

Maine Weekly Influenza Surveillance Report

2023-2024 Influenza Season

April 30, 2024

Data for MMWR week 17 (ending 4/27/2024)



U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

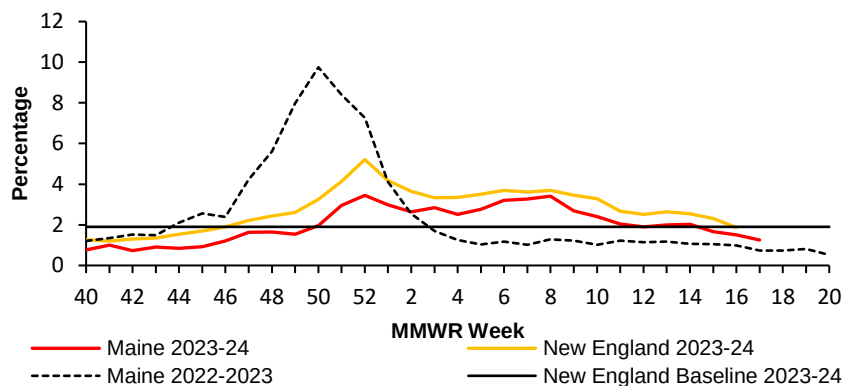
Percent of Outpatient Health
Care Visits Due to ILI

1.26

Number of ILINet Reporting
Providers

46

Outpatient Visits for ILI –ILINet, Maine, 2022-24



Syndromic Surveillance

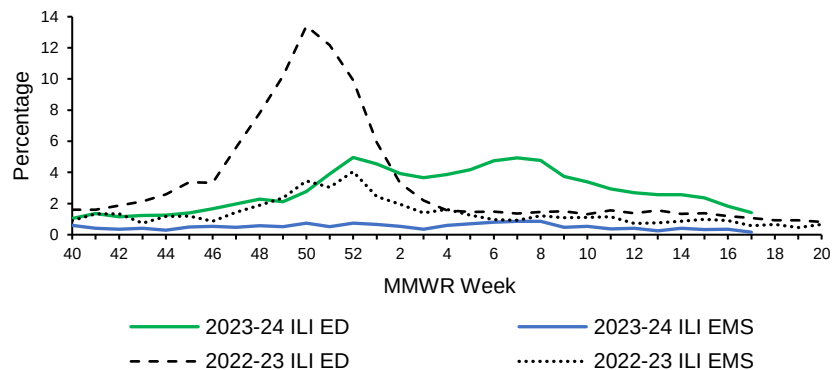
Percent of Emergency Room
Visits Due to ILI

1.42

Percent of Emergency Medical
Services (EMS) calls for ILI

0.16

Syndromic Surveillance data for ILI – Maine, 2022 -24



Hospitalizations

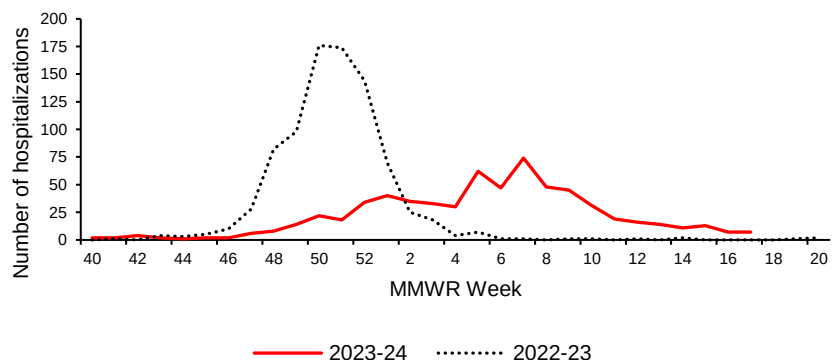
Influenza-Associated
Hospitalizations This Week

7

Total Influenza-Associated
Hospitalizations This Season

649

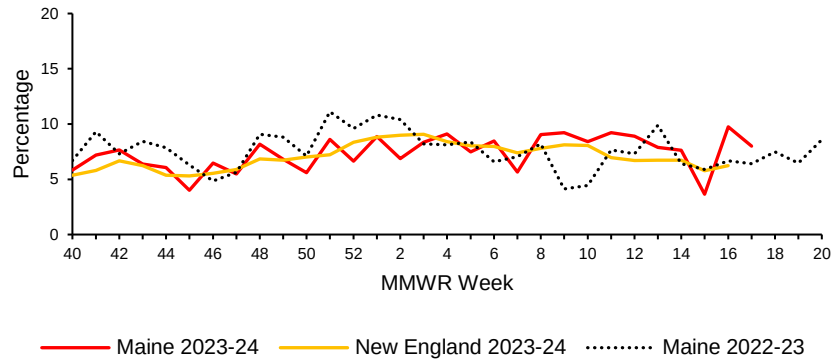
Influenza Hospitalizations – Maine, 2022-24



