

# Weekly pertussis update for Washington State

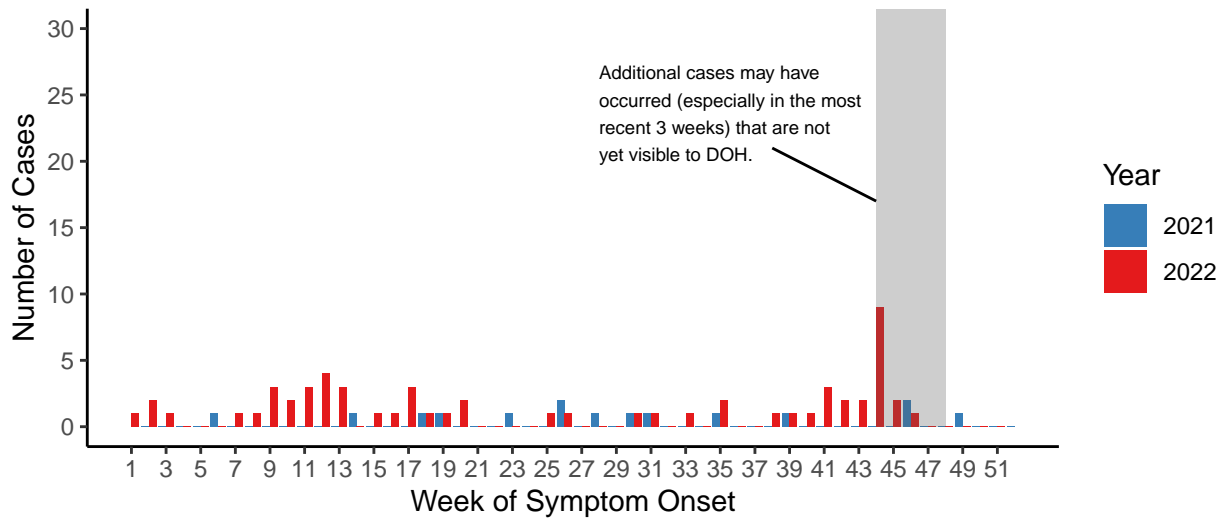
Washington State Department of Health

## 2022 year-to-date (YTD) confirmed and probable cases reported through 11/26/2022 (week 47).

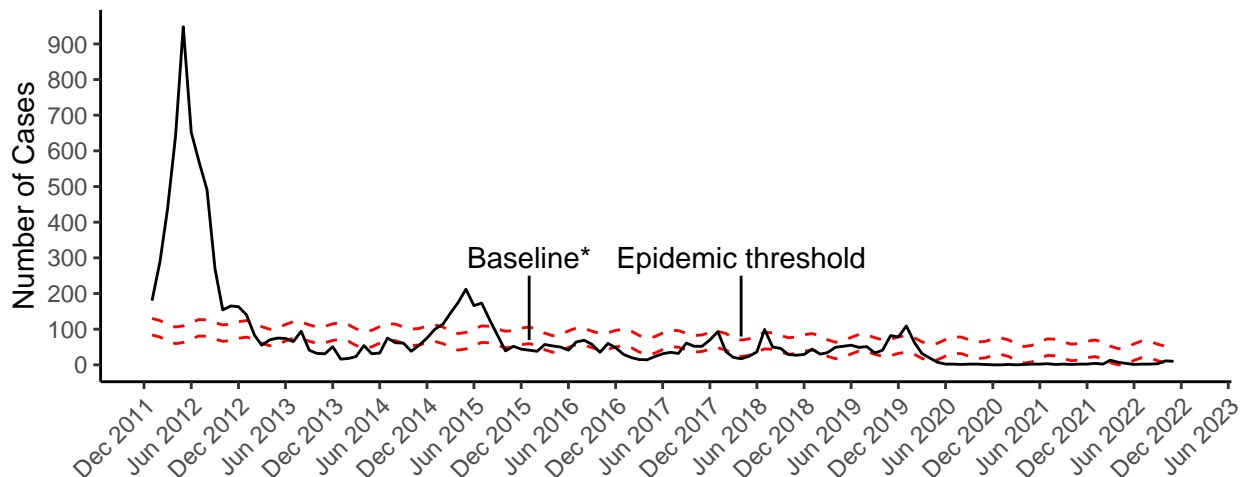
This update summarizes all reports of pertussis in persons with illness onset dates during CDC weeks 1 - 47. The included reports were received by local health jurisdictions (LHJs) and made visible to Washington State Department of Health (DOH) – Communicable Disease Epidemiology, and contained sufficient information for a case classification to have been assigned.

