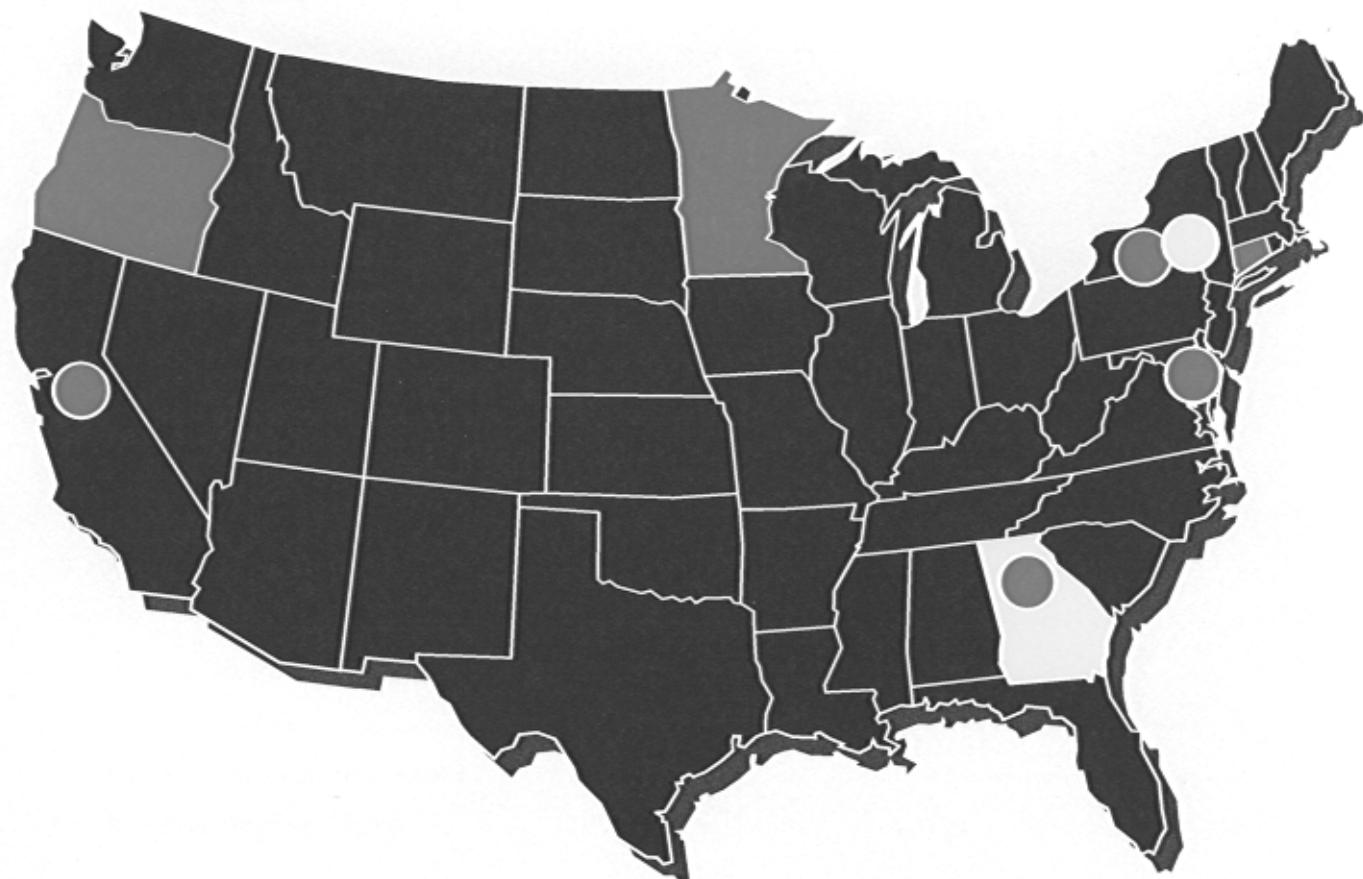


FoodNet Surveillance Report for 1998 (Final Report)



