

Utah Weekly Pertussis Update

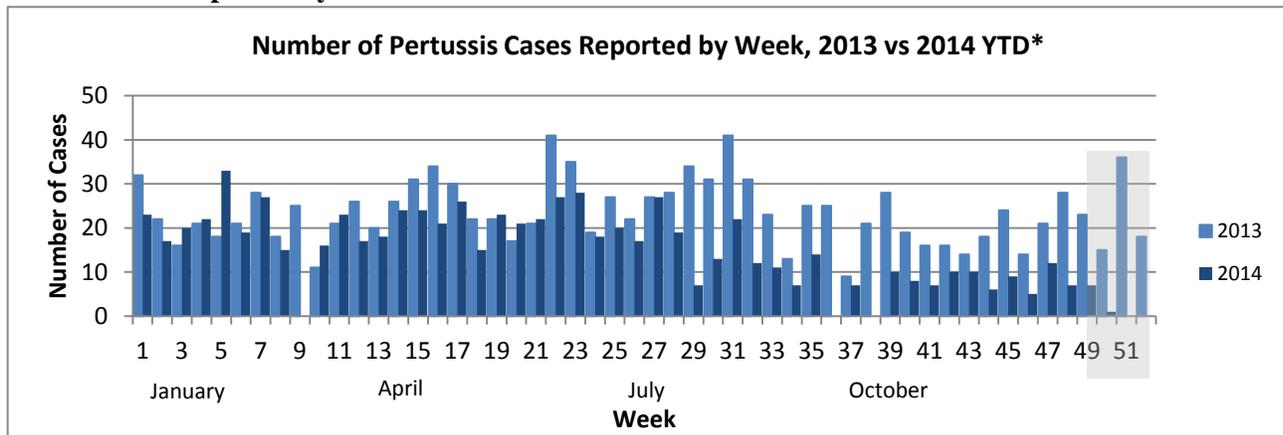
2014 data, through MMWR week ending December 27, 2014 (MMWR week 52)

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, 2014 year-to-date (YTD)	806	Utah Incidence rate, 2014 year-to-date (YTD) per 100,000 person-years	28.1
Total number of cases reported 2013	1,331	Utah Incidence rate, 2013 per 100,000 person-years	47.2
Number of cases reported in past week	16	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2013	1,224	2014 Hospitalizations	35
Age groups with the highest rates	< 1 year	2014 Cases in infants <1 year	73
	5-14 year		

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.

2014 Year-to-Date Incidence Rates, By Age

Age (years)	2014 Cases	2013 population	Rate*, **
<1	73	50,052	147.5
1-4	96	203,815	47.6
5-14	279	505,598	55.8
15-24	144	469,436	31.0
25-34	37	440,736	8.5
35-44	72	372,699	19.5
45-54	55	305,312	18.2
55-64	32	269,589	12.0
65+	18	283,635	6.4
Total	806	2,900,872	28.1

* 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.

**2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

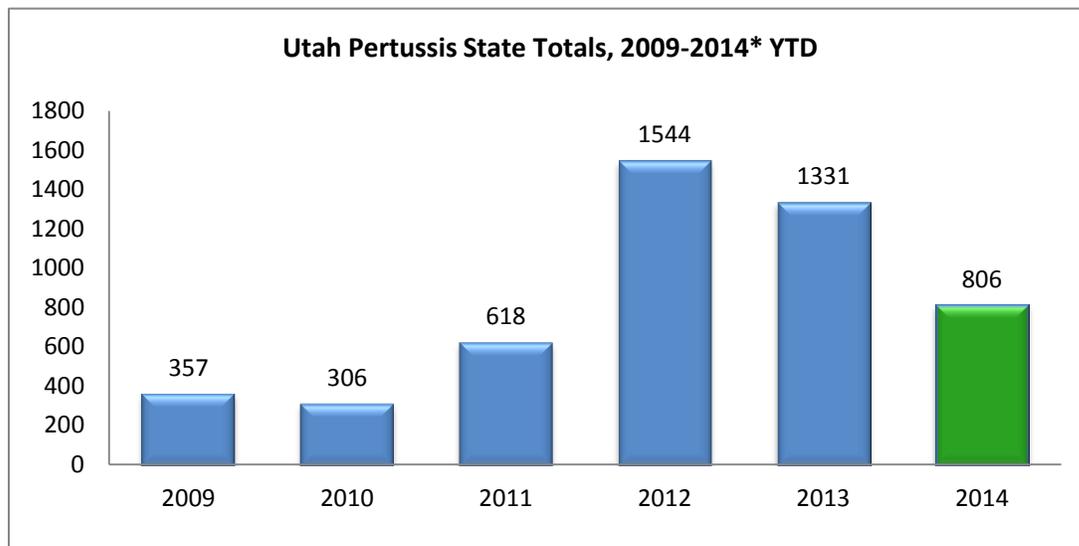
School Age Incidence Rates, 2014 Year-to-Date

Grade	Age (years)	2014 Cases	2013 Population	Rate*
Preschool	3-4	313	103,602	305.5
Kindergarten	5	14	53,177	26.6
1	6	17	52,869	32.5
2	7	26	52,063	50.5
3	8	24	51,809	46.8
4	9	35	51,080	69.3
5	10	31	50,567	62.0
6	11	37	48,961	76.4
7	12	24	49,008	49.5
8	13	27	48,884	55.8
9	14	44	47,180	94.3
10	15	45	46,321	98.2
11	16	28	45,914	61.7
12	17	23	44,889	51.8

* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade. The high incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2008-2014



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

* 2014 data includes pertussis cases reported year to date. 2009-2013 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2014 YTD

Local Health Department	2014 Cases	Rate*
Bear River	48	28.5
Central Utah	34	45.0
Davis County	97	30.4
Salt Lake Valley	241	22.6
Southeastern Utah	2	3.6
Southwest Utah	7	3.3
Summit County	5	13.1
Tooele County	3	5.0
TriCounty	2	3.5
Utah County	191	35.0
Wasatch County	14	53.5
Weber-Morgan	132	53.7

* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

