Maine Weekly Influenza Surveillance Report

February 26, 2019

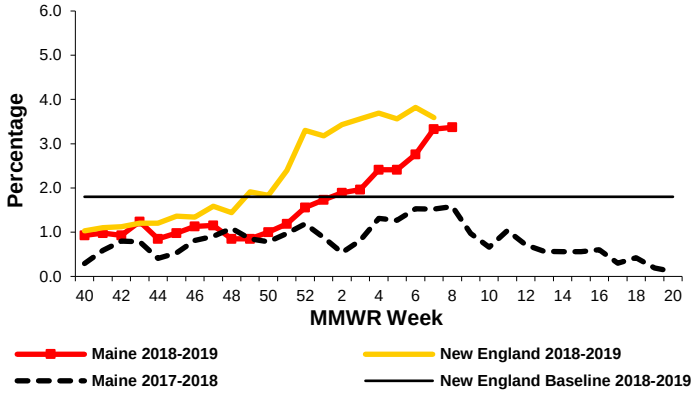
For MMWR week 8 (ending 02/23/2019)

Federal Flu Code: Widespread

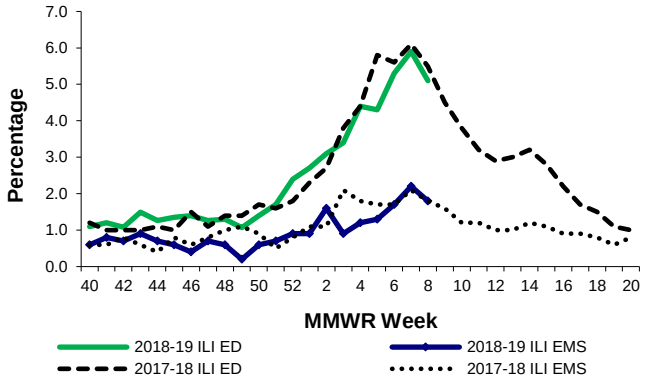
Surveillance Information – Maine, 2018-2019 Influenza Season

- Number of ILINet Providers reporting: 48
  - % of visits for Influenza-Like Illness (ILI): 3.37
- Syndromic Surveillance
  - % of Emergency Room visits for ILI: 5.1
  - % of Emergency Medical Services (EMS) runs for ILI: 1.8

Outpatient Visits for ILI – Maine, 2017-19



Syndromic Surveillance data for ILI – Maine, 2017 -19



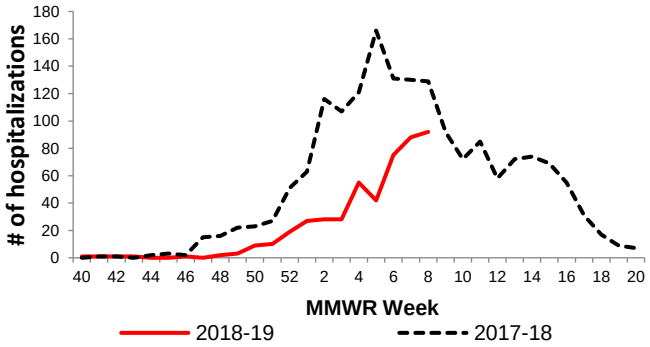
Influenza Hospitalizations

- # of hospitalizations: 92

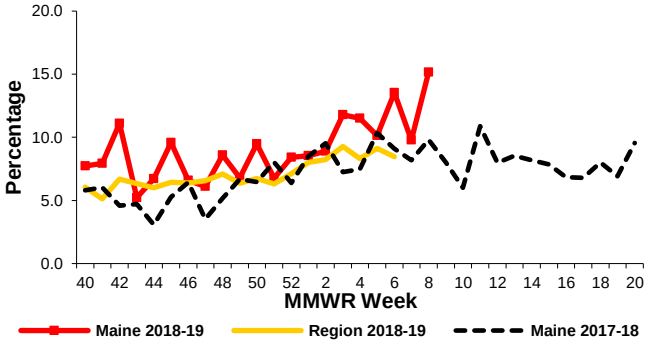
Pneumonia and Influenza (P&I) Deaths

- % of deaths due to P&I: 15.2
- # influenza deaths reported this week: 3
- Total influenza deaths this season: 18

