



Michigan Flu Focus

Weekly Influenza Surveillance Report



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Week Ending August 3, 2019 | WEEK 31

Updates of Interest

Two fairs associated with swine influenza have been reported:

The Michigan Department of Agriculture and Rural Development (MDARD) have identified pigs that have tested positive for swine influenza at the Fowlerville Family Fair in Fowlerville, MI that took place July 22-27 and the Eastern Michigan State Fair in Imlay City, MI that took place July 23-27. All pigs were removed from both fairs and no human cases associated with the fairs have been confirmed.

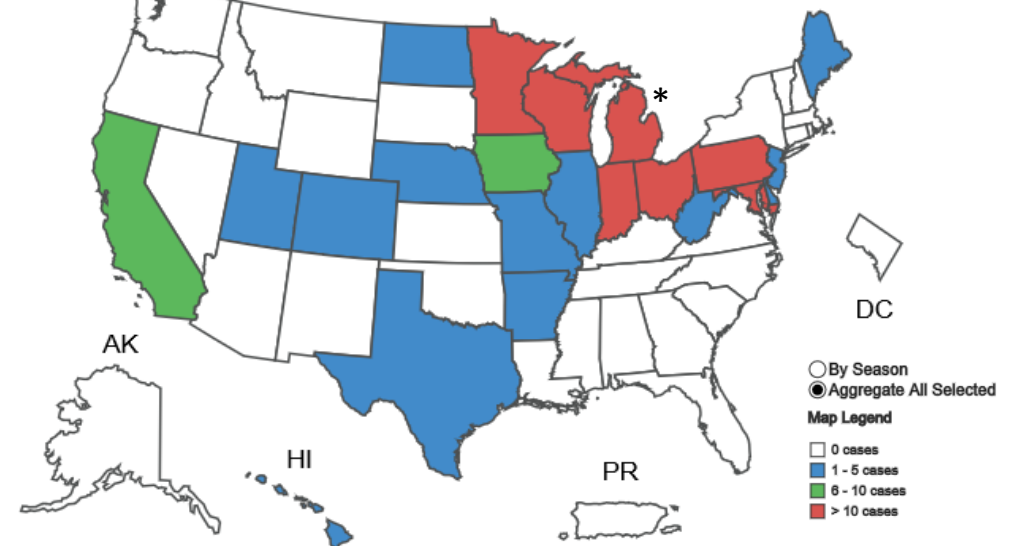
Livingston County Health Department Press Release:

<https://www.livgov.com/health/Documents/mediaReleases/2019-7-27-LCHD-Swine-Flu-Release-Final.pdf>

Lapeer County Health Department Press Release:

http://lapeercountyweb.org/images/HealthDept/Swine_Flu_-_Alert.pdf

Novel Influenza Cases by State, 2010-2019



*One human infection with a variant influenza virus (A/H1N1v) has been reported in Michigan for the 2018-2019 season; this is the first influenza A H1N1v virus infection detected in the United States in 2019. Source: CDC FluView

FluBytes

- [New Cases Identified in Investigation of Lung Disease Among Teens and Young Adults Who Reported Vaping, Wisconsin](#)
- [Early Neuraminidase Inhibitors Shorten Hospital Stays](#)
- [Influenza Activity in the United States: 2018-19 Season](#)
- [Increasing Influenza Vaccination in Health Care Workers](#)

Congregate Setting Respiratory Virus Outbreaks

There was 0 [C(0), N(0), SE(0), SW(0)] new respiratory virus outbreaks reported to MDHHS during this time period. Respiratory outbreaks for the 2019 summer season are listed below.

Facility Type	C	N	SE	SW	Summer 2019 Total	2018-19 Flu Season Total
Schools: K-12 & College	0	0	0	0	0	9
Long-term Care / Assisted Living Facility	1	0	0	1	2	60
Healthcare Facility	0	0	0	0	0	1
Daycare	0	0	0	0	0	0
Homeless Shelter	0	0	0	0	0	1
Correctional Facility	0	0	0	0	0	8
Other	0	0	0	0	0	0
Total	1	0	0	1	2	
2018-19 Total	24	13	27	15		79

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](#)

Swine Variant Influenza Toolkit

The Swine Variant Influenza Toolkit will help local health departments in planning for and responding to suspected influenza outbreaks associated with swine at agricultural fairs and exhibits. See:

- [Swine Variant Influenza Toolkit](#)
- [Swine Variant Influenza Toolkit Templates Document](#)

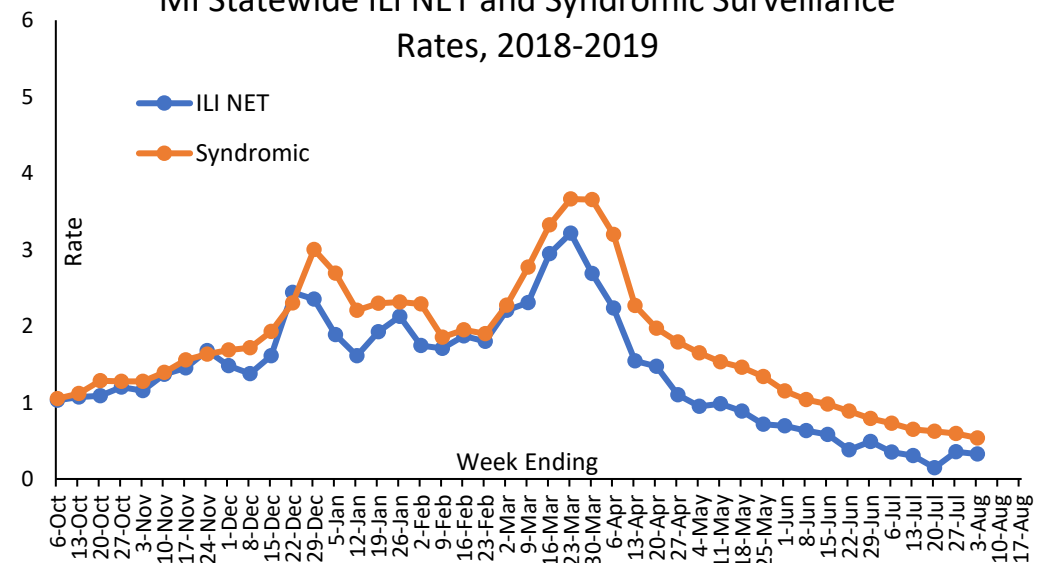
Influenza-like Illness (ILI) Activity

During the 2018-2019 influenza season, Michigan flu activity peaked week ending **March 23, 2019** (Week 12) at **3.2%** and reported above baseline of 1.8% for **12** weeks. National flu activity peaked week ending **February 16, 2019** (Week 7) at **5.1%**.

- Total number of reports by region: 18 [C(4), N(1), SE(11), SW(2)]
- Proportion of visits due to ILI: 0.3% (regional baseline*: 1.8%)
- 17 patient visits due to ILI were reported out of 4,998 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.

MI Statewide ILI NET and Syndromic Surveillance Rates, 2018-2019



Become an ILINET provider!

Contact Shelly Doeblner at DoeblerM@michigan.gov

MDHHS Bureau of Laboratories (BOL)

There were 7 [C(0), N(0), SE(1), SW(6)] new respiratory virus results reported to MDHHS during this time period. Positive results for the 2019 summer season are listed below.

Respiratory Virus	# Positive Respiratory Virus Results by Region				Summer 2019 Total	2018-19 Flu Season Total
	C	N	SE	SW		
2009 A/H1N1pdm	3	0	3	3	9	442
Influenza A/H3	5	2	1	3	11	319
Influenza B	6	0	3	0	9	44
Total	14	2	7	6	29	
2018-2019 Total	376	47	95	287		805

Note: 1 specimen tested positive for A H3 and B; 2 specimens tested positive for A H1N1 and A H3

Michigan Sentinel Clinical Lab Respiratory Virus Data

Ten (10) sentinel clinical labs (3SE, 2SW, 5C, ON) reported during Weeks 30 and 31

SE Region

- Influenza A: very low
- Influenza B: sporadic
- Parainfluenza: low
- RSV: sporadic
- Adenovirus: slightly elevated
- hMPV: low

