



Missouri Weekly Influenza Report 2006-2007 Season¹

Missouri is reporting “Sporadic Influenza Activity” to the CDC for Week 19².

To view influenza maps click here. Each map will give county data by placing the cursor over the county.

Table 1. Reported Laboratory cases by sub-type for the Week ending May 12, 2007 (Week 19)

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 19	0	0	0	0	3	0	3

3 cases by rapid non-culture diagnostic test for week 19.

Table 2. Influenza Season-to-Date and 5-season Median by Influenza Type Through Week Ending May 12, 2007 (Week 19)

Influenza Type	2006-07 Season	5-Season Median	Percent Change from 5-Season Median
Influenza A	9,136	6,705	36.3%
Influenza B	2,196	881	149.3%
Influenza Unknown Or Untyped	3,461	2,986	15.9%
Total	14,793	10,860	36.2%

Season-to-Date: two isolates are identified as influenza A/Hawaii/15/2001-like (H1N1) viruses and two other isolates as influenza A/New Caledonia/20/99-like (H1N1) viruses.

Table 3. Influenza Season-to-Date and 5-season Median by Age Group Through Week Ending May 12, 2007 (Week 19)

Age Group	2006-07 Count	5-Season Median	Percent Change from 5-Season Median
00-<02	1,698	1,320	28.6%
02-04	2,500	991	152.3%
05-14	6,462	2,137	202.4%
15-24	1,312	1,134	15.7%
25-49	1,944	1,504	29.3%
50-64	525	599	(12.4%)
65+	352	1,275	(72.4%)
Total	14,793	10,860	36.2%

Table 4. Influenza Season-to-Date and 5-season Median by Region Through Week Ending May 12, 2007 (Week 19)

Region	2006-07 Count	5-Season Median	Percent Change from 5-Season Median
CE	1,871	1,597	17.2%
EA	3,643	4,146	(12.1%)
NW	3,856	2,653	45.3%
SE	1,786	679	163.0%
SW	3,637	1,587	129.2%
Total	14,793	10,860	36.2%

Table 5. Deaths involving Pneumonia and Influenza (P&I) Reported During the Week Ending May 5, 2007 (Week 18)*

Week 18	Season-to-Date	Week 18 Last Season	5 Year Weekly Median
110	2658	78	102

* Beginning in Week 35 of 2003, the number of P&I deaths became based on a new system of retrieval that now includes all contributing causes of death from death certificates.

Graph 1. Influenza 2006-07 Season-To-Date as compared to the previous 4 influenza seasons Through the Week Ending May 12, 2007 (Week 19)

