Utah Influenza Report

This report contains data through the week ending 05/19/2018 (MMWR week 20).

UTAH DEPARTMENT OF HEALTH
Communicable Disease Analysis & Reporting Program

Overview of Influenza Surveillance: Surveillance for the 2017-2018 influenza season officially began on October 1, 2017. The Utah Department of Health publishes a weekly report throughout the active influenza season that synthesizes data from a variety of sources to give the most complete and up-to-date picture of influenza activity in the state of Utah. Data in this report should be considered provisional, and may change as more complete reports are received.

The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) is a national system that conducts surveillance for ILI in out-patient healthcare facilities, including emergency departments. For this system, ILI is defined as fever (temperature of 100oF or greater) and a cough and/or sore throat without a known cause other than influenza. These data provide an indication of ILI circulating in the community. Due to technical issues in the past several months, ILI in Utah for 2017-2018 may be significantly underreported; we are working to correct these issues.

Figure 1. Weekly Influenza-like Illness Activity
Influenza-like illness (ILI) activity as measured by the number of standard deviations from the epidemic threshold - Utah, 2017-2018

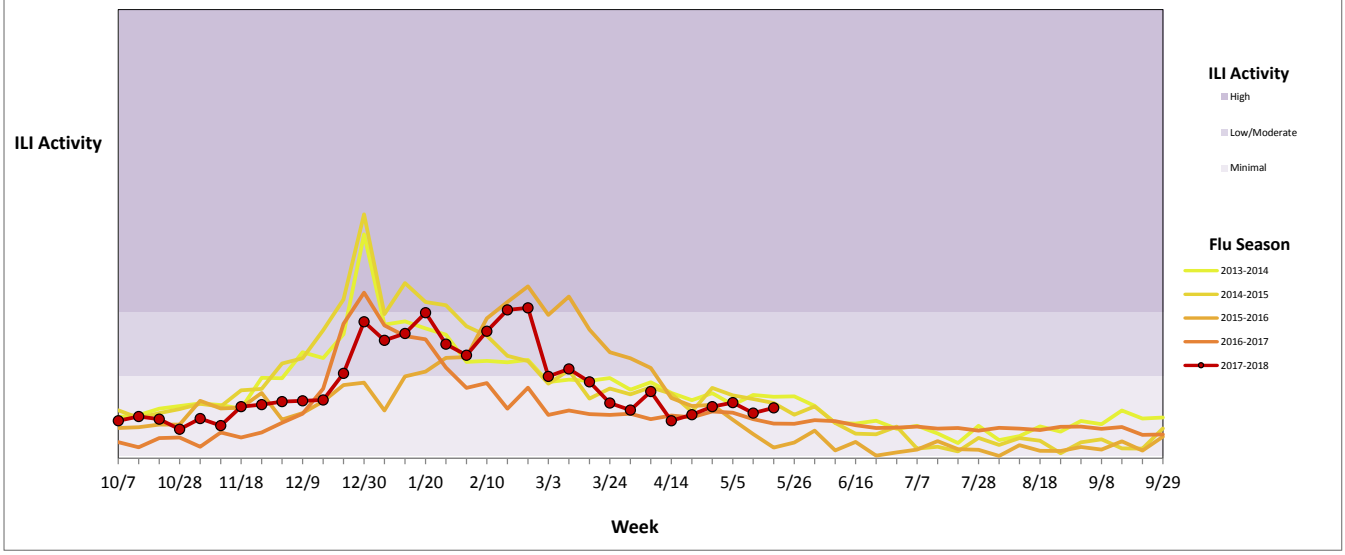

Table 1. Influenza-like Illness (ILI) Activity Levels by Health District - Utah, Current Week

Health District	ILI Activity
Bear River	Low/Moderate
Central Utah	Minimal
Davis County	Low/Moderate
Salt Lake County	Minimal
San Juan County	Minimal
Southeast Utah	Minimal
Southwest Utah	Minimal
Summit County	Minimal
Tooele County	Minimal
TriCounty	Minimal
Utah County	Minimal
Wasatch County	Minimal
Weber-Morgan	Minimal
State Average	**Minimal**

