

Maine Weekly Influenza Surveillance Report

April 30, 2008

Synopsis

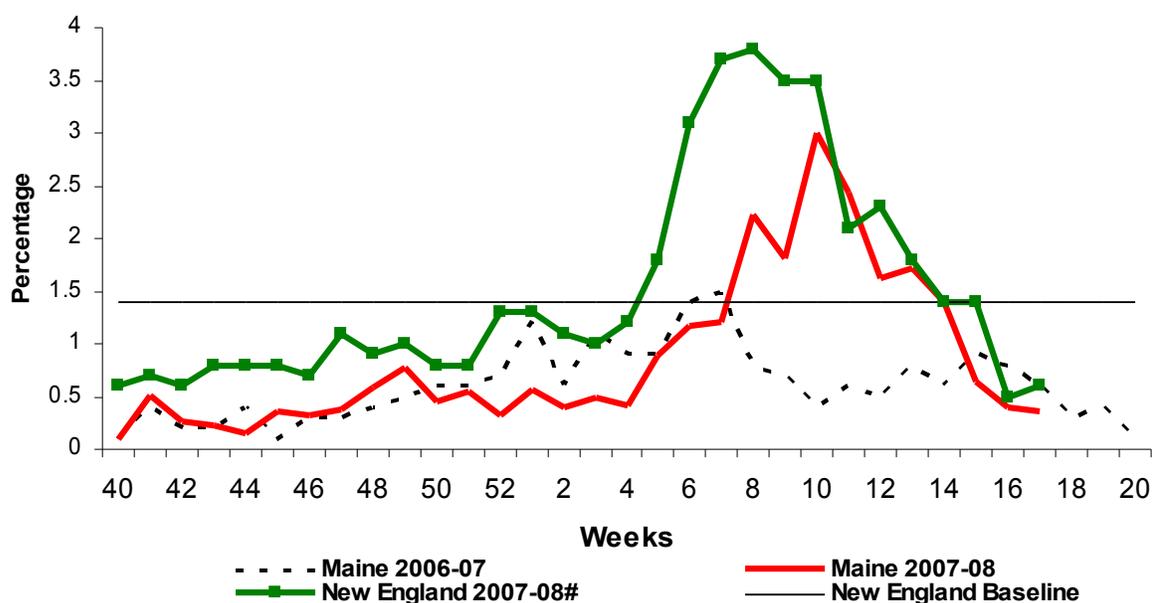
During the week ending April 26, 2008 (MMWR week 17)*, Maine reported local influenza activity. No new outbreaks of influenza were reported; reports of outpatient visits for influenza-like illness and influenza-associated hospitalizations decreased during week 17.

Moderate Disease Surveillance

Outpatient influenza-like illness (ILI)

During the week ending April 26, 2008 (week 17), 0.4% of outpatient visits reported by six Maine Sentinel Providers were for influenza-like illness (ILI), defined as fever ($\geq 100^{\circ}$ F / $\geq 37.8^{\circ}$ C) and cough or sore throat in the absence of a known cause. In the New England States, 0.6% of outpatient visits were attributed to influenza-like illness during week 17.

