

Maine Weekly Influenza Surveillance Report

December 27, 2017



For MMWR week 51 (ending 12/23/2017)

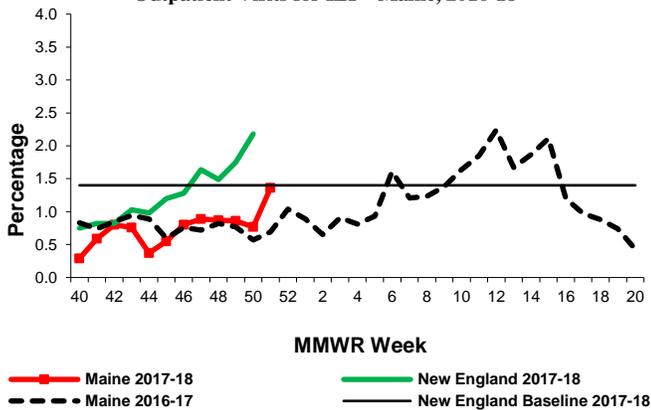
New This Week

- Federal Flu Code: Regional
- 20 new hospitalizations
- 2 new outbreaks, both in long term care facilities

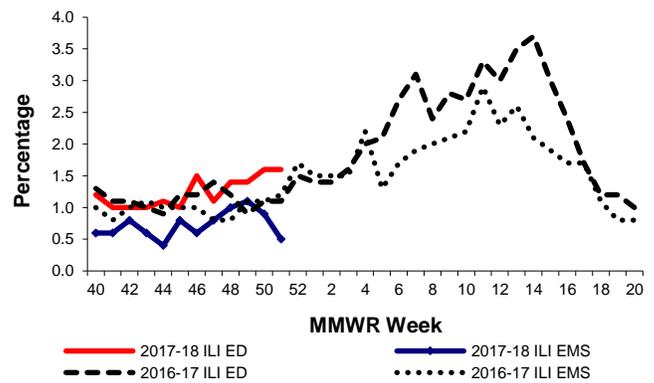
Surveillance Information – Maine, 2017-2018 Influenza Season

- Number of ILINet Providers reporting: 20
 - % of visits for Influenza-Like Illness (ILI): 1.36%
- Syndromic Surveillance
 - % of Emergency Room visits for ILI: 1.6%
 - % of Emergency Medical Services (EMS) runs for ILI: 0.5%
- Influenza Hospitalizations
 - # of hospitalizations: 20
- Electronic Death Reporting System
 - % of deaths due to P&I: 6.7%

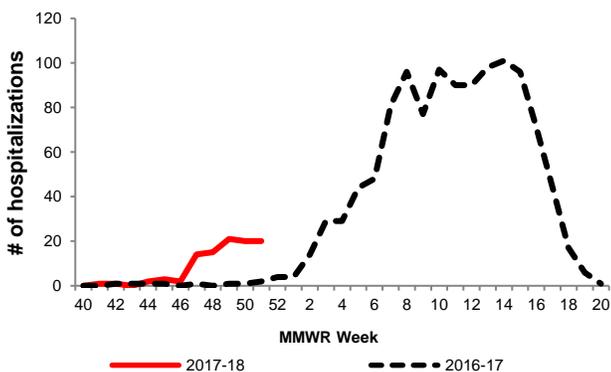
Outpatient Visits for ILI – Maine, 2016-18



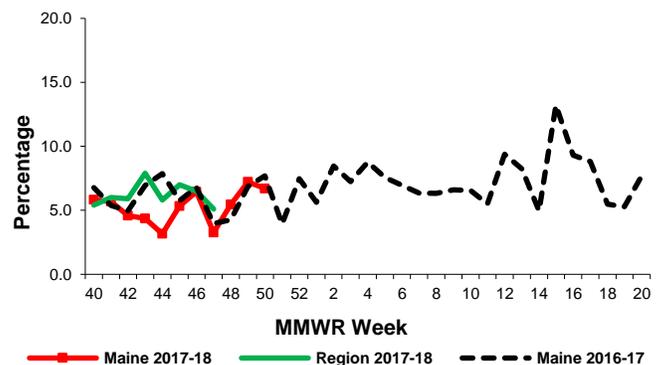
Syndromic Surveillance data for ILI – Maine, 2016 -18



