

## Utah Weekly Pertussis Update

2017 data, through MMWR week ending January 28, 2017 (MMWR week 4)

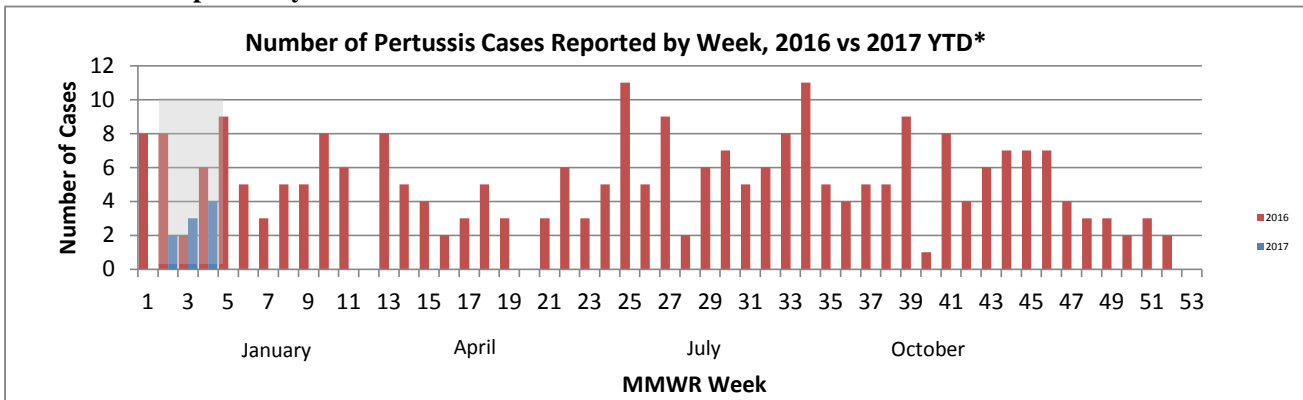
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2017 year-to-date (YTD)	9	Utah Incidence rate, 2017 year-to-date (YTD) per 100,000 person-years	3.9
Total number of cases reported 2016	267	Utah Incidence rate, 2016 per 100,000 person-years	9.1
Number of cases reported in past week	4	National Incidence rate*, 2015 per 100,000 person-years.	5.7
Total number of cases reported, through same time period 2016	24	2017 Hospitalizations	3
Age groups with the highest rates	<1	2017 Cases in infants <1 year	1
	15-24		

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2017 Year-to-Date Incidence Rates, By Age

Age (years)	2017 Cases	2015 population	Rate*
<1	1	50,821	25.7
1-4	1	199,882	6.5
5-14	1	516,820	2.5
15-24	3	485,295	8.1
25-34	1	441,518	3.0
35-44	1	399,342	3.3
45-54	1	309,941	4.2
55-64	0	284,433	0.0
65+	0	307,867	0.0
<b>Total</b>	<b>9</b>	<b>2,995,919</b>	<b>3.9</b>

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2017 Year-to-Date

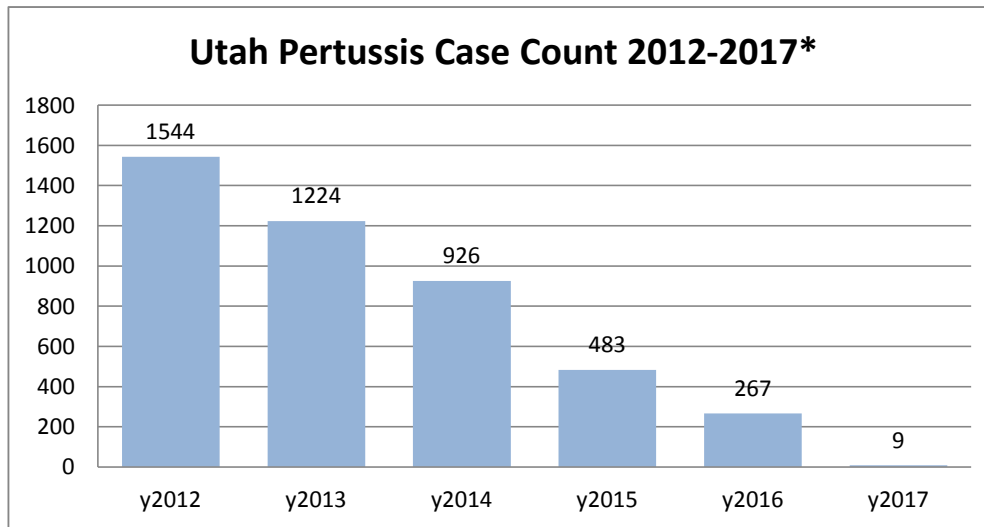
Grade	Age (years)	2017 Cases	2015 Population	Rate*
Preschool	3-4	1	99,213	13.1
Kindergarten	5	0	52,218	0.0
1	6	0	52,501	0.0
2	7	0	53,394	0.0
3	8	0	53,225	0.0
4	9	0	52,275	0.0
5	10	0	52,118	0.0
6	11	0	51,405	0.0
7	12	0	50,993	0.0
8	13	1	49,184	26.5
9	14	0	49,507	0.0
10	15	0	49,530	0.0
11	16	0	47,991	0.0
12	17	1	47,452	27.5

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2012-2017\* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2017 data includes pertussis cases reported year to date. 2012-2016 data reflects cases reported during the entire calendar year for each year.

**Incidence of pertussis by Local Health Department, 2017 YTD**

Local Health Department	2017 Cases	Rate*
Bear River	0	0.0
Central Utah	0	0.0
Davis County	3	11.6
Salt Lake County	1	1.2
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	0	0.0
Summit County	0	0.0
Tooele County	0	0.0
TriCounty	0	0.0
Utah County	4	9.1
Wasatch County	0	0.0
Weber-Morgan	1	5.1

\* Rate is calculated per 100,000 person-years using 2015 Utah population estimates

