

## Utah Weekly Pertussis Update

2018 data, through MMWR week ending December 29, 2018 (MMWR week 52)

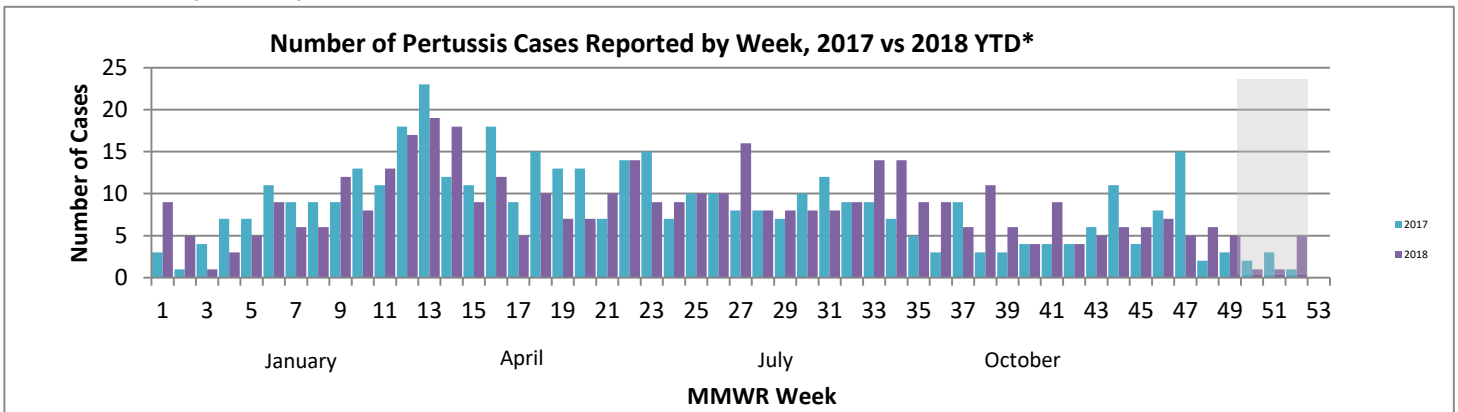
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2018 year-to-date (YTD)	433	Utah Incidence rate, 2018 year-to-date (YTD) per 100,000 person-years	14.5
Total number of cases reported 2017	439	Utah Incidence rate, 2017 per 100,000 person-years	14.6
Number of cases reported in past week	5	National Incidence rate*, 2016 per 100,000 person-years.	4.7
Total number of cases reported, through same time period 2017	439	2018 Hospitalizations	20
Age groups with the highest rates	<1	2018 Cases in infants <1 year	29
	1-4		

\*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.

### 2018 Year-to-Date Incidence Rates, By Age

Age (years)	2018 Cases	2016 population	Rate*
<1	29	51,162	58.0
1-4	48	202,288	24.3
5-14	106	520,247	20.8
15-24	114	491,359	23.7
25-34	24	448,845	5.5
35-44	43	410,933	10.7
45-54	30	314,060	9.8
55-64	14	291,159	4.9
65+	24	321,164	7.6
Unknown	1	-	-
<b>Total</b>	<b>433</b>	<b>3,051,217</b>	<b>14.5</b>

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

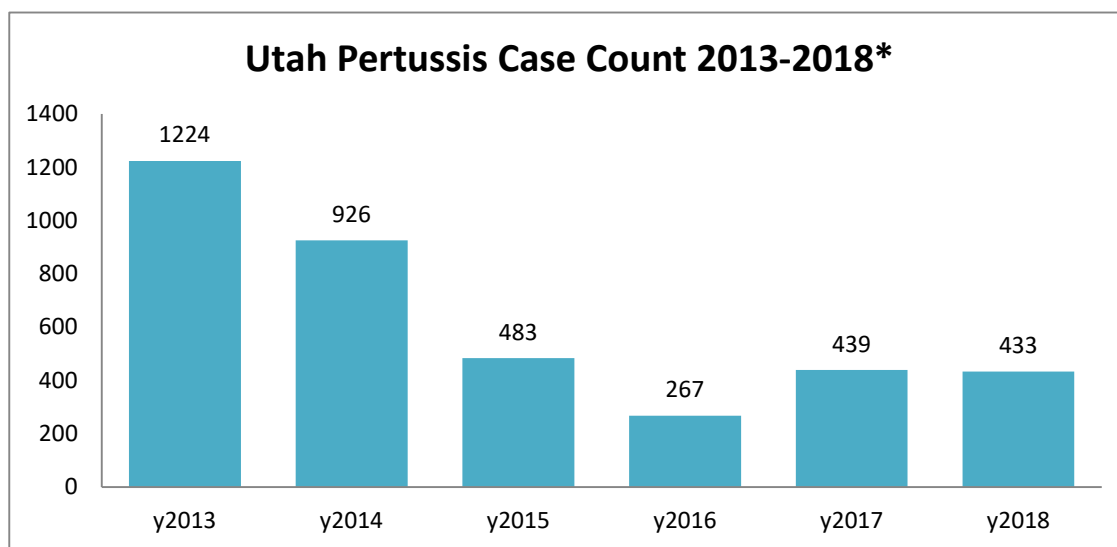
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2018 Year-to-Date

Grade	Age (years)	2018 Cases	2016 Population	Rate*
Preschool	3-4	17	100,804	17.2
Kindergarten	5	10	50,541	20.2
1	6	9	52,444	17.5
2	7	8	52,797	15.5
3	8	9	53,837	17.1
4	9	9	53,515	17.2
5	10	15	52,433	29.2
6	11	11	52,420	21.5
7	12	13	51,616	25.8
8	13	10	51,136	20.0
9	14	12	49,508	24.8
10	15	25	49,763	51.4
11	16	34	49,882	69.7
12	17	22	48,431	46.4

\* 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, 2013-2018\* Year to Date



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

\* 2018 data includes pertussis cases reported year to date. 2013-2017 data reflects cases reported during the entire calendar year for each year.

**Incidence of Pertussis by Local Health Department, 2018 YTD**

Local Health Department	2018 Cases	Rate*
Bear River	31	17.8
Central Utah	2	2.6
Davis County	39	11.6
Salt Lake County	179	16.3
San Juan County	1	6.1
Southeast Utah	2	5.1
Southwest Utah	18	8.0
Summit County	3	7.6
Tooele County	3	4.7
TriCounty	3	5.3
Utah County	104	18.0
Wasatch County	4	13.4
Weber-Morgan	44	17.4

\* Rate is calculated per 100,000 person-years using 2016 Utah population estimates.

