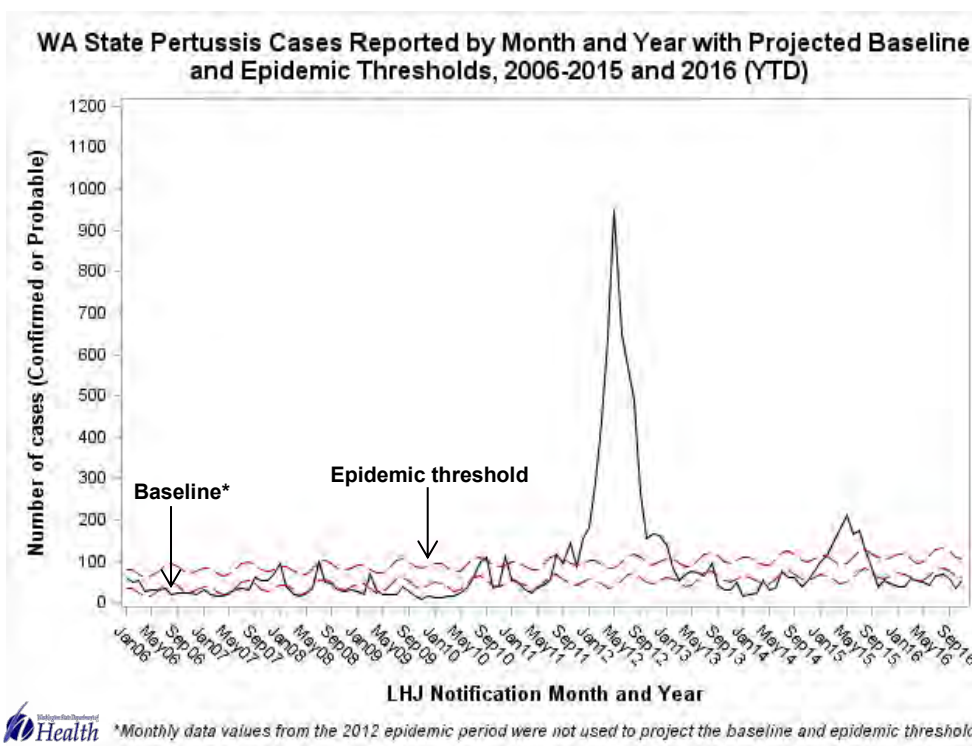
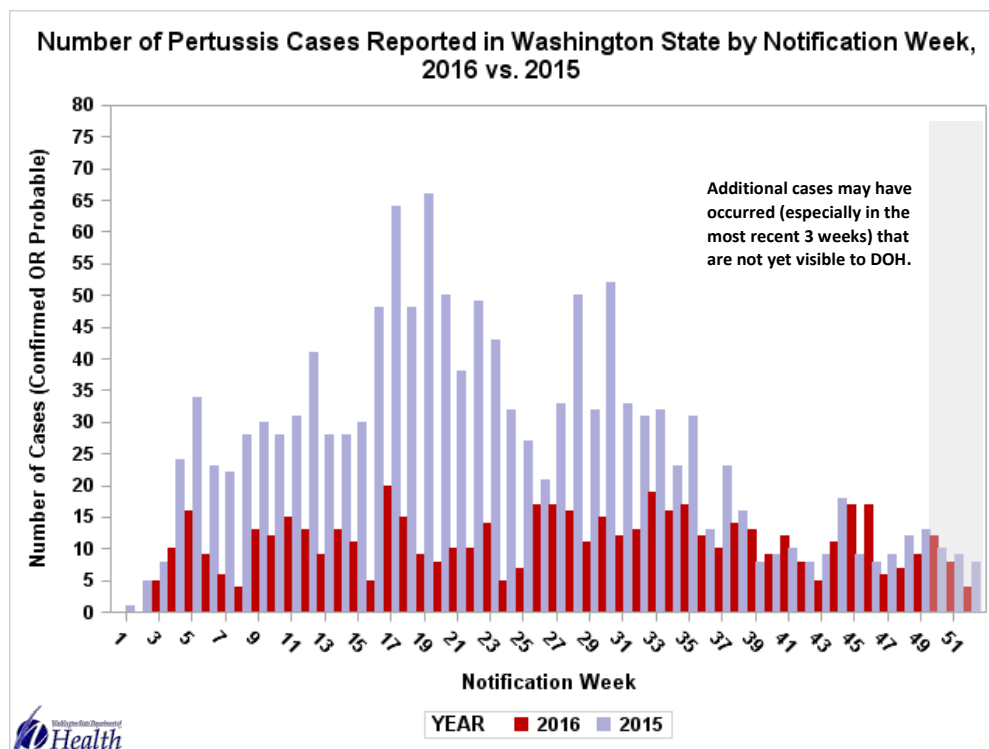


