

Final 2019 Pertussis Summary for Washington State

Washington State Department of Health

Final 2019 confirmed and probable case counts

This update summarizes all reports of pertussis in persons with 2019 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 598 cases reported statewide during 2019, compared to 631 cases reported in 2018. Dates for the 2019/2018 comparison were based primarily on symptom onset dates.

Figure 1: Number of Pertussis Cases Reported in Washington State by Week of Symptom Onset: 2018 vs 2019

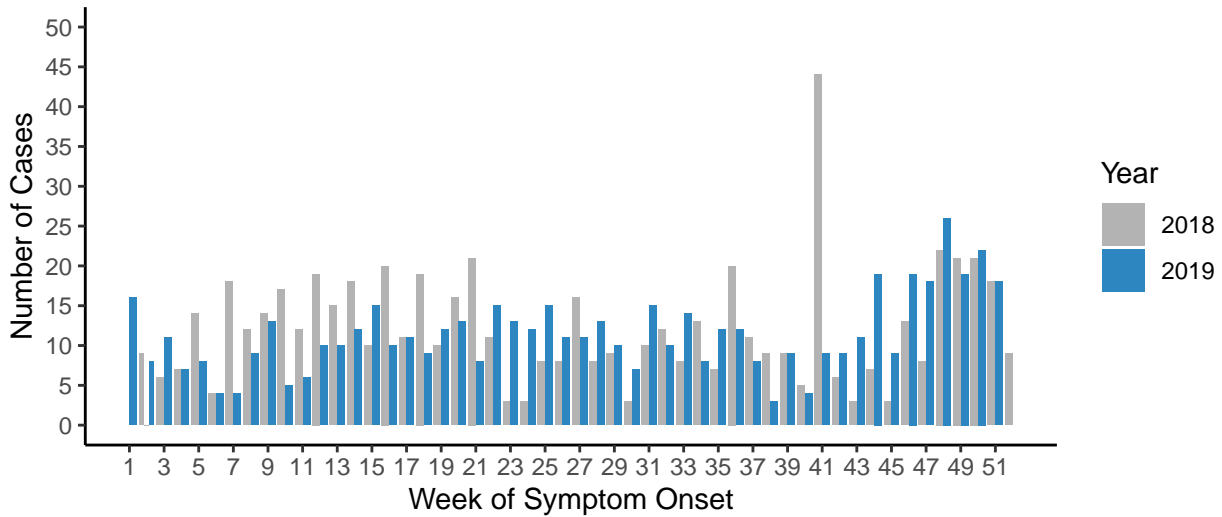
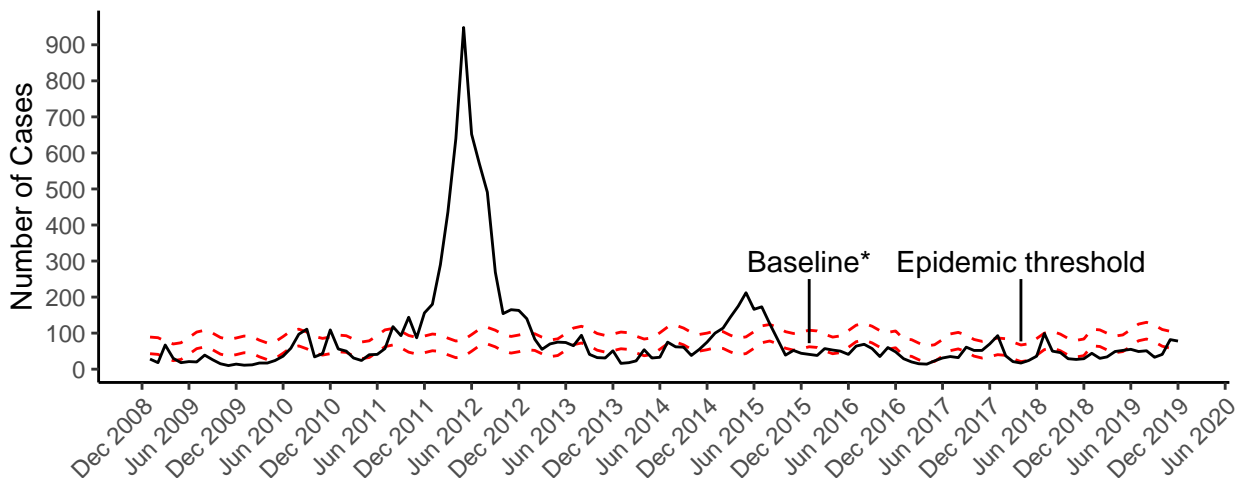


Figure 2: WA State Pertussis Cases Reported by Month and Year with Projected Baseline and Epidemic Thresholds, 2009-2018 and 2019



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

- Among 28 counties with reported pertussis activity in 2019, the number of pertussis cases reported in a given county ranged from 1 to 178 and county-level YTD incidence rates ranged from 1 to 89.4 per 100,000 persons (see Table 1).
 - The median and mean county-level annual incidence rates in counties reporting pertussis activity were 6.2 and 12.4 per 100,000 persons, respectively.
- 11 counties reported no pertussis cases this year.

The overall annual incidence rate was 7.9 pertussis cases per 100,000 Washington residents, with an incidence rate among infants under one year of age of 69 cases per 100,000 (see Table 2).

Of 62 infants under one year of age reported as pertussis cases, 10 were hospitalized. 54 of these infants were old enough at the time they became ill to have received a first dose of pertussis-containing vaccine, and 20 (37%) had received at least one dose.