There have been a total of 59 cases reported statewide so far in 2022, compared to 14 cases reported by week 47 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 - 47

Age Group	OFM 2020 Population	Number of Cases	Rate per 100,000 persons	% of cases by age group*
< 1	89,038	6	6.7	10
1 - 4	360,093	14	3.9	24
5 - 9	481,675	18	3.7	31
10 - 13	390,105	5	1.3	8
14 - 18	468,897	0	0.0	0
19 - 24	593,072	5	0.8	8
25 - 44	2,086,393	6	0.3	10
45 - 64	1,905,515	4	0.2	7
65+	1,281,417	1	0.1	2
All ages	7,656,205	59	0.8	100

\*Due to rounding, percentages may not add up to 100%

The overall year-to-date incidence rate is 0.8 pertussis cases per 100,000 Washington residents from weeks 1 through 47, with an incidence rate among infants under one year of age of 6.7 cases per 100,000 (see Table 1).

Of 6 infants under one year of age reported as pertussis cases, 5 were old enough on their dates of onset to have received a first dose of pertussis-containing vaccine, and 4 (80%) had received at least one dose. None have been hospitalized.

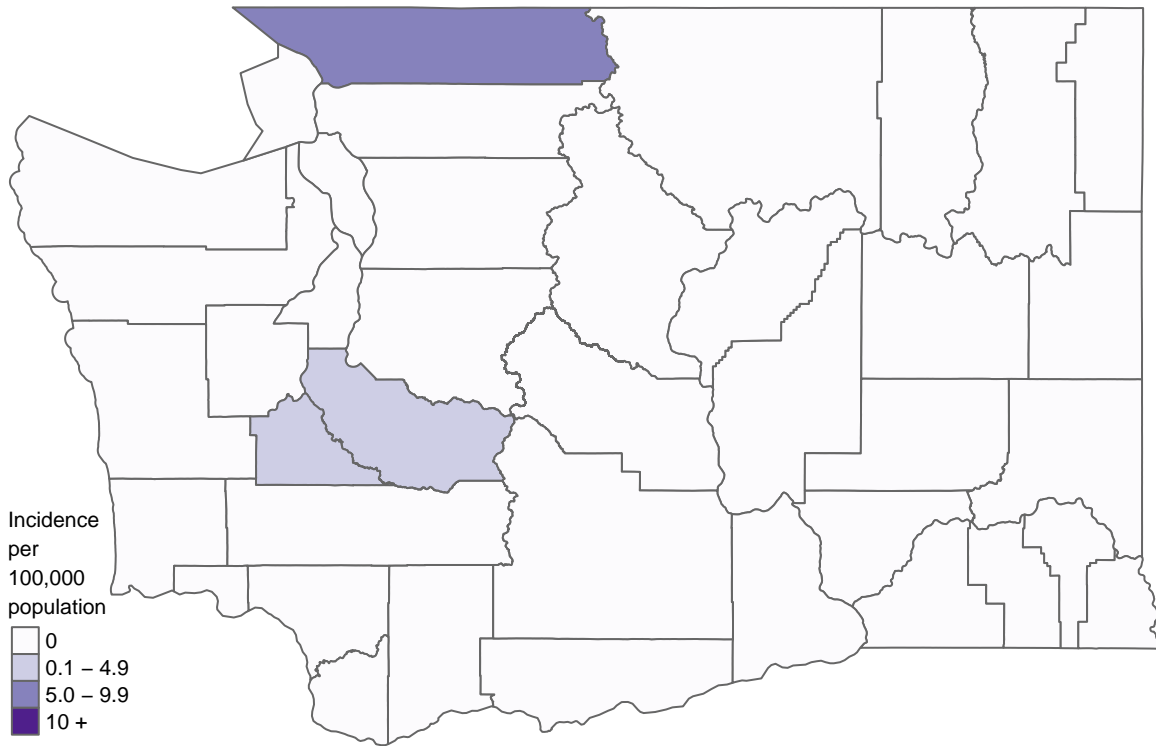
**Table 2:** WA State Pertussis Cases by County, 2022 weeks 1 - 47

County	Number of Cases	OFM 2020 Population	Rate per 100,000 persons
Whatcom	23	228,002	10.1
Spokane	14	522,602	2.7
King	7	2,260,801	0.3
Clark	5	499,193	1.0
Pierce	5	900,697	0.6
Thurston	2	291,001	0.7
Benton	1	205,699	0.5
Kitsap	1	272,197	0.4
Okanogan	1	43,135	2.3

Among 9 counties with reported pertussis activity so far in 2022, the number of pertussis cases in a given county ranges from 1 to 23 and county-level YTD incidence rates range from 0.3 to 10.1 per 100,000 persons (see Table 2).

- The median and mean county-level year-to-date incidence rates in counties reporting pertussis activity are 0.7 and 2.1 per 100,000 persons, respectively.
- 30 counties have reported no pertussis cases as of CDC week 47 of this year.

Figure 3: Twelve-Week Pertussis Incidence Rates by County, 2022 weeks 35 - 47



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