Influenza Hospitalizations – Maine, 2017-19



Deaths Attributable to P&I – Maine, 2017-19



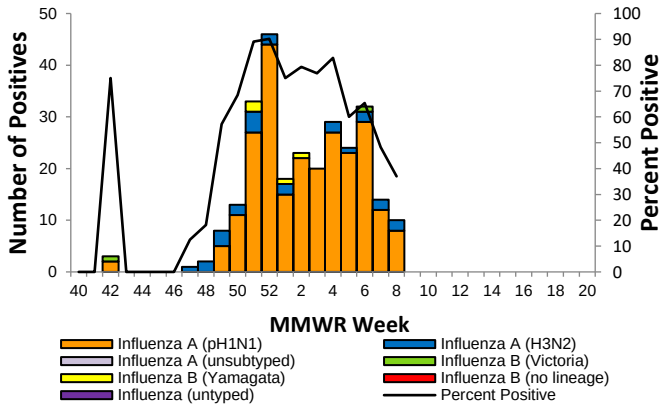
*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I)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

All data is preliminary and subject to change

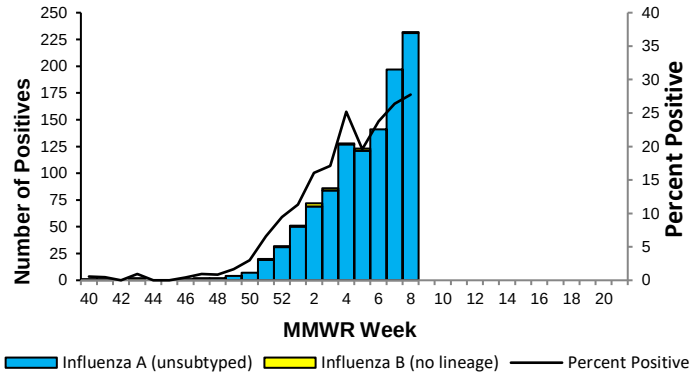
Lab Data – Maine, 2018-2019 Influenza Season

- # of samples tested at HETL: 27
  - # positive: 10
  - % positive: 37
- # of samples tested at Maine Reference Labs: 836
  - # positive: 232
  - % positive: 27.8
- # of samples positive by rapid antigen test: 241

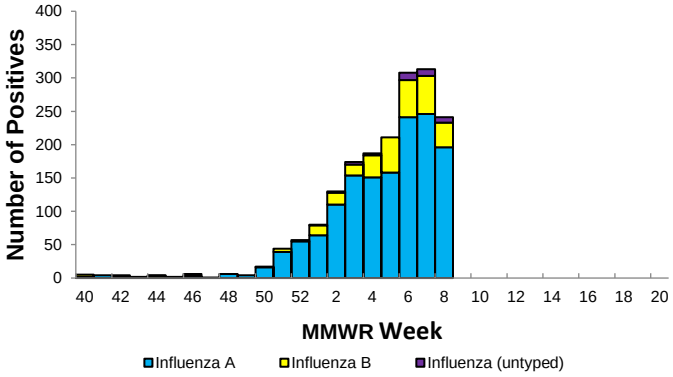
Positive PCR Samples for Influenza, HETL – Maine, 2018-19



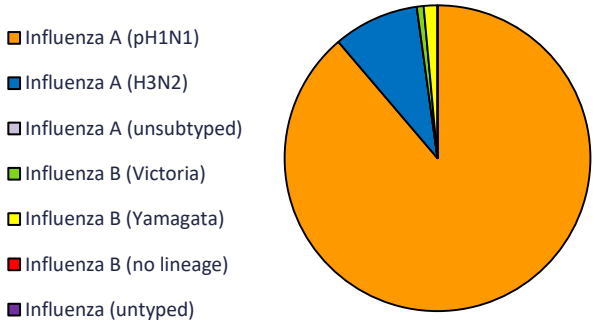
Positive Samples for Influenza, Maine Reference Labs – Maine, 2018-19



Positive Influenza Rapid Antigen Tests – Maine, 2018-19



Cumulative Influenza Positive Tests by Strain, HETL – Maine, 2018-19



Antiviral Resistance – Maine, 2018-19 Influenza Season

- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 119
  - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 10
  - # with resistance: 0

