

Kentucky Department for Public Health Weekly Influenza Surveillance Report Morbidity and Mortality Weekly Report (MMWR) Week 47 November 19– November 25, 2017



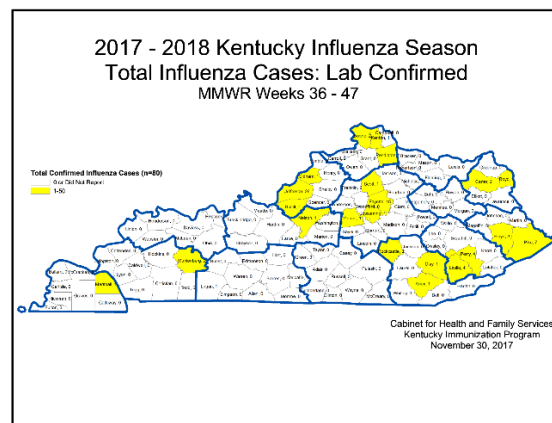
Current Influenza Activity Level: †Regional

†Regional: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.

***Confirmed:** Influenza laboratory Confirmed Cases are defined by positive molecular virus (RT-PCR) or Virus Culture test results. Those positive test results are reportable in Kentucky. (Positive results for Rapid Influenza Diagnostic Tests are not included in this report)

Activity Level Range: Sporadic → Local → Regional → Widespread

Update for week 47:		Update Total for weeks 36-47:	
Lab Confirmed Influenza:	11 Cases	Lab Confirmed Total:	80 Cases
Number of Regions with Long Term Care Facility Outbreaks:	0 of 17 Regions	Total Number of Long Term Care Facility Outbreaks:	0 Outbreaks
Number of Regions with Confirmed Flu Cases:	3 of 17 Regions	Total Number of Regions with Confirmed Flu Cases:	12 of 17 Regions
Deaths Reported:	0 (under 18 years) 0 (18 years & older)	Total Deaths Reported:	0 (under 18 years) 0 (18 years & older)
Number of Regions with Increased ILI Activity:	15 of 17 Regions		
Number of Regions with Increased Influenza Activity (see page 3):	3 of 17 Regions		



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Fig 1: Laboratory Confirmed Cases by Age

