

## Environmental | Public Health

2009 Update

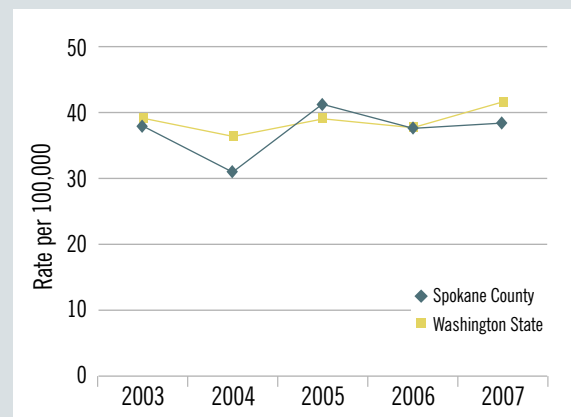
This indicator is 1 of 44 Spokane Counts indicators found at [www.srhd.org/SpokaneCounts](http://www.srhd.org/SpokaneCounts)

### Food and Waterborne Diseases

Diseases from food or water included in this indicator are the enteric diseases campylobacteriosis, E. coli, giardiasis, listeriosis, salmonellosis, and shigellosis. The disease rate is the number of reported cases per 100,000 individuals. Over time, environmental public health efforts have greatly reduced the occurrence of food and waterborne illness. In the U.S., enteric illnesses were the fourth leading cause of death 100 years ago,<sup>1</sup> but today they are not usually life threatening<sup>2</sup>. Still, many individuals contract food or waterborne illness each year. Preventing food and waterborne disease remains a major public health challenge<sup>3</sup>.

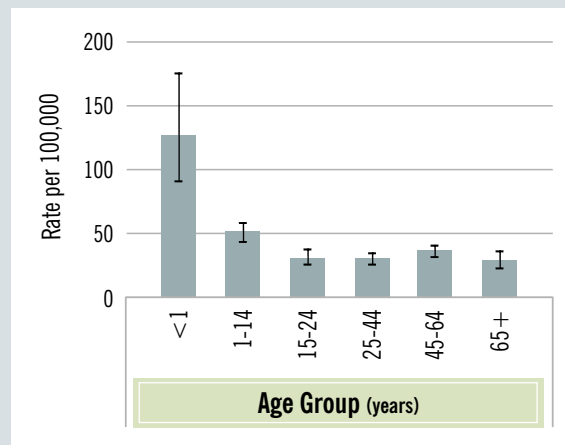
In Spokane County, there was no significant trend in the rate of food or waterborne diseases from 2003 to 2007. Rates of these illnesses are generally stable with the exception of outbreaks that occasionally occur. In 2005 there was an outbreak of shigellosis.<sup>4</sup> Spokane County had a significantly lower rate of food or waterborne illness than did Washington State in 2007.

### Food and Waterborne Diseases



Source: Spokane Regional Health District and Washington State Department of Health

### Demographic Disparities in Food and Waterborne Diseases, Spokane County, 2003-2007



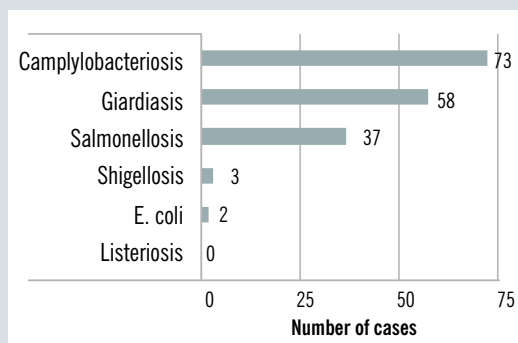
Source: Spokane Regional Health District

There was no difference in food and waterborne disease by sex.

### Among Spokane County residents in 2007:

- Food and waterborne disease decreased as age increased.