FoodNet

Foodborne Diseases Active Surveillance Network
CDC's Emerging Infections Program

Centers for Disease Control and Prevention
Division of Bacterial and Mycotic Diseases
Foodborne and Diarrheal Diseases Branch
March 2000



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control and Prevention

CDC
CENTERS FOR DISEASE CONTROL
AND PREVENTION

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Prologue

The FoodNet Surveillance Report for 1998 consists of two parts: Part I, the Narrative Report, and Part II, the summary tables and graphs. The Narrative Report is based on the report "1998 Surveillance Results, Preliminary Report," written for the Department of Health and Human Services in March 1999. This new document has two revisions. First, this report uses as the denominator the 1998 postcensus population estimates, which became available in August 1999. Second, the new report includes additional cases reported since the publication of the initial report. Therefore, Tables 1A and 1B have been updated and incidence rates recalculated.

Further information concerning FoodNet, including current and previous surveillance reports, MMWR articles, and other FoodNet publications, can be obtained by contacting the Foodborne and Diarrheal Diseases Branch at telephone number 404.371.5465 or via the Internet at
<http://www.cdc.gov/ncidod/dbmd/foodnet>.

Part I

Narrative Report

Executive summary

Foodborne infections are an important public health challenge. The Centers for Disease Control and Prevention (CDC) is actively involved in preventing foodborne disease. CDC's principal role in the interagency national Food Safety Initiative has been to enhance surveillance for and investigation of infections that are foodborne. These efforts will provide crucial data to identify control points, focus future prevention strategies and decision making within food safety regulatory agencies, measure changes in the burden of disease, and improve the national early warning system for food safety emergencies.

The Foodborne Diseases Active Surveillance Network (FoodNet) is the principal foodborne-disease component of the CDC's Emerging Infections Program (EIP). FoodNet is a collaborative project among CDC, the eight EIP state health department sites, the Food Safety and Inspection Service (FSIS) of the United States Department of Agriculture (USDA), and the Food and Drug Administration (FDA). As a sentinel network, FoodNet is designed to 1) produce national estimates of the burden and sources of specific foodborne diseases in the United States through active surveillance and epidemiologic studies, 2) track and interpret trends in these diseases over time and conduct studies of causes of emerging foodborne diseases, 3) document the effectiveness of new food safety control measures, such as the USDA Pathogen Reduction and Hazard Analysis and Critical Control Points (HACCP) Rule, in decreasing the number of cases of major foodborne diseases in the United States each year, and 4) respond rapidly to new and emerging foodborne pathogens. FoodNet and other efforts at CDC augment, but do not replace, longstanding activities at CDC, FSIS, FDA, and in states to identify, control, and prevent foodborne disease hazards. Enhanced surveillance and investigation are integral to the development and evaluation of new prevention and control strategies that improve the safety of our food and the public's health.

The following are key findings of FoodNet surveillance activities during 1998:

- Rates of *Campylobacter*, *Salmonella*, and *Cryptosporidium* infections declined. Although this decline might reflect simple annual fluctuations in foodborne illness, it may also reflect disease prevention efforts, particularly for campylobacteriosis and salmonellosis. These efforts include changes in meat and poultry processing in the United States mandated by the USDA HACCP Rule. The percentage of meat and poultry products sampled at processing plants that yielded *Salmonella* declined compared with baseline rates, also possibly due to the implementation of HAACP.
- The rate of *Salmonella* Enteritidis (SE) infections declined in all states except Georgia and Oregon. The possible reasons are being investigated. SE infections, particularly outbreaks, have been

commonly associated with eating undercooked eggs. An egg quality assurance program that calls for microbiologic testing and diverting eggs intended for retail stores to egg breaker plants when SE is found on a farm may have contributed to the decline in reported human illnesses.