Weekly pertussis update for Washington State

2016 year to date (YTD) confirmed and probable cases reported through 12/31/2016 (week 52)

This update summarizes reports of pertussis in persons with 2016 onsets received by local health jurisdictions (LHJs) during weeks 1-52, made visible to Washington State Department of Health (DOH) - Communicable Disease Epidemiology, and containing sufficient information for a DOH case classification to have been assigned.

- There have been a total 566 cases reported statewide through week 52, compared to 1,356 reported cases in 2015 during the same time period. Dates for the 2016/2015 comparison were based on LHJ notification date.



- Thirteen counties have reported no pertussis in 2016.
- Among the twenty-six counties with pertussis activity, the number of pertussis cases reported in a given county ranged from 1 to 102, and the year to date rate of disease in a given county ranged from 1.2 to 42.1 per 100,000 persons (see Table 1).
 - The median and mean county rates per 100,000 persons in counties reporting pertussis activity are 7.2 and 9.7, respectively.
- The overall incidence year to date is 8.0 pertussis cases per 100,000 Washington residents with a rate in infants under one year of age of 55.7 per 100,000 (see Table 2). Forty-nine infants under one year of age were reported as having whooping cough and eight were hospitalized. Seven of the hospitalized infants (88%) were three months of age or younger.

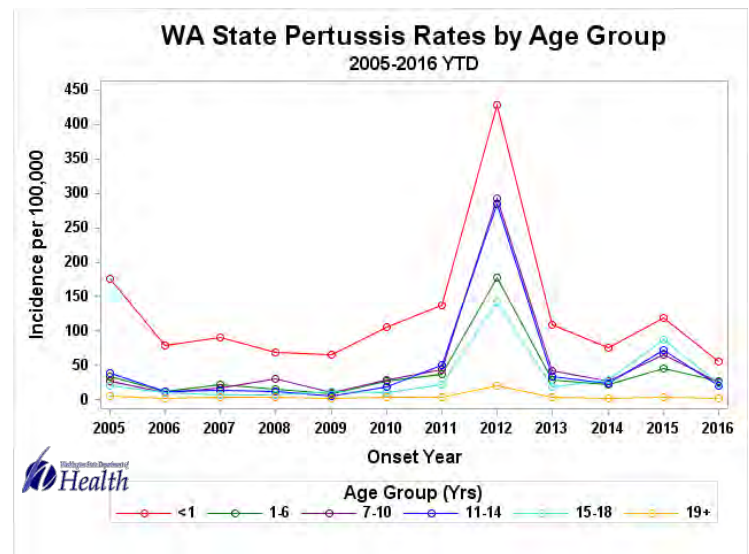
Table 1. WA State pertussis cases by county, 2016 YTD

| County | 2015 OFM Population | Number of cases | Rate per 100,000 persons |
|--------------|---------------------|-----------------|--------------------------|
| Asotin | 22,010 | 1 | 4.5 |
| Benton | 188,590 | 6 | 3.2 |
| Chelan | 75,030 | 1 | 1.3 |
| Clallam | 72,650 | 12 | 16.5 |
| Clark | 451,820 | 56 | 12.4 |
| Cowlitz | 104,280 | 19 | 18.2 |
| Franklin | 87,150 | 1 | 1.2 |
| Grant | 93,930 | 4 | 4.3 |
| Grays Harbor | 73,110 | 9 | 12.3 |
| Island | 80,600 | 4 | 5.0 |
| Jefferson | 30,880 | 13 | 42.1 |
| King | 2,052,800 | 102 | 5.0 |
| Kitsap | 258,200 | 13 | 5.0 |
| Kittitas | 42,670 | 8 | 18.8 |
| Lewis | 76,660 | 2 | 2.6 |
| Mason | 62,200 | 1 | 1.6 |
| Pierce | 830,120 | 83 | 10.0 |
| San Juan | 16,180 | 2 | 12.4 |
| Skagit | 120,620 | 9 | 7.5 |
| Snohomish | 757,600 | 75 | 9.9 |
| Spokane | 488,310 | 66 | 13.5 |
| Stevens | 44,030 | 3 | 6.8 |
| Thurston | 267,410 | 23 | 8.6 |
| Whatcom | 209,790 | 47 | 22.4 |
| Whitman | 47,250 | 2 | 4.2 |
| Yakima | 249,970 | 4 | 1.6 |