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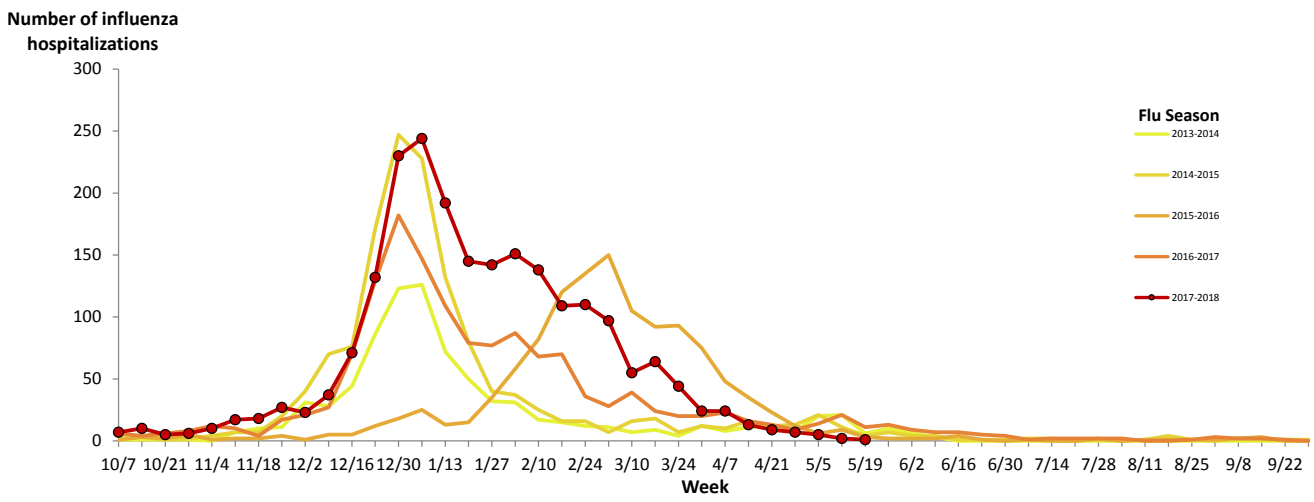
Influenza Hospitalizations: Influenza hospitalizations are a reportable condition in Utah. A person meets the case definition for an influenza hospitalization if they are hospitalized for any length of time and have an influenza positive serology, DFA, PCR, culture or rapid influenza diagnostic test. Public health in Utah gathers a variety of data on influenza hospitalizations including clinical features, course of illness, risk and protective factors, and influenza type and subtype. Data from influenza hospitalizations allows public health in Utah to better understand subgroups of the Utah population that are most severely affected by influenza and help to guide prevention messages and interventions.

Figure 2. Influenza Hospitalizations
Number of influenza hospitalizations by event date* - Utah, 2017-2018



*Event date is calculated based on a hierarchy of dates: 1. onset date 2. specimen collection date 3. date reported to public health.

Table 2. Influenza Hospitalizations by Health District - Utah

Health District	Current Week	Season To Date
Bear River	0	119
Central Utah	0	49
Davis County	0	202
Salt Lake County	1	997
San Juan County	0	8
Southeast Utah	0	7
Southwest Utah	0	221
Summit County	0	25
Tooele County	0	15
TriCounty	0	77
Utah County	0	286
Wasatch County	0	13
Weber-Morgan	0	150
State Total	**1**	**2,169**

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Table 3. Influenza Hospitalizations by Age Group - Utah, Season To Date

Age Group	Total Cases	% of Cases
0-4	159	7.3
5-24	185	8.5
25-49	234	10.8
50-64	381	17.6
65+	1,210	55.8
Total	**2,169**	**100.0**

Table 4. Influenza Hospitalizations by Sex and Race - Utah, Season To Date

Variable		Num. of Cases	% of Cases	% in Utah Pop
Sex	Male	1,062	49.0	50.3
	Female	1,099	50.7	49.7
	Unknown	8	0.4	NA
Race	White, Not Hispanic	1,668	76.9	78.8
	Hispanic	177	8.2	13.8
	Native Hawaiian/Pacific Islander	0	0.0	1.0
	Black/African American	0	0.0	1.1
	American Indian	0	0.0	1.0
	Asian	19	0.9	2.4
	Unknown	305	14.1	NA

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Student Absenteeism: School-age children are at high risk for respiratory virus infections, including influenza. Aggregate, all-cause absenteeism data is collected weekly from over 350 schools throughout Utah. These data are analyzed to identify elevated absenteeism rates that could indicate the circulation of influenza in school-age children.

