

2013 Pertussis Surveillance Report, HSR 2/3

2013 Pertussis Cases and Incidence Rates, by County

County	No. of Cases	Incidence Rate (per 100,000)	Incidence Rate 95% Confidence Interval
Baylor*	1	26.7	0.7, 148.7
Brown*	17	43.8	25.5, 70.2
Callahan*	2	14.2	1.7, 51.4
Coleman*	1	11.0	0.3, 61.5
Collin	204	23.2	20.1, 26.6
Cooke*	7	17.8	7.1, 36.6
Dallas	406	16.6	15.0, 18.3
Denton	320	43.3	38.7, 48.4
Eastland*	11	58.1	29.0, 104.0
Ellis	26	15.9	10.4, 23.2
Erath	32	82.0	56.1, 115.7
Fannin*	3	8.6	1.8, 25.0
Grayson*	3	2.4	0.5, 7.0
Hood*	12	22.2	11.5, 38.7
Hunt*	8	8.8	3.8, 17.3
Johnson	37	23.0	16.2, 31.7
Jones*	6	29.0	10.6, 62.9
Kaufman	20	17.2	10.5, 26.6
Mitchell*	10	104.3	50.0, 191.7
Montague*	6	29.8	10.9, 64.8
Navarro*	1	2.0	0.1, 11.2
Nolan*	4	25.8	7.0, 65.9
Palo Pinto*	4	13.7	3.7, 35.2
Parker	41	31.9	22.9, 43.2
Rockwall*	15	16.8	9.4, 27.6
Runnels*	1	9.4	0.2, 52.4
Scurry*	11	63.0	31.4, 112.6
Tarrant	700	36.9	34.2, 39.7
Taylor*	4	3.0	0.8, 7.6
Wichita*	2	1.5	0.2, 5.5
Wilbarger*	1	7.2	0.2, 40.2
Wise*	11	17.3	8.7, 31.0
TOTAL	1,927	25.0	23.9, 26.1

* Incident Rates in counties with less than 20 cases are considered unstable.
Counties with no reported cases are not listed.

Population data retrieved from the DSHS Center for Health Statistics. Counts include confirmed and probable cases in [HSR 2 & 3 \(49 county region\)](#) reported to the Texas Dept. of State Health Services via NEDSS (National Electronic Disease Surveillance System).

Questions or comments? Please contact Heidi Threadgill, DSHS HSR 2/3 Epidemiologist II (Heidi.Threadgill@dshs.state.tx.us; 817-264-4550)

