

Utah Weekly Pertussis Update

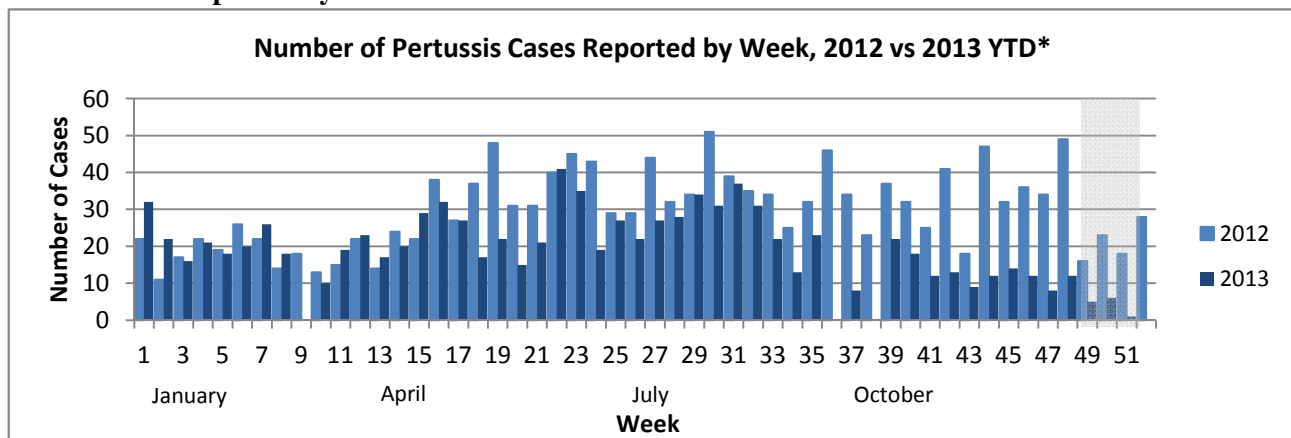
2013 data, through MMWR week ending December 28, 2013 (MMWR week 52)

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, 2013 year-to-date (YTD)	1,033	Utah Incidence rate, 2013 year-to-date (YTD) per 100,000 person-years	36.5
Total number of cases reported 2012	1,544	Utah Incidence rate, 2012 per 100,000 person-years	54.8
Number of cases reported in past week	11	National Incidence rate, 2012 per 100,000 person-years (As of 1/10/13)	13.4
Total number of cases reported, through same time period 2012	1,516	2013 Hospitalizations	25
Age groups with the highest rates	<1 year 5-14 years	2013 Cases in infants <1 year	45

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.

2013 Year-to-Date Incidence Rates, By Age

Age (years)	2013 Cases	2012 population	Rate*
<1	45	51,883	87.5
1-4	161	213,904	75.9
5-14	386	494,285	78.7
15-24	168	463,992	36.5
25-34	67	452,752	14.9
35-44	80	348,250	23.2
45-54	48	310,389	15.6
55-64	43	257,365	16.8
65+	35	262,660	13.4
Total	1033	2,855,480	36.5

* 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, 2013 Year-to-Date

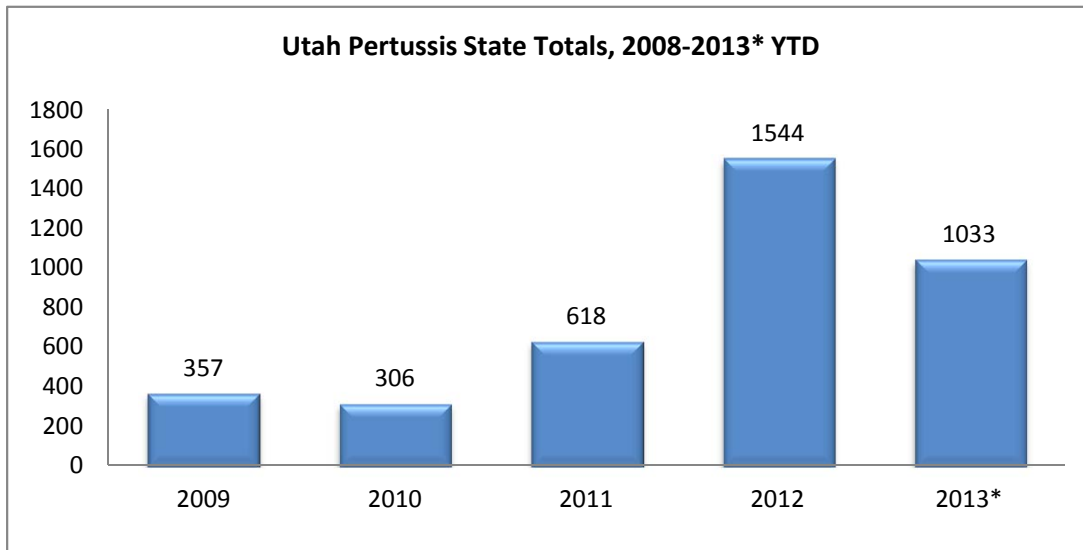
Grade	Age (years)	2013 Cases	2012 Population	Rate*
Preschool	3-4	66	107,474	61.9
Kindergarten	5	23	52,626	44.1
1	6	33	52,405	63.5
2	7	34	51,490	66.6
3	8	31	51,263	61.0
4	9	35	49,029	72.0
5	10	47	49,235	96.3
6	11	55	49,264	112.6
7	12	49	47,284	104.5
8	13	36	46,176	78.6
9	14	43	45,513	95.3
10	15	50	44,006	114.6
11	16	45	44,507	101.9
12	17	22	43,772	50.7

* 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, 2008-2013



Pertussis tends to be cyclical, and reports have been increasing in Utah since 2009.

* 2013 data includes pertussis cases reported year to date. 2008-2012 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2013 YTD

Local Health Department	2013 Cases	Rate*
Bear River	27	16.2
Central Utah	13	17.3
Davis County	97	31.0
Salt Lake Valley	483	45.8
Southeastern Utah	0	0.0
Southwest Utah	115	55.1
Summit County	17	45.1
Tooele County	14	28.6
TriCounty	4	7.4
Utah County	205	38.2
Wasatch County	4	16.0
Weber-Morgan	51	20.9

* Rate is calculated per 100,000 person-years using 2012 Utah population estimates