Central Region

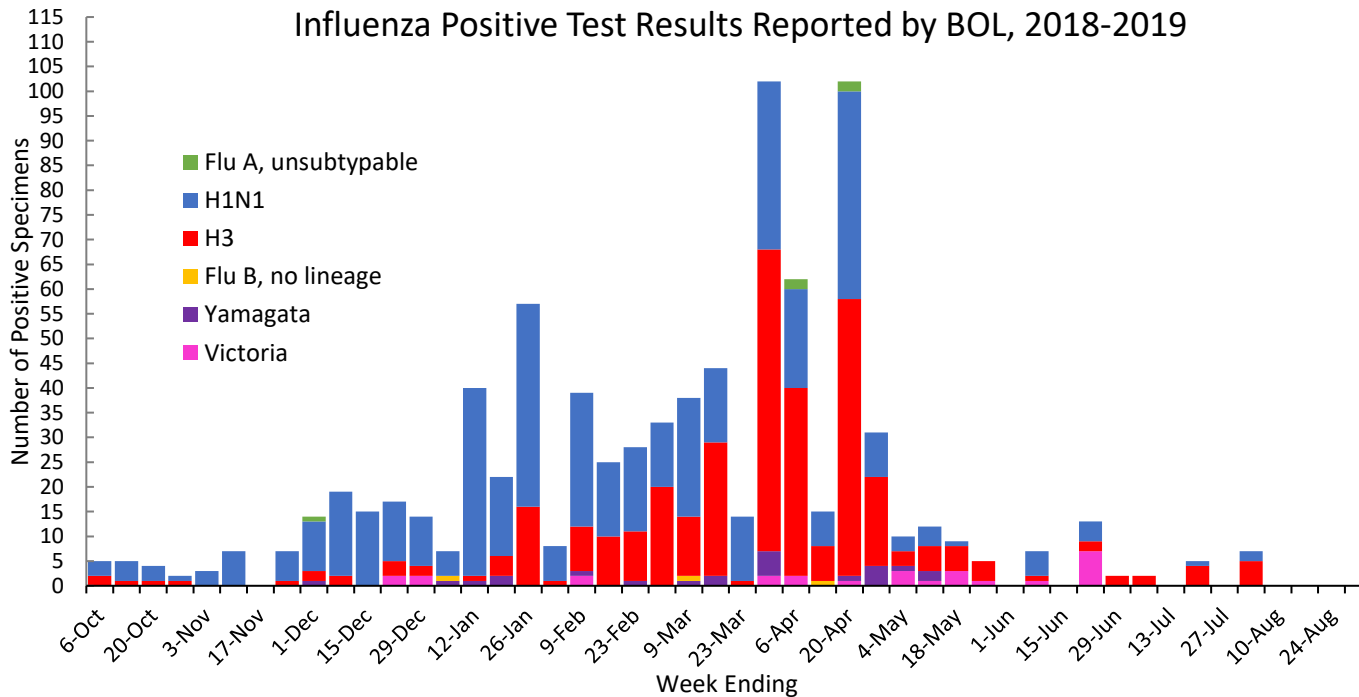
- Influenza A: no activity – very low
- Influenza B: no activity
- Parainfluenza: very low
- RSV: sporadic
- Adenovirus: very low
- hMPV: sporadic

SW Region

- Influenza A: sporadic
- Influenza B: no activity
- Parainfluenza: sporadic
- RSV: no activity
- Adenovirus: sporadic – very low
- hMPV: sporadic

North Region

- Influenza A: no data available
- Influenza B: no data available
- Parainfluenza: no data available
- RSV: no data available
- Adenovirus: no data available
- hMPV: no data available



