

## Utah Weekly Pertussis Update

2017 data, through MMWR week ending April 8, 2017 (MMWR week 14)

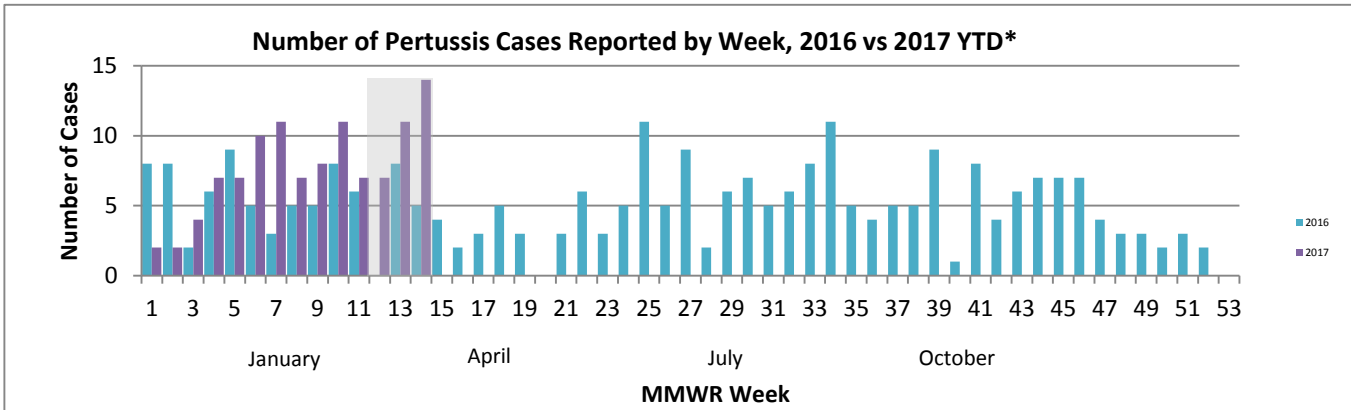
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2017 year-to-date (YTD)	108	Utah Incidence rate, 2017 year-to-date (YTD) per 100,000 person-years	13.4
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	14	National Incidence rate*, 2015 per 100,000 person-years.	5.7
Total number of cases reported, through same time period 2016	78	2017 Hospitalizations	8
Age groups with the highest rates	<1	2017 Cases in infants <1 year	9
	5-14		

\*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	9	50,821	66.0
1-4	10	199,882	18.6
5-14	34	516,820	24.5
15-24	23	485,295	17.7
25-34	6	441,518	5.1
35-44	11	399,342	10.3
45-54	6	309,941	7.2
55-64	3	284,433	3.9
65+	6	307,867	7.3
Total	108	2,995,919	13.4

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

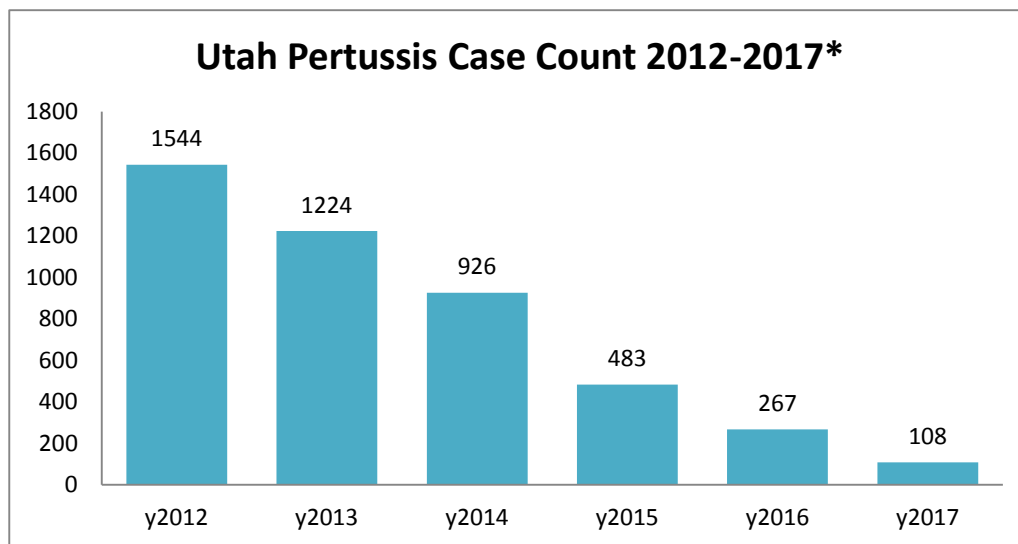
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

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

Grade	Age (years)	2017 Cases	2015 Population	Rate*
Preschool	3-4	4	99,213	15.0
Kindergarten	5	1	52,218	7.1
1	6	5	52,501	35.5
2	7	2	53,394	14.0
3	8	0	53,225	0.0
4	9	2	52,275	14.2
5	10	2	52,118	14.3
6	11	3	51,405	21.7
7	12	1	50,993	7.3
8	13	5	49,184	37.9
9	14	13	49,507	97.8
10	15	3	49,530	22.6
11	16	7	47,991	54.3
12	17	8	47,452	62.8

\* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. 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	5	24.1
Davis County	11	12.2
Salt Lake County	71	23.9
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	1	1.7
Summit County	1	9.4
Tooele County	0	0.0
TriCounty	0	0.0
Utah County	12	7.8
Wasatch County	0	0.0
Weber-Morgan	7	10.2

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

