



Ohio Department of Health Seasonal Influenza Activity Summary MMWR Week 5 January 31st – February 6th, 2016

Current Influenza Activity:

Ohio Data

Current Ohio Activity Level (Geographic Spread) - Local: Increased ILI in 1 region; ILI activity in other regions is not increased AND recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI, OR 2 or more institutional outbreaks (ILI or lab confirmed) in 1 region; ILI activity in other regions is not increased AND recent (within the past 3 weeks) lab evidence of influenza in region with the outbreaks; virus activity is no greater than sporadic in other regions, numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.

During MMWR Week 5, public health surveillance data sources indicate minimal intensity for influenza-like illness (ILI) in outpatient settings reported by Ohio's sentinel providers. The percentage of emergency department visits with patients exhibiting constitutional symptoms **are below** baseline levels statewide; fever and ILI specified ED visits **are also below** baseline levels. There were 50 influenza-associated hospitalizations reported.

Ohio Weekly Influenza-associated Hospitalizations by Ohio Public Health Region

Central	6
East Central	7
Northeast	14
Northwest	2
Southeast	2
Southwest	13
West Central	6
Total	50

Ohio Influenza Activity Summary Dashboard:

Data Source	Current week value	Percent Change from last week ¹	# of weeks ²	Trend Chart ³
Influenza-like Illness (ILI) Outpatient Data (ILINet Sentinel Provider Visits)	0.81%	10.96%	↑ 1	
Thermometer Sales (National Retail Data Monitor)	1449	-2.75%	↓ 1	
Fever and ILI Specified ED Visits (EpiCenter)	2.11%	14.16%	↑ 2	
Constitutional ED Visits (EpiCenter)	8.99%	5.39%	↑ 2	
Confirmed Influenza-associated Hospitalizations (Ohio Disease Reporting System)	50	47.06%	↑ 3	
Outpatient Medical Claims Data ⁴	0.49%	16.67%	↑ 2	

¹Interpret percent changes with caution. Large variability may be exhibited in data sources with low weekly values.

²Number of weeks that the % change is increasing or decreasing.

³Black lines represent current week's data; red lines represent baseline averages.

⁴Medical Claims Data provided by athenahealth®

HHS Regional Data: During week 4 (January 24th– January 30th, 2015), the proportion of outpatient visits for ILI in Region 5 (Ohio is in Region 5) increased to 1.5%, which is below the regional baseline of 1.9%. Ohio, Michigan, and Pennsylvania reported Local Activity; Kentucky and Indiana report Regional Activity; West Virginia reports Sporadic Activity.

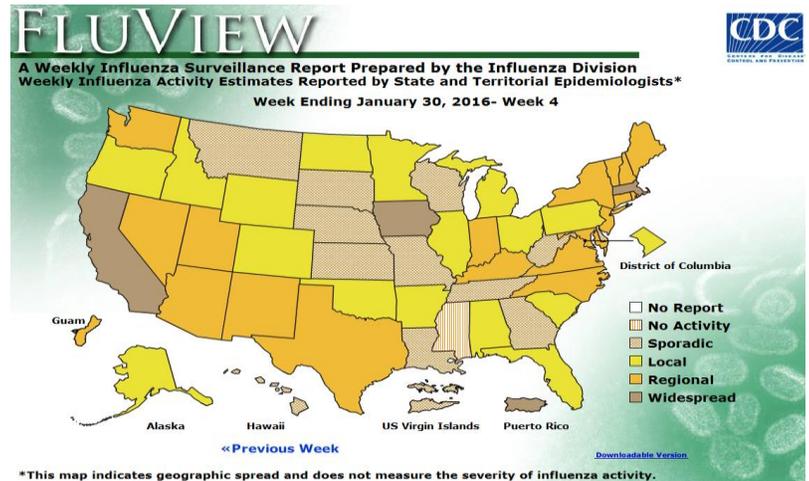
National Data:

During week 4 (January 24th– January 30th, 2015), most U.S. states reported Minimal to Low influenza activity. The proportion of outpatient visits for ILI remained at 2.2%, which is **above** the national baseline of 2.1%. Six HHS regions reported ILI levels at or above their region-specific baseline levels. The most frequently identified influenza virus type reported by public health laboratories during week 4 was influenza A (H1N1)pdm09.