Influenza Hospitalizations – Maine, 2016-18



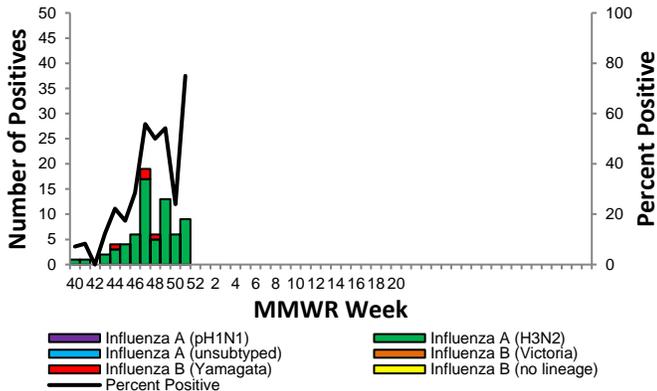
Deaths Attributable to P&I – Maine, 2016-18



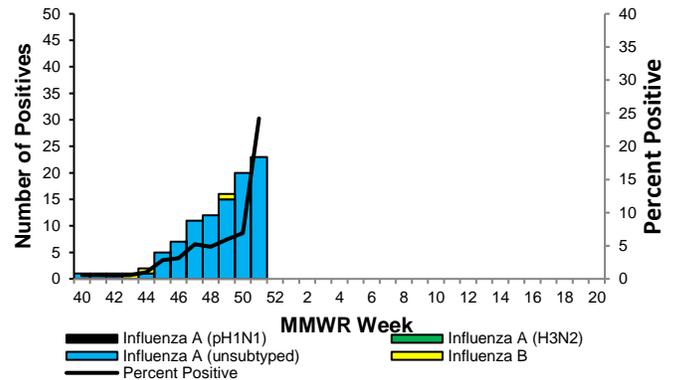
Lab Data – Maine, 2017-2018 Influenza Season

- # of samples tested at HETL: 12
 - # positive: 9
 - % positive: 75
- # of samples tested at Maine Reference Labs: 95
 - # positive: 23
 - % positive: 24.2
- # of samples positive by rapid antigen test: 22

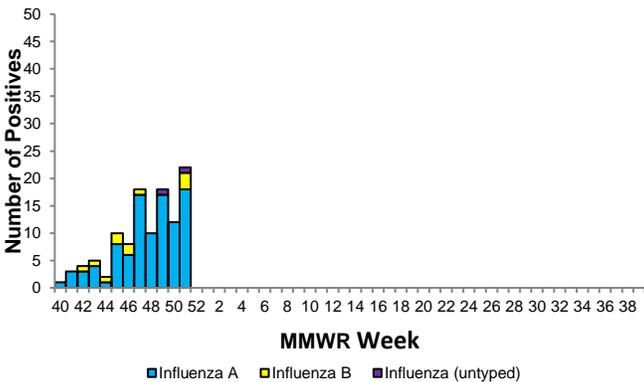
Positive PCR Samples for Influenza, HETL – Maine, 2017-18



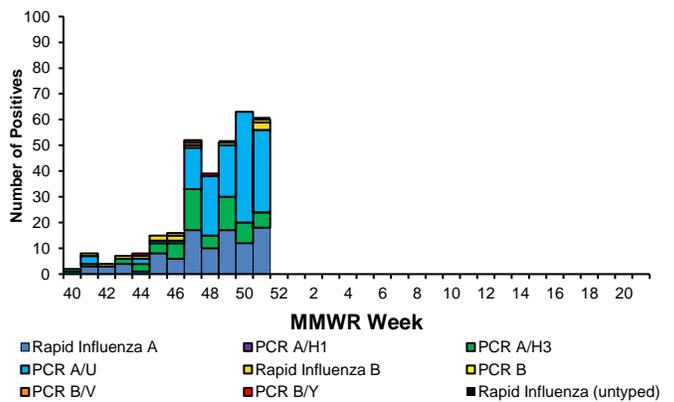
Positive Samples for Influenza, Maine Reference Labs – Maine, 2017-18