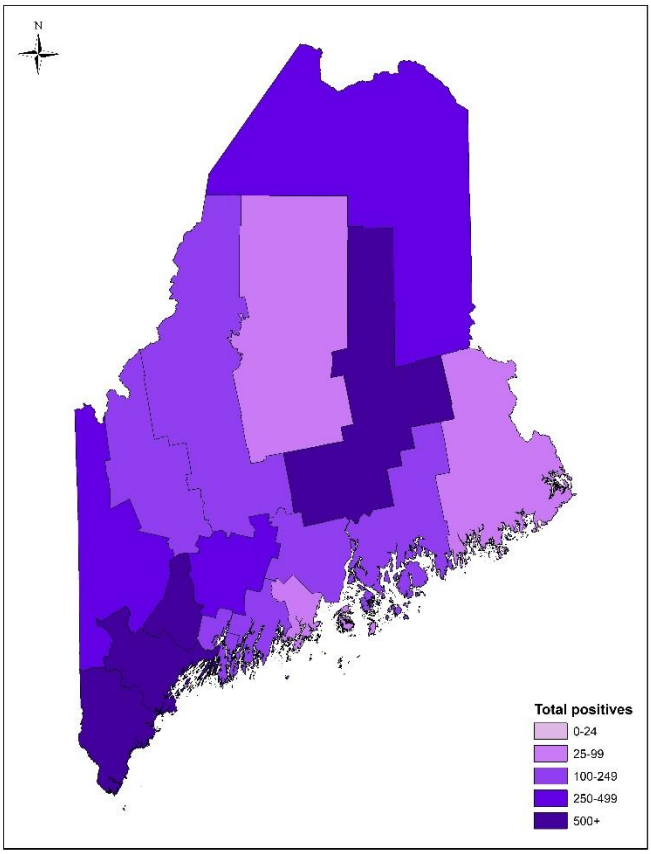
All data is preliminary and subject to change

Geographic Distribution of Lab Tests, Maine 2018-19*

County	Positive labs		Hospitalizations	
	Tested this week	Total	New this week	Total
Androscoggin	142	730	12	57
Aroostook	43	277	0	4
Cumberland	103	679	16	87
Franklin	19	217	4	19
Hancock	24	143	2	10
Kennebec	54	294	13	54
Knox	21	91	3	16
Lincoln	25	114	2	15
Oxford	43	319	5	34
Penobscot	100	516	13	55
Piscataquis	4	27	0	5
Sagadahoc	22	107	3	23
Somerset	43	205	4	25
Waldo	27	110	2	8
Washington	4	47	2	8
York	157	958	11	63
Total	**831**	**4834**	**92**	**483**

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

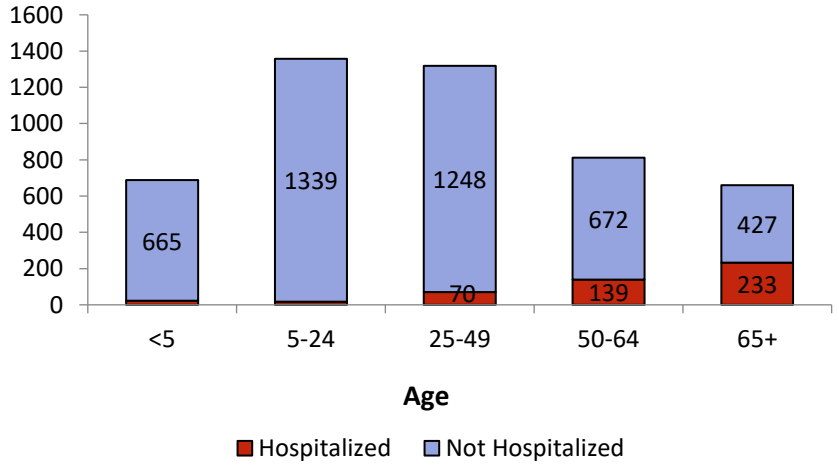
Positive Influenza Tests, Maine 2018-19



Age Information – Maine, 2018-19 Influenza Season

	Cases	Hospitalizations	Deaths
Minimum Age	2 days	2 days	40 years
Mean Age	33 years	60 years	73 years
Maximum Age	102 years	102 years	98 years