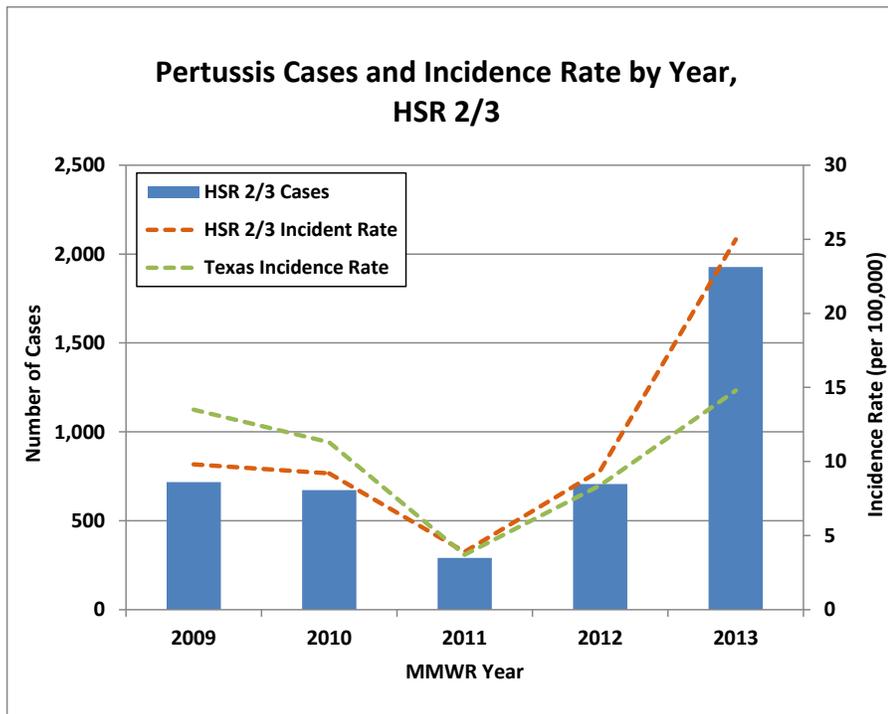
SUMMARY

- 1,927 confirmed and probable cases of pertussis including one death and 147 hospitalizations were reported, an increase in reported cases of 166% compared to 2012 and the highest incidence rate in the last four years.
- Since 2011, the pertussis incidence rate in HSR 2/3 has exceeded the incidence rate in Texas. In 2013, the incidence rate in HSR 2/3 exceeded the state incidence rate by 51%.
- Tarrant County reported the majority (36%) of the cases followed by Dallas (21%), Denton (17%), and Collin (11%). Of these counties, Denton county reported the highest incidence rate (43 per 100,000 population).
- A significantly higher percentage of cases were female (53.4%) vs. male (46.6%).
- Case counts were highest in children ages 5 to 14 years; however, the incident rate was highest amongst children less than one year of age.
- Post exposure prophylaxis was recommended for an average of 3 contacts per case.
- 34% of cases under 1 year of age were not vaccinated due to age at cough onset (age ≤ 2 months).⁺⁺
- 70% of cases 19-47 months of age at cough onset reported ≥ 4 doses of diphtheria, tetanus, and pertussis vaccine (DTaP)^{**}
- 11% of cases 1-4 years of age were not vaccinated according to current recommendations due to voluntary exemption while 1% of cases 5-9 years of age were not vaccinated according to current recommendations due to voluntary exemption.[§]

⁺⁺ Vaccination data available for 87% of reported cases in indicated age group.

[§] Vaccination data available for 70% of reported cases in indicated age group.

^{**} Vaccination data available for 74% of reported cases in indicated age group.



2013 Pertussis Cases, by Age

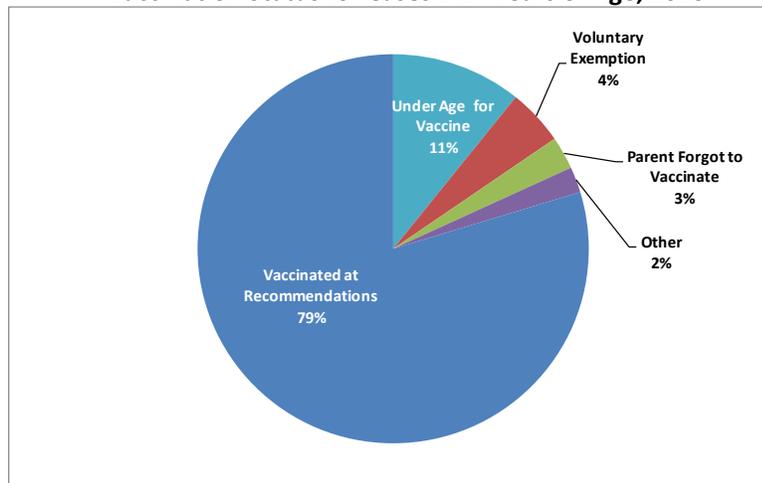
Age Groups	No. of Cases	% of Cases	Incidence Rate per 100,000
< 1 year	326	16.9	282.0
1 - 4 years	305	15.8	68.1
5 to 9 years	428	22.2	73.4
10 to 14 years	424	22.0	72.0
15 to 19 years	135	7.0	24.2
20+ years	309	16.1	5.7
Total	1,927	100	25.0

2013 Pertussis Cases, By Race/Ethnicity*

Race/Ethnicity	No. of Cases	% of Cases	Incidence Rate per 100,000
White	951	49.4	24.3
Black/African American	146	7.6	13.7
Hispanic or Latino	615	31.9	28.5
Other	44	2.2	7.6
Unknown	171	8.9	N/A

*Race/Ethnicity data available for 1,756 cases (90%)

Vaccination Status for Cases ≤ 14 Years of Age, 2013*



*Vaccination data available for 1,030 cases ≤ 14 years of age (70% of cases). "Other" includes medical contraindication, born outside of U.S., and vaccine not offered. "Vaccinated at recommendations" includes children vaccinated per the recommendations of the Advisory Committee for Immunizations Practice (ACIP) by age at cough onset.