

# Final 2020 Pertussis Summary for Washington State

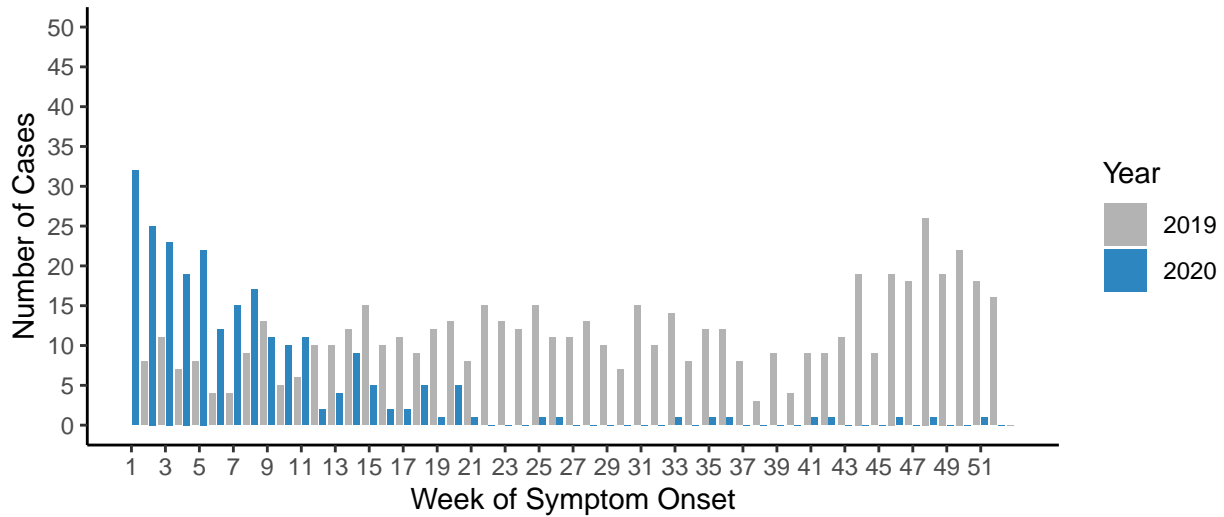
Washington State Department of Health

Final 2020 confirmed and probable case counts

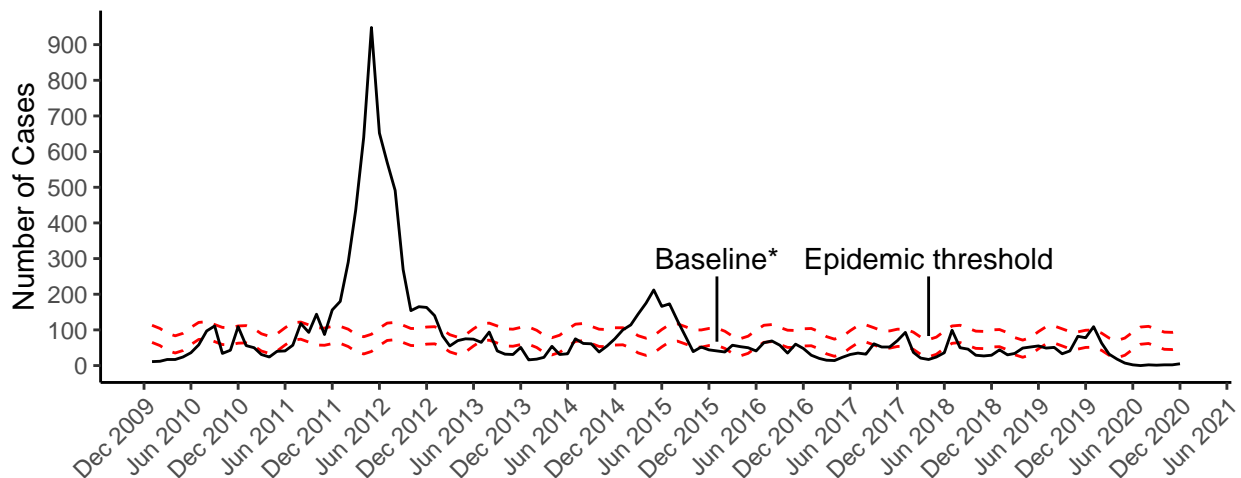
This update summarizes all reports of pertussis in persons with 2020 onsets received by local health jurisdictions (LHJs) made visible to Washington State Department of Health (DOH) – Communicable Disease Epidemiology, and containing sufficient information for a case classification to have been assigned.

There were a total of 243 cases reported statewide during 2020, compared to 598 cases reported in 2019. Dates for the 2020/2019 comparison were based primarily on symptom onset dates.

**Figure 1:** Number of Pertussis Cases Reported in Washington State by Week of Symptom Onset: 2019 vs 2020



**Figure 2:** WA State Pertussis Cases Reported by Month and Year with Projected Baseline and Epidemic Thresholds, 2010-2019 and 2020



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

- Among 22 counties with reported pertussis activity in 2020, the number of pertussis cases reported in a given county ranged from 1 to 90 and county-level YTD incidence rates ranged from 1.2 to 17.2 per 100,000 persons (see Table 1).
  - The median and mean county-level annual incidence rates in counties reporting pertussis activity were 3 and 4.6 per 100,000 persons, respectively.
- 17 counties reported no pertussis cases this year.