Pneumonia and Influenza (P&I) Deaths

Percent of Deaths Due to P&I
8
Influenza-Associated Deaths This Week*
1
Total Influenza-Associated Deaths This Season*
52
Pediatric Influenza-Associated Deaths This Season
0

Deaths Attributable to P&I – Maine, 2022-24

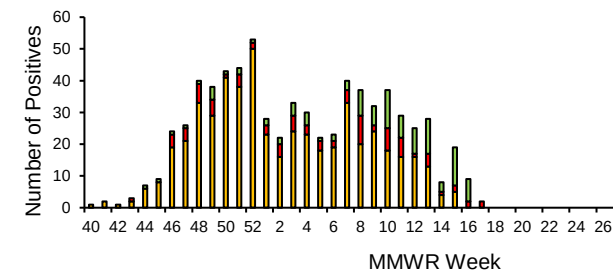
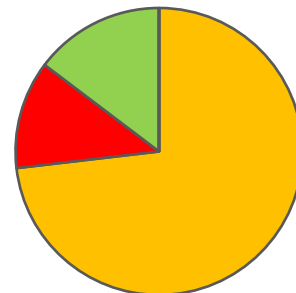


*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I) deaths.

Virologic Surveillance

Health and Environmental Testing Laboratory	Week 17	2023-24 Season
No. of specimens tested	8	777
No. of positive specimens	2	715
<i>Positive specimens by type</i>		
Influenza A		
(H1N1)pdm09	0	523
H3N2	2	87
Influenza B		
Yamagata lineage		
Victoria lineage	0	105

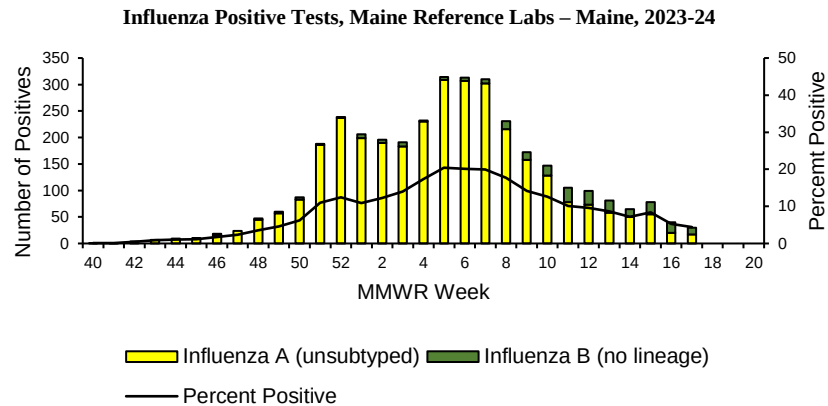
Influenza Positive PCR Tests, HETL – Maine, 2023-24



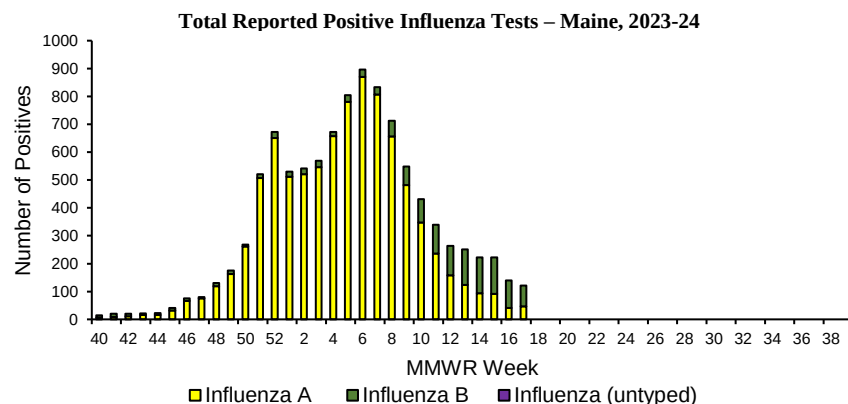
Influenza A (H1N1) Influenza A (H3N2)
 Influenza A (unsubtyped) Influenza B (Victoria)
 Influenza B (Yamagata) Influenza B (no lineage)
 Influenza (untyped)

