

Kentucky Department for Public Health Weekly Influenza Surveillance Report Morbidity and Mortality Weekly Report (MMWR) Week 42 October 15– October 21, 2017



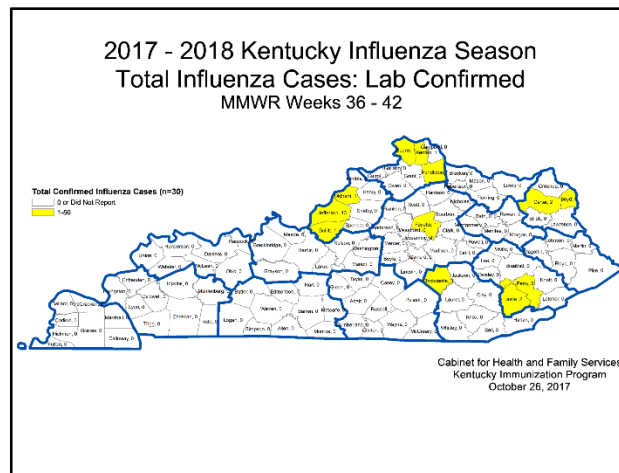
Current Influenza Activity Level: [†]Local

[†]**Local:** Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of 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 42: | | Update Total for weeks 36-42: | |
|--|--|---|--|
| Lab confirmed influenza: | 12 Cases | Lab confirmed Total: | 30 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 ILI activity: | 7 of 17 regions | Total Number of Regions with Confirmed Flu Cases: | 7 of 17 Regions |
| Number of regions with Confirmed Flu Cases: | 5 of 17 regions | Total Deaths Reported: | 0 (under 18 years) 0 (18 years & older) |
| Number of regions with increased influenza activity: | 1 of 17 regions | | |
| Deaths Reported: | 0 (under 18 years) 0 (18 years & older) | | |



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Fig 1: Laboratory Confirmed Cases by Age