Positive Influenza Rapid Antigen Tests – Maine, 2017-18



All Positive Influenza Results – Maine 2017-18



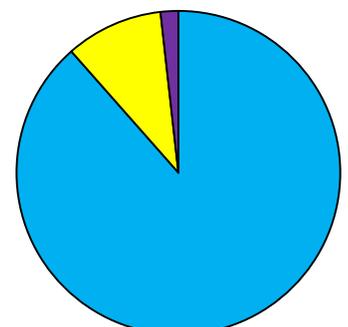
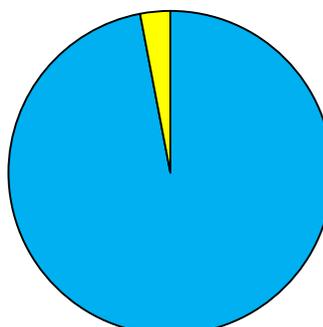
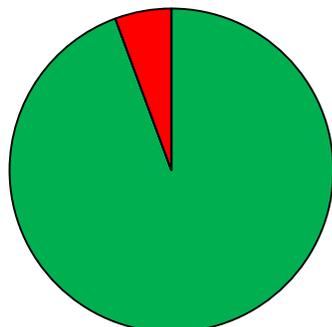
Cumulative Influenza Positive Tests Reported to Maine CDC by Strain and Test Type

HETL

Reference Labs

Rapid Tests

- Influenza A (pH1N1)
- Influenza A (H3N2)
- Influenza A (unsubtyped)
- Influenza B (Victoria)
- Influenza B (Yamagata)
- Influenza B (no lineage)
- Influenza (untyped)



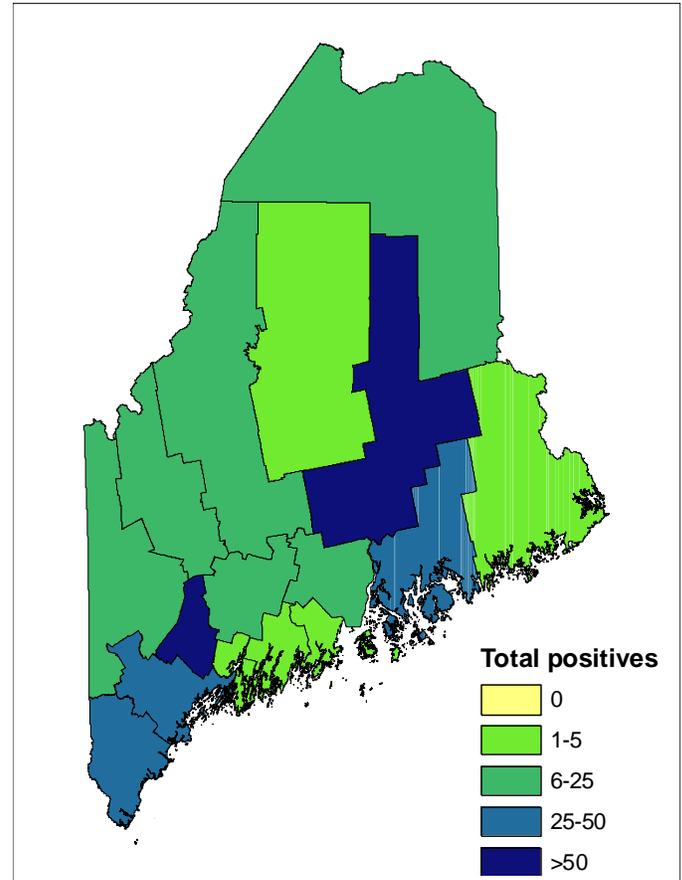
All data is preliminary and subject to change