Positive Influenza Tests by Age – Maine, 2018-19



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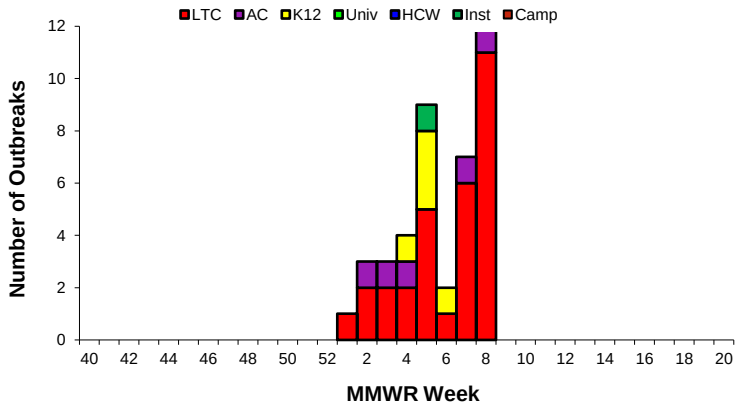
Antigenic Characterization (Vaccine Strain Match)

- Federal CDC has antigenically or genetically characterized 1129 influenza viruses from September 30–February 16, 2019.
  - 98.5% of influenza A/H1N1 samples match the vaccine strain
  - 66% of influenza A/H3N2 samples match the vaccine strain
  - 82.5% of influenza B/Victoria samples match the vaccine strain
  - 100% of influenza B/Yamagata samples match the vaccine strain
- Antigenic characterization shows if the circulating strains are the same strains that were used to make the vaccine. This does not tell you how effective the vaccine is at creating an immune response. For current vaccine effectiveness rates visit https://www.cdc.gov/mmwr/volumes/68/wr/mm6806a2.htm.

Influenza-Like Illness Outbreaks – Maine, 2018-19 Influenza Season

- # new outbreaks: 12
- Total outbreaks 2018-19 season: 41

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2018-19



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, 2018-19

County	LTC	AC	K12	Univ	HCW	Inst	Camp	Total
Androscoggin	5	1	0	0	0	0	0	6
Aroostook	2	0	0	0	0	0	0	2
Cumberland	9	0	0	0	0	1	0	10
Franklin	2	0	0	0	0	0	0	2
Hancock	0	0	0	0	0	0	0	0
Kennebec	2	2	0	0	0	0	0	4
Knox	1	0	0	0	0	0	0	1
Lincoln	0	0	0	0	0	0	0	0
Oxford	1	0	0	0	0	0	0	1
Penobscot	3	2	1	0	0	0	0	6
Piscataquis	0	0	0	0	0	0	0	0
Sagadahoc	0	0	1	0	0	0	0	1
Somerset	2	0	0	0	0	0	0	2
Waldo	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
York	3	0	3	0	0	0	0	6
Total	30	5	5	0	0	1	0	41