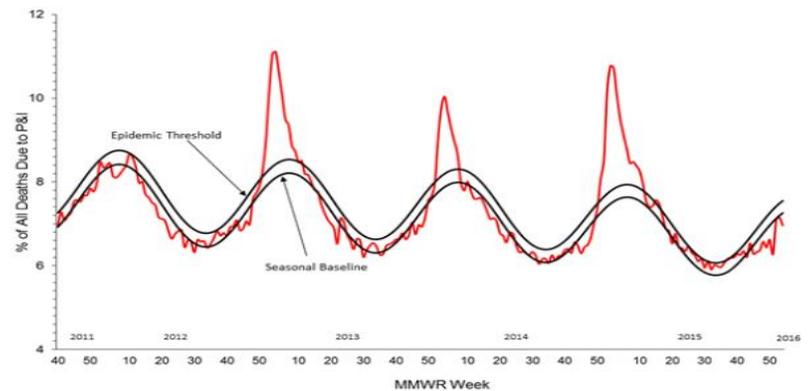
Influenza Virus Characterization:

CDC has characterized 407 influenza viruses [130 A (H1N1)pdm09, 190 A (H3N2), and 87 influenza B viruses] collected by U.S. laboratories since October 1, 2015.

To date, all but one of the viruses that have been characterized since October 1st, 2015 have been found to be genetically similar to the viruses included in the 2015-2016 influenza vaccine



*This map indicates geographic spread and does not measure the severity of influenza activity.
Pneumonia and Influenza Mortality from the National Center for Health Statistics Mortality Surveillance System
 Data through the week ending January 16, 2016, as of February 4, 2016



State Surveillance Data:

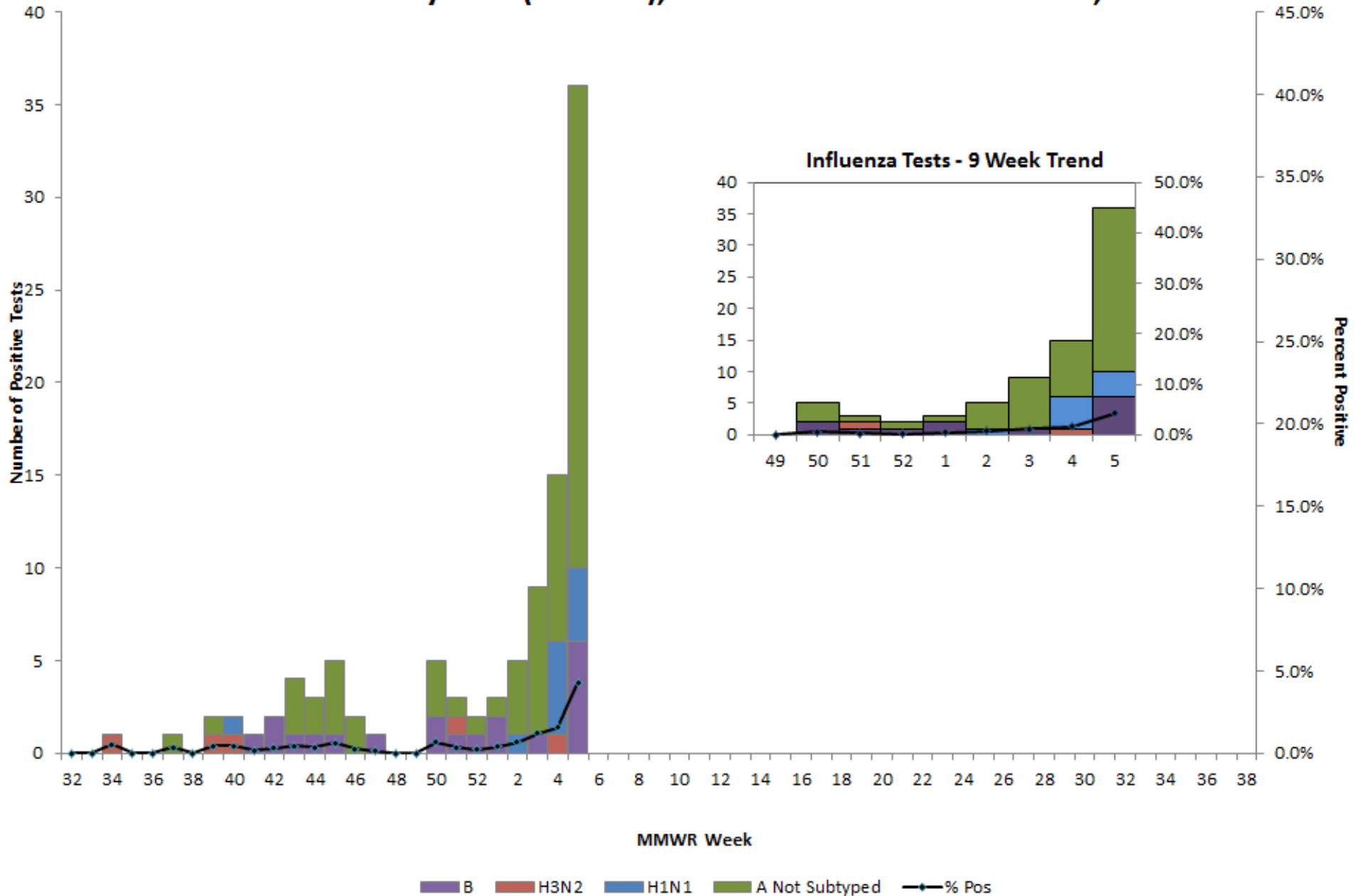
- **ODH lab** has reported 108 influenza tests from specimens submitted from various submitters. 2015-2016 influenza season results: **(10) A/pdmH1N1; (1) A/H3N2; (1) Influenza B; (96) Negative** (through 02/06/16).
- The **National Respiratory and Enteric Virus Surveillance System (NREVSS)** has reported **13,865** influenza tests performed at participating facilities. 2015-2016 influenza season positive results: **(11) H1N1, (3) A/H3N2, (64) Flu A Not Subtyped, and (20) Flu B** (through 02/06/16).
- No **pediatric influenza-associated mortalities** have been reported during the 2015-2016 season (through 02/06/16).
- No **novel influenza A virus infections** have been reported during the 2015-2016 season (through 02/06/16).
- Incidence of confirmed **influenza-associated hospitalizations** in 2015-2016 season = **307** (through 02/06/16).