The overall annual incidence rate was 3.2 pertussis cases per 100,000 Washington residents, with an incidence rate among infants under one year of age of 15.7 cases per 100,000 (see Table 2).

Of 14 infants under one year of age reported as pertussis cases, 1 was hospitalized. 13 of these infants were old enough at the time they became ill to have received a first dose of pertussis-containing vaccine, and 4 (31%) had received at least one dose.

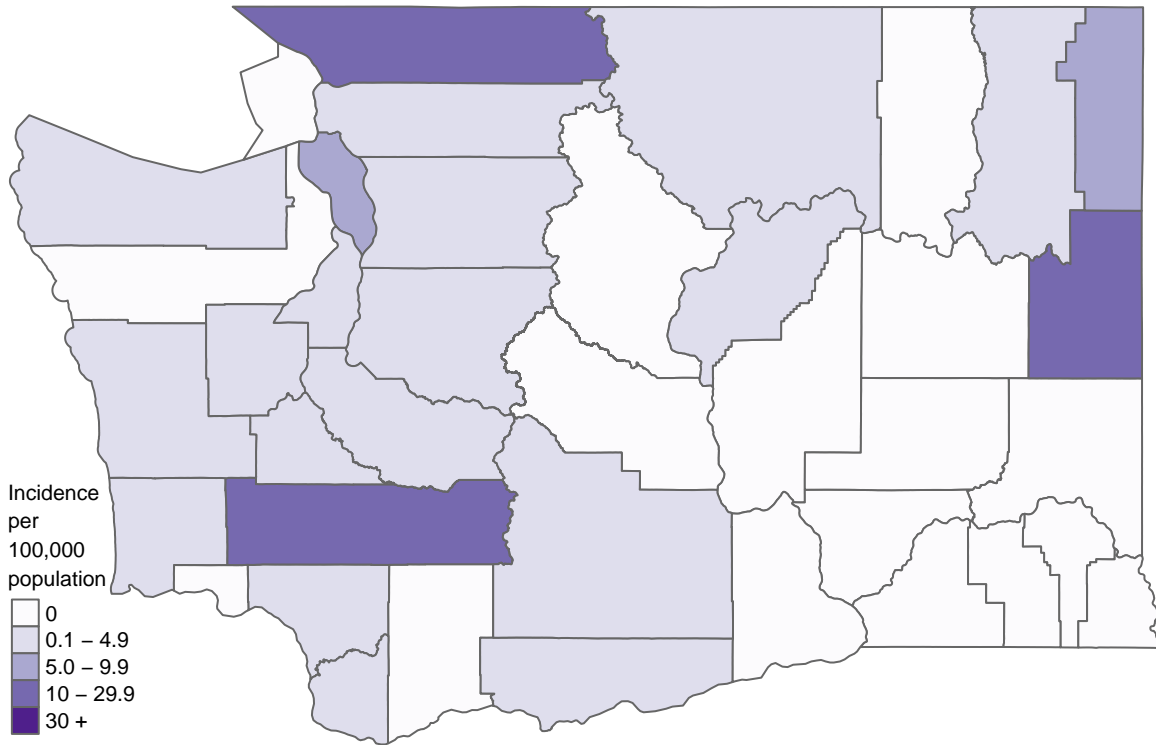
**Table 1:** WA State Pertussis Cases by County, 2020 Final

County	Number of Cases	OFM 2020 Population	Rate per 100,000 persons
Spokane	90	522,602	17.2
King	29	2,260,801	1.3
Whatcom	25	228,002	11.0
Pierce	18	900,697	2.0
Clark	16	499,193	3.2
Lewis	13	80,245	16.2
Thurston	11	291,001	3.8
Snohomish	10	830,503	1.2
Island	6	85,529	7.0
Kitsap	5	272,197	1.8
Cowlitz	3	110,501	2.7
Grays Harbor	3	74,721	4.0
Yakima	3	258,201	1.2
Okanogan	2	43,135	4.6
Skagit	2	130,453	1.5
Clallam	1	76,769	1.3
Douglas	1	43,743	2.3
Klickitat	1	22,776	4.4
Mason	1	65,654	1.5
Pacific	1	21,839	4.6
Pend Oreille	1	13,848	7.2
Stevens	1	45,922	2.2

**Table 2:** WA State Pertussis Cases by Age Group, 2020 Final

Age Group	OFM 2020 Population	Number of Cases	Rate per 100,000 persons	% of cases by age group
< 1	89,038	14	15.7	6
1 - 4	360,093	48	13.3	20
5 - 9	481,675	44	9.1	18
10 - 13	390,105	32	8.2	13
14 - 18	468,897	61	13.0	25
19 - 24	593,072	13	2.2	5
25 - 44	2,086,393	12	0.6	5
45 - 64	1,905,515	12	0.6	5
65+	1,281,417	7	0.5	3
All ages	7,656,205	243	3.2	

**Figure 3:** Annual Pertussis Incidence Rates by County, 2020



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