

# Tuberculosis Surveillance Update — Montana, 2017

This report reflects confirmed tuberculosis cases reported to the Montana Department of Public Health and Human Services (DPHHS) in 2017. This report was prepared by the Tuberculosis Program. Contact Ryan Weight at 406-444-0273 or ryan.weight@mt.gov with questions.

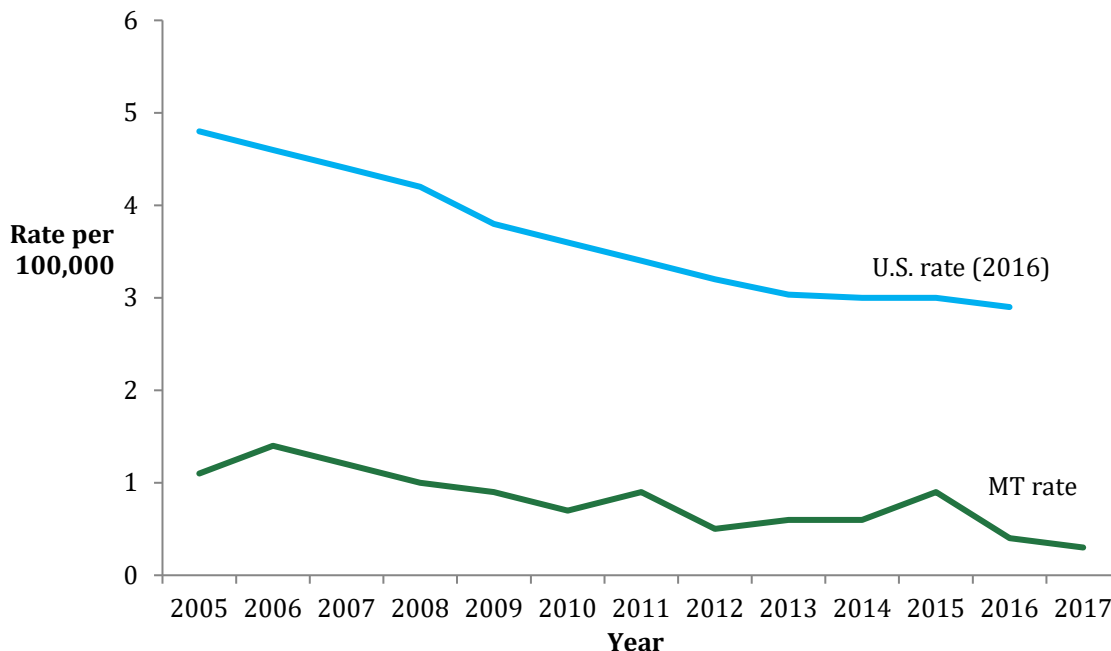
## **TB Surveillance Update** (Table)

- Three patients with new, active tuberculosis were reported in Montana in 2017, a historical low for the second year in a row since TB disease surveillance began in 1920
- All patients had pulmonary/pleural disease
- None of the patients had drug-resistant TB
- Counties of residence for the TB cases included Fergus, Cascade, and Liberty
- Patient risk factors included: taking immunosuppressing treatment (not HIV/AIDS), military service overseas, and contact with an infectious TB infected individual
- All patients were U.S. born