Outpatient Visits for Influenza-like Illness -- Maine, 2006-08



New England is defined as Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

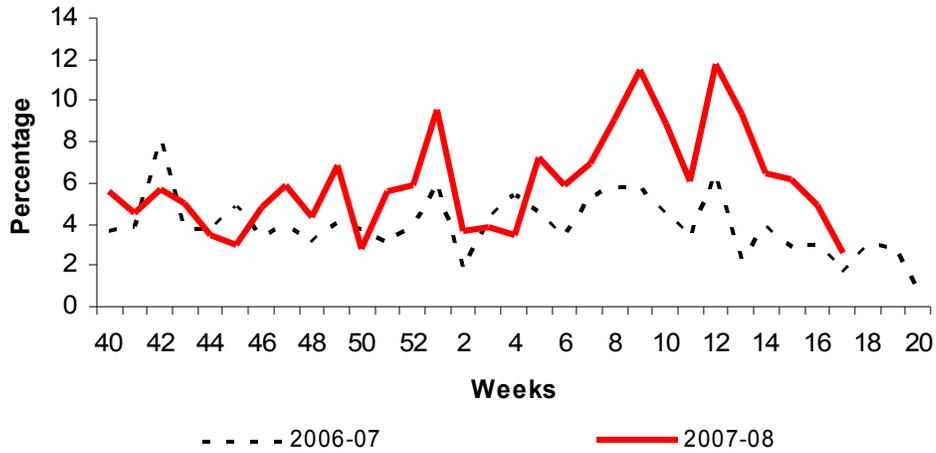
Severe Disease Surveillance

Hospital inpatients

During the week ending April 26, 2008 (week 17), 2.6% of hospital admissions reported by three hospitals were attributable to pneumonia or influenza. This was a decrease from week 16 when 4.9% of hospital admissions were attributable to pneumonia and influenza.

Hospital Admissions Due to Pneumonia or Influenza -- Maine, 2006-08

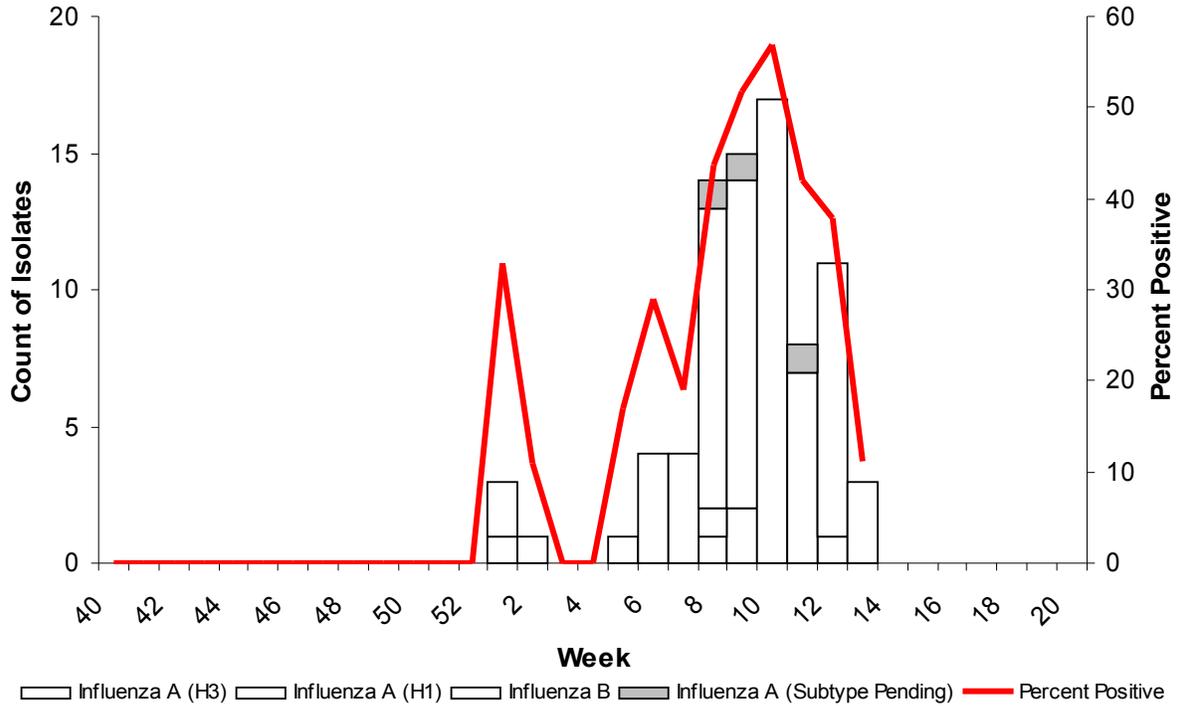
* At time of publication, reporting may be incomplete. Numbers presented here may change as more reports are received.



