/state.html>.

Outpatient Health Care Provider Influenza Surveillance (Sentinel Surveillance):

There are 18 sentinel surveillance sites throughout Iowa surveying patient populations for influenza-like illness (ILI).

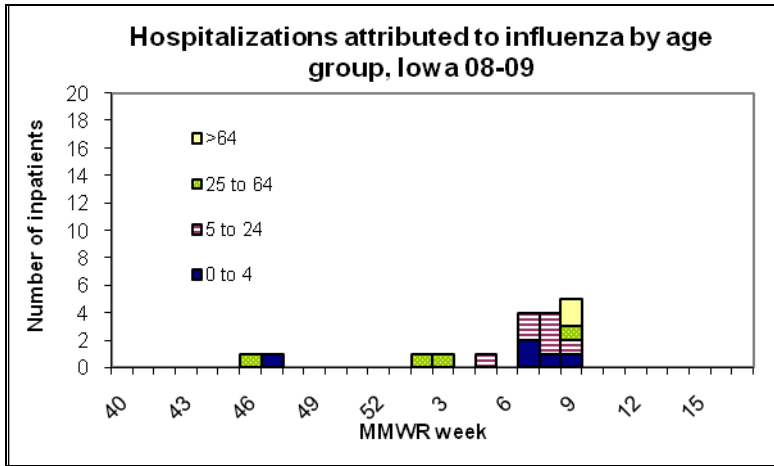


# sites reporting	7
Age 0-4	25
Age 5-24	42
Age 25-64	11
Age over 64	2
Total ILI	80
Total patients	3,110
% ILI	2.57%

Hospital and Long-term Care Facility Influenza Surveillance:

There are 29 hospitals participating in influenza surveillance. Hospitals track the total number of patients hospitalized weekly with influenza and/or pneumonia who also have a positive influenza laboratory result. The total number of patients surveyed this week was 4,519.

Two patients this week were 64 years of age and older, a third was in the 25-64 age category, a fourth case is 5-24 years of age, and one was four years old or younger.



There were no cases of influenza reported in long-term care facilities.

School Illness Surveillance:

There are approximately 50 school sites reporting into the IISN. All sites track the average number of students enrolled and the number absent due to illness weekly. There were 16 schools reporting absence of >10% this week with a total of 38 schools days with >10% absence due to illness.

Number of sites reporting	33
Total students surveyed	18,192
Total absences due to illness	3,235
Average percent absence due to illness	3.48%
Median percent absence due to illness	3.00%
2007-2008 percent absence due to illness same week	2.39%