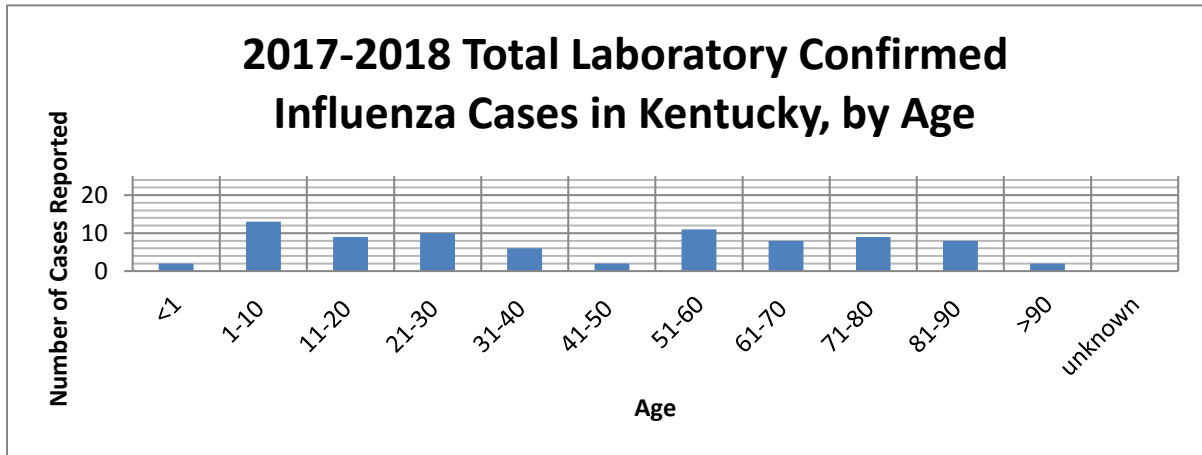


Fig 2: Laboratory Confirmed Cases by Influenza Virus Types

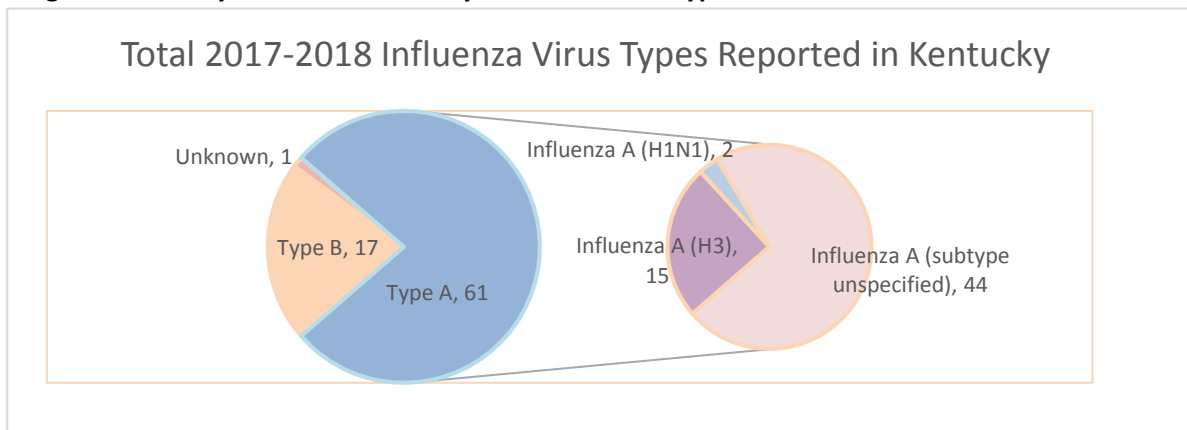
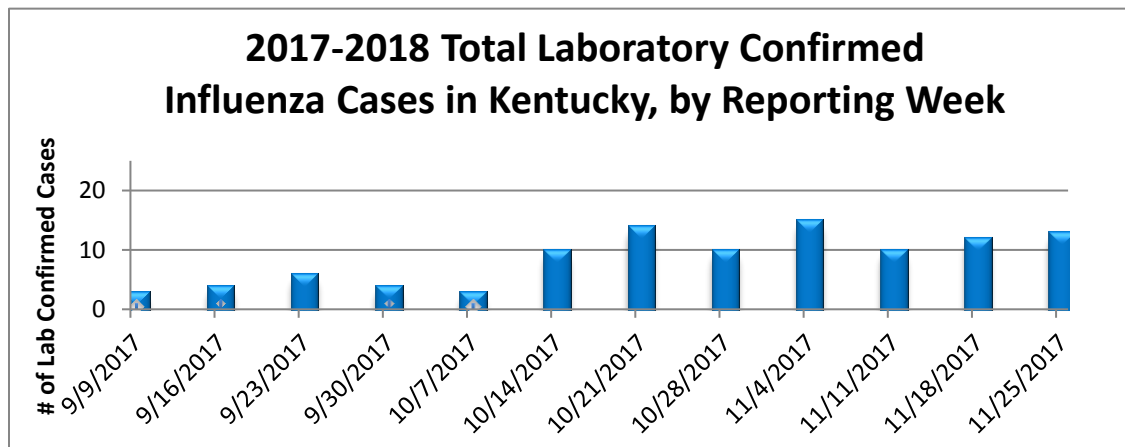


Fig 3: 2017-2018 Total Laboratory Confirmed Influenza Cases in Kentucky, by Reporting Week



*Confirmed: Influenza laboratory Confirmed Cases are defined by positive RT-PCR or Virus Culture test results

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Influenza Activity Determination Table					
		Category 1	Category 2	Category 3	Combined 1 or 2 plus 3
Regions	Number ILI Net Surveillance Sites Reporting / Total Enrolled Sites	Influenza Outbreaks Reported	Increased ILI Activity Reported	Laboratory Confirmed Influenza Reported	Include Region in Weekly Report for Increased Influenza Activity
Barren River	1/6		X		
Big Sandy	0/1		X		
Bluegrass Region	2/8		X		
Buffalo Trace / Gateway	0/3		X		
Capital Region	5/13				
Cumberland Valley	0/5		X	2	X
FIVCO	1/3		X		
Green River	0/4				
Kentucky River	0/1		X		
Lake Cumberland	0/1		X		
Lexington - Fayette	1/7		X	7	X
Lincoln Trail	1/6		X		
Louisville-Metro	4/20		X	2	X
North Central	1/2		X		
Northern KY	2/11		X		
Pennyrile	0/2		X		
Purchase	1/3		X		
**Total:	19/94	0/17 regions	15/17 regions	3/17 regions	3/17 regions

**Total number of regions reporting category of activity not total number of influenza cases

Kentucky National Electronic Disease Surveillance System (NEDSS) and U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) Data. Department for Public Health, Cabinet for Health and Family Services, Frankfort, Kentucky, [November 19 - November 25, 2017].



National Data
2017-2018 Influenza Season
Week 46 ending November 18, 2017

All data are preliminary and may change as more reports are received.

**Week 47 will be available December 7th and will be attached on the next report.*

Synopsis: During week 46 (November 12-18, 2017), influenza activity increased in the United States.

- **Viral Surveillance:** The most frequently identified influenza virus type reported by public health laboratories during week 46 was influenza A. The percentage of respiratory specimens testing positive for influenza in clinical laboratories is increasing.
- **Novel Influenza A Virus:** One human infection with a novel influenza A virus was reported.
- **Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System.
- **Influenza-associated Pediatric Deaths:** Five influenza-associated pediatric deaths were reported, one of which occurred during the 2016-17 season.
- **Influenza-associated Hospitalizations:** A cumulative rate of 1.4 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported.
- **Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 2.0%, which is below the national baseline of 2.2%. Regions 1, 2, 4 and 6 reported ILI at or above region-specific baseline levels. Two states experienced high ILI activity, one state experienced moderate ILI activity, New York City and 4 states experienced low ILI activity, the District of Columbia and 43 states experienced minimal ILI activity, and Puerto Rico had insufficient data.
- **Geographic Spread of Influenza:** The geographic spread of influenza in two states was reported as widespread; Guam and six states reported regional activity; 20 states reported local activity; the District of Columbia, the U.S. Virgin Islands and 21 states reported sporadic activity; one state reported no activity; and Puerto Rico did not report.

Weekly U.S. Influenza Surveillance Report. Centers for Disease Control and Prevention.

<https://www.cdc.gov/flu/weekly/index.htm>, Retrieved: 11/30/2017.