All data are preliminary and subject to change

Maine Reference Laboratories	Week 17	2023-24 Season
No. of specimens tested	677	35,742
No. of positive specimens (%)	30 (4.4%)	3,505 (9.8%)
<i>Positive specimens by type</i>		
Influenza A	17	3,252
Influenza B	13	253



All Reported Laboratory Results	Week 17	2023-24 Season
No. of specimens positive by antigen test	10	1,527
No. of specimens positive by molecular test	111	8,633
<i>Positive specimens by type</i>		
Influenza A	47	8,904
Influenza B	74	1,256



Antigenic Characterization (Vaccine Strain Match)

US CDC characterizes antigenicity by how well antibodies made against the vaccine strains recognize circulating virus that have been grown in cell culture. Of the characterized viruses, the vaccine strain antibodies recognized:

- 100% of influenza A/H1N1 samples with cell-grown vaccine antibodies and with egg-based vaccine antibodies
- 98.7% of influenza A/H3N2 samples with cell-grown vaccine antibodies and with egg-based vaccine antibodies
- 100% of influenza B/Victoria samples with cell-grown vaccine antibodies and with egg-based vaccine antibodies
- No influenza B/Yamagata samples were available for characterization

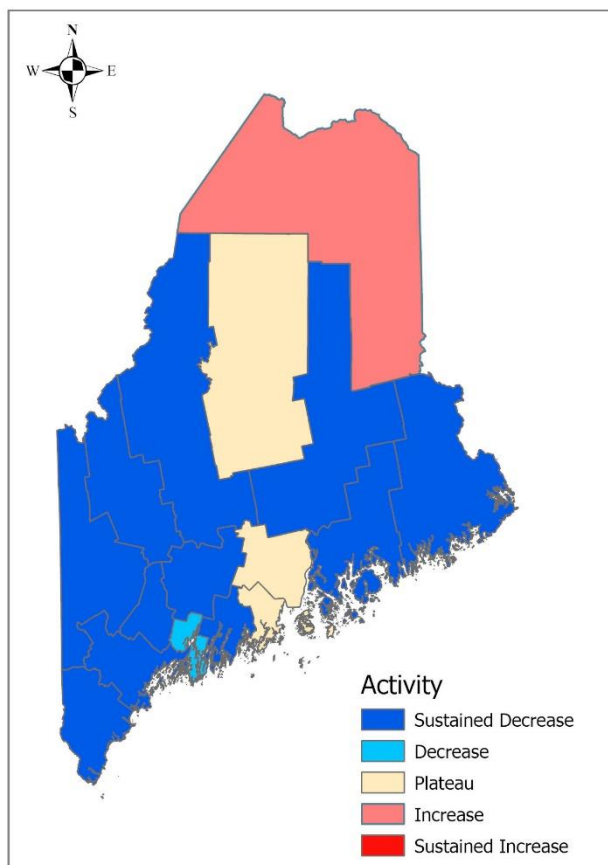
Weekly County-level Influenza, Maine, Week 17

County	Positive labs	Hospitalizations	Activity Trend*	Severity Estimate [§]
Androscoggin	8	0	Sustained Decrease	Low
Aroostook	8	0	Increase	Low
Cumberland	15	2	Sustained Decrease	Low
Franklin	0	0	Sustained Decrease	Low
Hancock	5	1	Sustained Decrease	Low
Kennebec	19	1	Sustained Decrease	Low
Knox	2	0	Plateau	Low
Lincoln	0	0	Sustained Decrease	Low
Oxford	8	0	Sustained Decrease	Low
Penobscot	22	0	Sustained Decrease	Low
Piscataquis	1	0	Plateau	Low
Sagadahoc	1	0	Decrease	Low
Somerset	5	0	Sustained Decrease	Low
Waldo	4	0	Plateau	Low
Washington	5	0	Sustained Decrease	Low
York	19	3	Sustained Decrease	Low
Total	122	7		