National activity levels and more information can be found at the following CDC pages:

- <http://www.cdc.gov/flu/weekly/usmap.htm>

- <http://www.cdc.gov/flu/>

Positive Influenza Tests (PCR), National Respiratory and Enteric Virus Surveillance System (NREVSS), 2015-2016 Influenza Season, Ohio



**Influenza-Associated Hospitalizations, Ohio
2015-2016 Season***

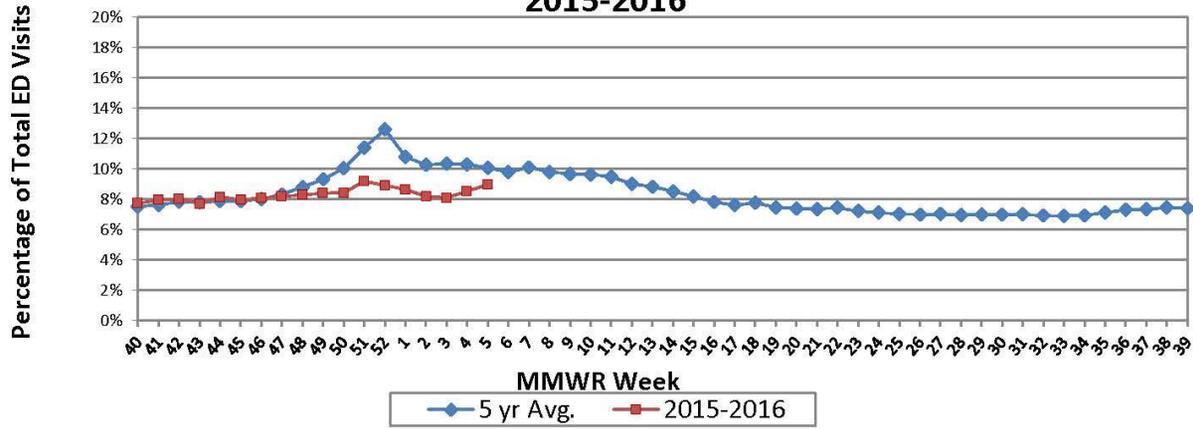
County	Influenza-Associated Hospitalizations	Percent of All Influenza-Associated Hospitalizations	Rate per 100,000 Population†	County	Influenza-Associated Hospitalizations	Percent of All Influenza-Associated Hospitalizations	Rate per 100,000 Population†
ADAMS	0	0.0%	0.00	LOGAN	1	0.3%	2.18
ALLEN	24	7.8%	22.57	LORAIN	2	0.7%	0.66
ASHLAND	1	0.3%	1.88	LUCAS	17	5.5%	3.85
ASHTABULA	2	0.7%	1.97	MADISON	1	0.3%	2.30
ATHENS	2	0.7%	3.09	MAHONING	6	2.0%	2.51
AUGLAIZE	4	1.3%	8.71	MARION	1	0.3%	1.50
BELMONT	2	0.7%	2.84	MEDINA	5	1.6%	2.90
BROWN	0	0.0%	0.00	MEIGS	2	0.7%	8.41
BUTLER	10	3.3%	2.72	MERCER	2	0.7%	4.90
CARROLL	0	0.0%	0.00	MIAMI	1	0.3%	0.98
CHAMPAIGN	1	0.3%	2.49	MONROE	0	0.0%	0.00
CLARK	5	1.6%	3.61	MONTGOMERY	22	7.2%	4.11
CLERMONT	3	1.0%	1.52	MORGAN	0	0.0%	0.00
CLINTON	0	0.0%	0.00	MORROW	0	0.0%	0.00
COLUMBIANA	0	0.0%	0.00	MUSKINGUM	6	2.0%	6.97
COSHOCTON	2	0.7%	5.42	NOBLE	0	0.0%	0.00
CRAWFORD	0	0.0%	0.00	OTTAWA	0	0.0%	0.00
CUYAHOGA	55	17.9%	4.30	PAULDING	0	0.0%	0.00
DARKE	1	0.3%	1.89	PERRY	0	0.0%	0.00
DEFIANCE	0	0.0%	0.00	PICKAWAY	1	0.3%	1.80
DELAWARE	0	0.0%	0.00	PIKE	1	0.3%	3.48
ERIE	0	0.0%	0.00	PORTAGE	5	1.6%	3.10
FAIRFIELD	1	0.3%	0.68	PREBLE	0	0.0%	0.00
FAYETTE	1	0.3%	3.44	PUTNAM	2	0.7%	5.80
FRANKLIN	21	6.8%	1.81	RICHLAND	0	0.0%	0.00
FULTON	0	0.0%	0.00	ROSS	0	0.0%	0.00
GALLIA	1	0.3%	3.23	SANDUSKY	1	0.3%	1.64
GEAUGA	2	0.7%	2.14	SCIOTO	0	0.0%	0.00
GREENE	3	1.0%	1.86	SENECA	0	0.0%	0.00
GUERNSEY	6	2.0%	14.97	SHELBY	0	0.0%	0.00
HAMILTON	15	4.9%	1.87	STARK	10	3.3%	2.66
HANCOCK	3	1.0%	4.01	SUMMIT	11	3.6%	2.03
HARDIN	1	0.3%	3.12	TRUMBULL	17	5.5%	8.08
HARRISON	0	0.0%	0.00	TUSCARAWAS	2	0.7%	2.16
HENRY	1	0.3%	3.54	UNION	0	0.0%	0.00
HIGHLAND	1	0.3%	2.29	VAN WERT	0	0.0%	0.00
HOCKING	0	0.0%	0.00	VINTON	1	0.3%	7.44
HOLMES	1	0.3%	2.36	WARREN	0	0.0%	0.00
HURON	0	0.0%	0.00	WASHINGTON	5	1.6%	8.09
JACKSON	0	0.0%	0.00	WAYNE	1	0.3%	0.87
JEFFERSON	0	0.0%	0.00	WILLIAMS	5	1.6%	13.28
KNOX	0	0.0%	0.00	WOOD	0	0.0%	0.00
LAKE	5	1.6%	2.17	WYANDOT	1	0.3%	4.42
LAWRENCE	1	0.3%	1.60	UNKNOWN	0	0.0%	*
LICKING	3	1.0%	1.80	TOTAL	307	100%	2.66

