



Michigan Flu Focus

Weekly Influenza Surveillance Report



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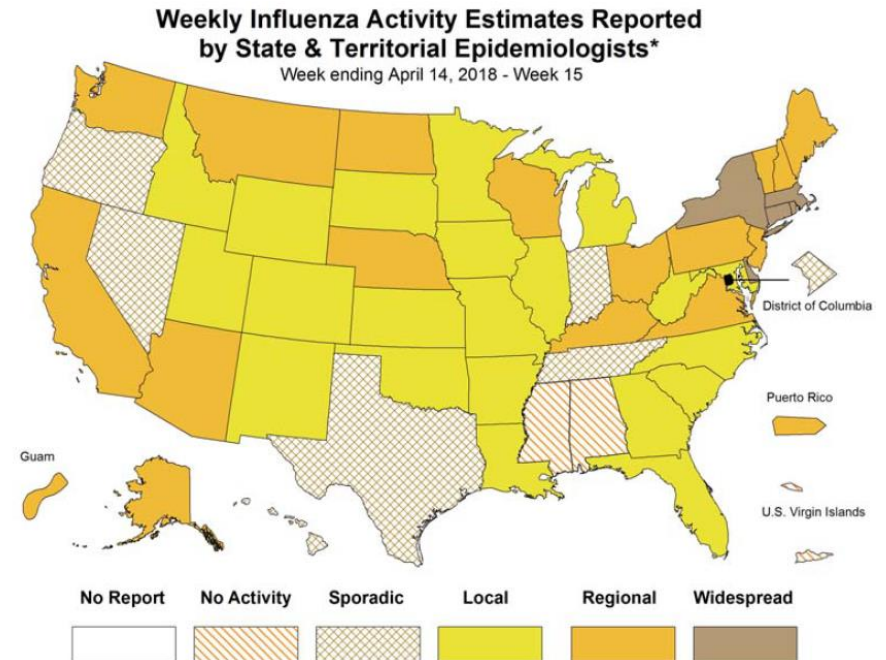
April 20, 2018

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Week Ending April 14, 2018 | WEEK 15

Michigan Influenza Activity
No Activity
Sporadic
<u>Local</u>
Regional
Widespread

*Clicking on the current activity level will direct you to the CDC webpage defining each activity level for the geographic spread of influenza



Updates of Interest

Remembering the 1918 Influenza Pandemic 100 years ago as the most severe pandemic in recent history, affecting an estimated 500 million people and leading to at least 50 million deaths worldwide.

Click [here](#) for a look back on the pandemic and the current preventative measures being used from the CDC.

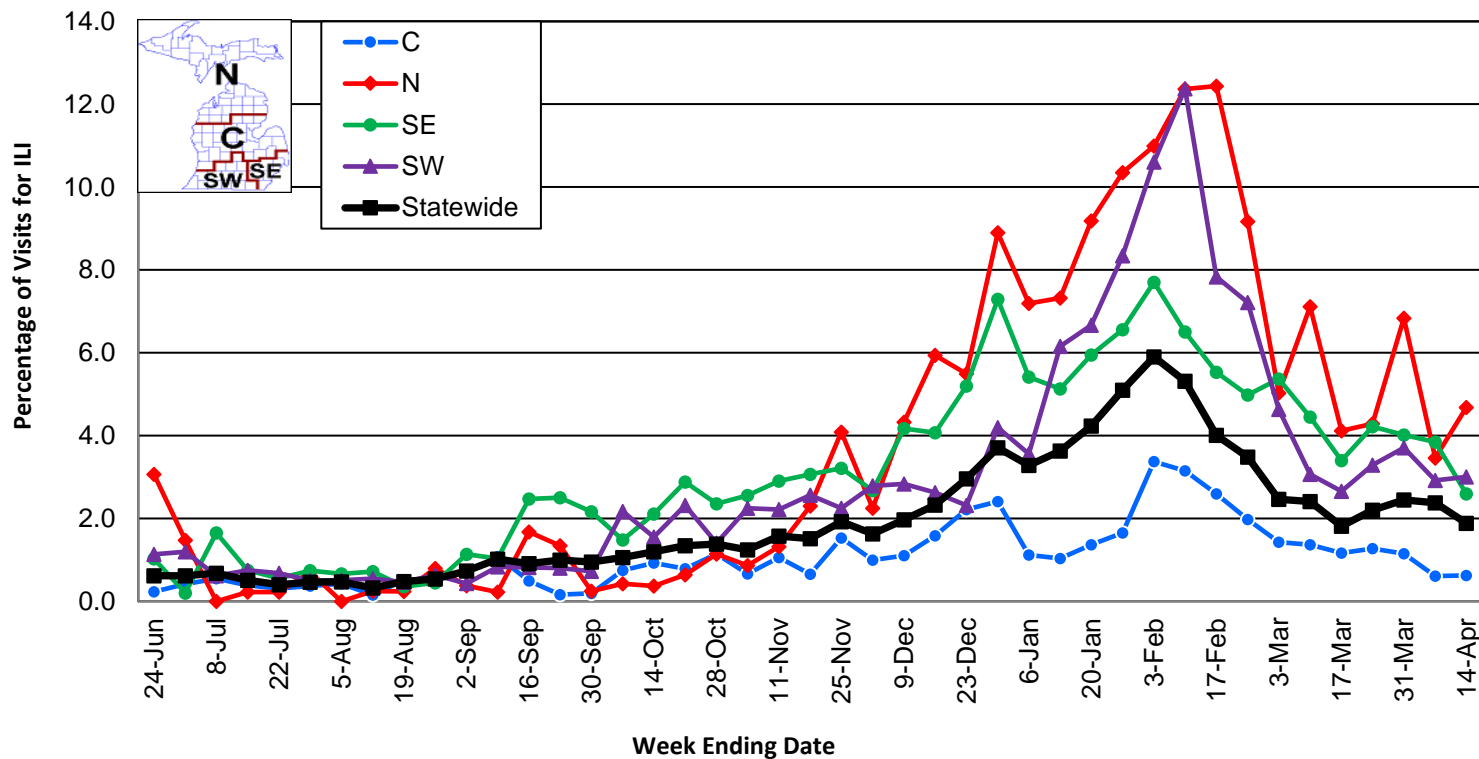
Influenza-associated Pediatric Mortality

