



COLUMBIA/BOONE COUNTY DEPARTMENT OF  
PUBLIC HEALTH AND HUMAN SERVICES

**2017-2018**

# FLU SEASON REPORT

OCTOBER 1, 2017 TO MAY 19, 2018



PUBLISHED AUGUST 2018

In Missouri, influenza is a communicable disease reported year round. This report focuses on the 2017-2018 season beginning October 1, 2017 (CDC Week 40) and lasting to May 19, 2018 (CDC Week 20). Boone County had 5,171 reported cases of influenza during the 2017-18 season (Figure 1). The number of reported cases in the county is the highest number reported this decade.

According to the Centers for Disease Control and Prevention (CDC), influenza A (H3N2) viruses predominated across the United States during this season.

In seasons where H3N2 is the dominant strain, the season tends to have high numbers of reported cases along with more severe symptoms. Of the reported cases in Boone County, 3,136 were Influenza A (60% of all reported cases), while 2,032 were Influenza B (40%). Three unknown/untyped flu cases were also reported during the season.

Reported cases of influenza steadily increased beginning in CDC week 46 (week beginning November 12, 2017), and the season peaked during CDC week 4 (week beginning January 21, 2018). Seventy-five percent of the season's total reported cases occurred during CDC weeks 52 to 7 (week beginning December 24, 2017 to week beginning February 11, 2018).

In Boone County, the 25-49 year old age group reported the highest number of influenza cases with 1,237 (24% of all cases). The 5-14 year old age group reported the second highest number of cases with 1,050 (20% of all cases).

This age group had the highest number of reported cases across the state according to the Missouri Department of Health and Senior Services.

However, the 0-4 year old age group had the highest rate of reported flu cases with 5,597.12/100,000. While this group has the lowest population in Boone County compared to the other age groups (10,559 out of a county population of 174,974), the 0-4 year old age group is at the highest risk of getting the flu. By age group, 0-4 had the highest rate of influenza in Missouri with 5,495.78/100,000. Overall, Boone County had a higher rate of influenza per 100,000 persons in each age group compared to Missouri during the 2017-18 season (Figure 2).

**Figure 1**

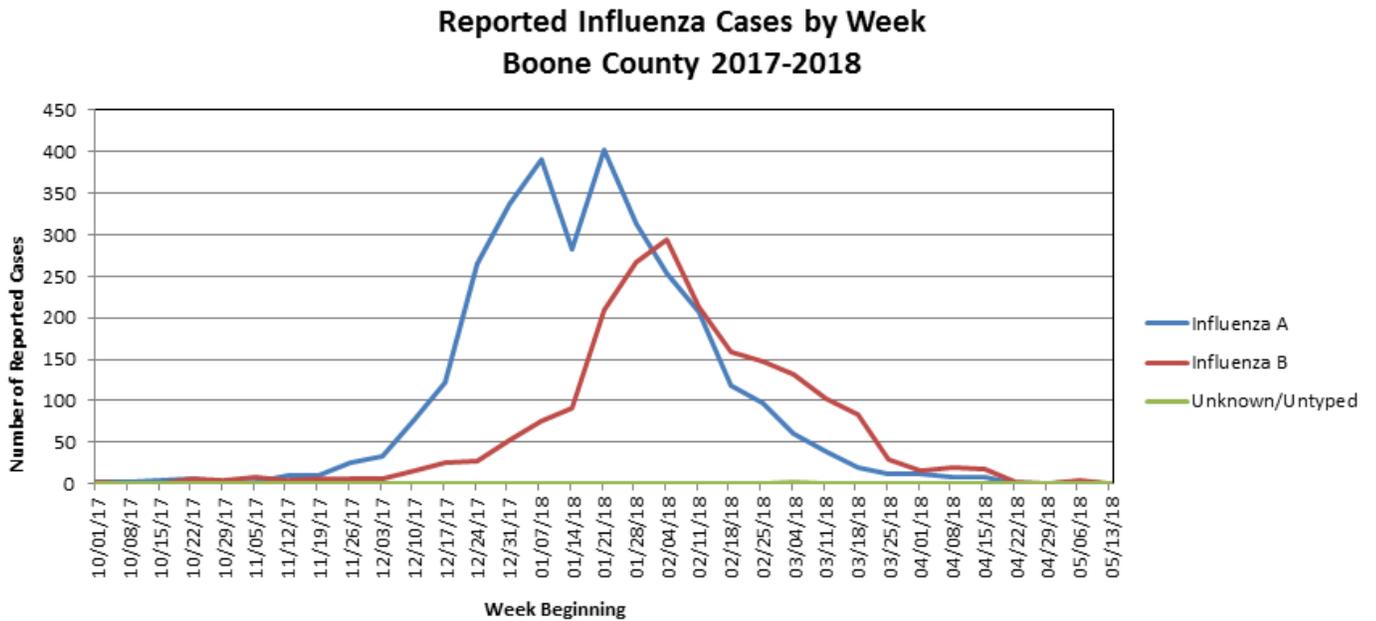
Reported Influenza in Boone County By Type and Age Group 2017-2018 Season					
Age Group	Influenza A	Influenza B	Unknown/ Untyped	Total	Percent of Total
0-1 Yrs	130	56	0	186	4%
2-4 Yrs	259	146	0	405	8%
5-14 Yrs	634	416	0	1,050	20%
15-24 Yrs	494	372	0	866	17%
25-49 Yrs	746	491	0	1,237	24%
50-64 Yrs	442	313	3	758	15%
65+ Yrs	431	238	0	669	13%
<b>Total</b>	<b>3,136</b>	<b>2,032</b>	<b>3</b>	<b>5,171</b>	<b>100%</b>

