



Dayton &
Montgomery
County

West Central Ohio (WCO) Seasonal Influenza Activity Report MMWR Week 14 3/29/2020 – 4/4/2020

Weekly Influenza Activity Summary:

Montgomery County (Week 14): There was **1 influenza-associated hospitalization** reported during week 14 (**an 86% decrease**); influenza hospitalizations are below baseline figures. *Fever + ILI and constitutional emergency department (ED) visits decreased from week 13 to week 14; both remained above baseline.* Overall, flu activity is decreasing. Note that ED data after week 9 are likely skewed due to the COVID-19 pandemic.

West Central Ohio Region (Week 14): Influenza hospitalizations decreased; there was **1 hospitalization** during week 14 (**a 93% decrease**). Fifty-five percent (55%) of regional influenza-associated hospitalizations occurred in individuals 5-64 years this flu season. WCO reported **12,351 outpatient flu cases and 1,935 hospitalizations** this season. Overall, regional influenza activity is decreasing. Note that outpatient data are incomplete and are likely much higher.

Ohio (Week 14): Current Activity Level - Regional

Ohio's flu activity has been downgraded to regional. The Ohio Department of Health (ODH) has reported the following positive results from flu specimens sent to the ODH laboratory (through 4/4/20): (1,033) Total [subtyped] positives; (626) A/pdmH1N1; (17) A/H3N2; (390) Influenza B. ODH reported **10,885 influenza-associated hospitalizations** so far during the 2019-2020 flu season (**121 hospitalizations in week 14, a 47% decrease from last week**). **All flu indicators expect hospitalizations remain above baseline levels.**

National (Week 14): Nationally, flu activity is decreasing, and **laboratory-confirmed flu activity is low; ILI activity has decreased but is still elevated likely due to COVID-19.** Eleven of 54 jurisdictions reported widespread influenza activity (see map). H1N1pdm09 (51.3%), H3N2 (4.1%), Influenza B (42.9%), and not subtyped flu A (1.7%) have accounted for 43,456 positive flu specimens tested by public health laboratories this season. **The CDC estimates 39-56 million illnesses, 410,000-740,000 hospitalizations, 24,000-62,000 total deaths, and confirms 166 pediatric deaths.**

For hospitals and other regional healthcare facilities to more accurately monitor influenza in the area, this report will include regional and Montgomery County specific influenza activity. The regional influenza report will include positive influenza cases from healthcare facilities in Auglaize, Butler, Champaign, Clark, Darke, Greene, Miami, Montgomery, Preble, Shelby, and Warren counties (<http://www.gdaha.org/regional-hospital-locator>).

Confirmed Influenza-associated Hospitalizations

MMWR Week	40-11*	12*	13*	14*	2019-2020 Flu Season Total as of 4/10/20
Week Ending	3/14/20	3/21/20	3/28/20	4/4/20	
Auglaize	32	0	0	0	32
Butler	299	8	0	0	307
Champaign	41	0	1	0	42
Clark	196	4	3	0	203
Darke	37	2	0	0	39
Greene	151	2	1	0	154
Miami	85	1	1	0	87
Montgomery	795	21	7	1	824
Preble	36	0	0	0	36
Shelby	52	2	1	0	55
Warren	153	2	1	0	156
Total	1,877	42	15	1	1,935

*Numbers may change based on updated ODRS data.

Weekly Regional Outpatient Influenza Cases

MMWR Week	Week Ending	Influenza A	Influenza B	ILI* Reports (Sentinel Providers)	Weekly Total
40-11	3/14/20	5,279	5,996	811	12,086
12	3/21/20	132	63	22	217
13	3/28/20	27	2	3	32
14	4/4/20	13	3	0	16
Season Total**	NA	5,451	6,064	836	12,351

*Influenza-like Illness (ILI)