Geographic Distribution of Lab Tests, Maine 2017-18*

County	Positive labs		Hospitalizations	
	Tested this week	Total	New this week	Total
Androscoggin	12	55	0	8
Aroostook	2	16	0	5
Cumberland	11	42	3	7
Franklin	3	13	0	2
Hancock	11	31	4	7
Kennebec	0	18	0	3
Knox	2	5	1	3
Lincoln	2	5	1	3
Oxford	3	9	0	2
Penobscot	22	113	5	42
Piscataquis	0	2	0	0
Sagadahoc	3	4	0	0
Somerset	2	8	0	2
Waldo	3	10	3	5
Washington	0	1	0	2
York	0	41	3	8
Total	76	373	20	99

*Only reported PCR, culture, and rapid antigen tests are included in the chart and map.

Positive Influenza Tests, Maine 2017-18



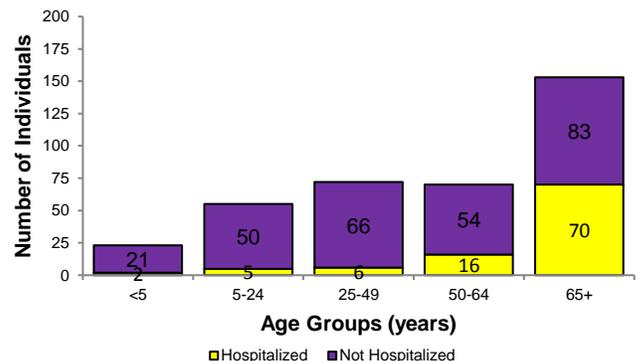
Antiviral Resistance – Maine, 2017-18 Influenza Season

- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 0
 - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 33
 - # with resistance: 0

Age and Gender Information – Maine, 2017-18 Influenza Season

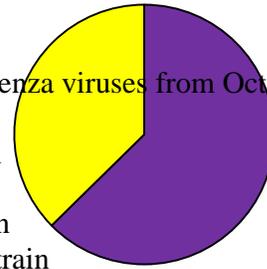
- Minimum Age: 4 months
- Mean Age: 53 years
- Maximum Age: 100 years
- Hospitalized Minimum Age: 1 year
- Hospitalized Mean Age: 59 years
- Hospitalized Maximum Age: 100 years

Positive Influenza Tests by Age – Maine, 2017-18



Antigenic Characterization (Vaccine Match)

- Federal CDC has antigenically or genetically characterized 526 influenza viruses from October 1 – December 9, 2017
 - 100% of influenza A/H1N1 samples match the vaccine strain
 - 98.9% of influenza A/H3 samples match the vaccine strain
 - 50% of influenza B/Victoria samples match the vaccine strain
 - 100% of influenza B/Yamagata samples match the vaccine strain

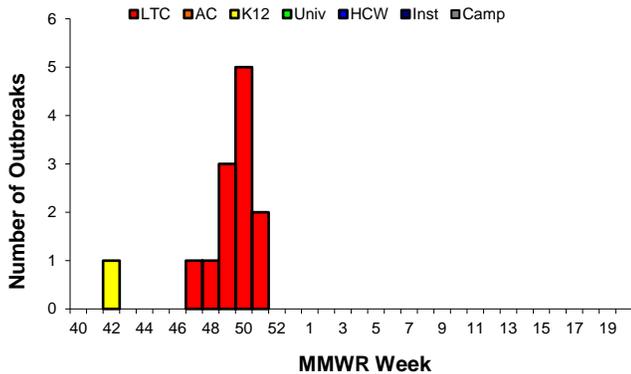


Influenza-Like Illness Outbreaks – Maine, 2017-18 Influenza Season

■ Female ■ Male

- # new outbreaks: 2
- Total outbreaks 2017-18 season: 13

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2017-18



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 Outbreak by Facility Type and County – Maine, 2017-18