*2015-2016 Season 10/4/2015 thru 2/6/2016

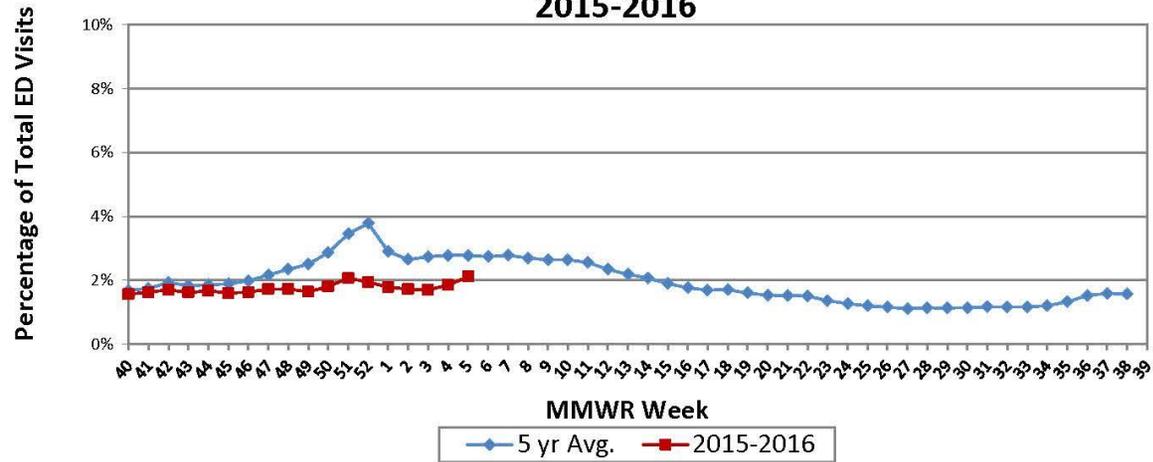
† Disease rates were calculated by number of cases per 100,000 residents using 2010 census data.

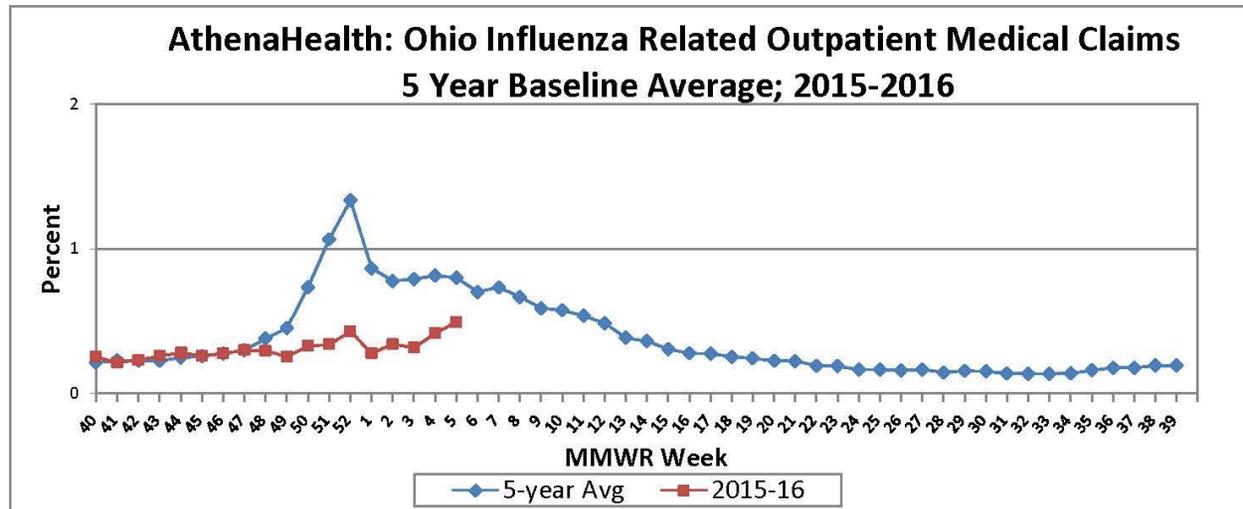
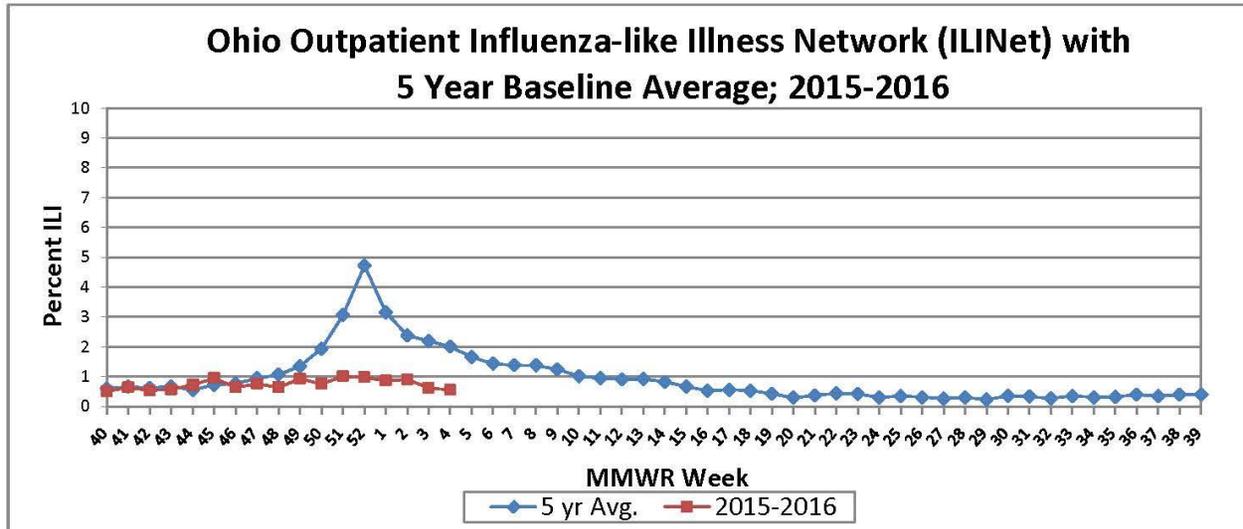
Source: Ohio Disease Reporting System