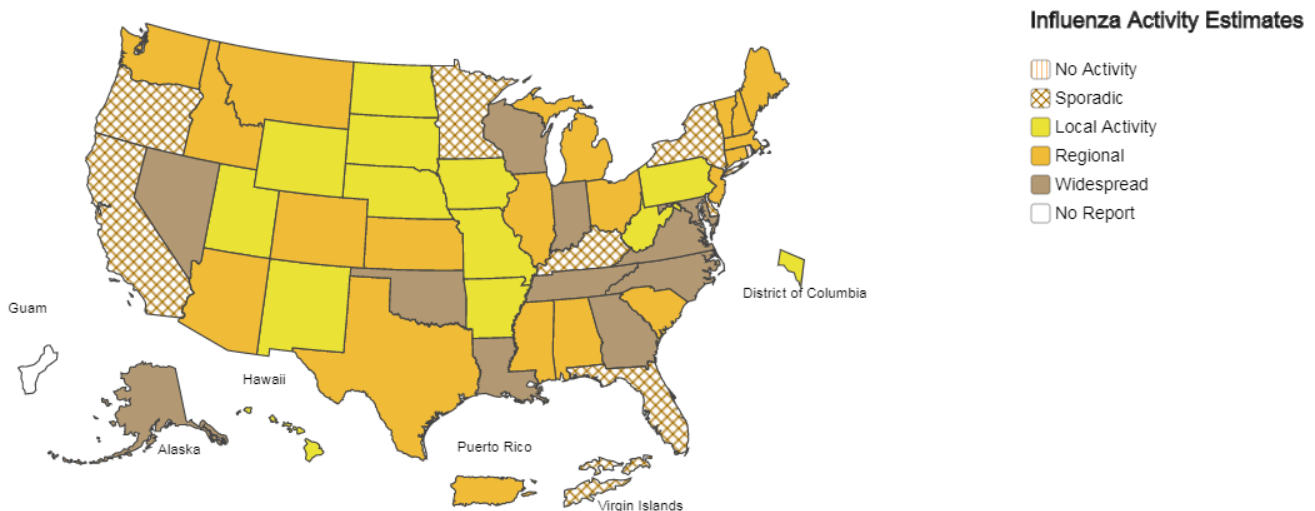
**Note. Data are incomplete. Several hospitals have not submitted outpatient data for multiple weeks – true case counts are likely higher.



A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Apr 04, 2020 - Week 14



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

National Influenza Activity Summary <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>

Additional Surveillance Data & Flu Facts

Flu Facts <http://www.flu.gov/>





Ohio Department of Health Seasonal Influenza Activity Summary <https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/seasonal-influenza/ohio-flu-activity/>

Montgomery County Seasonal Influenza Activity Summary <http://www.phdmc.org/report/montgomery-county-flu-activity-level>



Montgomery County Seasonal Influenza Activity Report MMWR Week 14 3/29/2020 – 4/4/2020

Montgomery County Weekly Surveillance Data

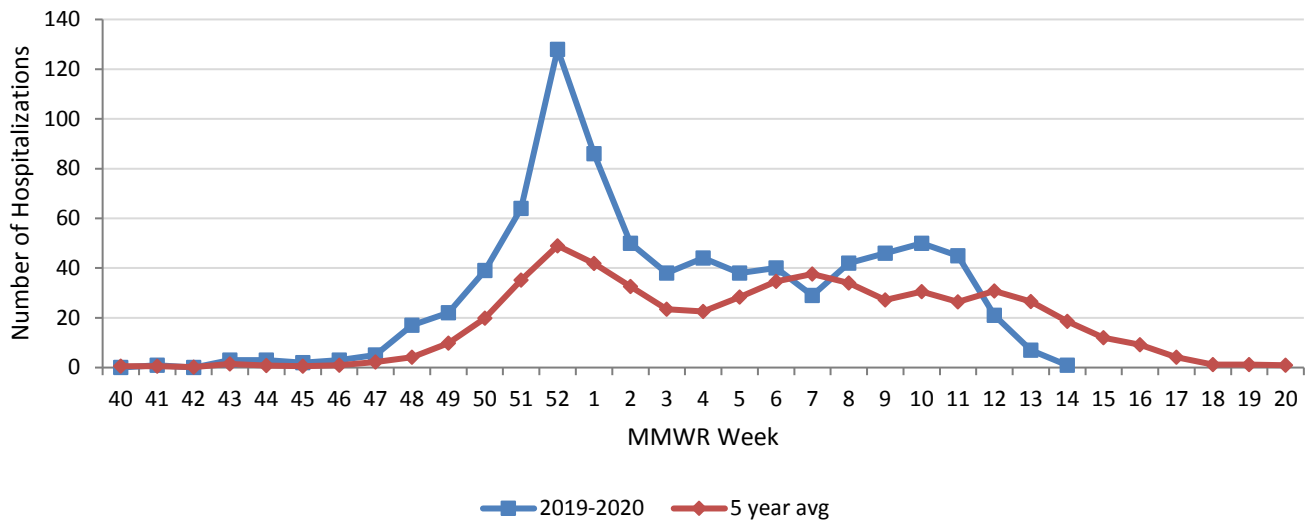
Surveillance Data	Current Week	% Change	Trend
Influenza Hospitalizations	1	-85.7%	
% Constitutional ED visits	9.7%**	-13.4%**	
% Fever & ILI ED visits	3.4%**	-8.1%**	
Thermometer sales	132**	-46.3%**	

*Percent changes based on small numbers may give misleading information about flu activity.