- The large reduction in cyclosporiasis is due in part to increased public awareness of the risks associated with consuming imported raspberries and to restrictions on the importation of raspberries into the United States.
- The sustained increase in *Vibrio* rates is a reflection of multistate outbreaks of *Vibrio parahaemolyticus* in 1997 and 1998.
- The rate of *Escherichia coli* O157 infections increased in 1998 to slightly above 1996 levels, reversing a decline in 1997; the reasons for the fluctuations are unknown.
- FoodNet case-control studies of *Salmonella* infections found that eating chicken and undercooked eggs was associated with sporadic SE and sporadic *S. Heidelberg* infections. Antimicrobial use in the month before illness was associated with multi-resistant sporadic *Salmonella Typhimurium* DT104 infections. Breast-feeding was protective against infant salmonellosis. Salmonellosis was also associated with pet reptile contact.
- FoodNet surveillance contributed to the detection and investigation of a large, multistate outbreak of listeriosis. In FoodNet sites, *Listeria* infections resulted in higher rates of hospitalization than any other pathogen and caused nearly half of the reported deaths. FoodNet will conduct additional studies of *Listeria* infections to identify food sources and potential control points in 1999.

Background

Foodborne infections are an important public health challenge. The Centers for Disease Control and Prevention (CDC), the Food Safety and Inspection Service (FSIS) of the United States Department of Agriculture (USDA), the Food and Drug Administration (FDA), and the eight Emerging Infections Program (EIP) sites are actively involved in preventing foodborne diseases. Recently, the interagency national Food Safety Initiative was established to meet the public health challenge of foodborne diseases. CDC's principal role in the Food Safety Initiative has been to enhance surveillance and investigation of infections that are usually foodborne. FoodNet is one of the most important ways in which this mission is accomplished.

Objectives

The objectives of FoodNet are to determine the frequency and severity of foodborne diseases, determine the proportion of common foodborne diseases that result from eating specific foods, and describe the epidemiology of new and emerging bacterial, parasitic, and viral foodborne pathogens. To address these objectives, FoodNet uses active surveillance and conducts related epidemiologic studies. By monitoring the burden of foodborne diseases over time, FoodNet can document the effectiveness of new food safety initiatives, such as the USDA HACCP Rule, in decreasing the rate of foodborne diseases in the United States each year.

Methods

In 1998, FoodNet conducted population-based active surveillance for confirmed cases of *Campylobacter*, *Cryptosporidium*, *Cyclospora*, Shiga toxin-producing *Escherichia coli* O157, *Listeria*, *Salmonella*, *Shigella*, *Vibrio*, and *Yersinia* infections in Connecticut, Minnesota, and Oregon and selected counties in California, Georgia, Maryland, and New York (total population in bacterial catchment areas is 20.7 million, total population in parasitic catchment areas is 25 million). To identify cases, FoodNet personnel contact each of the more than 300 clinical laboratories within the catchment areas, either weekly or monthly, depending on the size of the clinical laboratory. FoodNet also conducts surveillance for hemolytic uremic syndrome through pediatric nephrologists, and surveillance for foodborne disease outbreaks.

Results

Cases reported

In 1998, a total of 9762 confirmed infections caused by the pathogens under surveillance were identified in the seven sites. Of these, 9187 were bacterial, including 4025 *Campylobacter* infections, 2839 *Salmonella* infections, 1480 *Shigella* infections, 500 *E. coli* O157 infections, 181 *Yersinia* infections, 112 *Listeria* infections, and 50 *Vibrio* infections (Table 1A). Among the 2525 serotyped *Salmonella* isolates, the most commonly identified serotypes were Typhimurium (827 cases), Enteritidis (403), Heidelberg (168), Newport (90), and Braenderup (61). In addition, 575 cases of parasitic diseases were reported, including 566 cases of *Cryptosporidium* infection and 9 cases of *Cyclospora* infection (Table 1B).