**Ohio Constitutional ED Visits with 5 Year Baseline Average;
2015-2016**

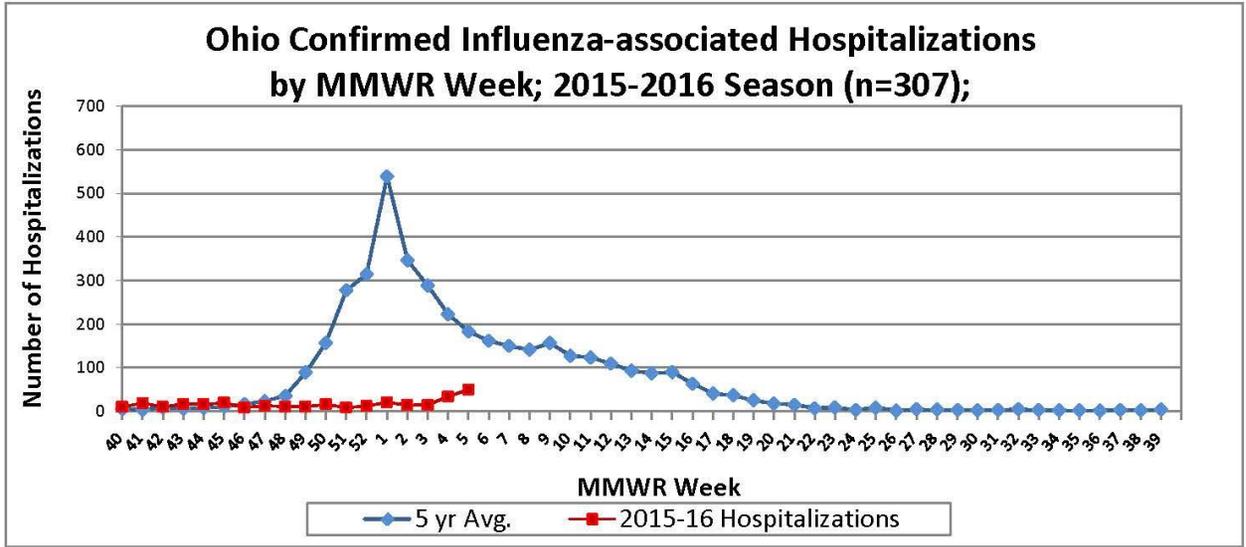
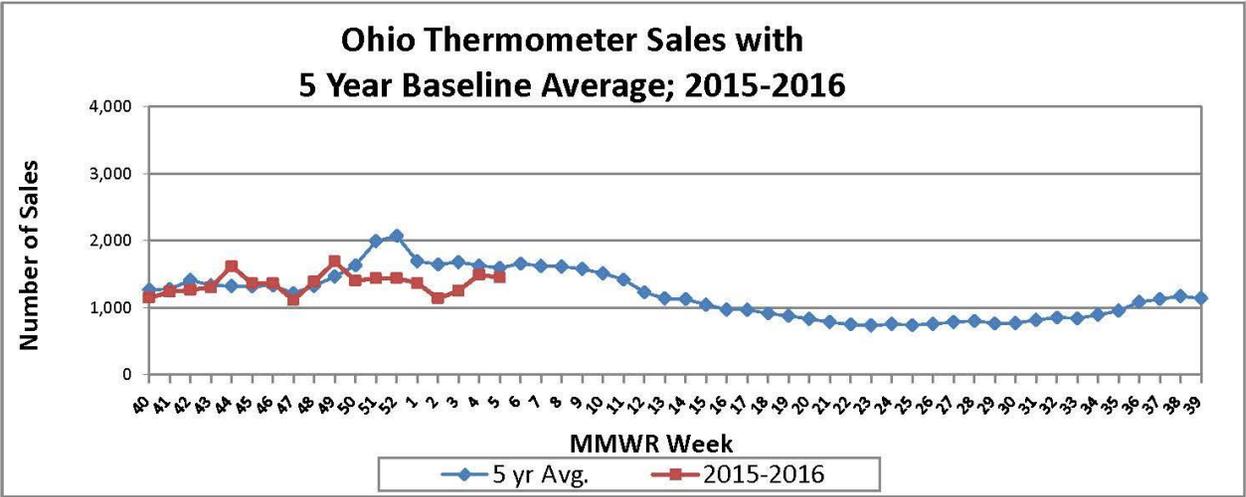


