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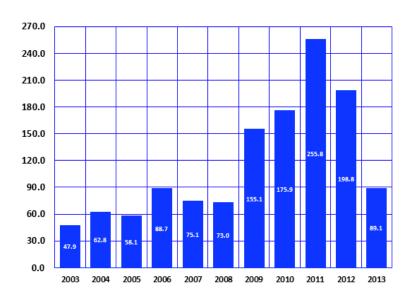
NON-SEXUALLY TRANSMITTED DISEASES

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

Figure 3A-1
Trends in the Incidence Rates^a of Valley Fever (Coccidioidomycosis)
by Year, Arizona, 2003-2013

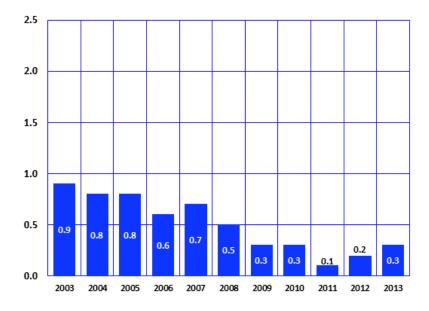


Coccidioidomycosis or Valley Fever is a fungal infection caused by inhalation of airborne spores that are present in the soil of southwestern United States, California, and parts of Central and South America. Most infections are asymptomatic or self-limited in patients with healthy immune systems. In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

Valley Fever imposed the greatest burden on morbidity among all nonsexually transmitted, notifiable diseases in Arizona in 2013. The reported incidence of Valley Fever decreased 54.6 percent from 2012 (n = 12,920) to 2013 (n = 5,861). The 2013 incidence rate of 89.1/100,000 (Figure 3A-1, Table 5F-2) was 86.0 percent greater than the incidence rate of 47.9/100,000 in 2003, but was 65.2 percent lower than the incidence rate of 255.8/100,000 in 2011.

Note: ^a Number of cases per 100,000 population.

Figure 3A-2
Trends in Case Fatality Rates for Valley Fever (Coccidioidomycosis) by Year, Arizona, 2003-2013



Nineteen of the 5,861 Arizonans who had *Valley Fever* in 2013 died from it (**Table 3A-2**) for a case fatality rate of 0.3 deaths per 100 cases (**Figure 3A-2**). The 2013 case mortality rate for Coccidioidomycosis was 66.6 percent lower in 2013 than in 2003.

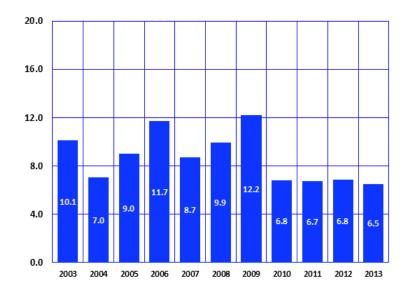
Note: ^a Number of deaths per 100 reported cases.

Figure 3A-3
Trends in the Incidence Rates of Shigellosis by Year,
Arizona, 2003-2013

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 2003 – 2013, *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 2013 was 428, similar to the number of cases observed in 2012 (n = 444). The incidence rate of *shigellosis* in 2013, 6.5 cases per 100,000, was fairly consistent with rates observed over the past three years (**Figure 3A-3**).



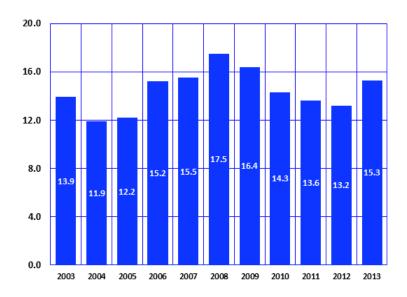
Note: a Number of reported cases per 100,000 population.

Figure 3A-4
Trends in the Incidence Rates^a of Salmonellosis^b by Year,
Arizona, 2003-2013

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

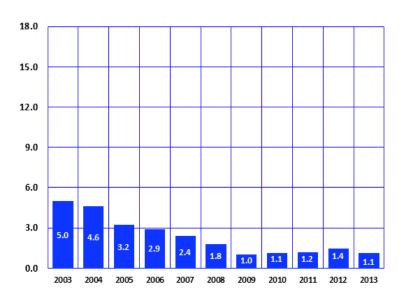
The incidence rate of salmonellosis increased 15.9 percent from 13.2/100,000 in 2012 to 15.3/100,000 in 2013 (**Figure 3A-4**). The risk of salmonellosis was substantially higher in Graham (42.2/100,000), Greenlee (36.7/100,000), and Apache (34.6/100,000) counties (**Table 5F-2**).

There were no Arizona residents who died from *salmonellosis* in 2013 (**Table 3A-2**).



Notes: ^a Number of reported cases per 100,000 population; ^b Excluding S. Typhi and S. Paratyphi.

Figure 3A-5
Trends in the Incidence Rates of Hepatitis A by Year,
Arizona, 2003-2013

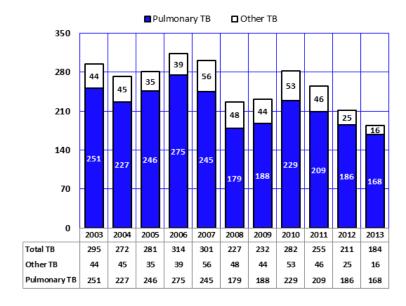


Hepatitis A is a liver disease caused by the hepatitis A virus. During 1995-1996, highly effective hepatitis A vaccines became available in the United States. Routine childhood vaccination for hepatitis A was recommended in 1999. The expansion of recommendations for routine hepatitis A vaccination to 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 78.0 percent from 5.0/100,000 in 2003 to 1.1/100,000 in 2013 (**Figure 3A-5**).

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

Figure 3A-6
Trends in the Incidence of Pulmonary Tuberculosis and Total Tuberculosis by Year,
Arizona, 2003-2013



Note: a Number of reported cases by year.

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 186 reported cases in 2012 to 168 cases in 2013. The number of reported cases of tuberculosis other than pulmonary decreased from 25 in 2012 to 16 in 2013 (**Figure 3A-6, Table 3A-1**). The incidence rate of *total* tuberculosis decreased 3.2/100,000 in 2012 to 2.8/100,000 in 2013 (**Table 5F-2**).

Pulmonary tuberculosis accounted for 85.1 percent of all tuberculosis infections in 2013 (**Table 3A-1**). Fifteen Arizonans who had tuberculosis died from it in 2013 (**Table 3A-2**).