Table 1A. Cases of infections caused by specific bacterial pathogens, reported by FoodNet sites, 1998

Pathogen	CA	CT	GA	MD	MN	NY	OR	Total
<i>Campylobacter</i>	789	603	468	246	1004	222	693	4025
<i>E. coli</i> O157	35	58	51	24	209	22	101	500
<i>Listeria</i>	11	29	19	11	18	8	16	112
<i>Salmonella</i>	329	486	505	438	581	201	299	2839
<i>Shigella</i>	236	72	585	56	327	48	156	1480
<i>Vibrio</i>	10	6	17	6	2	0	9	50
<i>Yersinia</i>	33	22	57	14	35	5	15	181
Total	1443	1276	1702	795	2176	506	1289	9187

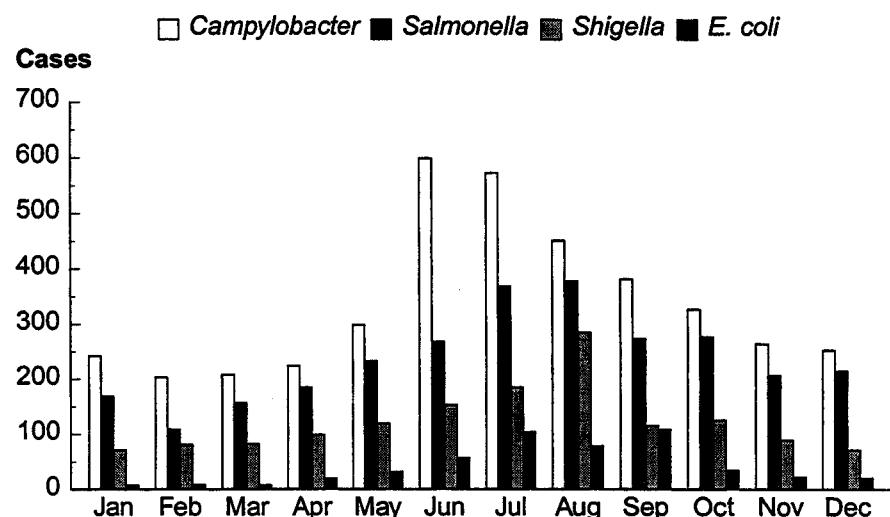
Table 1B. Cases of infections caused by specific parasitic pathogens, reported by FoodNet sites, 1998

Pathogen	CA	CT	GA	MD	MN	NY	OR	Total
<i>Cryptosporidium</i>	153	43	93	13	173	22	69	566
<i>Cyclospora</i>	1	6	0	1	0	0	1	9
Total	154	49	93	14	173	22	70	575

Seasonality

Isolation rates for several pathogens showed wide seasonal variation; 68% of *Vibrio*, 47% of *E. coli* O157, 40% of *Campylobacter*, and 36% of *Salmonella* were isolated during June through August (Figure 1). Forty-four percent of cyclosporiasis cases and 33% of cryptosporidiosis cases were identified during the summer months. *Yersinia* infections were more likely to have occurred in winter months with 40% of cases being reported during January, February, or December.

Figure 1. Cases of foodborne disease caused by specific pathogens, by month, FoodNet sites, 1998



1998 Rates

Annual incidence rates were calculated to compare the number of cases among sites with different populations. Incidence is the number of cases divided by the population. All 1998 rates reported here were calculated with 1998 population estimates. Overall incidence rates were highest for infections with *Campylobacter* (19.4/100,000 population), *Salmonella* (13.7/100,000), and *Shigella* (7.1/100,000). Lower overall incidence rates were reported for *E. coli* O157 (2.4/100,000), *Cryptosporidium* (2.3/100,000), *Yersinia* (0.9/100,000), *Listeria* (0.5/100,000), *Vibrio* (0.2/100,000), and *Cyclospora* (0.0/100,000).