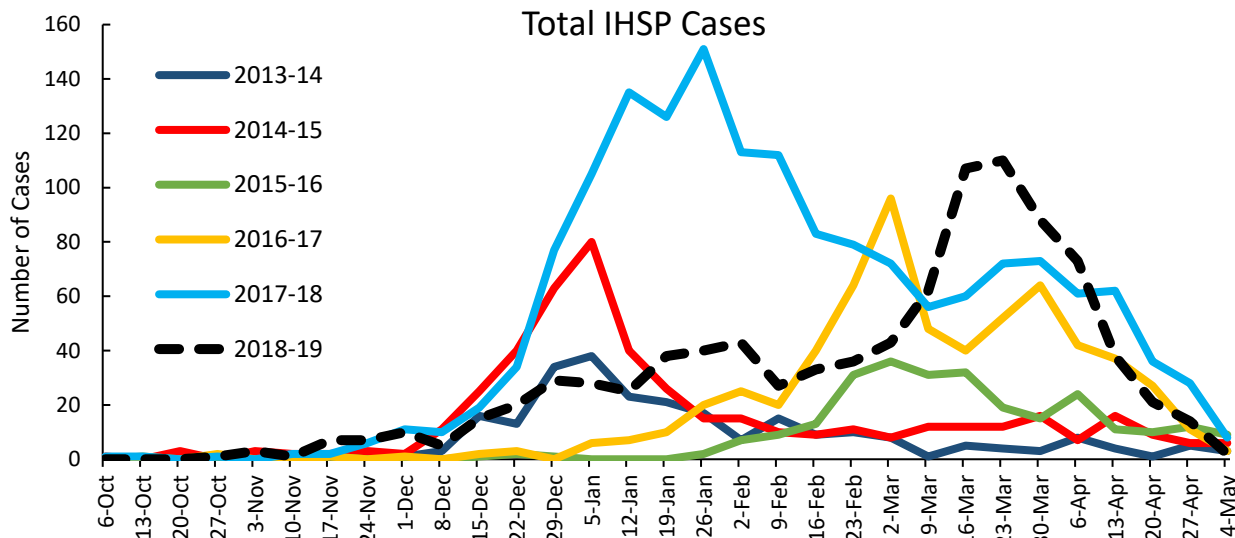
Note: Flu B subtyping will be reported based on MDHHS BOL testing runs (roughly each month) and will be backtracked into this graph
 Latest MDHHS BOL Flu B subtyping run: **July 23, 2019**

Influenza-related Hospitalization Surveillance

Week Ending August 3

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, 2018 until Apr. 30, 2019, for Clinton, Eaton, Ingham, Genesee, and Washtenaw counties. For the 2018-2019 influenza season, there have been a total of 926* (116 pediatric, 810 adult) influenza-related hospitalizations reported in the catchment area.

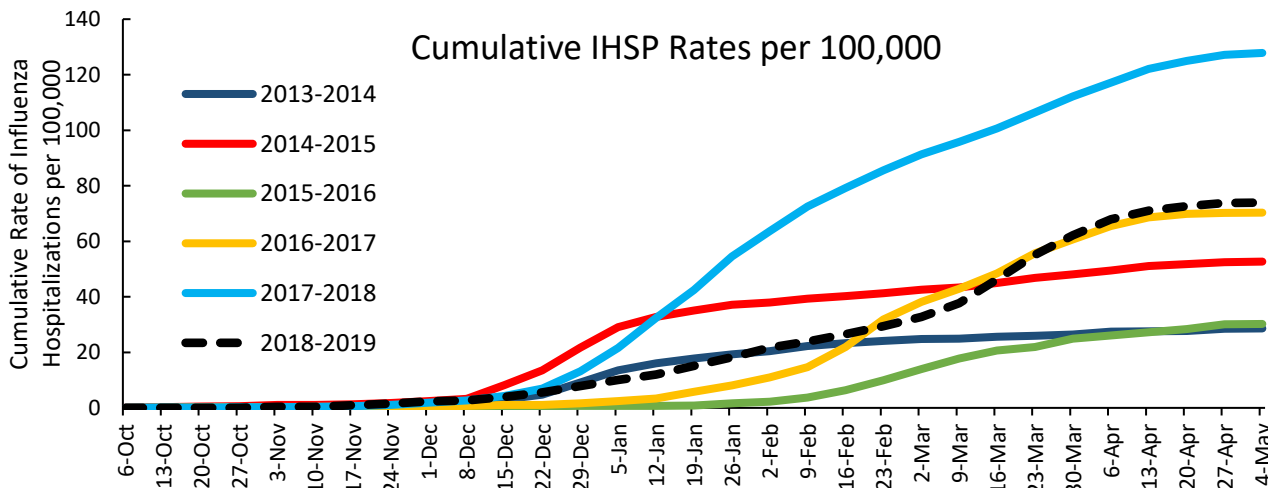
*Data is preliminary and may change as chart reviews are completed



Influenza-associated Pediatric Mortality

Three (3) pediatric influenza (A/H1N1-09, A/H3N2, A/B undistinguished) deaths have been confirmed by MDHHS for the 2018-2019 flu season.

Nationally, 127 influenza-associated pediatric deaths have been reported for the 2018-2019 flu season.



Washtenaw County was added in 2017-2018

Note: IHSP surveillance period has ended as of April 30, 2019 and will resume October 1, 2019

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