**Figure 2**

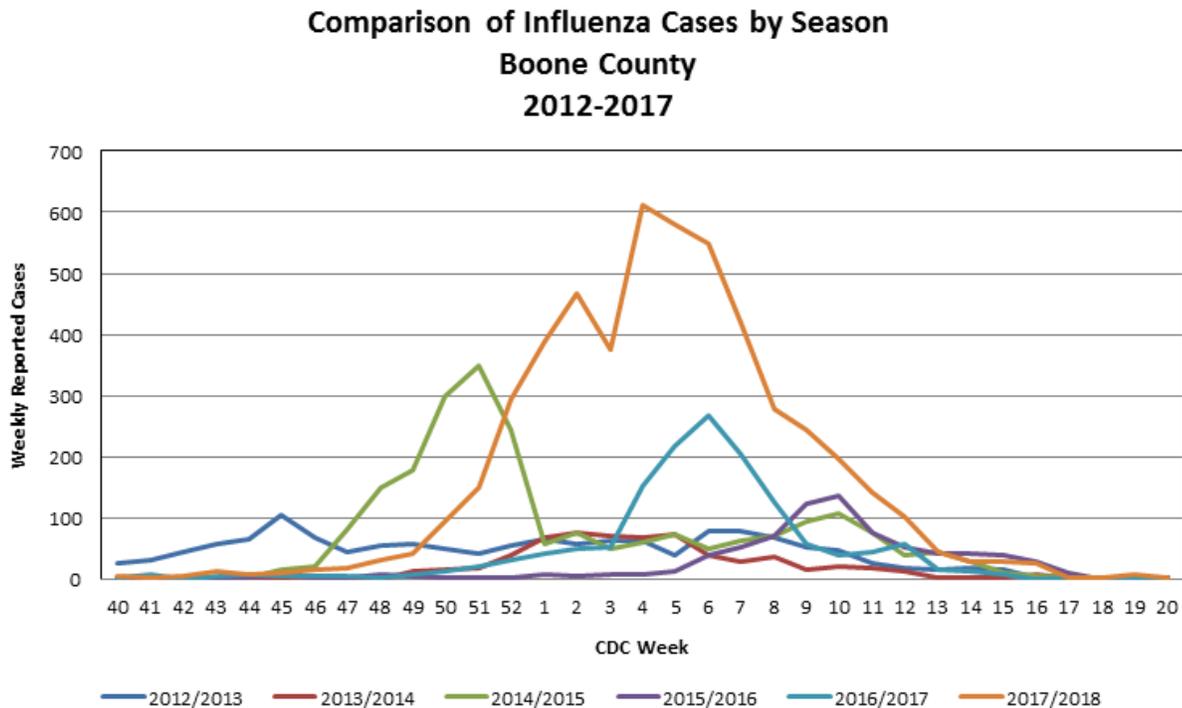
Incidence Rate Per 100,000 by Age Group*		
Age Group	Boone County	Missouri
0-4	5,597.12	5,495.78
5-24	3,158.80	2,947.25
25-49	2,203.07	1,405.02
50-64	2,649.24	1,559.88
65+	3,521.42	2,086.35
<b>Cumulative Rate</b>	<b>2,955.30</b>	<b>2,201.91</b>

\*2015 estimated population

**Figure 3**



**Figure 4**



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