**Ohio Fever & ILI Specified ED Visits with 5 Year Baseline Average;
2015-2016**





Due to ILINet web reporting portal being down, ILINet data is only shown through MMWR week 4



Sources of Influenza Surveillance Data

- **National Retail Data Monitor (NRDM)-OTC Drug Purchases:** The NRDM collects over-the-counter (OTC) drug sales information from approximately 1,420 Ohio chain drug stores and grocery stores. For influenza surveillance, thermometer and adult cold relief sales are monitored on a weekly basis.
- **Emergency Department Visits (EpiCenter):** EpiCenter collects emergency department chief complaint data from 180 hospitals and urgent care facilities across Ohio in real time and classifies them into symptom and syndrome categories. Chief complaints from the constitutional syndrome category and the fever + ILI symptoms classifier are analyzed for influenza surveillance.
- **Sentinel Providers (ILINet):** Sentinel providers, through the US Influenza-like Illness Surveillance Network (ILINet), collect outpatient influenza-like illness (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. There are 81 sentinel providers enrolled in Ohio for the 2015-2016 season.
- **ODH Laboratory Surveillance:** The Ohio Department of Health Laboratory reports the number of specimens that test positive for influenza each week. Generally, specimens are submitted by sentinel provider participants. A subset of the positive specimens is sent to CDC for further testing during the season.
- **Influenza-associated Hospitalizations (ODRS):** Influenza-associated hospitalizations are reported to ODH from local health departments and hospitals by direct 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.
- **122 Cities Mortality Reporting System (Vital Statistics):** Ohio's eight largest cities participate in this reporting on a weekly basis. Vital statistics offices from across the country report the number of death certificates received, along with how many of those have pneumonia or influenza listed as an underlying or contributing cause of death.
- **Influenza-associated Pediatric Mortality (ODRS):** Influenza-associated pediatric mortalities are reported into ODRS by local health department and hospital staff. Pediatric deaths can be an indicator of the severity of illness during the influenza season. This condition became reportable in 2005.
- **National Respiratory and Enteric Virus Surveillance System (NREVSS):** The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors temporal and geographic patterns associated with the detection of respiratory syncytial virus (RSV), human parainfluenza viruses (HPIV), respiratory and enteric adenoviruses and rotavirus. There are 19 facilities in Ohio that submit data to this system.
- **athenahealth®:** athenahealth is a technology and services company for medical billing and electronic health records. Diagnosis and procedure data from primary care visits are automatically queried to produce influenza related statistics.

If you have any further questions or comments about surveillance for seasonal influenza for the State of Ohio, please contact the Public Health Informatics and Vaccine Preventable Disease Epidemiology Unit at SMED@odh.ohio.gov or call (614) 995-5599.