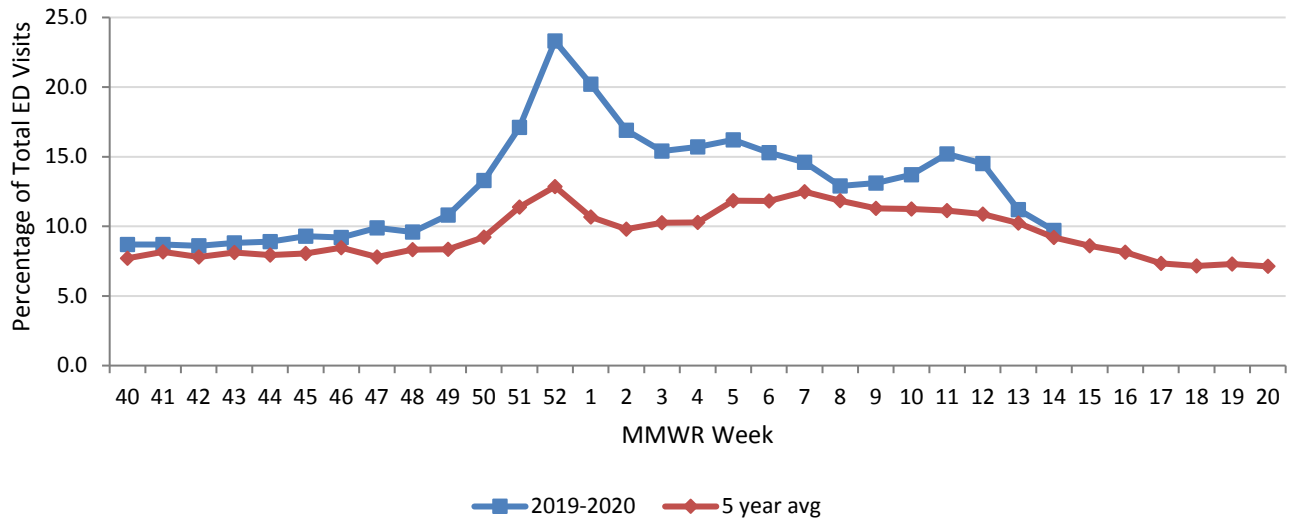
Dash (-) indicates no change

**Note. These values are likely skewed due to the COVID-19 pandemic.

Montgomery County Confirmed Influenza-associated Hospitalizations by MMWR Week with 5-Year Baseline Average; 2019-2020

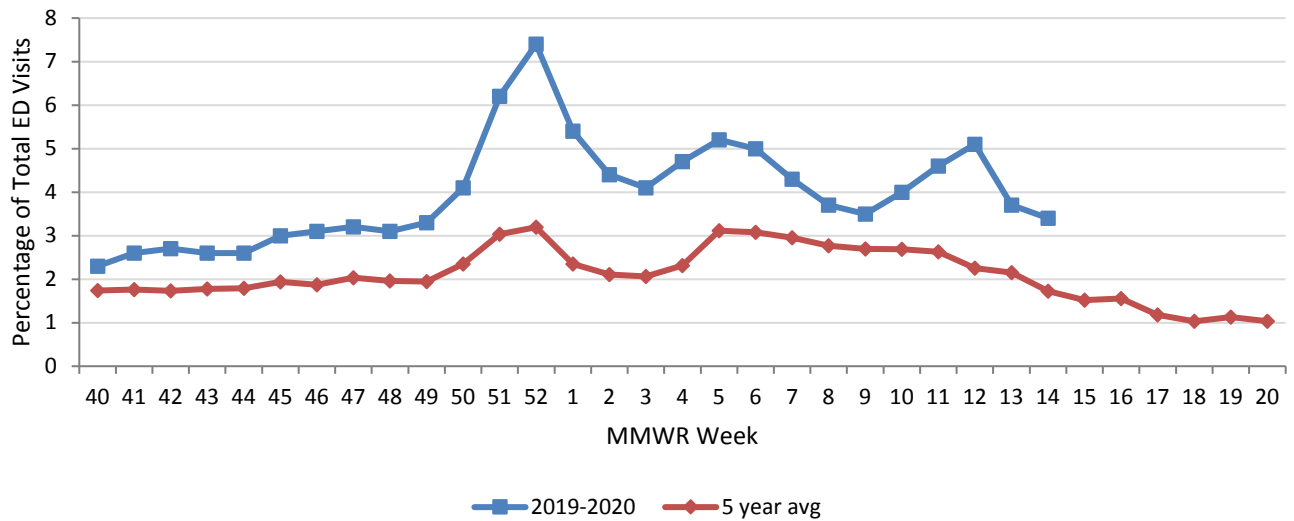


Montgomery County Constitutional ED Visits by MMWR Week with 5-Year Baseline Average; 2019-2020