Figure 3. Student Absenteeism by Week

Rates for absences due to all causes - Utah, 2016-2017 and previous 3 year average

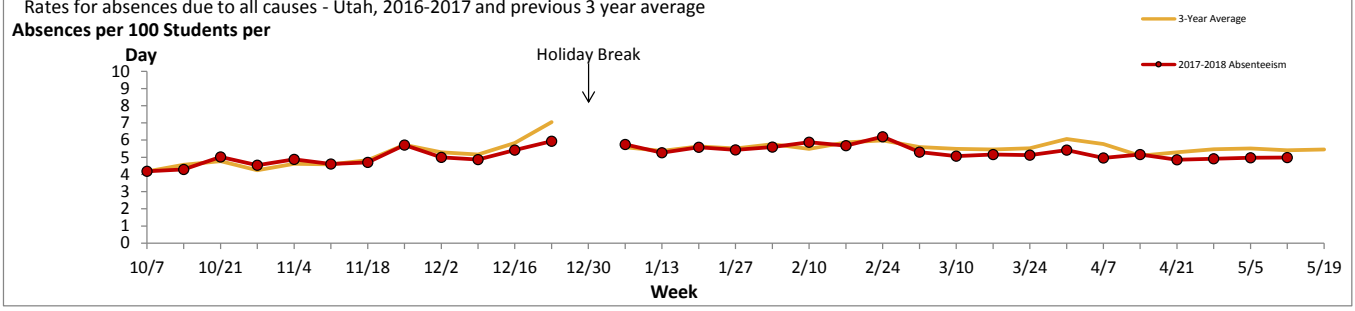


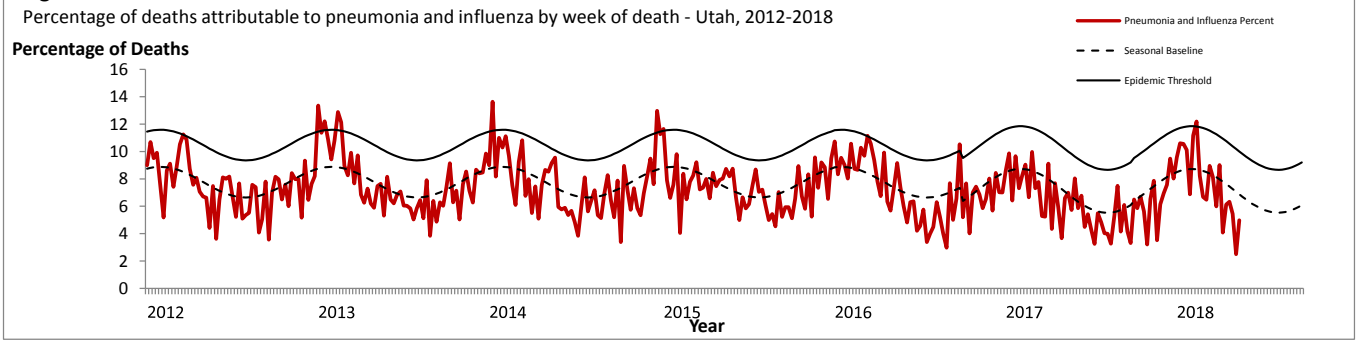
Table 5. Weekly Student Absenteeism - Utah, Current Week

Health District	Absences per 100 students/day
Bear River	5.9
Central Utah	3.6
Davis County	4.3
Salt Lake County	4.7
San Juan County	7.3
Southeast Utah	5.9
Southwest Utah	8.0
Summit County	--
Tooele County	--
TriCounty	--
Utah County	3.1
Wasatch County	4.9
Weber-Morgan	7.0
State Average	5.0

Pneumonia and Influenza Deaths: Each week the total number of death certificates received and the number of those for which pneumonia or influenza was listed as an underlying or contributing cause of death is collected. The percentage of deaths due to pneumonia and influenza are compared with a seasonal baseline and epidemic threshold value calculated for each week. These data are used to monitor the severity of influenza illness in the community. Note that the seasonal baseline and epidemic threshold were updated at the start of the 2016-2017 influenza season.