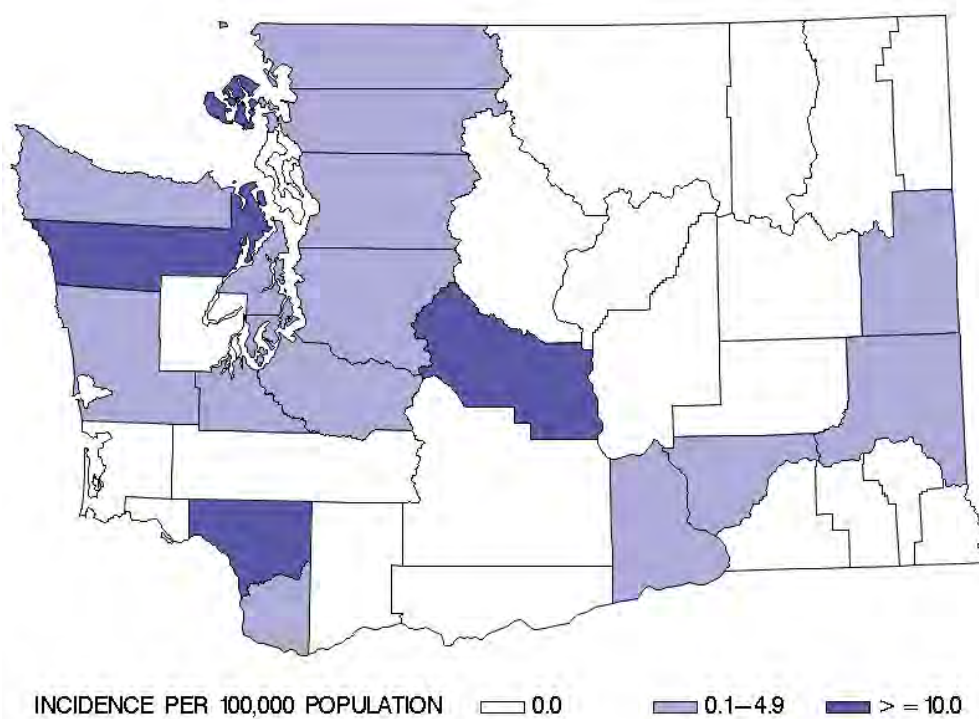
Note. Counties with no reported cases classified as confirmed or probable, 2016: Adams, Columbia, Douglas, Ferry, Garfield, Klickitat, Lincoln, Okanogan, Pacific, Pend Oreille, Skamania, Wahkiakum, and Walla Walla.

Table 2. WA State pertussis cases by age group, 2016 YTD

| Age Group (years) | 2015 OFM Population | Number of Cases | Rate per 100,000 persons | % cases by age group |
|-------------------|---------------------|-----------------|--------------------------|----------------------|
| <1 | 87,950 | 49 | 55.7 | 8.7 |
| 1-4 | 352,381 | 113 | 32.1 | 20.0 |
| 5-9 | 453,189 | 95 | 21.0 | 16.8 |
| 10-13 | 351,139 | 77 | 21.9 | 13.6 |
| 14-18 | 447,502 | 107 | 23.9 | 18.9 |
| 19-24 | 571,239 | 23 | 4.0 | 4.1 |
| 25-44 | 1,891,305 | 52 | 2.8 | 9.2 |
| 45-64 | 1,879,041 | 38 | 2.0 | 6.7 |
| 65+ | 1,027,664 | 12 | 1.2 | 2.1 |
| All ages | 7,061,410 | 566 | 8.0 | . |



Recent Pertussis Incidence by County (September 2016 – November 2016 Notifications)



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