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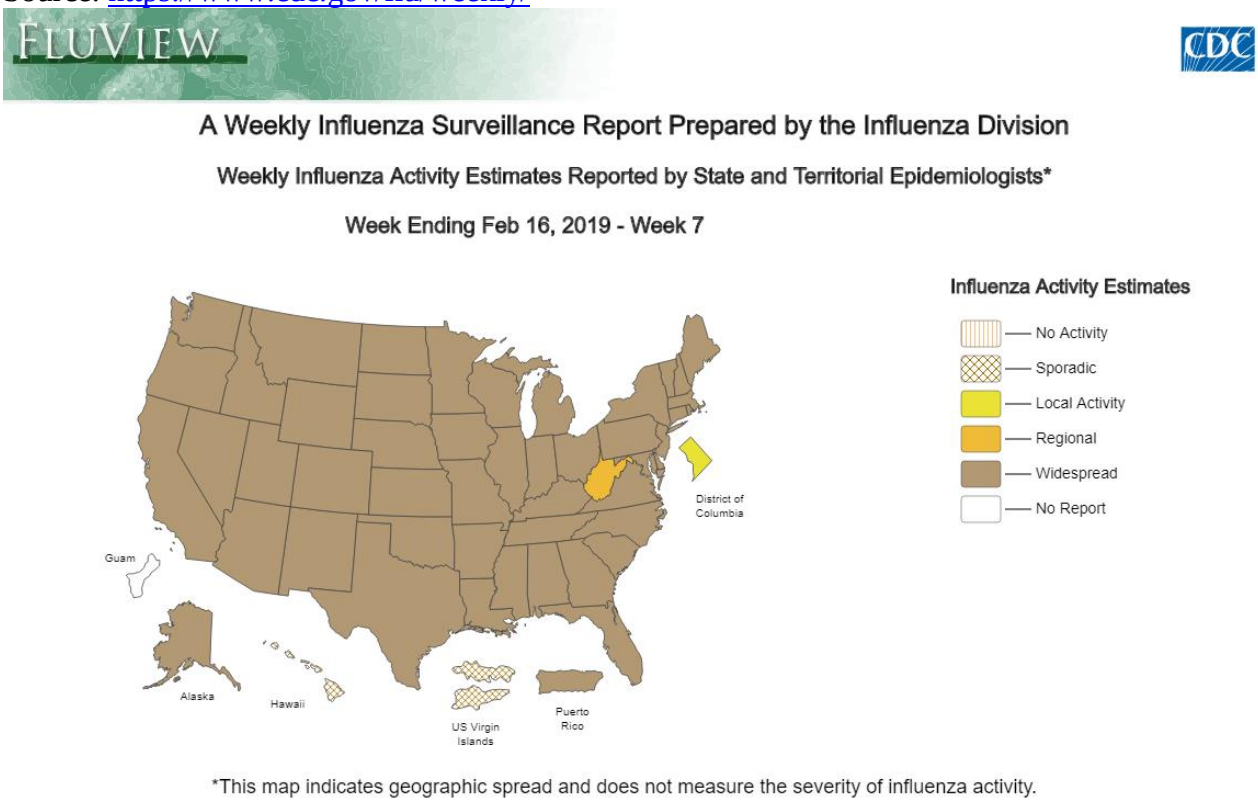
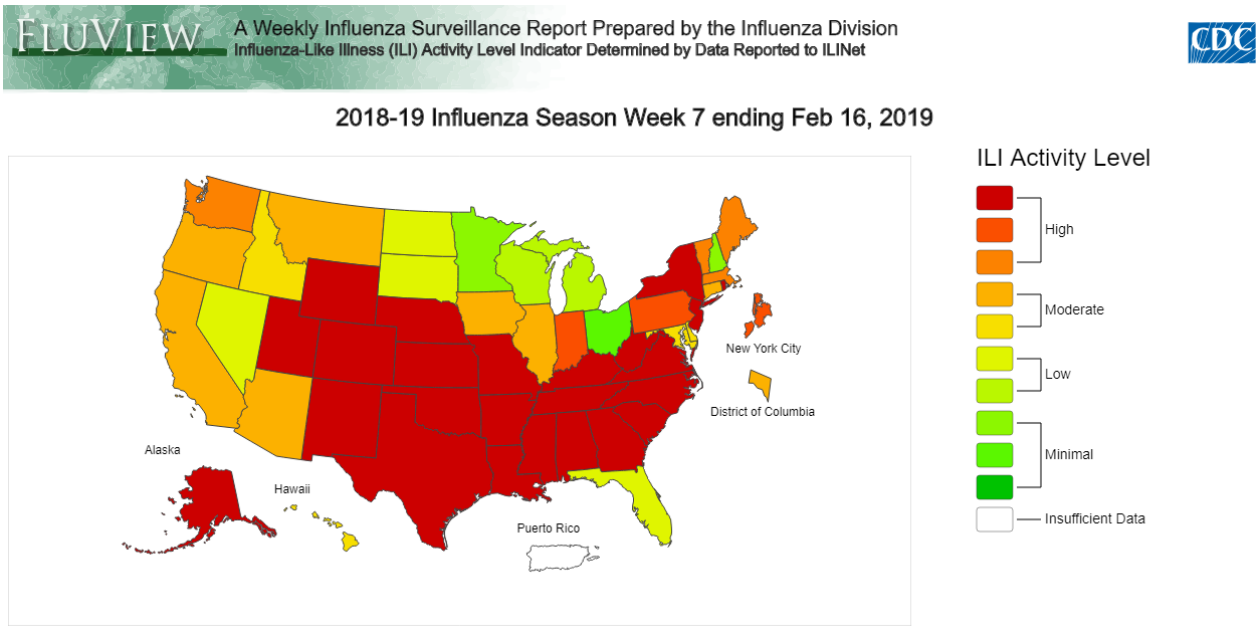
National Influenza Surveillance Data
Source: https://www.cdc.gov/flu/weekly/





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