Laboratory Reporting

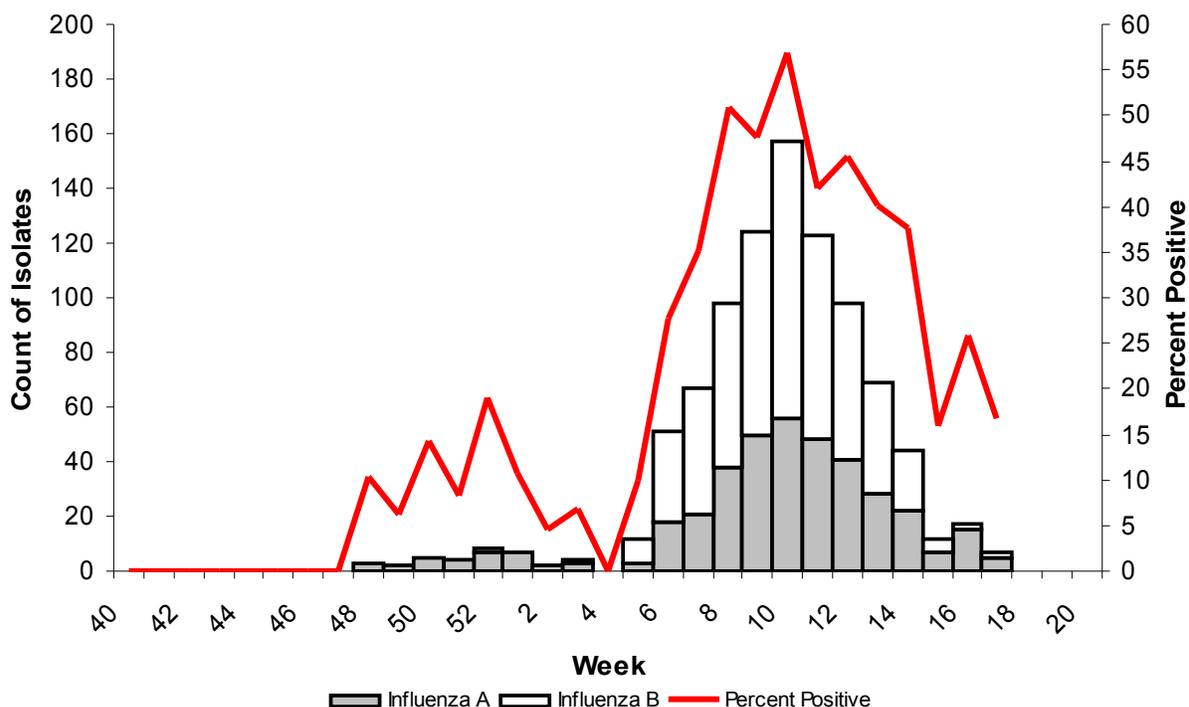
Results from the Maine Health and Environmental Testing Laboratory (HETL) are not available for weeks 14-17. As of March 29, 2008 (week 13), a cumulative total of 314 respiratory specimens had been submitted to HETL for testing. Eighty-one (25.8%) specimens were positive for influenza; six were influenza A (H3), three were influenza A (H1), three were influenza A (subtype pending), and 69 specimens were influenza B. In addition, four specimens were positive for parainfluenza-2, one specimen was positive for parainfluenza-1, and one specimen was positive for mumps.