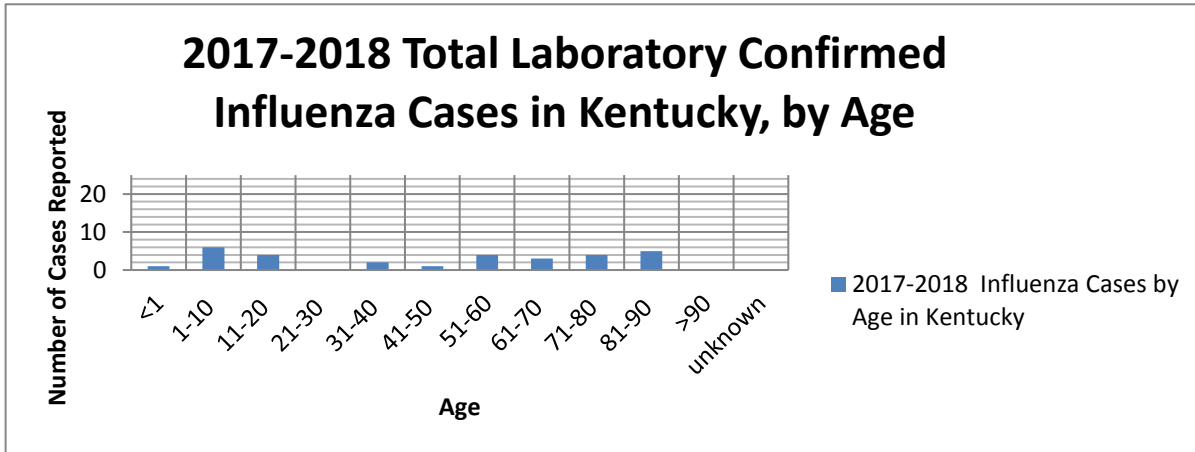


Fig 2: Laboratory Confirmed Cases by Influenza Virus Types

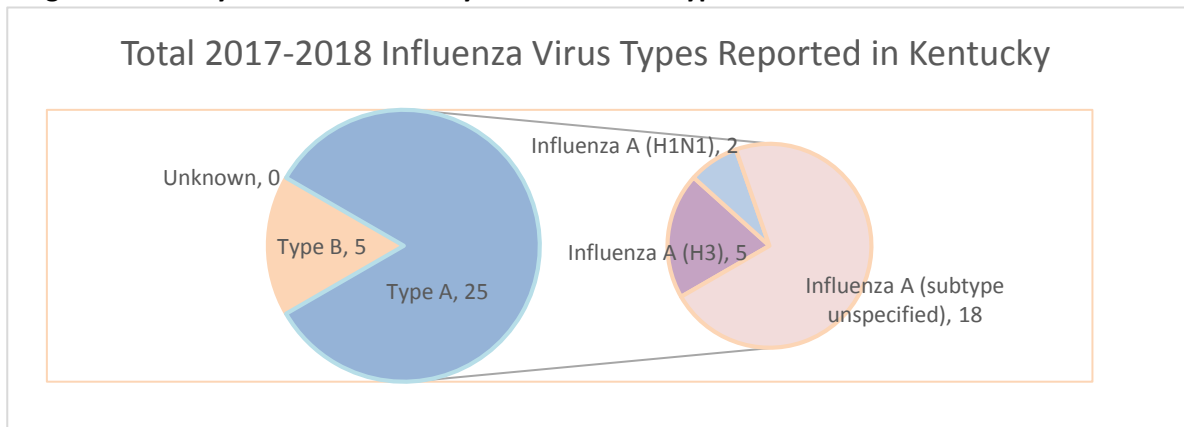
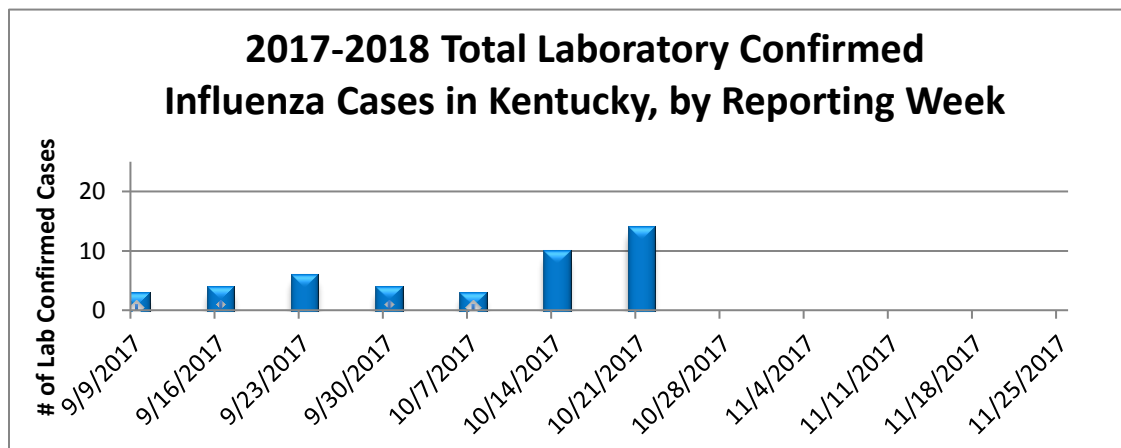


Fig 3: 2017-2018 Total Laboratory Confirmed Influenza Cases in Kentucky, by Reporting Week



*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 | 0/6 | | | | |
| Big Sandy | 0/1 | | | | |
| Bluegrass | 7/21 | | | | |
| Buffalo Trace | 0/0 | | | | |
| Cumberland Valley | 0/5 | | | 3 | |
| Fayette County | 4/7 | | X | 1 | X |
| FIVCO | 1/3 | | | 1 | |
| Gateway | 0/3 | | | | |
| Green River | 0/5 | | | | |
| Jefferson County | 2/25 | | | 3 | |
| Kentucky River | 0/1 | | | 5 | |
| KIPDA | 2/2 | | | | |
| Lake Cumberland | 0/1 | | | | |
| Lincoln Trail | 1/7 | | | | |
| Northern KY | 3/10 | | | | |
| Pennyrile | 0/2 | | | | |
| Purchase | 0/3 | | | | |
| **Total : | 20/102 | 0/17 regions | 1/17 regions | 5/17 regions | 1/17 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, [October 15- October 21, 2017].



National Data
2017-2018 Influenza Season
Week 41 ending October 14, 2017

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

**Week 42 will be available November 2nd and will be attached on the next report.*

Synopsis:

During week 41 (October 8-14, 2017), influenza activity was low in the United States.

- **Viral Surveillance:** The most frequently identified influenza virus type reported by public health laboratories during week 41 was influenza A. The percentage of respiratory specimens testing positive for influenza in clinical laboratories is low.
- **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 that occurred during the 2016-2017 season.
- **Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 1.3%, which is below the national baseline of 2.2%. All 10 regions reported ILI below region-specific baseline levels. New York City, the District of Columbia, Puerto Rico and all 50 states experienced minimal ILI activity.
- **Geographic Spread of Influenza:** The geographic spread of influenza in Guam was reported as regional; five states reported local activity; the U.S. Virgin Islands and 38 states reported sporadic activity; the District of Columbia and seven states 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: 10/25/2017.