

# Kentucky Department for Public Health Weekly Influenza Surveillance Report Morbidity and Mortality Weekly Report (MMWR) Week 50 December 10– December 16, 2017



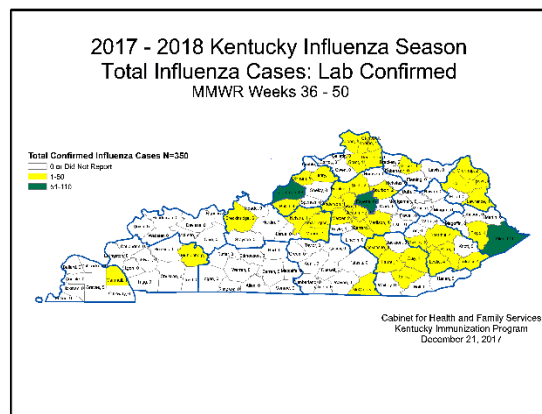
## Current Influenza Activity Level: **Widespread**

**Widespread:** Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

**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)

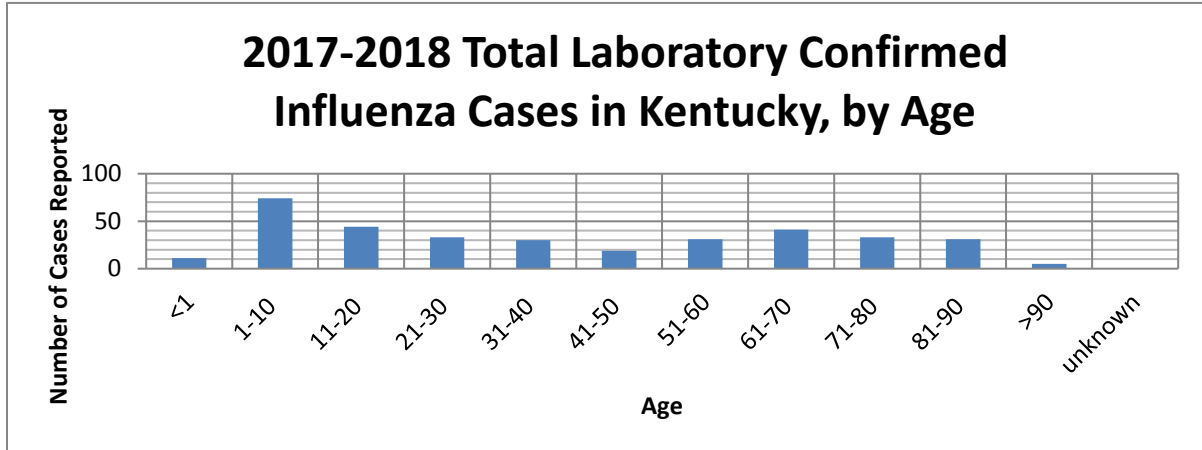
Activity Level Range: Sporadic Local Regional Widespread

Update for week 50:		Update Total for weeks 36-50:	
Lab Confirmed Influenza:	<b>179 Cases</b>	Lab Confirmed Total:	<b>350 Cases</b>
Number of Regions with Long Term Care Facility Outbreaks:	<b>4 of 17 Regions</b>	Total Number of Long Term Care Facility Outbreaks:	<b>7 Outbreaks</b>
Number of Regions with Confirmed Flu Cases:	<b>12 of 17 Regions</b>	Total Number of Regions with Confirmed Flu Cases:	<b>14 of 17 Regions</b>
Deaths Reported:	<b>0 (under 18 years) 0 (18 years &amp; older)</b>	Total Deaths Reported:	<b>0 (under 18 years) 1 (18 years &amp; older)</b>
Number of Regions with Increased ILI Activity:	<b>17 of 17 Regions</b>		
Number of Regions with Increased Influenza Activity (see page 3):	<b>12 of 17 Regions</b>		