**Respiratory Specimens Positive for Influenza
From the Health and Environmental Testing Laboratory – Maine, 2007-08**



One private reference laboratory in Maine reported for the week ending April 26, 2008 (week 17). Five of the 42 specimens were positive for influenza A. Two specimens were positive for influenza B. In addition, three specimens were positive for RSV. As of April 26, 2008, a cumulative total of 2,690 respiratory specimens have been submitted to two private reference laboratories in Maine. Of these, 385 (14%) specimens were positive for influenza A and 529 (19%) were positive for influenza B. Five hundred fourteen specimens were positive for RSV, ten specimens were positive for parainfluenza-1, ten specimens were positive for parainfluenza-2, three specimens were positive for parainfluenza-3, six specimens was positive for adenovirus, three specimens were positive for enterovirus, and the remaining specimens were negative.

Respiratory Specimens Positive for Influenza From Two Reference Laboratories – Maine, 2007-08



Outbreaks

During the week ending April 26, 2008, no new outbreaks of influenza-like illness were reported in Maine. A total of 78 outbreaks of influenza-like illness have been reported in Maine this season.

Influenza-like illness outbreaks by selected characteristics – Maine, 2007-08

	Facility Type*	Region	Date Reported	Attack Rate (%)		Hospitalizations #	Deaths #	Vaccination rate (%)		Lab-confirmed
				Resident	Staff			Resident	Staff	
1	LTC	Midcoast	12/27/2007	9	0	0	0	100	55	Influenza A
2	LTC	Eastern	1/14/2008	31	6	1	0	100	94	^
3	School	Midcoast	1/28/2008	7	0	0	0	^	^	Influenza A
4	School	Aroostook	1/29/2008	15	^	^	^	^	^	^
5	School	Aroostook	1/29/2008	27	0	0	0	^	^	Influenza
6	School	Midcoast	1/31/2008	3	0	0	0	^	^	Influenza
7	School	Aroostook	2/4/2008	20	11	0	0	^	^	Influenza A
8	School	Northern	2/4/2008	17	25	^	^	^	^	Influenza
9	LTC	Midcoast	2/12/2008	24	5	0	0	98	5	Influenza B
10	LTC	Midcoast	2/13/2008	40	17	0	0	80	83	Influenza A
11	LTC	Western	2/15/2008	9	0	2	0	83	0	Influenza B
12	LTC	Eastern	2/15/2008	11	16	1	0	89	50	Influenza A
13	School	Midcoast	2/15/2008	20	0	0	0	^	^	Influenza B
14	LTC	Western	2/20/2008	34	^	0	0	^	^	Influenza A
15	ACF Unit	Western	2/20/2008	36	^	NA	0	^	^	Influenza

