

Weekly pertussis update for Washington State

Washington State Department of Health

2022 year-to-date (YTD) confirmed and probable cases reported through 09/17/2022 (week 37).

This update summarizes all reports of pertussis in persons with illness onset dates during CDC weeks 1 - 37. The included reports were received by local health jurisdictions (LHJs) and made visible to Washington State Department of Health (DOH) – Communicable Disease Epidemiology, and contained sufficient information for a case classification to have been assigned.

There has been a total of 34 cases reported statewide so far in 2022, compared to 11 cases reported by week 37 in 2021. Dates for the 2022/2021 comparison are based primarily on symptom onset dates.

Figure 1: Number of Pertussis Cases Reported in Washington State by Week of Symptom Onset: 2022 vs 2021

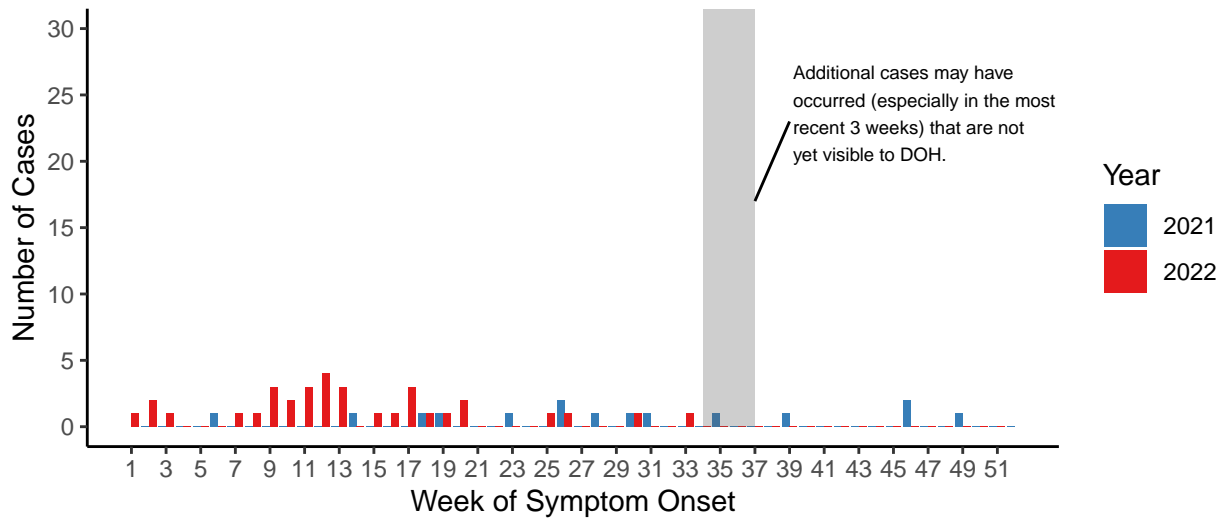
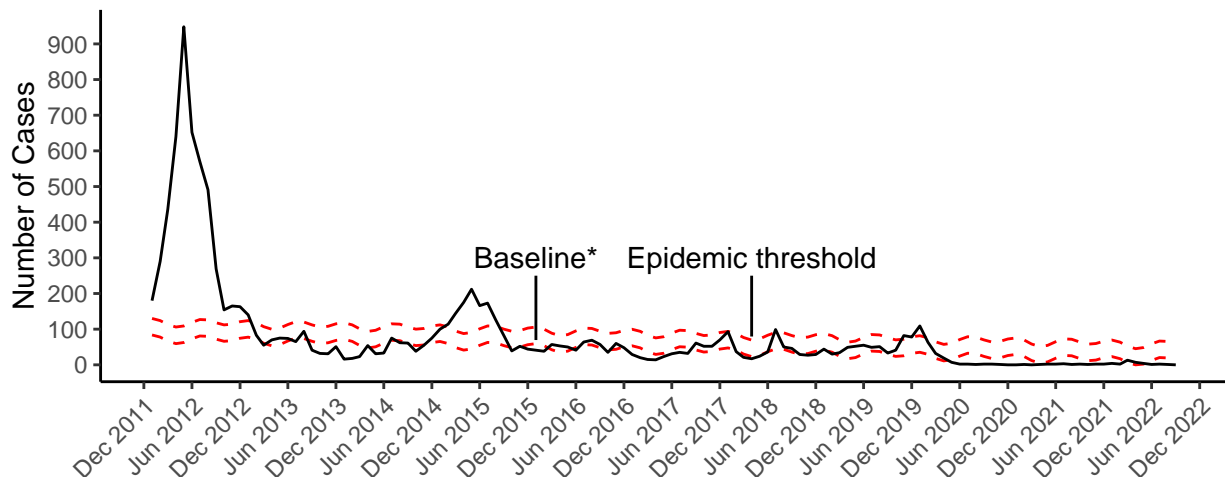


Figure 2: WA State Pertussis Cases Reported by Month and Year with Projected Baseline and Epidemic Thresholds, 2012-2021, with YTD 2022 data added



*Monthly data values from the 2012 epidemic period were not used to project the baseline and epidemic threshold.