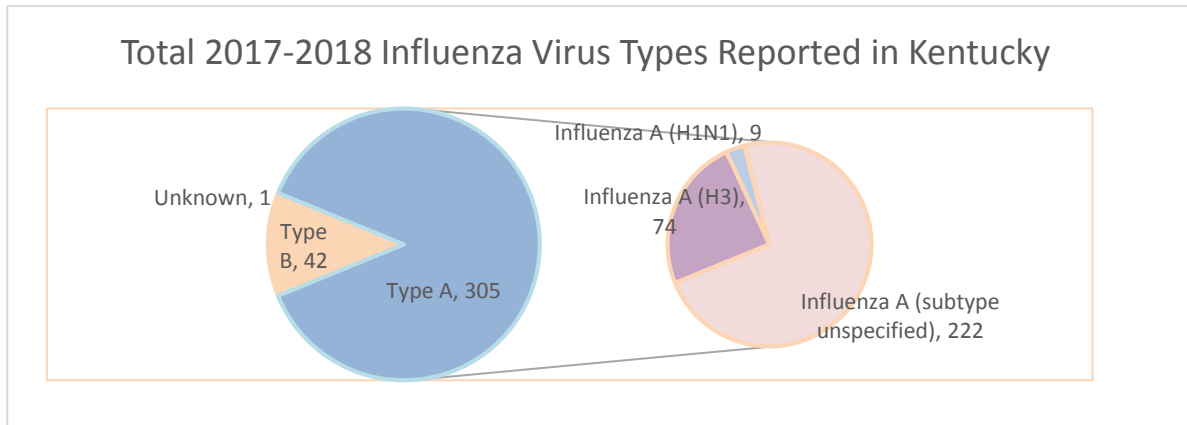


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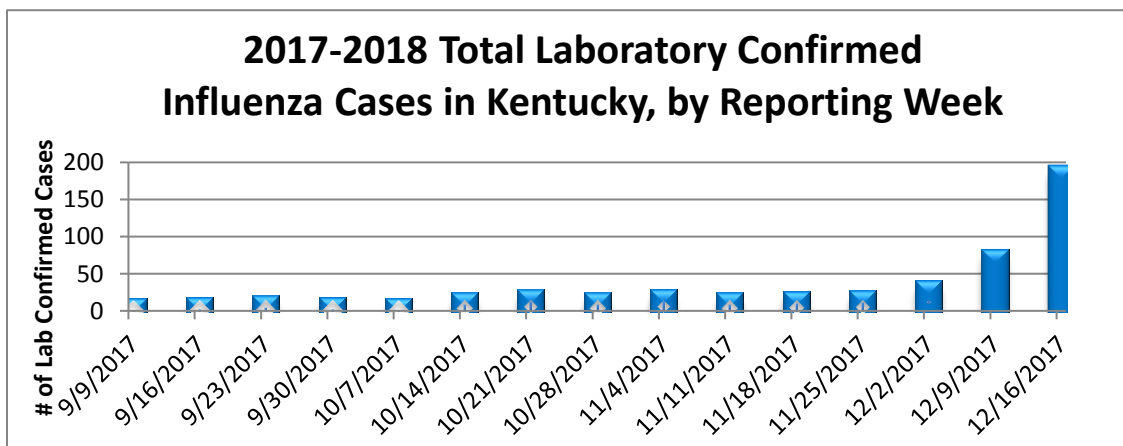
**Fig 1: Laboratory Confirmed Cases by Age**



**Fig 2: Laboratory Confirmed Cases by Influenza Virus Types**



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



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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	0/6	2	X		
Big Sandy	0/1		X	81	X
Bluegrass Region	2/8		X		
Buffalo Trace / Gateway	2/3	1	X		
Capital Region	6/13	1	X	15	X
Cumberland Valley	0/5		X	1	X
FIVCO	1/3		X	6	X
Green River	0/4		X		
Kentucky River	0/1		X	9	X
Lake Cumberland	0/1		X	1	X
Lexington - Fayette	3/7	2	X	31	X
Lincoln Trail	1/6		X	7	X
Louisville-Metro	3/20		X	17	X
North Central	1/2		X	4	X
Northern KY	3/11		X	6	X
Pennyrile	0/2		X	1	X
Purchase	0/3		X		
<b>**Total:</b>	22/94	4/17 regions	17/17 regions	12/17 regions	12/17 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, [December 10 – December 16, 2017].

\*The report for week 51 will be available in January 2018 and will be attached to the report for week 52.



National Data  
2017-2018 Influenza Season  
Week 49 ending December 9, 2017

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

*\*Week 50 will be available December 28th and will be attached on the next report.*

**Synopsis:** During week 49 (December 3-9, 2017), influenza activity increased in the United States.

- **Viral Surveillance:** The most frequently identified influenza virus type reported by public health laboratories during week 49 was influenza A. The percentage of respiratory specimens testing positive for influenza in clinical laboratories increased.
- **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:** One influenza-associated pediatric death was reported.
- **Influenza-associated Hospitalizations:** A cumulative rate of 4.3 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 2.7%, which is above the national baseline of 2.2%. Seven of the 10 regions reported ILI at or above region-specific baseline levels. Four states experienced high ILI activity; five states experienced moderate ILI activity; New York City, Puerto Rico, and 16 states experienced low ILI activity; 25 states experienced minimal ILI activity; and the District of Columbia had insufficient data.
- **Geographic Spread of Influenza:** The geographic spread of influenza in 12 states was reported as widespread; Puerto Rico and 26 states reported regional activity; 10 states reported local activity; the District of Columbia, the U.S. Virgin Islands and two states reported sporadic activity; and Guam did not report.

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

<https://www.cdc.gov/flu/weekly/index.htm>, Retrieved: 12/20/2017.