1996-1998 Rates

Overall incidence rates of illness caused by pathogens under surveillance declined in the five original sites from 1996 to 1998 (Table 2). Infections caused by *Salmonella* decreased from 14.5/100,000 in 1996 to 12.3/100,000 in 1998. This decrease was particularly pronounced for serotype Enteritidis, which dropped from 2.5/100,000 to 1.4/100,000. Although *Campylobacter* rates increased slightly from 1996 to 1997 (23.5/100,000 to 25.2/100,000), 1998 rates experienced a substantial decline (21.4/100,000). After showing a decline from 1996 to 1997, *E. coli* O157 infections increased in 1998 to 2.8/100,000. The incidence of *Vibrio* infections, which had increased substantially from 1996 to 1997, remained elevated in 1998. Incidence rates for *Listeria* and *Yersinia* infections were similar for the 3 years. The incidence of illness caused by *Cryptosporidium* dropped from 2.8/100,000 in 1997 to 2.3/100,000 in 1998, and *Cyclospora* incidence decreased from 0.3/100,000 in 1997 to 0.0/100,000 in 1998. Compared with 1997, Georgia reported an overall increase in the incidence of illnesses caused by the pathogens under surveillance while California, Connecticut, Minnesota, and Oregon reported decreases.

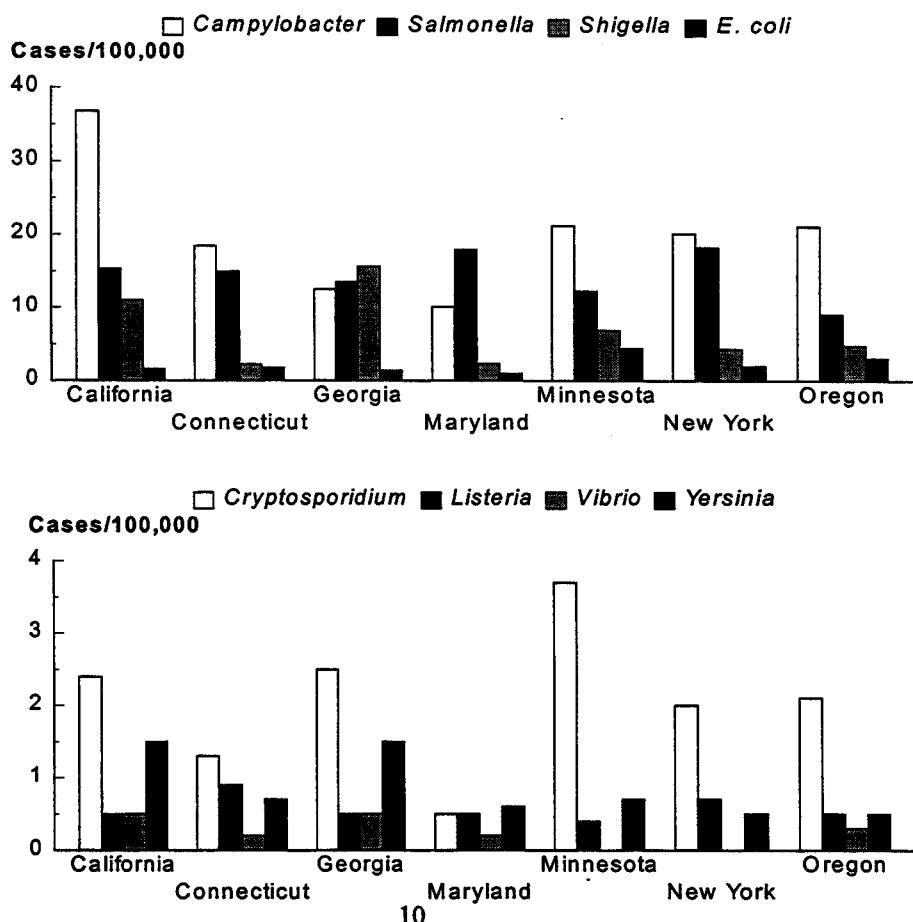
Table 2. Cases per 100,000 of specific bacterial foodborne pathogens for the five original FoodNet sites, 1996-1998