16	LTC	Eastern	2/21/2008	20	8	^	^	^	^	Influenza B
17	LTC	Western	2/21/2008	0	3	^	^	^	^	Influenza
18	LTC	Western	2/21/2008	1	3	^	^	96	50	Influenza
19	LTC	Southern	2/22/2008	1	0	^	^	^	^	Influenza
20	LTC	Eastern	2/22/2008	1	0	1	1	60	50	Influenza B
21	ACF	Eastern	2/25/2008	12	^	^	^	^	^	Influenza
22	ACF Unit	Western	2/25/2008	1	^	NA	^	^	^	Influenza B
23	LTC	Southern	2/26/2008	9	0	0	0	99	54	Influenza A
24	LTC	Western	2/26/2008	5	1	0	1	94	50	Influenza
25	LTC	Central	2/26/2008	3	2	0	0	96	75	Influenza A
26	LTC	Southern	2/26/2008	0	4	1	0	96	42	Influenza A
27	LTC	Eastern	2/26/2008	21	1	0	0	100	40	Influenza B
28	LTC	Western	2/27/2008	1	0	0	0	94	50	Influenza
29	LTC	Western	2/28/2008	5	3	1	0	80	^	Influenza A
30	LTC	Northern	2/29/2008	18	6	0	0	100	6	Influenza
31	LTC	Eastern	2/29/2008	7	2	0	0	100	50	Influenza B
32	LTC	Southern	2/29/2008	1	0	0	0	85		Influenza B
33	LTC	Western	3/3/2008	2	<1	^	^	99	30	Influenza
34	LTC	Western	3/3/2008	1	1	1	0	98	60	Influenza A
35	ACF Unit	Eastern	3/3/2008	8	2	NA	^	^	^	Influenza
36	LTC	Western	3/4/2008	4	0	0	0	90	72	Influenza B
37	LTC	Southern	3/4/2008	18	2	2	0	89	49	Influenza
38	LTC	Eastern	3/5/2008	33	12	0	^	99	5	Influenza B
39	LTC	Central	3/5/2008	1	1	^	^	^	^	Influenza A
40	LTC	Eastern	3/7/2008	27	6	3	0	100	^	Influenza A
41	LTC	Eastern	3/7/2008	6	6	0	^	91	39	Influenza B
42	LTC	Central	3/7/2008	3	31	3	0	99	43	Influenza B
43	LTC	Western	3/7/2008	5	^	^	^	^	^	Influenza B
44	School	Eastern	3/10/2008	18	^	^	^	^	^	Influenza
45	LTC	Southern	3/10/2008	7	^	2	0	100	33	Influenza A
46	School	Eastern	3/10/2008	21	1	^	^	^	^	Influenza
47	LTC	Western	3/10/2008	5	3	0	0	^	20	Influenza B
48	School	Eastern	3/10/2008	23	11	^	^	^	^	Influenza
49	School	Eastern	3/10/2008	17	0	^	^	^	^	Influenza
50	LTC	Western	3/10/2008	5	0	1	0	99	50	Influenza
51	LTC	Western	3/10/2008	1	0	0	0	100	50	Influenza
52	LTC	Southern	3/11/2008	26	1	3	0	88	69	Influenza
53	LTC	Southern	3/11/2008	2	0	0	0	100	90	Influenza
54	LTC	Southern	3/12/2008	8	0	0	0	93	56	Influenza
55	LTC	Eastern	3/12/2008	11	10	1	1	100	100	Influenza B
56	LTC	Eastern	3/12/2008	8	0	1	1	100	60	Influenza B
57	LTC	Central	3/12/2008	6	2	1	0	90	70	Influenza B
58	LTC	Central	3/13/2008	25	35	2	0	^	^	Influenza
59	ACF	Central	3/13/2008	1	0	^	^	^	^	Influenza B
60	LTC	Central	3/14/2008	1	1	0	0	98	83	Influenza B
61	LTC	Central	3/17/2008	53	43	0	0	93	100	Influenza B
62	LTC	Southern	3/18/2008	1	2	^	^	76	^	Influenza A
63	LTC	Western	3/18/2008	3	0	^	^	100	70	Influenza A
64	LTC	Eastern	3/19/2008	0	2	^	^	^	^	Influenza
65	LTC	Midcoast	3/20/2008	3	0	0	0	92	50	Influenza A

66	LTC	Central	3/21/2008	12	14	1	1	98	55	Influenza B
67	LTC	Central	3/21/2008	4	0	1	0	75	0	Influenza A
68	LTC	Central	3/21/2008	8	0	^	^	100	8	Influenza A
69	LTC	Western	3/25/2008	17	13	1	0	94	87	Influenza A
70	LTC	Central	3/25/2008	11	^	2	1	90	59	Influenza
71	LTC	Eastern	3/26/2008	6	0	0	0	94	37	Influenza
72	LTC	Midcoast	3/27/2008	7	3	2	0	66	^	Influenza B
73	LTC	Midcoast	3/27/2008	33	^	6	3	100	^	Influenza B
74	LTC	Central	4/2/2008	14	1	2	1	100	60	Influenza
75	LTC	Central	4/2/2008	1	0	1	0	100	^	Influenza B
76	LTC	Southern	4/3/2008	9	1	1	0	100	86	Influenza
77	LTC	Southern	4/3/2008	4	2	2	0	57	^	Influenza A
78	LTC	Southern	4/11/2008	9	0	0	0	^	0	Influenza