To date, two (2) pediatric influenza deaths (A/H3) have been confirmed by MDHHS for the 2017-2018 flu season. Nationally, one hundred fifty-six (156) influenza-associated pediatric deaths have been reported thus far for the 2017-2018 flu season.

- Number of reports by region: 34 total [C(10), N(3), SE(14), SW(7)]
- Proportion of visits due to ILI: ↓ 1.9 % (regional baseline*: 1.8%)
- A total of 206 patient visits due to ILI were reported out of 10,918 office visits

*Regional baseline is developed by calculating the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

Percentage of Visits for Influenza-like Illness (ILI)
Reported by Sentinel Providers, Statewide and Regions
2016-17 and 2017-18 Flu Seasons



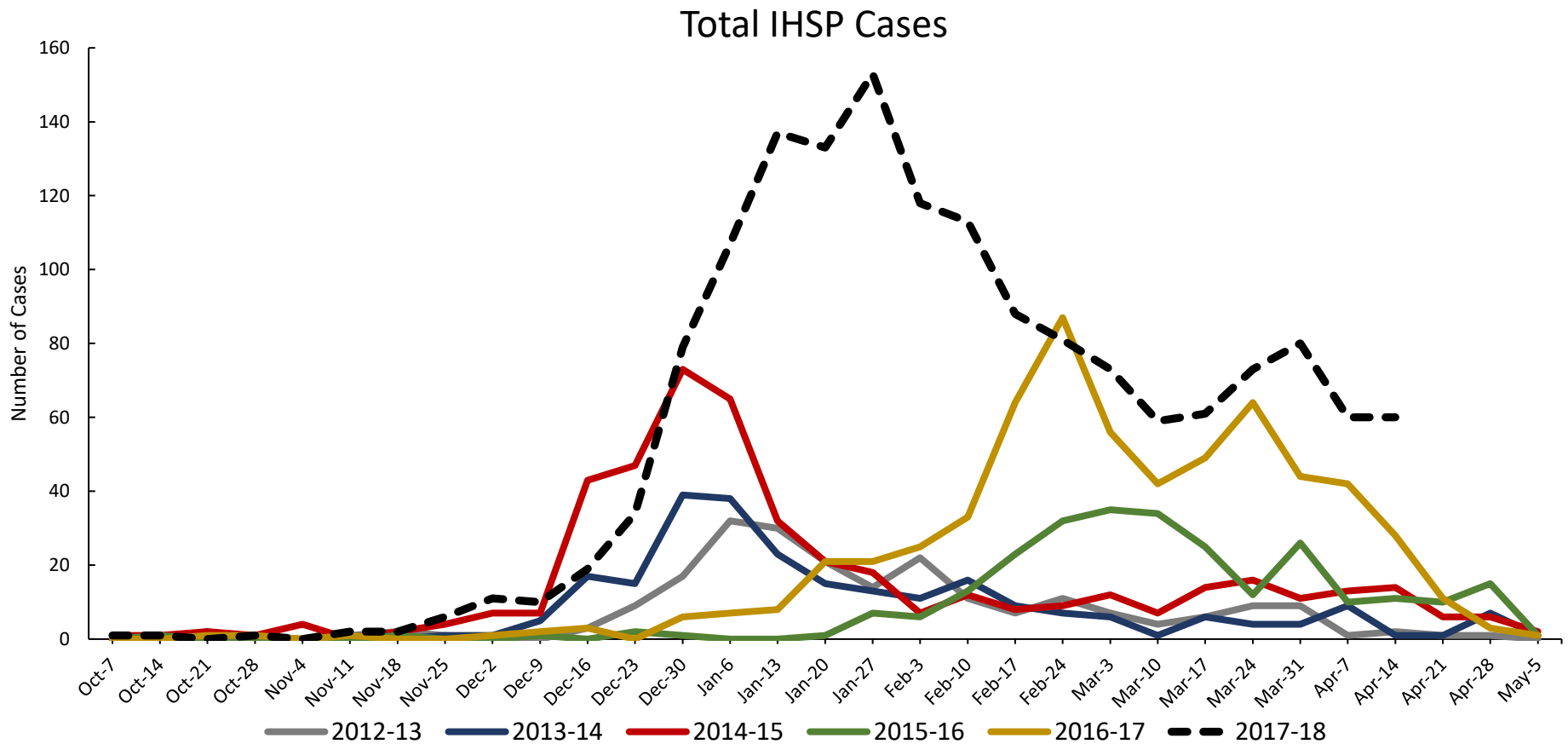
Become a Sentinel Provider! Contact:
EckelS1@michigan.gov