Figure 4. Pneumonia and Influenza Deaths

Percentage of deaths attributable to pneumonia and influenza by week of death - Utah, 2012-2018



http://health.utah.gov/epi/data ● 801-538-6191 ● epi@utah.gov

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Laboratory Surveillance: The Utah - National Electronic Disease Surveillance System (UT-NEDSS) maintains influenza testing results from hospital laboratories and the Utah Public Health Laboratory (UPHL). At UPHL, specimens are tested to determine influenza type and subtype. A portion of specimens are also sent to the Centers for Disease Control and Prevention for additional testing, including gene sequencing, antiviral resistance testing and antigenic characterization.

Figure 5. Influenza Positive Tests

Influenza positive specimens tested by laboratories throughout the state, 2017-2018

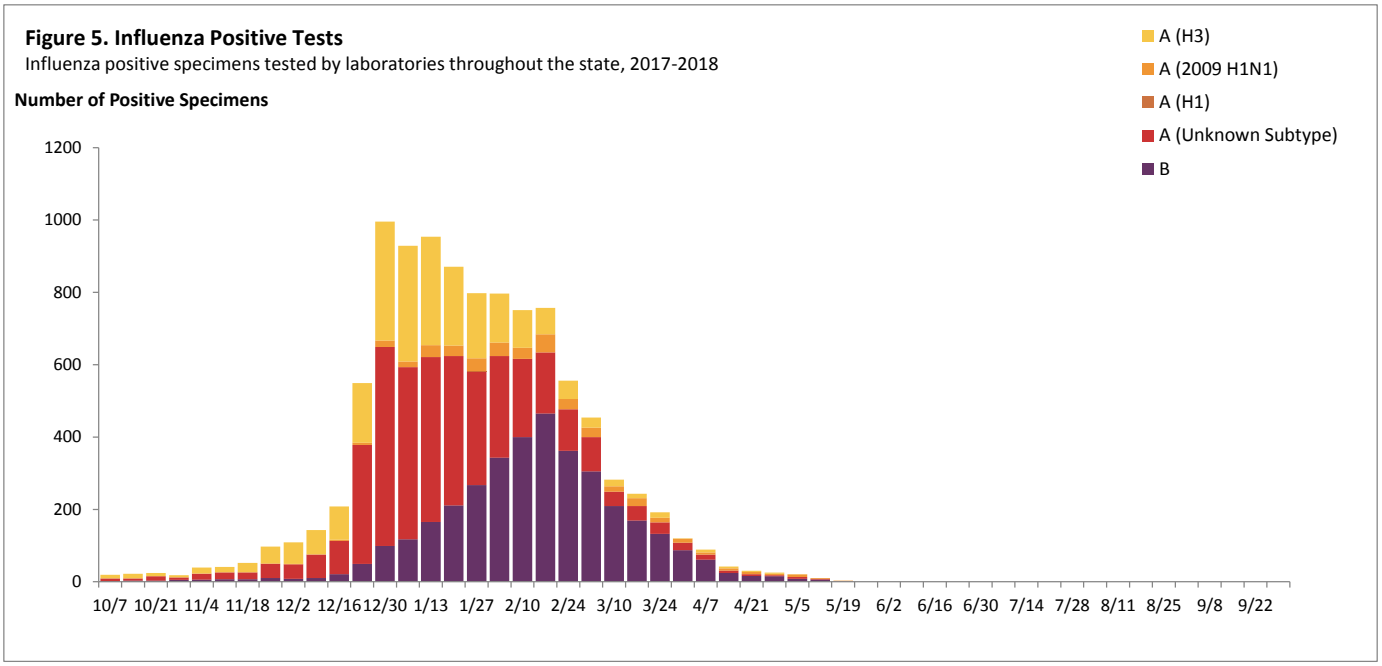

Table 6. UT-NEDSS Laboratory Influenza Testing Data: Positive Specimens by Type/Subtype

	Current Week		Season to Date	
Total Number of Positive Specimens	3		10,632	
	Number	Percentage	Number	Percentage
Influenza Type A	**2**	**67%**	**6,912**	**65%**
A (2009 H1N1 Subtype)	1	50%	421	6%
A (H1 Subtype)	0	0%	1	0%
A (H3 Subtype)	0	0%	2,391	35%
A (No Subtyping)*	1	50%	4,099	59%
Influenza Type B	**1**	**33%**	**3,720**	**35%**

* This category includes results of influenza A positive specimens from tests for which subtyping is not performed. It also includes tests where no subtype is detectable. When subtyping is not detectable, specimens are sent to the CDC for confirmatory testing.