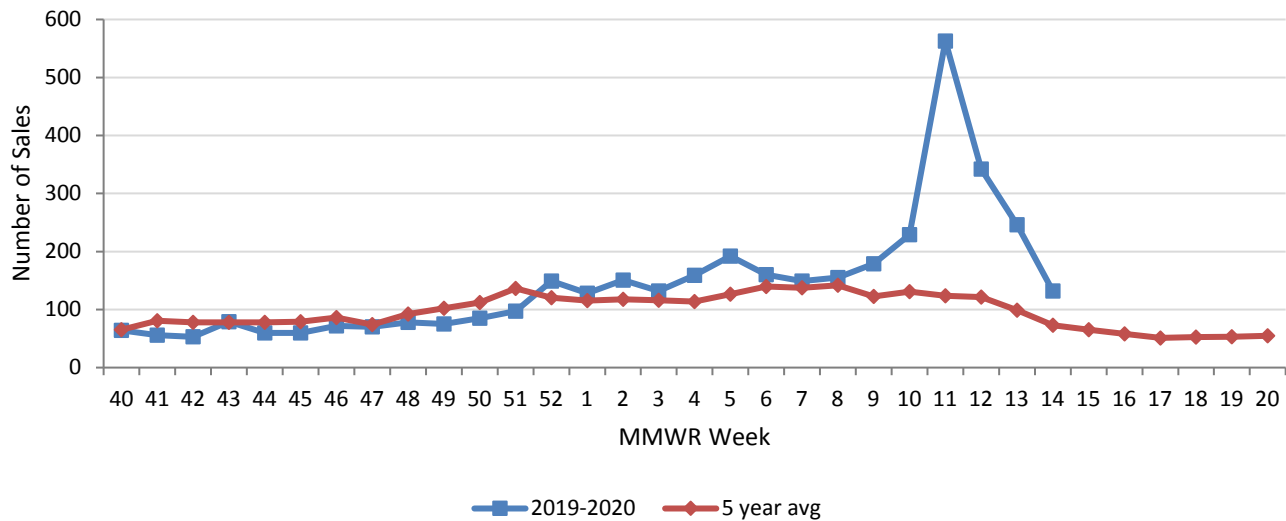
**Note. Values after week 9 are likely skewed due to the COVID-19 pandemic.

Montgomery County Fever & ILI Specified ED Visits by MMWR Week with 5-Year Baseline Average; 2019-2020



**Note. Values after week 9 are likely skewed due to the COVID-19 pandemic.

Montgomery County Thermometer Sales by MMWR Week with 5-Year Baseline Average; 2019-2020



**Note. Values after week 9 are likely skewed due to the COVID-19 pandemic.

Sources of Influenza Surveillance Data

Six types of data sources are examined on a weekly basis to help determine the influenza activity level for Montgomery County:

National Retail Data Monitor (NRDM)-OTC Drug Purchases: The NRDM collects over-the-counter (OTC) drug sales information from approximately 80 Montgomery County chain drug stores and grocery stores. For influenza surveillance, thermometer sales are monitored on a weekly basis.

Emergency Department Visits (EpiCenter): EpiCenter collects emergency department chief complaint data from hospitals and urgent care facilities across Ohio counties in real time and classifies them into symptom and syndrome categories. Chief complaints from the constitutional syndrome category and the ILI + Fever symptoms classifier are analyzed for influenza surveillance.

Sentinel Providers (ILINet): Sentinel providers, through the US Influenza-like Illness Surveillance Network (ILINet), collect outpatient ILI data. ILI is defined as a fever (> 100 °F), **and** cough and/or sore throat without another known cause. Providers report the total number of patients seen and the number of patients with ILI by age group on a weekly basis. Sentinel providers also submit specimens for influenza testing to the ODH laboratory throughout the influenza season.

Laboratory Surveillance: Positive laboratory reports are forwarded to local health departments. Generally, specimens are submitted by health care providers or hospitals.

Influenza-associated Hospitalizations (ODRS): Influenza-associated hospitalizations are reported to local health departments for entry into the Ohio Disease Reporting System (ODRS). Hospitalizations can be used as an indicator of the severity of illness during a particular influenza season. This condition became reportable in 2009.

Influenza-associated Pediatric Mortality (ODRS): Influenza-associated pediatric mortalities are reported to local health departments for entry into ODRS. Pediatric deaths can be an indicator of the severity of illness during the influenza season. This condition became reportable in 2005.

For further information or questions, please contact Public Health – Dayton & Montgomery County, Epidemiology Department at epi@phdmc.org or 937-224-3691.

Completed by PHDMC Epidemiology Section, on April 10, 2020