County	LTC	AC	K12	Univ	HCW	Inst	Camp	Total
Androscoggin	2	0	0	0	0	0	0	2
Aroostook	1	0	0	0	0	0	0	1
Cumberland	1	0	0	0	0	0	0	1
Franklin	0	0	0	0	0	0	0	0
Hancock	0	0	0	0	0	0	0	0
Kennebec	0	0	0	0	0	0	0	0
Knox	0	0	0	0	0	0	0	0
Lincoln	1	0	0	0	0	0	0	1
Oxford	0	0	0	0	0	0	0	0
Penobscot	7	0	0	0	0	0	0	7
Piscataquis	0	0	0	0	0	0	0	0
Sagadahoc	0	0	0	0	0	0	0	0
Somerset	0	0	1	0	0	0	0	1
Waldo	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
York	0	0	0	0	0	0	0	0
Total	12	0	1	0	0	0	0	13

Pediatric Influenza Deaths

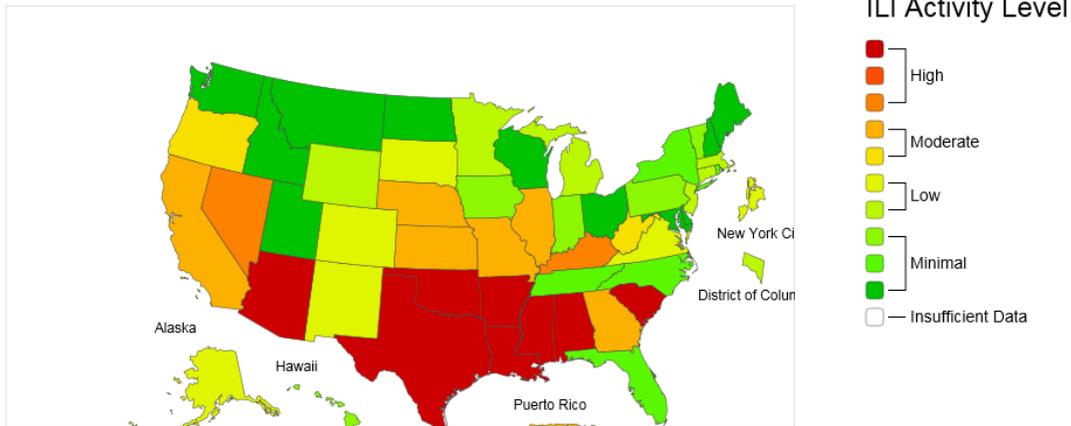
- No pediatric influenza-associated deaths reported during the 2017-18 influenza season

National Influenza Surveillance Data

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



2017-18 Influenza Season Week 50 ending Dec 16, 2017



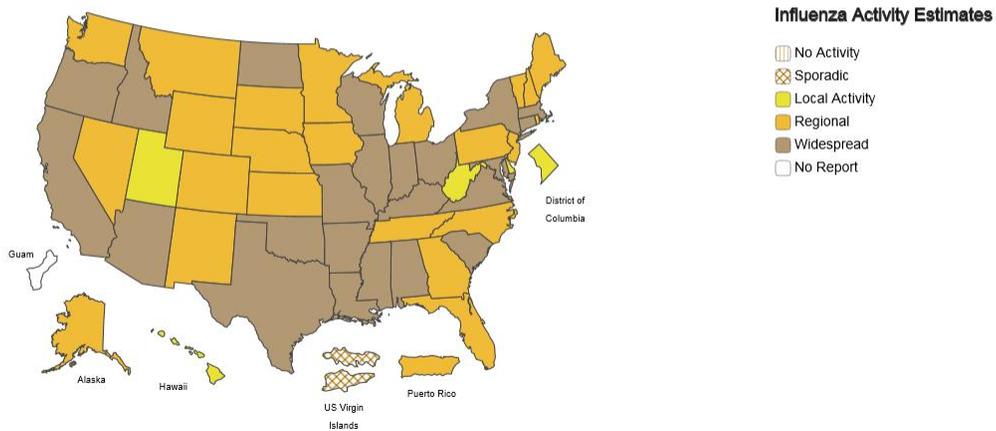
*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the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



A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Dec 16, 2017 - Week 50



*This map indicates geographic spread and does not measure the severity of influenza activity.

All data is preliminary and subject to change