Maine Weekly Influenza Surveillance Report

2023-2024 Influenza Season

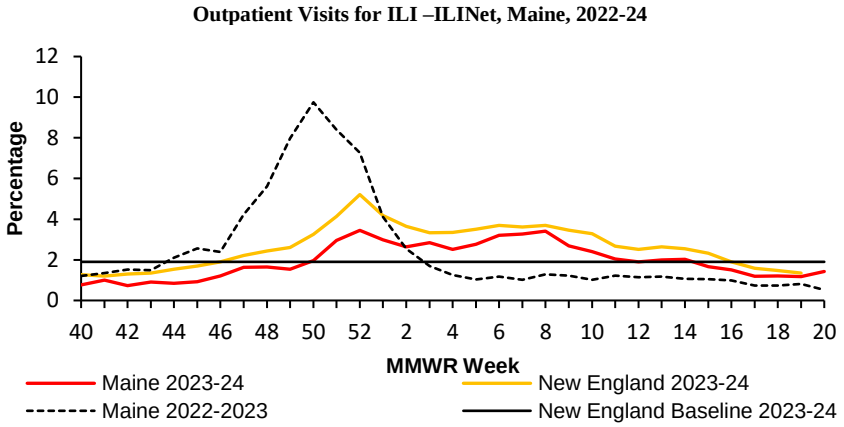
May 21, 2024

Data for MMWR week 20 (ending 5/18/2024)

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

Percent of Outpatient Health Care Visits Due to ILI
1.42

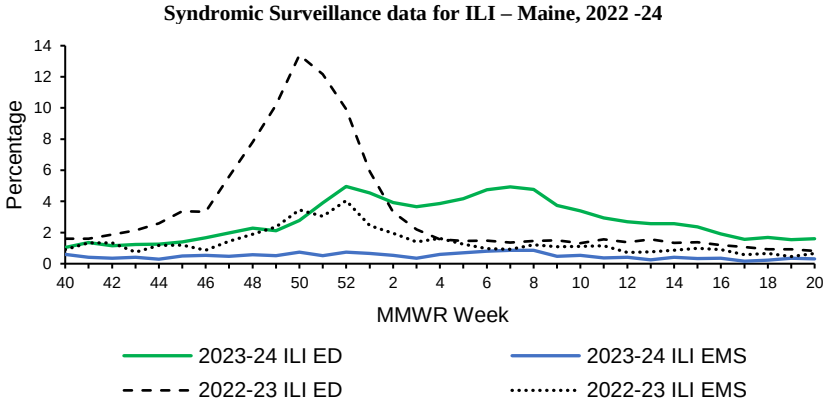
Number of ILINet Reporting Providers
46



Syndromic Surveillance

Percent of Emergency Room Visits Due to ILI
1.6

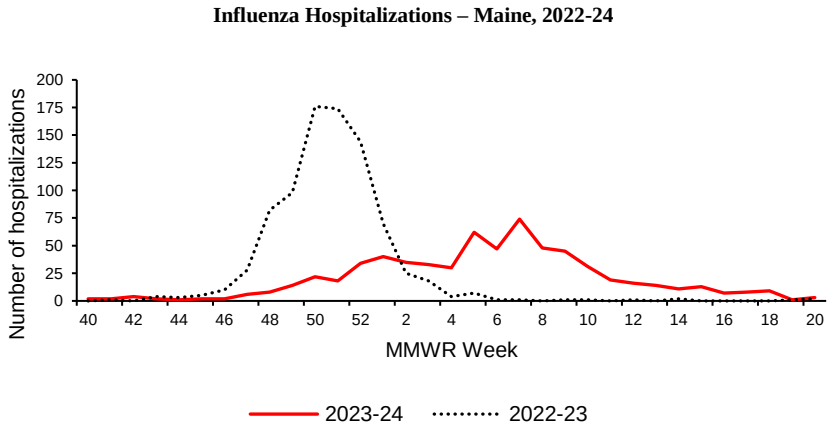
Percent of Emergency Medical Services (EMS) calls for ILI
0.3



