3A.

NON-SEXUALLY TRANSMITTED DISEASES

The infectious diseases designated as notifiable vary slightly by state. A notifiable disease is one for which regular, frequent, and timely information regarding individual cases is considered necessary for the prevention and control of the disease. All states generally report the internationally quarantinable diseases (i.e., cholera or plague) in compliance with the World Health Organization’s International Health Regulations.

Data on morbidity, levels of disease, and disability in the Arizona population are obtained for certain infectious diseases that must be reported by law. The Bureau of Epidemiology and Disease Control Services conducts surveillance and monitoring of these reportable diseases and it provided data for the respective sections of this chapter and sections 5F, 6A, and 6B.

This section provides some illustrative findings from the tabulated data. It is not intended to be an exhaustive analysis of the incidence of infectious diseases in the State. There is more information available online on the website of the Office of Infectious Disease Services at http://www.azdhs.gov/phs/oids/data_reports.htm
3A. NON-SEXUALLY TRANSMITTED DISEASES

Coccidioidomycosis or Valley Fever is a fungal infection caused by inhalation of airborne spores that are present in the soil of southwestern United States, California, and parts of Central and South America. Most infections are asymptomatic or self-limited in patients with healthy immune systems. In rare instances, severe lung disease or disseminated infection can develop in patients.

Valley Fever imposed the greatest burden on morbidity among all non-sexually transmitted, notifiable diseases in Arizona in 2012. The reported incidence of Valley Fever decreased 21.6 percent from 2011 (n = 16,472) to 2012 (n = 12,920). The 2012 incidence rate of 198.8/100,000 (Figure 3A-1, Table 5F-2) was 3.5 times greater than the incidence rate of 57.0/100,000 in 2002.

The annual mortality rates associated with Coccidioidomycosis have steadily declined over the last decade. Twenty-five of the 12,920 Arizonans who had Valley Fever in 2012 died from it (Table 3A-2) for a case fatality rate of 0.2 deaths per 100 cases (Figure 3A-2). The 2012 case mortality rate for Coccidioidomycosis was 5.5 times lower in 2012 than in 2002.
3A. NON-SEXUALLY TRANSMITTED DISEASES

*Shigellosis* is an infectious disease caused by a group of bacteria called *Shigella* that can cause diarrhea in humans. To spread from one person to another, *Shigellae* can be transmitted through contaminated foods, sexual contact, and water used for drinking or recreational purposes.

From 2002 - 2012, *shigellosis* was the third most common enteric disease to afflict Arizonans after *campylobacteriosis* and *salmonellosis* (Table 3A-1).

The number of reported cases of *shigellosis* in 2012 was 444, similar to the number of cases observed in 2011 (n = 434). The incidence rate of *shigellosis* in 2012, 6.8 cases per 100,000, remained consistent with rates observed over the past two years (Figure 3A-3).

![Figure 3A-3](image)

**Figure 3A-3**
*Trends in the Incidence Rates* of Shigellosis by Year, Arizona, 2002-2012

Note: * Number of reported cases per 100,000 population.

*Salmonellosis* is a bacterial infection. Most of those who are infected with *Salmonella* develop diarrhea, fever, and abdominal cramps.

The incidence rate of *salmonellosis* decreased from 17.5 cases per 100,000 population in 2008 to 13.2/100,000 in 2012 (Figure 3A-4). The risk of *salmonellosis* was substantially higher in Graham (32.2/100,000), Santa Cruz (30.8/100,000), and Navajo (26.9/100,000) counties (Table 5F-2).

There were no Arizona residents who died from *salmonellosis* in 2012 (Table 3A-2).

![Figure 3A-4](image)

**Figure 3A-4**
*Trends in the Incidence Rates* of Salmonellosis by Year, Arizona, 2002-2012

Notes: * Number of reported cases per 100,000 population; * Excluding S. Typhi and S. Paratyphi.
Hepatitis A is a liver disease caused by the hepatitis A virus. During 1995-1996, highly effective hepatitis A vaccines became available in the United States. Routine childhood vaccination for hepatitis A was recommended in 1999. The expansion of recommendations for routine hepatitis A vaccination to include all children in the United States aged 12-23 months is likely to reduce hepatitis rates further.

In Arizona, the incidence rate of hepatitis A decreased by 75.0 percent from 5.6/100,000 in 2002 to 1.4/100,000 in 2012 (Figure 3A-5).

Tuberculosis (TB) is an infectious disease that usually attacks the lungs, but can attack almost any part of the body. Tuberculosis is spread from person to person through the air.

The number of reported cases of pulmonary tuberculosis decreased from 209 reported cases in 2011 to 186 reported cases in 2012. The number of reported cases of tuberculosis other than pulmonary decreased from 46 reported in 2011 to 25 in 2012 (Figure 3A-6, Table 3A-1). The incidence rate of total tuberculosis decreased from 4.0/100,000 in 2011 to 3.2/100,000 in 2012 (Table 5F-2).

Pulmonary tuberculosis accounted for 88.2 percent of all tuberculosis infections in 2012 (Table 3A-1). Five Arizonans who had tuberculosis died from it in 2012 (Table 3A-2).