National Surveillance

In the United States, 1.8% of outpatient visits were due to influenza-like illness, which is below the national baseline of 2.2%.

Influenza Hospitalization Surveillance Project

The CDC Influenza Hospitalization Surveillance Project (IHSP) provides population-based rates of hospitalization due to severe influenza-related illness through active surveillance and chart review of lab-confirmed cases from Oct. 1, 2017 until Apr. 30, 2018, for Clinton, Eaton, Ingham, Genesee, and Washtenaw counties. Since Oct. 1, there have been a total of **1,562 (140 pediatric, 1,422 adult)** influenza-related hospitalizations reported in the catchment area for the 2017-2018 season.



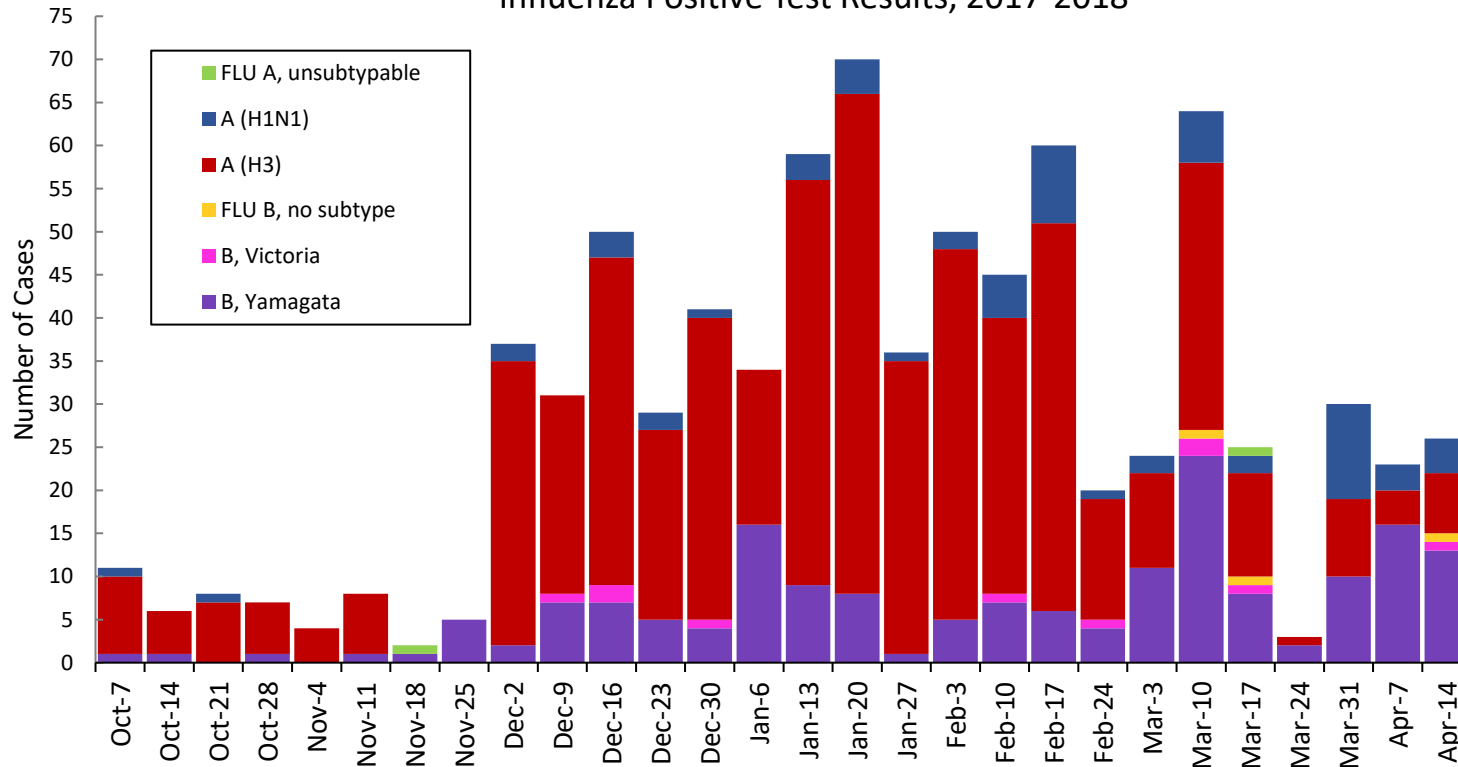
Genesee County was added in 2012-2013

Washtenaw County was added in 2017-2018

MDHHS Bureau of Laboratories reported 35 new positive influenza (10C, 0N, 5SE, 20SW).

Respiratory Virus	# Positive Respiratory Virus Results by Region				Overall Total
	C	N	SE	SW	
2009 A/H1N1pdm	19	4	22	20	65
Influenza A/H3	213	41	103	216	573
Influenza B	58	15	47	76	196
Total	290	60	172	312	834

Influenza Positive Test Results, 2017-2018



*Based on STARLIMS MDHHS BOL Testing Portal

Note: Flu B subtyping will be reported based on MDHHS BOL testing runs (roughly each month) and will be backtracked into this graph

Most recent MDHHS BOL Flu B subtyping run: **April 13, 2018.**

Michigan Sentinel Clinical Lab Respiratory Virus Data

Eight (8) sentinel clinical labs (1SE, 1SW, 6C, 0N) reported during this week.

SE Region

- Influenza A: modestly elevated
- Influenza B: modestly elevated; decreased from previous week; predominant
- Parainfluenza: slightly elevated
- RSV: slightly elevated; decreasing