Hospitalizations

Influenza-Associated Hospitalizations This Week
3

Total Influenza-Associated Hospitalizations This Season
663



All data are preliminary and subject to change

Pneumonia and Influenza (P&I) Deaths

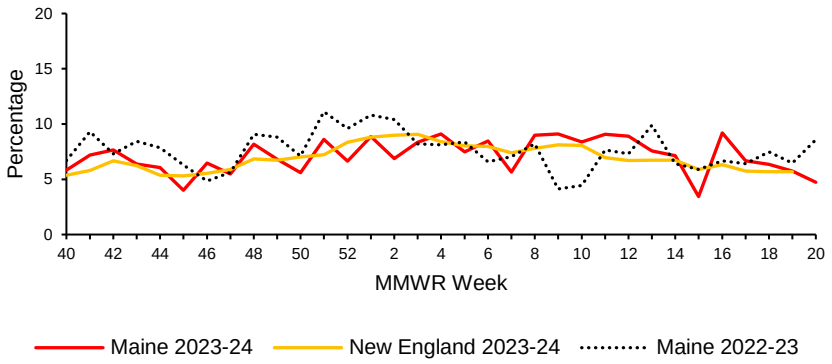
Percent of Deaths Due to P&I
4.7

Influenza-Associated Deaths This Week*
0

Total Influenza-Associated Deaths This Season*
53

Pediatric Influenza-Associated Deaths This Season
0

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

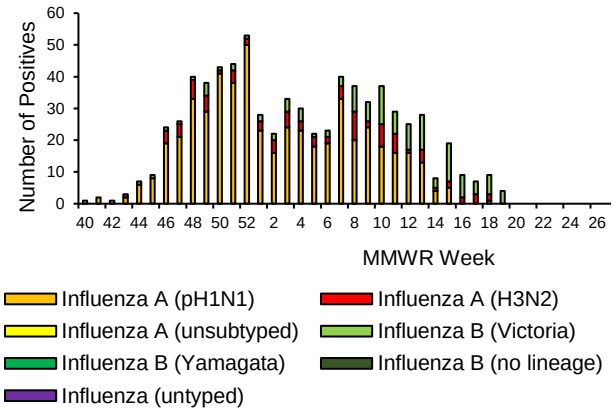


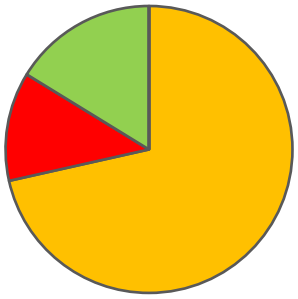
*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I)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

Virologic Surveillance

Health and Environmental Testing Laboratory	Week 20	2023-24 Season
No. of specimens tested	2	796
No. of positive specimens	0	733
Positive specimens by type		
Influenza A		
(H1N1)pdm09	0	524
H3N2	0	90
Influenza B		
Yamagata lineage		
Victoria lineage	0	119

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





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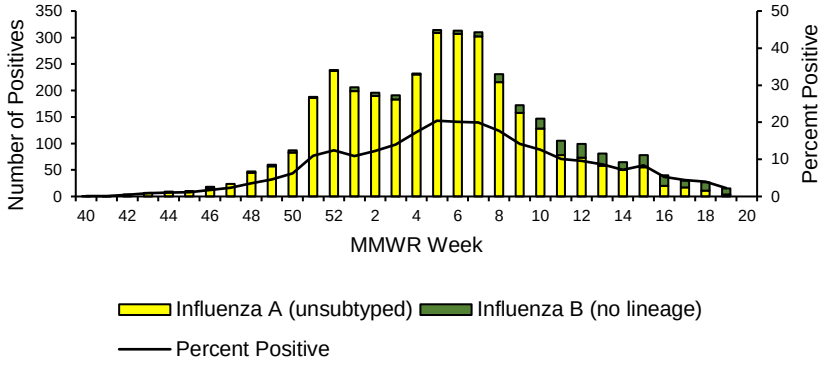
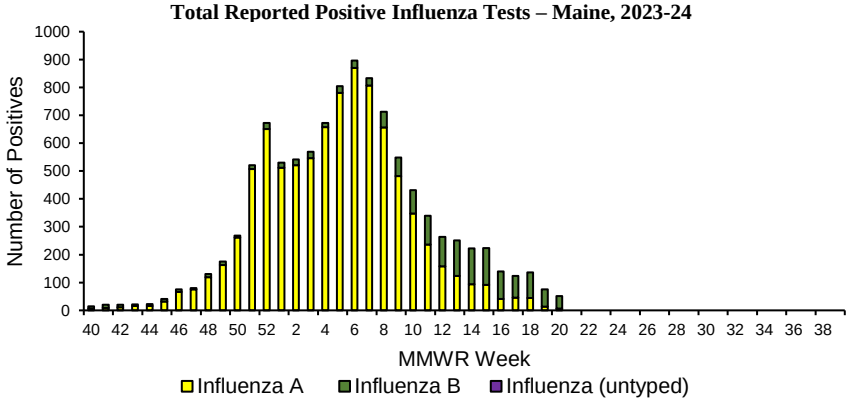
Maine Reference Laboratories	Week 20	2023-24 Season
No. of specimens tested	-	37,067
No. of positive specimens (%)	-	3,547 (9.6%)
Positive specimens by type		
Influenza A		3,547
Influenza B		280