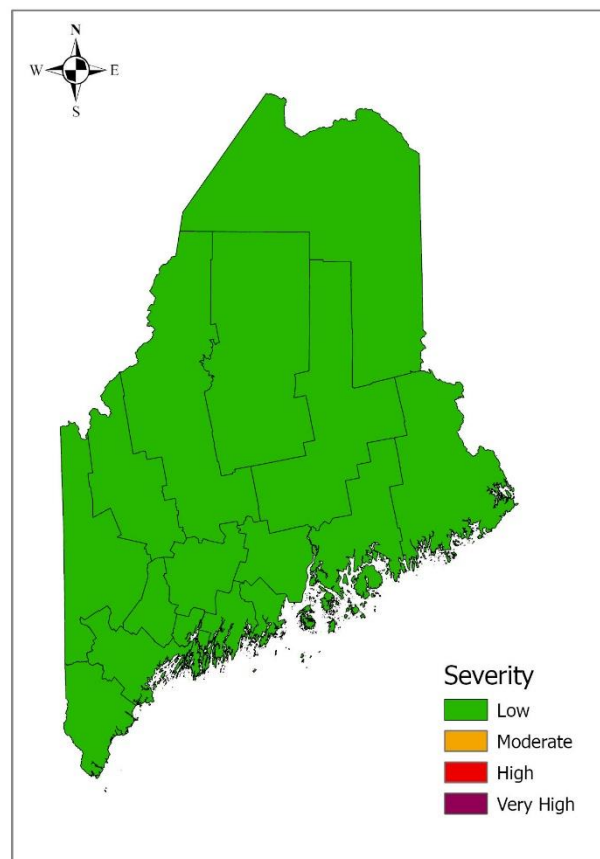
*Activity trends are determined by county-level emergency department visits due to ILI. Activity trend levels include “sustained increase”, “increase”, “plateau”, “decrease”, and “sustained decrease.” This will become available when enough weeks of data have been collected.

[§]Severity is estimated using county-level P&I deaths, syndromic surveillance, and hospitalizations. Thresholds are calculated statewide from previous seasons’ data using the moving epidemic method, as described at <https://www.cdc.gov/flu/about/classifies-flu-severity.htm>

Influenza Activity Trends, Maine, Week 17

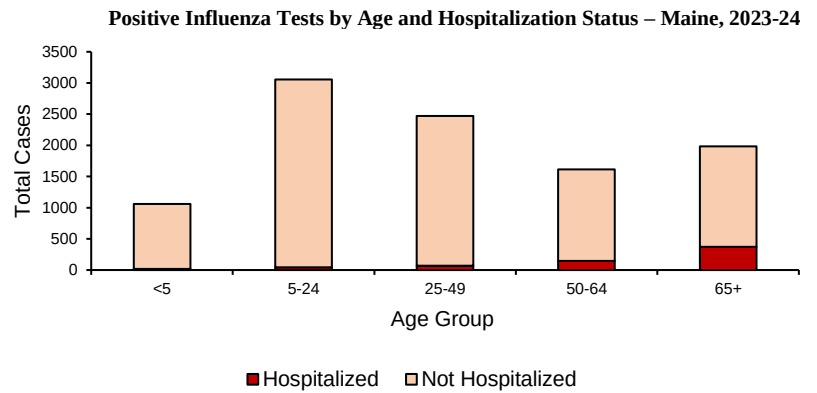


Influenza Severity Estimates, Maine, Week 17



Age Information – Maine, 2023-24 Influenza Season

	Age (years)		
	Min.	Mean	Max.
Cases	<1	37	104
Hospitalizations	<1	63	98
Deaths	36	76	96



Influenza-Like Illness Outbreaks – Maine, 2023-24 Influenza Season

Number of New Outbreak Investigations
1

Total Outbreaks This Season
75

Outbreak Facility Type Key:

LTC - Long Term Care Facility

AC - Acute Care Facility (nosocomial)

K12 - School (K-12) or daycare

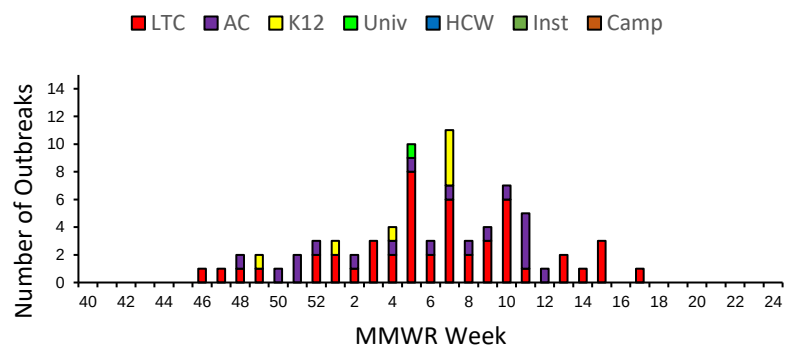
Univ - School (residential) or University