- Adenovirus: low
- hMPV: modestly elevated; steady

Central Region

- Influenza A: low or slightly elevated; steady or decreasing
- Influenza B: modestly elevated; variable; predominant
- Parainfluenza: low; steady
- RSV: low or slightly elevated; steady
- Adenovirus: low
- hMPV: low or modestly elevated; variable

SW Region

- Influenza A: slightly elevated; downward trend
- Influenza B: moderately elevated; steady; largely predominant
- Parainfluenza: low
- RSV: modestly elevated; steady
- Adenovirus: low
- hMPV: slightly elevated; slightly increased from previous week

North Region

- No data available

There were 3 (0N, 1C, 0SE, 2SW) new respiratory viral outbreaks reported to MDHHS during this time period.

Respiratory outbreaks for the 2017-2018 season are listed in the table below.

Facility Type	C	N	SE	SW	Total	2015-2016 Total	2016-2017 Total
Schools: K-12 & College	9		2	3	14	10	25
Long-term Care / Assisted Living Facility	91	10	58	67	226	60	138
Healthcare Facility	2		1		3	11	23
Daycare	2			2	4	2	3
Homeless Shelter						0	1
Correctional Facility	1	4	1	4	10	2	2
Other						2	3
Total	105	14	62	76	257	87	195

Did you know?

Congregate setting outbreaks of viral respiratory illnesses are required to be reported to your local health department? See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

FluBytes

- [April 16 WHO Update](#)
 - Flu continues to decline in most of the Northern Hemisphere – except in parts of Eastern Europe, including Latvia and Russia with continued reporting of high influenza activity

MDHHS Contributors

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For questions or to be added to the distribution list, please contact Seth Eckel at EckelS1@michigan.gov