Influenza Positive Tests, Maine Reference Labs – Maine, 2023-24



All Reported Laboratory Results	Week 20	2023-24 Season
No. of specimens positive by antigen test	10	1,570
No. of specimens positive by molecular test	41	8,856
Positive specimens by type		
Influenza A	6	8,967
Influenza B	45	1,459

Total Reported Positive Influenza Tests – Maine, 2023-24



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
- 98.1% 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

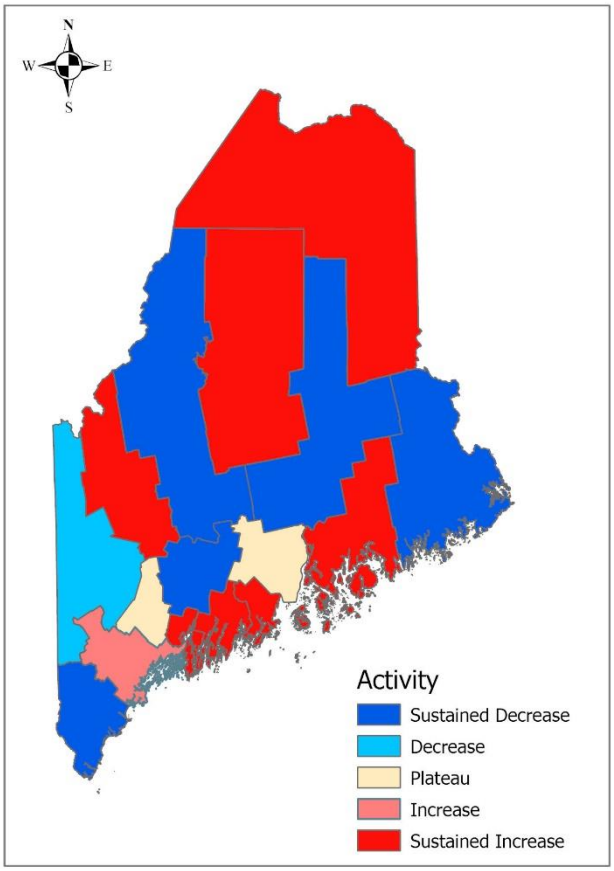
Weekly County-level Influenza, Maine, Week 20

County	Positive labs	Hospitalizations	Activity Trend*	Severity Estimate§
Androscoggin	4	1	Plateau	Low
Aroostook	7	0	Sustained Increase	Low
Cumberland	10	1	Increase	Low
Franklin	0	0	Sustained Increase	Low
Hancock	1	0	Sustained Increase	Low
Kennebec	3	0	Sustained Decrease	Low
Knox	0	0	Sustained Increase	Low
Lincoln	0	0	Sustained Increase	Low
Oxford	5	0	Decrease	Low
Penobscot	5	0	Sustained Decrease	Low
Piscataquis	3	0	Sustained Increase	Low
Sagadahoc	1	0	Sustained Increase	Low
Somerset	1	0	Sustained Decrease	Low
Waldo	0	0	Plateau	Low
Washington	5	0	Sustained Decrease	Low
York	6	1	Sustained Decrease	Low
Total	**51**	**3**		