Pathogen	1996	1997	1998
<i>Campylobacter</i>	23.5	25.2	21.4
<i>E. coli</i> O157	2.7	2.3	2.8
<i>Listeria</i>	0.5	0.5	0.6
<i>Salmonella</i>	14.5	13.6	12.3
<i>Shigella</i>	8.9	7.5	8.5
<i>Vibrio</i>	0.1	0.3	0.3
<i>Yersinia</i>	1.0	0.9	1.0
Total	51.2	50.3	46.9

Rates by site

Incidence rates for many of these pathogens varied substantially among the sites (Figure 2). The incidence rates for *Campylobacter* infection varied from 10.1/100,000 in Maryland to 36.8/100,000 in California, and for *Shigella* infections, from 2.2/100,000 in Connecticut to 15.6/100,000 in Georgia. Although incidence rates for *Salmonella* infection were similar among the sites, the rates for *Salmonella* serotype Enteritidis infection varied dramatically, from 0.6/100,000 in Georgia to 5.0/100,000 in Maryland. Rates of infection with *Salmonella* Typhimurium varied from 3.0/100,000 in California to 5.2/100,000 in Minnesota. Incidence rates for *E. coli* O157 infection varied from 1.0/100,000 in Maryland to 4.4/100,000 in Minnesota. Infections caused by *Yersinia* varied from 0.5/100,000 in New York to 1.5/100,000 in California and Georgia. Incidence rates of *Cryptosporidium* cases ranged from 0.5/100,000 in Maryland to 3.7/100,000 in Minnesota. Reasons for these regional differences in incidence rates are being investigated; many of these differences may be due to variations in testing practices, for example, since most laboratories do not test specimens routinely for all pathogens.

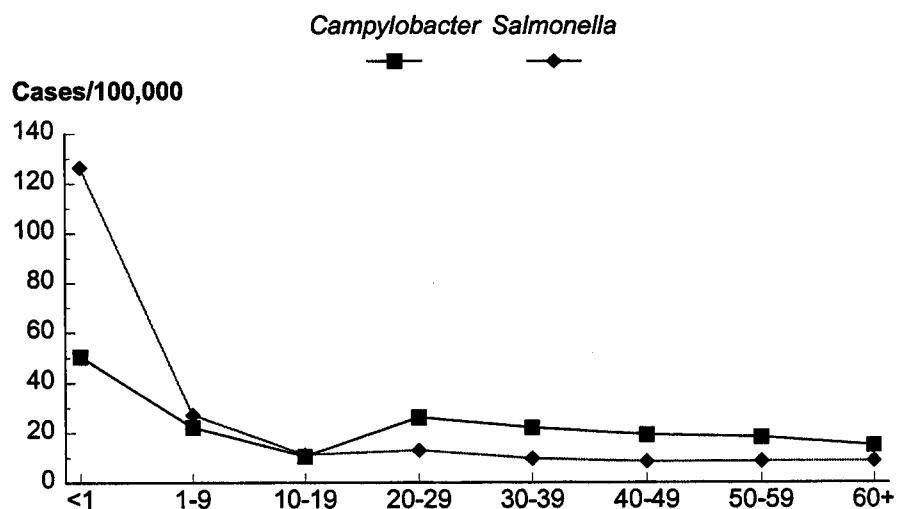
Figure 2. Cases per 100,000 population of foodborne disease caused by specific pathogens, FoodNet sites, 1998



Rates by age

Annual incidence rates of foodborne illness varied by age, especially for *Campylobacter* and *Salmonella* infections (Figure 3). For children <1 year of age, the rate of *Salmonella* infection was 126.4/100,000, and the rate of *Campylobacter* infection was 50.4/100,000, both substantially higher than for other age groups.

Figure 3. Incidence of *Campylobacter* and *Salmonella* infections by age group, FoodNet sites, 1998



Rates by gender

Incidence rates varied by sex (Table 3). Overall, males were more likely than females to be infected with one of these pathogens. In particular, rates of *Campylobacter* infection were 30% higher among males than among females.