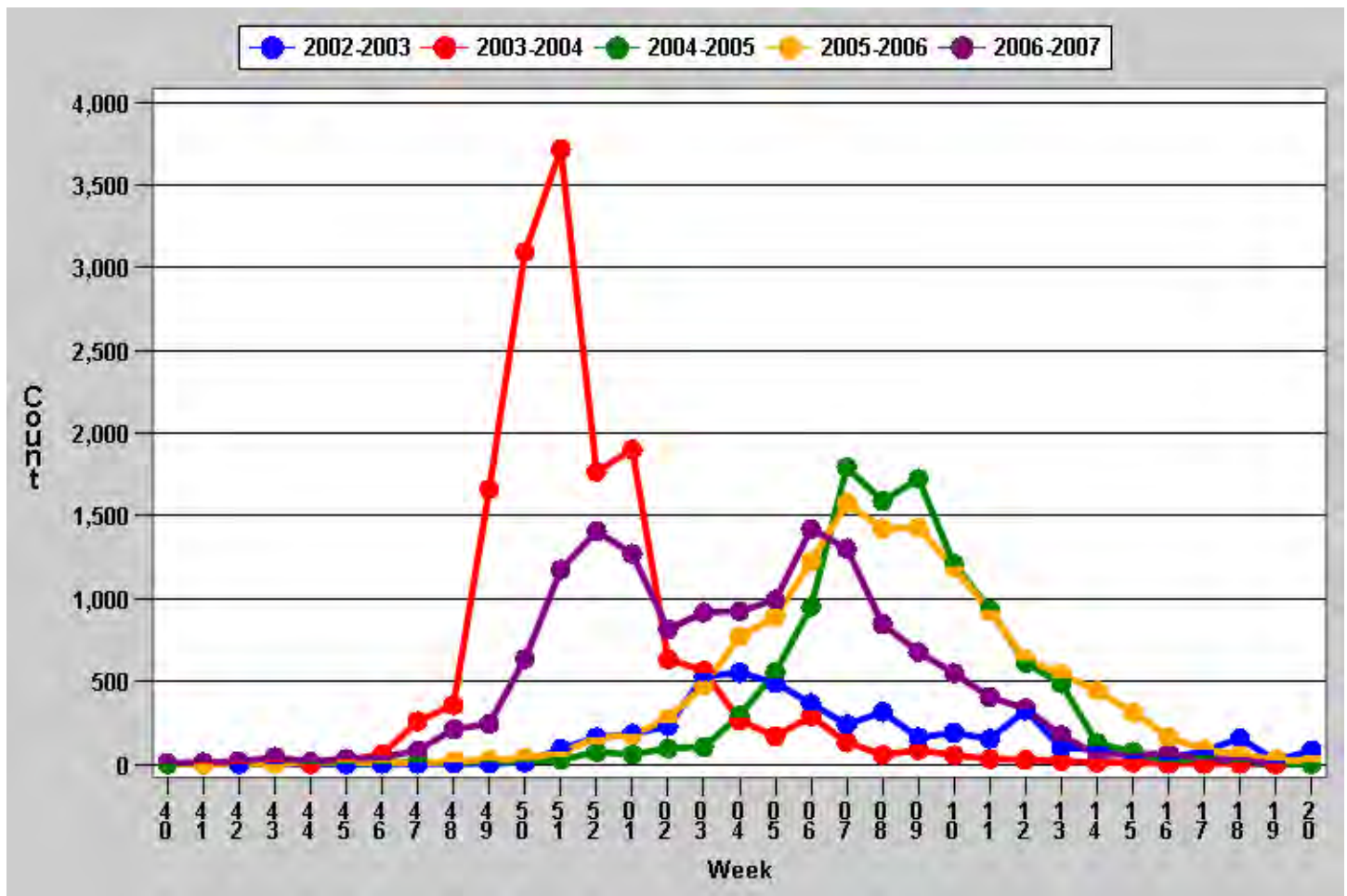


Table 6. U.S. Influenza Sentinel Physicians Surveillance Network Influenza-like Illness (ILI) for the Week Ending May 5, 2007 (Week 18)

Age 0-4	Age 5-24	Age 25-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI*
0	0	0	0	0	1364	0.00*

*This is below the national baseline of 2.1%

Table 7. Respiratory Specimens Submitted to SPHL for Viral Testing Through the Week Ending May 12, 2007 (Week 19)*

	Positive Influenza	Total Number Specimens Submitted
Week 19	0	1
Season-to-Date	74	140

*Number positives also represent past weeks specimens submitted.

Antigenic Characterization of Missouri Influenza Isolates submitted to CDC by the State Public Health Laboratory: CDC antigenically characterizes a sample of positive Missouri influenza isolates, submitted through the Missouri Department of Health and Senior Services (DHSS), State Public Health Laboratory (SPHL). DHSS has submitted seventeen influenza isolates this season to CDC for antigenic characterization.

Results Received from CDC: CDC has antigenically characterized four of those isolates so far this season: two as influenza A/Hawaii/15/2001-like (H1N1) viruses and two as influenza A/New Caledonia/20/99-like (H1N1) viruses.

Isolates were characterized by hemagglutination-inhibition using post-infection ferret antisera and are related antigenically to A/Hawaii/15/2001, a minor antigenic variant of A/New Caledonia/20/99. A/New Caledonia/20/99 is the WHO recommended H1 component of the 2006-2007 vaccine for the Northern Hemisphere and 2007 vaccine for the Southern Hemisphere.

FDA's Vaccines and Related Biological Products Advisory Committee (VRBPAC) recommended that influenza vaccines to be used in the 2006-2007 season in the U.S. contain the following:

- An A/New Caledonia/20/99 (H1N1)-like virus;
- An A/Wisconsin/67/2005 (H3N2)-like virus (A/Wisconsin/67/2005 and A/Hiroshima/52/2005 strains); and
- A B/Malaysia/2506/2004-like virus (B/Malaysia/2506/2004 and B/Ohio/1/2005 strains)

The influenza vaccine composition used in the 2006-2007 season in the U.S. is identical to that recommended by the World Health Organization on February 15, 2006.

Clusters/Outbreaks of Influenza-like Illness: No school closings were reported for week 19; no school closings were reported for last season. Thirteen school closings due to Influenza-like illness have been reported season-to-date, as compared to four school closings reported during this same time last season. No outbreaks have been reported this season as compared to nine last season.

Data Sources: Laboratory-confirmed cases are reported to DHSS through the passive communicable disease surveillance system. Suspected influenza clusters and outbreaks are reported through the active surveillance system. Pneumonia and influenza deaths are reported through the DHSS Bureau of Vital Records. Influenza-like illness data by age category and total number of patient visits by week are reported voluntarily by participants in the U.S. Influenza Sentinel Physicians Surveillance Network.

Find Us on the Web

This report may also be found on the DHSS Internet at: www.dhss.state.mo.us/Influenza/index.html.

National influenza surveillance information is available from the Centers for Disease Control and Prevention at: www.cdc.gov/ncidod/diseases/flu/weekly.htm.

Contact Us

The Missouri Department of Health and Senior Services after hour's number for reporting disease cases and emergencies is **1-800-392-0272**.

¹ *All data in this report are provisional and may change as reports are updated.*

² *Influenza activity codes are reported to CDC each Monday.*