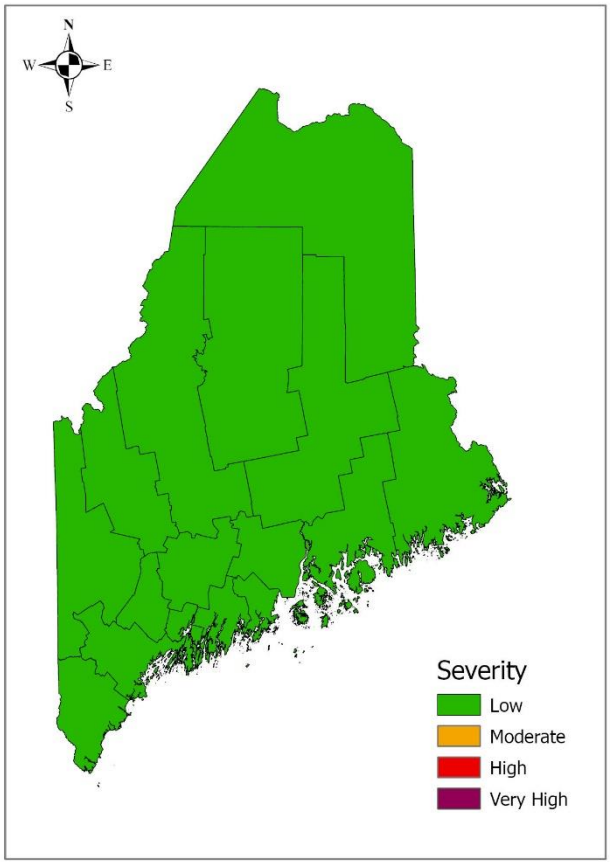
*Activity trends are determined by county-level emergency department visits due to ILI. Activity trend levels include "sustained increase", "increase", "plateau", "decrease", and "sustained decrease." This will become available when enough weeks of data have been collected.

§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 20



Influenza Severity Estimates, Maine, Week 20



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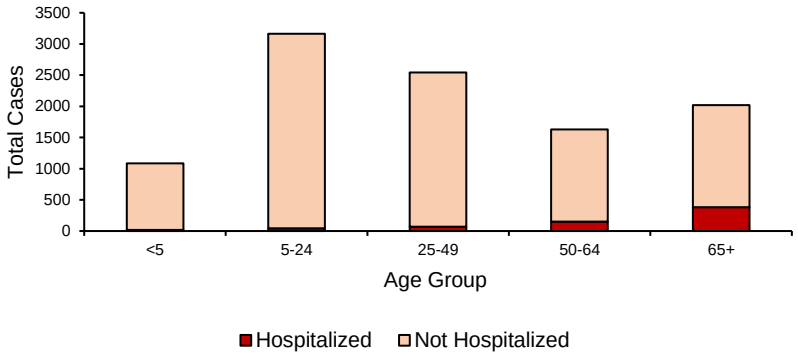
Age Information – Maine, 2023-24 Influenza Season

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

Positive Influenza Tests by Age and Hospitalization Status – Maine, 2023-24



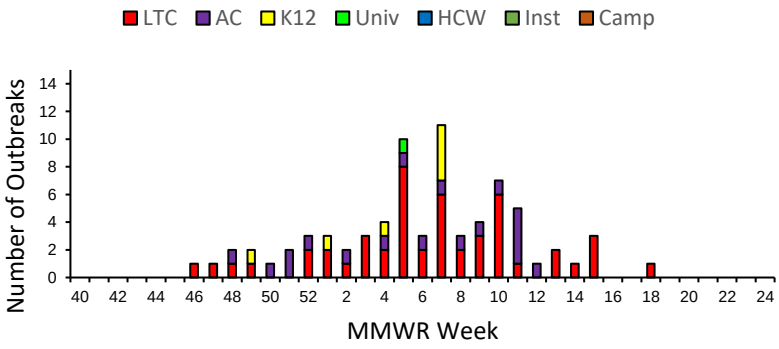
Influenza-Like Illness Outbreaks – Maine, 2023-24 Influenza Season

Number of New Outbreak Investigations
0

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	5							5
Piscataquis	1							1
Sagadahoc								0
Somerset	4		1					5
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/

- 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