

## Utah Weekly Pertussis Update

2016 data, through MMWR week ending January 9, 2016 (MMWR week 1)

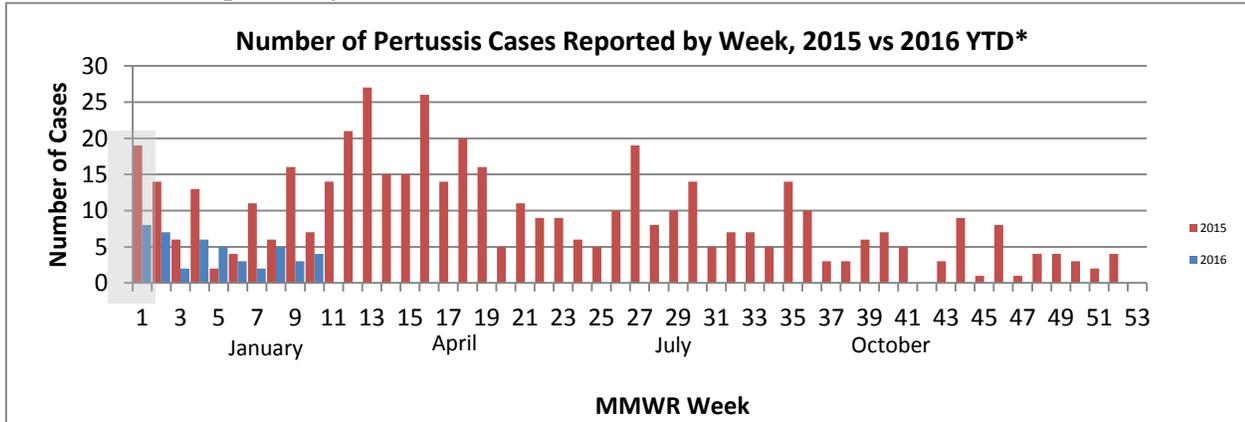
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2016 year-to-date (YTD)	8	Utah Incidence rate, 2016 year-to-date (YTD) per 100,000 person-years	11.0
Total number of cases reported 2015	483	Utah Incidence rate, 2015 per 100,000 person-years	16.7
Number of cases reported in past week	8	National Incidence rate, 2014 per 100,000 person-years.	10.4
Total number of cases reported, through same time period 2015	19	2016 Hospitalizations	0
Age groups with the highest rates	<1 year	2016 Cases in infants <1 year	1
	5-24 year		

\*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.

### 2016 Year-to-Date Incidence Rates, By Age

Age (years)	2016 Cases	2014 population	Rate*, **
<1	1	50,629	2.4
1-4	0	201,502	0.0
5-14	2	511,355	0.5
15-24	2	474,017	0.5
25-34	1	440,622	0.3
35-44	0	386,350	0.0
45-54	1	306,598	0.4
55-64	1	276,569	0.4
65+	0	295,260	0.0
<b>Total</b>	<b>8</b>	<b>2,942,902</b>	<b>11.0</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, 2016 Year-to-Date

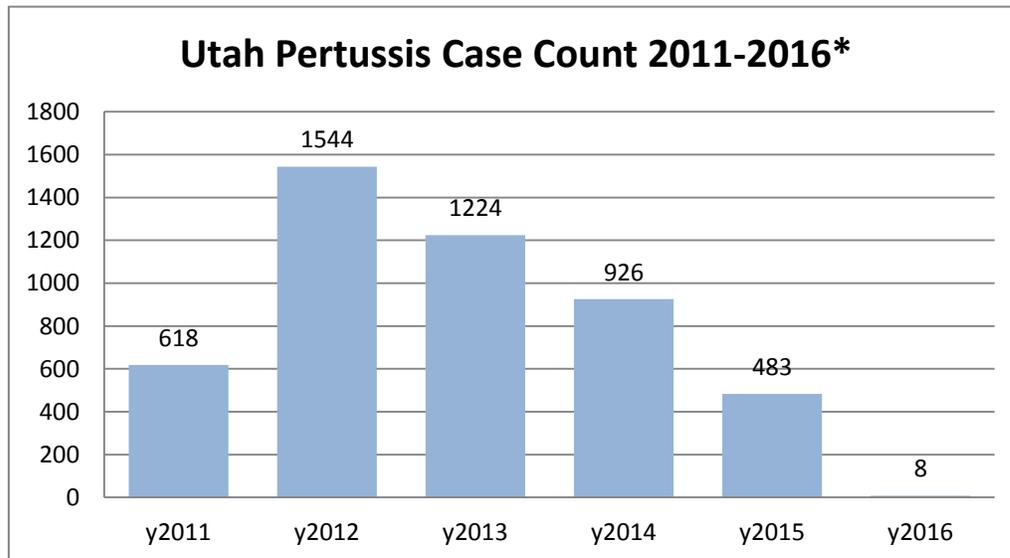
Grade	Age (years)	2016 Cases	2014 Population	Rate*
Preschool	3-4	3	101,497	3.5
Kindergarten	5	0	52,285	0.0
1	6	1	53,101	2.3
2	7	0	52,876	0.0
3	8	0	52,082	0.0
4	9	0	51,852	0.0
5	10	0	51,206	0.0
6	11	0	50,689	0.0
7	12	0	48,996	0.0
8	13	0	49,110	0.0
9	14	1	49,158	2.4
10	15	1	47,568	2.5
11	16	0	46,830	0.0
12	17	1	46,231	2.6

\* 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, 2011-2016\* Year to Date



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

\* 2016 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

**Incidence of pertussis by Local Health Department, 2016 YTD**

Local Health Department	2016 Cases	Rate*
Bear River	0	0.0
Central Utah	0	0.0
Davis County	0	0.0
Salt Lake Valley	2	0.2
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	0	0.0
Summit County	1	3.1
Tooele County	0	0.0
TriCounty	0	0.0
Utah County	2	0.4
Wasatch County	0	0.0
Weber-Morgan	3	1.4

\* Rate is calculated per 100,000 person-years using 2014 Utah population estimates