Table 3. Sex-specific incidence rates per 100,000 population, by pathogen, FoodNet sites, 1998

Pathogen	Male	Female	Overall
<i>Campylobacter</i>	22.0	16.9	19.4
<i>Cryptosporidium</i>	2.7	1.8	2.3
<i>Cyclospora</i>	0.04	0.03	0.0
<i>E. coli O157</i>	2.4	2.4	2.4
<i>Listeria</i>	0.6	0.5	0.5
<i>Salmonella</i>	13.8	13.6	13.7
<i>Shigella</i>	7.3	7.1	7.1
<i>Vibrio</i>	0.3	0.2	0.2
<i>Yersinia</i>	1.0	0.8	0.9
Total	47.4*	41.5*	44.2*

* Excludes *Cryptosporidium* and *Cyclospora*

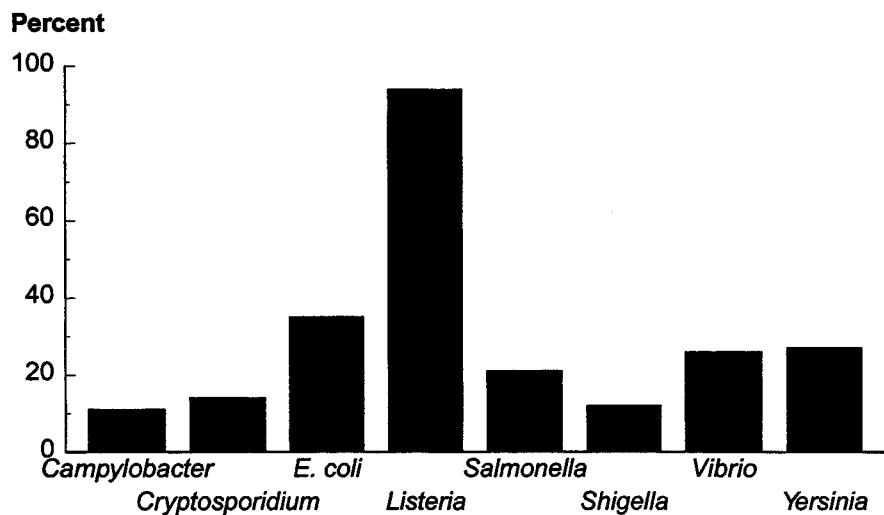
Rates by age and gender

The incidence rate of *Campylobacter* infection was higher for males than for females in all age groups. In contrast, although rates of *Salmonella* infection were higher for male infants and persons aged 1-19 years compared with females, rates were higher among females for all other age groups.

Hospitalizations

Data on hospitalization show that overall, seventeen percent of persons with culture-confirmed illness were hospitalized; hospitalization rates differed markedly by pathogen (Figure 4). The rate of hospitalization was highest for persons infected with *Listeria* (95%) followed by those infected with *E. coli O157* (35%), *Yersinia* (27%), *Vibrio* (26%), *Salmonella* (21%), *Shigella* (12%), and *Campylobacter* (11%).

Figure 4. Percentage of persons hospitalized with infections caused by specific pathogens, FoodNet sites, 1998



Deaths

Thirty-three persons died; of those, 13 were infected with *Listeria*, 11 with *Salmonella*, two with *E. coli* O157, two with *Campylobacter*, three with *Cryptosporidium*, one with *Vibrio*, and one with *Yersinia*. The pathogen with the highest case-fatality rate was *Listeria*; 12% of persons infected with *Listeria* died.

HUS

Hemolytic uremic syndrome (HUS) is a life-threatening illness characterized by hemolytic anemia, thrombocytopenia, and acute renal failure. Approximately 90% of HUS cases in the United States are caused by infection with Shiga toxin-producing *Escherichia coli* (STEC). Although *E. coli* O157:H7 (O157) is the most easily and most frequently isolated, many other STEC serotypes can also cause HUS.