## Food and Waterborne Diseases Spokane County, 2007



Source: Spokane Regional Health District

The most common occurrence among food and waterborne disease was campylobacteriosis. This disease causes diarrhea, cramping, abdominal pain, and fever. Symptoms usually last about 1 week. Most cases are associated with raw or undercooked poultry.<sup>5</sup>

### Indicator: Food and Waterborne Diseases

Rate per 100,000

(95% Confidence Interval)

	2003	2004	2005	2006	2007	2003-2007	
<b>Total</b>	Spokane County	37.8 (32.4, 44.1)	30.8 (26.0, 36.5)	41.0 (35.4, 47.5)	37.4 (32.1, 43.5)	38.3 (33.0, 44.5)	37.1 (34.6, 39.7)
	Washington State	39.0 (37.5, 40.6)	36.3 (34.8, 37.9)	39.0 (37.5, 40.5)	37.6 (36.1, 39.1)	41.5 (40.0, 43.1)	38.7 (38.0, 39.4)
<b>Age Group (years)</b>	<1	55.1 (18.7, 161.8)	91.7 (39.2, 214.6)	91.1 (38.9, 213.1)	90.1 (38.5, 210.7)	299.5 (187.1, 479.1)	126.7 (91.1, 176.2)
	1-14	43.9 (31.7, 60.7)	42.8 (30.8, 59.5)	61.4 (46.6, 80.9)	57.4 (43.2, 76.3)	48.5 (35.6, 66.0)	50.8 (44.3, 58.2)
	15-24	39.1 (26.7, 57.4)	25.3 (15.8, 40.5)	30.8 (20.1, 47.1)	33.0 (22.0, 49.5)	26.8 (17.2, 41.9)	31.0 (25.6, 37.4)
	25-44	37.6 (28.0, 50.4)	24.9 (17.4, 35.8)	31.1 (22.5, 43.0)	29.2 (20.9, 40.8)	31.6 (22.9, 43.5)	30.9 (26.7, 35.7)
	45-64	38.5 (28.3, 52.4)	27.1 (18.9, 38.9)	41.7 (31.3, 55.6)	37.8 (28.0, 50.8)	35.8 (26.5, 48.4)	36.2 (31.5, 41.6)
	65+	24.3 (14.2, 41.5)	31.4 (19.6, 50.2)	34.5 (22.1, 53.9)	23.1 (13.5, 39.6)	31.2 (19.7, 49.3)	28.9 (23.2, 36.0)
<b>Sex</b>	Male	39.0 (31.4, 48.4)	26.9 (20.7, 34.8)	38.3 (30.8, 47.5)	42.2 (34.4, 51.8)	42.0 (34.3, 51.4)	37.7 (34.2, 41.6)
	Female	36.2 (29.1, 45.1)	33.6 (26.8, 42.2)	43.7 (35.8, 53.3)	32.8 (26.1, 41.1)	34.8 (28.0, 43.4)	36.2 (32.8, 39.9)

NOTE: National data not available.

Source: Washington State Department of Health



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1. Centers for Disease Control and Prevention. *Leading Causes of Death, 1900-1998*. [http://www.cdc.gov/nchs/data/dvs/lead1900\\_98.pdf](http://www.cdc.gov/nchs/data/dvs/lead1900_98.pdf). Accessed 09/12/07.

2. Spokane Regional Health District. *Leading Causes of Death, 2005*. February 2007. [http://www.srhd.org/downloads/info\\_pubs/factsheets/CausesofDeath2005.pdf](http://www.srhd.org/downloads/info_pubs/factsheets/CausesofDeath2005.pdf). Accessed 09/12/07.

3. Centers for Disease Control and Prevention. Food Safety Office. <http://www.cdc.gov/foodsafety/>. Accessed 09/12/07.

4. Spokane County Regional Health District. *Communicable Disease Report for 2001-2005*. December 2006.

5. Centers for Disease Control and Prevention. *Campylobacter Infections*. [http://www.cdc.gov/ncidod/dbmd/diseaseinfo/campylobacter\\_g.htm#top](http://www.cdc.gov/ncidod/dbmd/diseaseinfo/campylobacter_g.htm#top). Accessed 09/12/07.