

## SALMONELLOSIS

Salmonellosis is a bacterial enteric infection caused by serovars of the genus *Salmonella* that infect animals and humans. The disease is characterized by sudden onset of headache, abdominal pain, diarrhea, nausea, and vomiting. Infection is transmitted by ingestion of contaminated food or liquids, from person to person by the fecal-oral route, and by contact with infected animals or contaminated animal products. There are over 2,000 recognized serotypes/serovars of *Salmonella*.

### Laboratory Criteria for Confirmation:

- Isolation of *Salmonella* culture from a clinical sample.

### Case Classification

*Confirmed:* A case that is laboratory confirmed.

*Probable:* A clinically compatible case that is epidemiologically linked to a confirmed case.

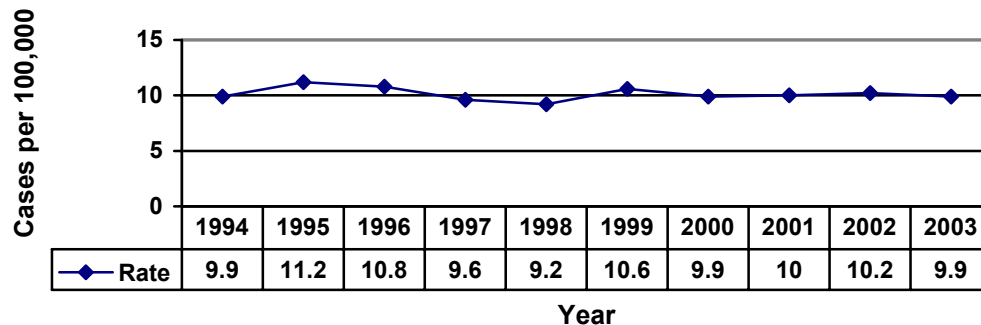
### Epidemiology

<b>Kentucky 2003</b>	<b>Rate per 100,000</b>	<b>U.S. Rate (2002) per 100,000</b>
Cases 404	9.9	15.73

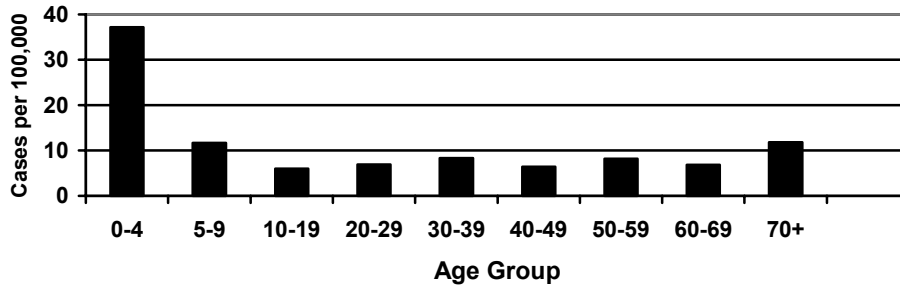
### Cases by Gender

Female	221	10.5
Male	179	8.9

**Salmonellosis Incidence  
Kentucky, 1994-2003**

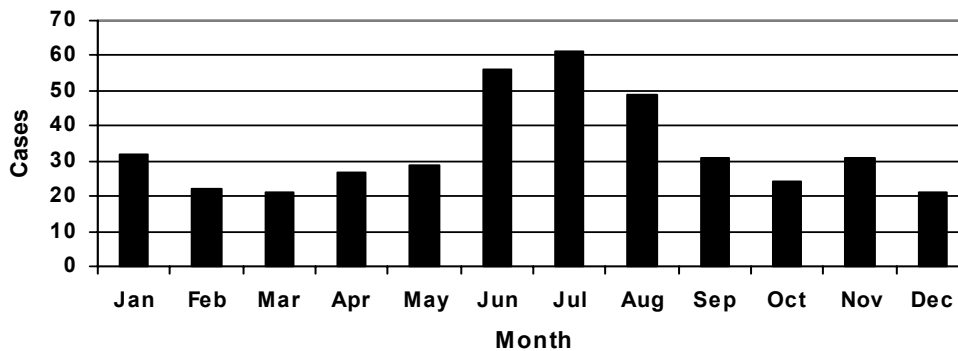


### Salmonellosis, Age-Specific Incidence Kentucky, 2003



As in previous years, the highest incidence occurred in children under 4 years of age, (37.2 cases per 100,000), followed by children in the 5-9 age group (11.7 cases per 100,000) and persons 70 years and older (11.8 cases per 100,000). In the 0-4 year group 33 of the 100 cases were in children less than 1 year of age.

### Salmonellosis, Reported Cases by Month of Onset Kentucky, 2003



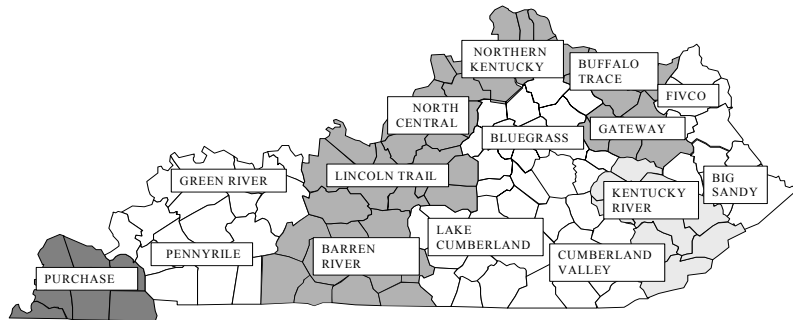
In 2003, the reported cases peaked in July with 61 cases. There were no reported outbreak associated cases of *Salmonella* in 2003.

## Salmonellosis by District, Kentucky Annual Incidence, 2002

<u>Area Development District</u>	<u>Annual Incidence</u> Per 100,000
1 Purchase	18.7
2 Pennyriple	7.9
3 Green River	7.7
4 Barren River	11.2
5 Lincoln Trail	10.5
6 North Central	10.4
7 Northern Kentucky	11.5
8 Buffalo Trace	12.5
9 Gateway	10.3
10 Fivco	9.6
11 Big Sandy	9.4
12 Kentucky River	4.2
13 Cumberland Valley	9.2
14 Lake Cumberland	8.2
15 Bluegrass	8.0

**Per 100,000**

0-5	
6-10	
10-14	
15-19	



The Kentucky Public Health Laboratory located in Frankfort, cultures and then serotypes *Salmonella* isolates sent into the lab by hospitals and commercial labs. In 2003, 383 samples positive for *Salmonella* were serotyped by lab personnel. Although 48 different types of *Salmonella* were typed, most common were Typhimurium, Enteritidis, Newport, and Heidelberg. Pulse Field Gel Electrophoresis (PFGE) is routinely run on these four types as a part of a national program (PulseNet) to track enteric diseases.