## **TB Trends** (Figures 1 and 2)

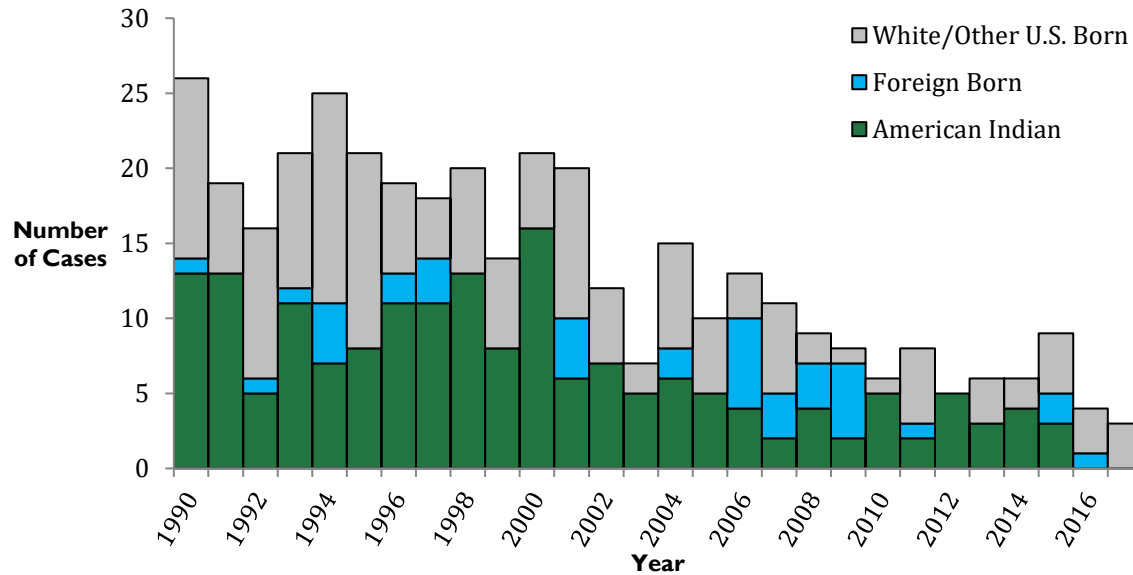
- Incidence rates of TB in Montana and the United States have been decreasing; the 2017 MT rate (0.3 cases per 100,000 population) was 10x lower than the 2016 U.S. rate (2.9 cases per 100,000 population; 2017 U.S. rate was unavailable at the time of this report)
- During the 1990s, an average of 20 cases per year, approximately 2.4 cases per 100,000 population, were reported in Montana (range: 26 cases in 1990 to 14 cases in 1999)
- During 2000–2017, an average of 9.6 cases per year, approximately 1 case per 100,000 population, were reported (range: 21 cases in 2000 to 3 cases in 2017); during the most recent five-year period (2013–2017) an average of 5.6 cases per year, or 0.56 cases per 100,000 population, were reported in Montana
- TB cases among American Indians have declined from an average of 10 cases per year in the 1990s to 4.4 cases per year from 2000–2017; during 2016 and 2017 there were no reported American Indian cases

**Figure 1.** Tuberculosis incidence rate — Montana, 2005-2017 and United States, 2005–2016



Data source: DPHHS Montana Infectious Disease Information System and Centers for Disease Control and Prevention

**Figure 2.** Reported tuberculosis cases — Montana, 1990–2017



Data source: DPHHS Montana Infectious Disease Information System

**Table.** Summary of reported tuberculosis cases — Montana, 2015 – 2017

Characteristics	2015	2016	2017
<b>TB Cases Diagnosed</b>	9	4	3
Montana, total (cases/100,000 pop.)	0.9	0.4	0.3
Non-Hispanic, American Indian (cases/100,000 pop.)	4.1	-	-
<b>Sex</b>			
Male	7	3	2
Female	2	1	1
<b>Age at Diagnosis (years)</b>			
<5	-	-	-
5–14	-	-	-
15–24	1	1	-
25–44	2	1	-
45–64	2	2	1
≥65	4	-	2
<b>Ethnicity, Race</b>			
Non-Hispanic, White	4	3	3
Non-Hispanic, American Indian	3	-	-
Non-Hispanic, Black	1	1	-
Non-Hispanic, Asian	1	-	-
<b>Site of Disease</b>			
Pulmonary/pleural	8	4	3
Extrapulmonary	1	-	-
Pulmonary and Extrapulmonary	-	-	-
<b>Drug Resistance</b>			
No resistance	5*	2*	3
Isoniazid resistance	2	-	-
Multiple-drug resistance	1	-	-
<b>Country of Origin</b>			
U.S.-born	7	3	3
Foreign-born	2	1	-

Data source: DPHHS Montana Infectious Disease Information System

\*One or more patients met the definition of a clinical case but were culture-negative so susceptibility testing could not be completed