Table 1: WA State Pertussis Cases by Age Group, 2022 weeks 1 - 37

Age Group	OFM 2020 Population	Number of Cases	Rate per 100,000 persons	% of cases by age group
< 1	89,038	3	3.4	9
1 - 4	360,093	4	1.1	12
5 - 9	481,675	10	2.1	29
10 - 13	390,105	3	0.8	9
14 - 18	468,897	0	0.0	0
19 - 24	593,072	4	0.7	12
25 - 44	2,086,393	5	0.2	15
45 - 64	1,905,515	4	0.2	12
65+	1,281,417	1	0.1	3
All ages	7,656,205	34	0.4	100

The overall year-to-date incidence rate is 0.4 pertussis cases per 100,000 Washington residents from weeks 1 through 37, with an incidence rate among infants under one year of age of 3.4 cases per 100,000 (see Table 1).

Of 3 infants under one year of age reported as pertussis cases, all 3 were old enough on their dates of onset to have received a first dose of pertussis-containing vaccine, and 2 (67%) had received at least one dose. None have been hospitalized.

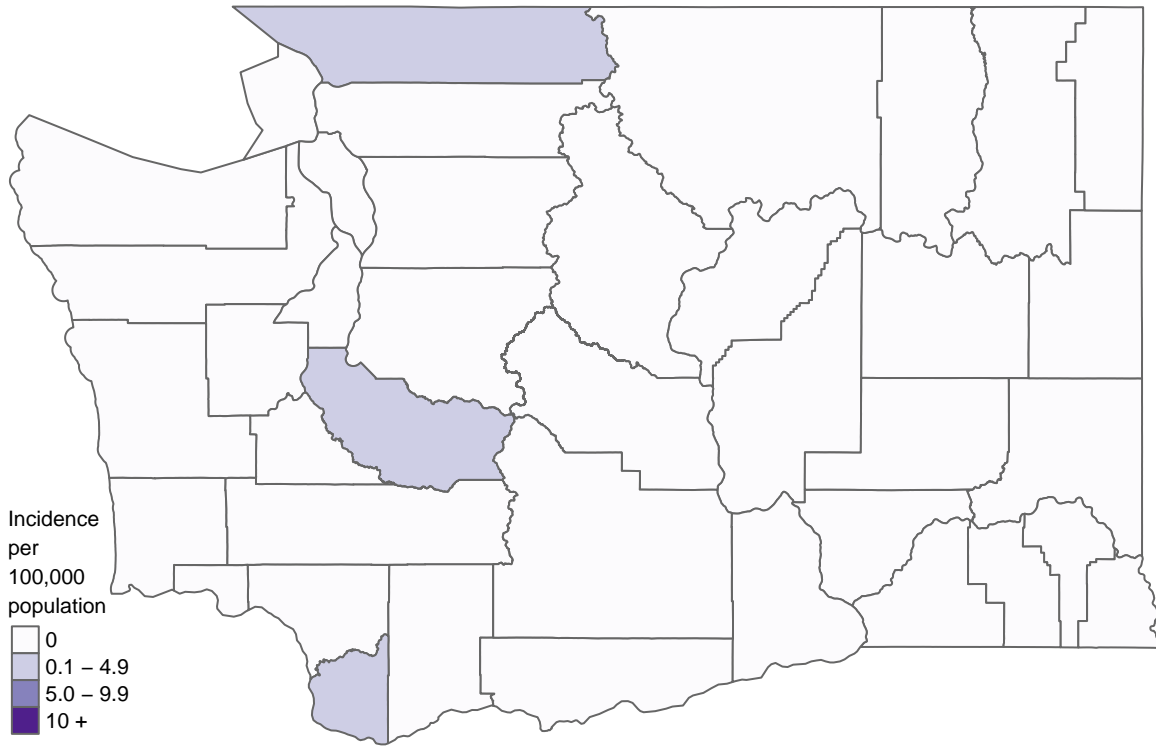
Table 2: WA State Pertussis Cases by County, 2022 weeks 1 - 37

County	Number of Cases	OFM 2020 Population	Rate per 100,000 persons
Spokane	14	522,602	2.7
King	7	2,260,801	0.3
Clark	5	499,193	1.0
Pierce	3	900,697	0.3
Whatcom	2	228,002	0.9
Benton	1	205,699	0.5
Kitsap	1	272,197	0.4
Thurston	1	291,001	0.3

Among 8 counties with reported pertussis activity so far in 2022, the number of pertussis cases in a given county ranges from 1 to 14 and county-level YTD incidence rates range from 0.3 to 2.7 per 100,000 persons (see Table 2).

- The median and mean county-level year-to-date incidence rates in counties reporting pertussis activity are 0.5 and 0.8 per 100,000 persons, respectively.
- 31 counties have reported no pertussis cases as of CDC week 37 of this year.

Figure 3: Twelve-Week Pertussis Incidence Rates by County, 2022 weeks 25 - 37



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