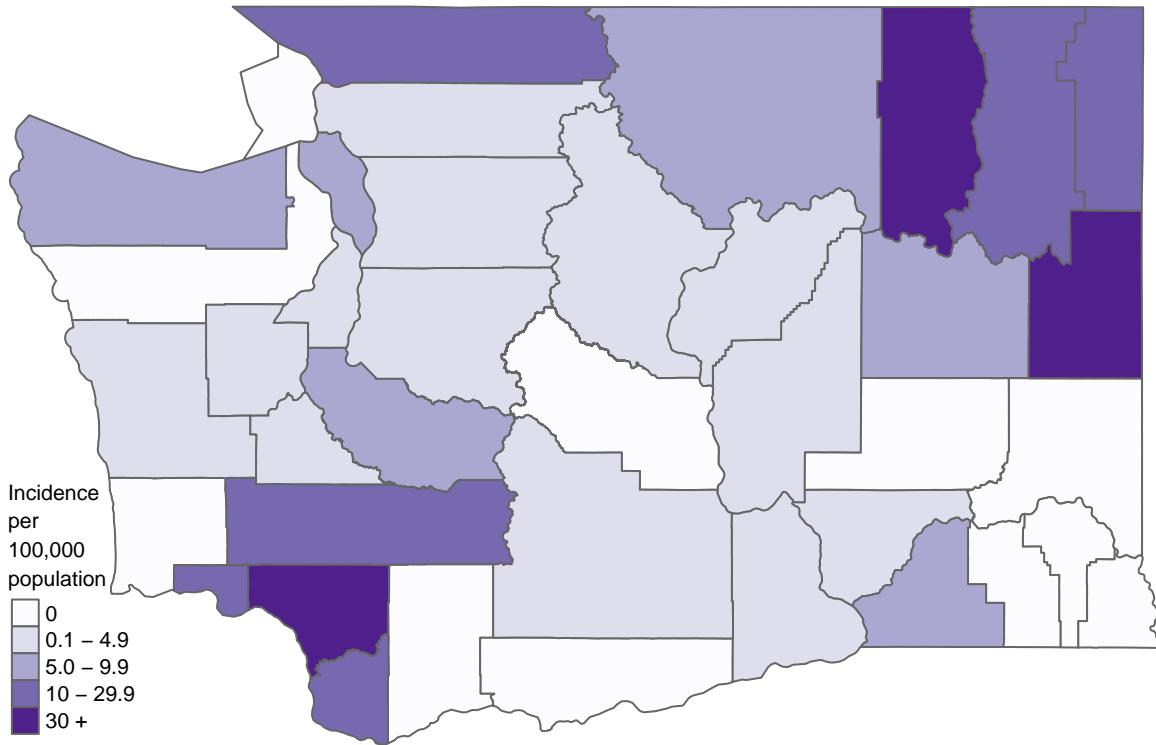
Table 1: WA State Pertussis Cases by County, 2019 Final

| County | Number of Cases | OFM 2019 Population | Rate per 100,000 persons |
|--------------|-----------------|---------------------|--------------------------|
| Spokane | 178 | 515,249 | 34.5 |
| Clark | 123 | 488,501 | 25.2 |
| Pierce | 66 | 888,302 | 7.4 |
| King | 54 | 2,226,298 | 2.4 |
| Cowlitz | 36 | 108,949 | 33.0 |
| Whatcom | 33 | 225,298 | 14.6 |
| Snohomish | 19 | 818,699 | 2.3 |
| Lewis | 16 | 79,486 | 20.1 |
| Thurston | 11 | 285,799 | 3.8 |
| Stevens | 9 | 45,571 | 19.7 |
| Ferry | 7 | 7,831 | 89.4 |
| Kitsap | 6 | 270,101 | 2.2 |
| Clallam | 5 | 76,010 | 6.6 |
| Island | 5 | 84,822 | 5.9 |
| Okanogan | 4 | 42,731 | 9.4 |
| Walla Walla | 4 | 62,195 | 6.4 |
| Yakima | 4 | 255,953 | 1.6 |
| Chelan | 3 | 78,417 | 3.8 |
| Benton | 2 | 201,800 | 1.0 |
| Grant | 2 | 98,742 | 2.0 |
| Mason | 2 | 64,980 | 3.1 |
| Pend Oreille | 2 | 13,733 | 14.6 |
| Skagit | 2 | 129,197 | 1.5 |
| Douglas | 1 | 42,819 | 2.3 |
| Franklin | 1 | 94,676 | 1.1 |
| Grays Harbor | 1 | 74,162 | 1.3 |
| Lincoln | 1 | 10,962 | 9.1 |
| Wahkiakum | 1 | 4,188 | 23.9 |

Table 2: WA State Pertussis Cases by Age Group, 2019 Final

| Age Group | OFM 2019 Population | Number of Cases | Rate per 100,000 persons | % of cases by age group |
|-----------|---------------------|-----------------|--------------------------|-------------------------|
| < 1 | 89,813 | 62 | 69.0 | 10 |
| 1 - 4 | 363,190 | 120 | 33.0 | 20 |
| 5 - 9 | 475,584 | 104 | 21.9 | 17 |
| 10 - 13 | 383,771 | 96 | 25.0 | 16 |
| 14 - 18 | 463,700 | 120 | 25.9 | 20 |
| 19 - 24 | 588,211 | 21 | 3.6 | 4 |
| 25 - 44 | 2,048,709 | 38 | 1.9 | 6 |
| 45 - 64 | 1,906,663 | 20 | 1.0 | 3 |
| 65+ | 1,226,771 | 17 | 1.4 | 3 |
| All ages | 7,546,412 | 598 | 7.9 | |

Figure 3: Annual Pertussis Incidence Rates by County, 2019



NOTE: For people with disabilities, this document is available on request in other formats. To submit a request, please call 1-800-525-0127 (TDD/TTY call 711).