* Outbreak definition is specific to facility type. An outbreak in long-term care facilities (LTC) is defined as ≥ 3 patients with ILI identified on same floor or ward during a short (e.g., 48-72 hour) period OR ≥ 1 patients with lab-confirmed influenza; an outbreak in an acute care facility (ACF) is defined as ≥ 1 patients with ILI or lab-confirmed influenza with symptom onset ≥ 48 hours post-admission (i.e., nosocomial); and an outbreak in a school is defined as $\geq 15\%$ absentee rate among student population due to ILI or lab-confirmed influenza.

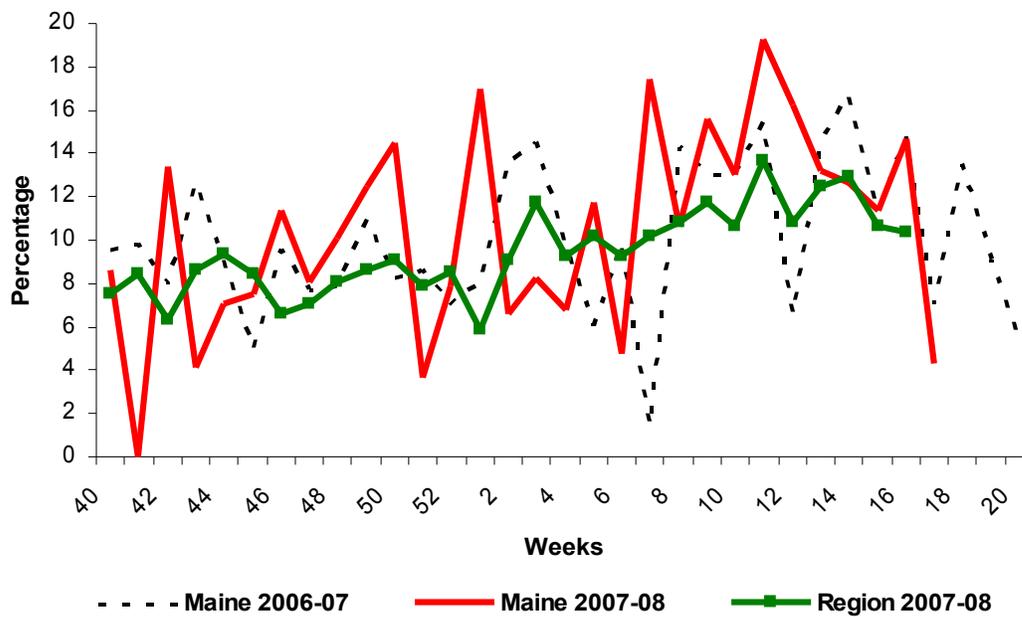
^ Data unavailable; NA indicates not applicable

Fatalities Surveillance

Death Certificates

During the week ending April 26, 2008 (week 17), 4.3% of deaths reported by three city vital records offices were attributable to pneumonia and influenza.

Percentage of Deaths Attributable to Pneumonia and Influenza – Maine, New England and the United States, 2006-08



^ New England includes the following reporting areas: Boston, MA; Bridgeport, CT; Cambridge, MA; Fall River, MA; Hartford, CT; Lowell, MA; Lynn, MA; New Bedford, MA; New Haven, CT; Providence, RI; Somerville, MA; Springfield, MA; Waterbury, CT; Worcester, MA.

Pediatric Fatalities

One influenza-associated pediatric death in Maine has been reported this season.

National Influenza Activity

State health departments report the estimated level of influenza activity in their states each week. States report influenza activity as: 1) no activity, 2) sporadic, 3) local, 4) regional, or 5) widespread (definitions of these levels can be found at: www.cdc.gov/flu/weekly/usmap.htm). Maine reported local influenza activity for the weeks ending April 19, 2008 and April 26, 2008 (week 17).