HCW - Health care workers

Inst - Other institutions (workplaces, correctional facilities etc)

Camp - Camp

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2023-24



Influenza-Like Illness Outbreak by Facility Type and County – Maine, 2023-24

County	LTC	AC	K12	Univ	HCW	Inst	Camp	Total
Androscoggin	1	1	1					3
Aroostook	2		1	1				4
Cumberland	16	8						24
Franklin	1	2						3
Hancock	1	1	2					4
Kennebec	4							4
Knox	1	1						2
Lincoln			1					1
Oxford	5	1	1					7
Penobscot	4							4
Piscataquis	1							1
Sagadahoc								0
Somerset	5		1					6
Waldo		1						1
Washington	2							2
York	6	3						9
Total	49	18	7	1	0	0	0	75

National Influenza Surveillance Data

Source: <https://www.cdc.gov/flu/weekly/>

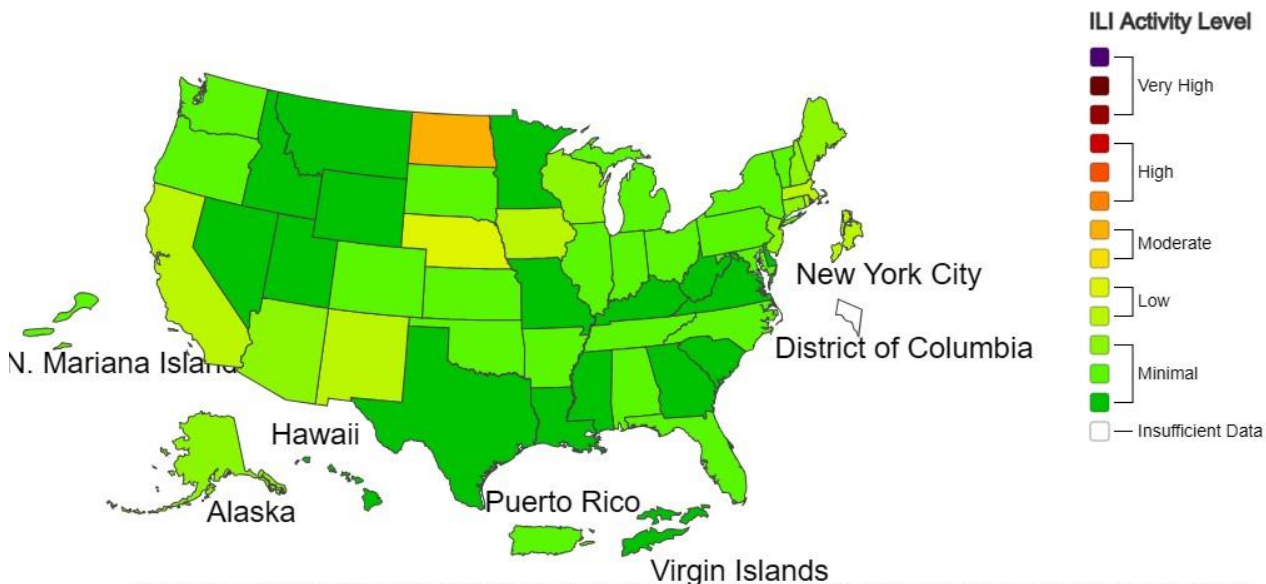


A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed Influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

2023-24 Influenza Season Week 16 ending Apr 20, 2024



*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

*Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the full picture of influenza activity for the whole state.

*Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.

*Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

*For the data download you can use Activity Level for the number and Activity Level Label for the text description.

*This graphic notice means that you are leaving an HHS Web site.

For more information, please see CDC's Exit Notification and Disclaimer policy.

For more information on the methodology, please visit Outpatient Illness Surveillance methods section.

- All current and archived influenza surveillance reports are located at www.maine.gov/dhhs/flu/weekly
- Sign up to automatically receive influenza surveillance report at <https://public.govdelivery.com/accounts/MEHHS/subscriber/new?preferences=true>
- An overview of Maine influenza surveillance, including descriptions of the surveillance systems and data used to generate surveillance reports can be found at <https://www.maine.gov/dhhs/mecdc/infectious-disease/epi/influenza/documents/Flu-Surveillance-Data-Overview-23-24.pdf>