HUS surveillance in FoodNet sites began in 1997. In 1998, a total of 52 cases were reported from FoodNet sites (Table 4A). Twenty-five (48.1%) of these reported cases were diagnosed in the summer months of June, July, and August (Figure 5). For both years combined, the overall annual rate of post-diarrheal HUS among residents in the FoodNet sites was 7.2 cases per million for children under 16 years of age and 18.1 cases per million for children under 5 years of age (Table 4B). *E. coli* O157:H7 was identified in approximately half (52.2%) of stools cultured for this organism (Table 4C). There was 1 death in 1997 and 4 deaths in 1998.

Table 4A. 1997-1998 HUS Surveillance: Total cases by site and year*

State	1997	1998
California	10	9
Connecticut	1	0
Georgia	8	14
Maryland	n/a	2
Minnesota	12	21
New York	n/a	0
Oregon	10	6
Total	41	52

*Includes cases among persons who live outside the formal catchment area.

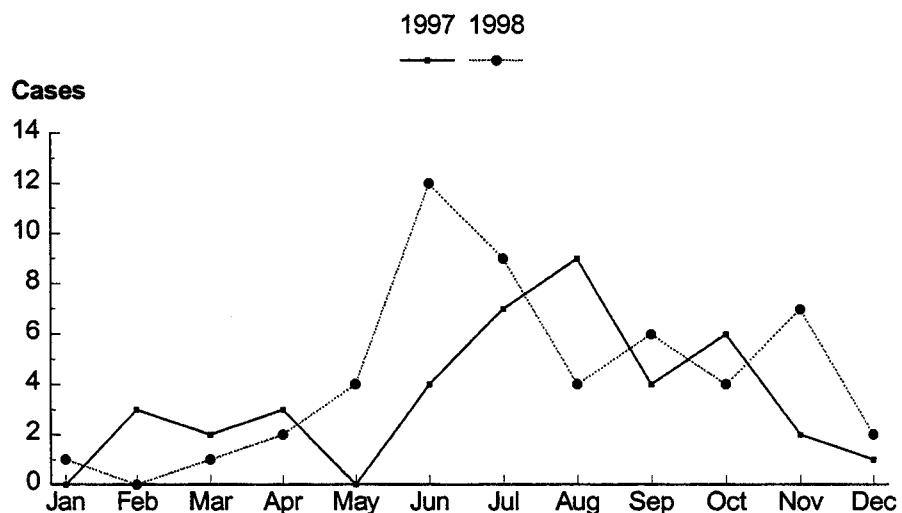
Table 4B. 1997-1998 HUS Surveillance: Post-diarrheal HUS among children, by site and year

State	Children under 16 years old		Children under 5 years old	
	Cases	Rate per 1,000,000	Cases	Rate per 1,000,000
California	9	10.7	6	22.2
Connecticut	1	0.7	1	2.3
Georgia	11	6.4	8	14.2
Maryland*	2	3.7	2	12.3
Minnesota	27	12.2	20	31.6
New York*	0	0	0	0
Oregon	12	8.3	10	23.3
Total	62	7.2	47	18.1

* Rates adjusted to reflect that MD and NY were not FoodNet participants in 1997.

Table 4C. 1997-1998 HUS Surveillance: Results of microbiologic testing

Patient had diarrhea in the 3 weeks before HUS diagnosis	86/93 (92.5%)
Stool culture obtained	80/86 (93.0%)
Stool cultured for O157	69/80 (86.3%)
O157 isolated from stool	36/69 (52.2%)
Stool tested for Shiga toxin by EIA	6/80 (7.5%)
Non-O157 STEC isolated from stool	0/6 (0%)

Figure 5. 1997-1998 HUS Surveillance: Total Cases of Post-diarrheal HUS, by Year and Month

Outbreaks

A foodborne disease outbreak is defined as an incident with two or more persons ill caused by ingestion of a common food. The overall rate of foodborne disease outbreaks in which 10 or more persons become ill reported in FoodNet sites was 3.7 outbreaks per million population, ranging from 0.8 outbreaks per million in Georgia to 8.1 outbreaks per million in New York (Table 5).

Table 5: Outbreaks reported with 10 or more persons ill, FoodNet sites, 1998

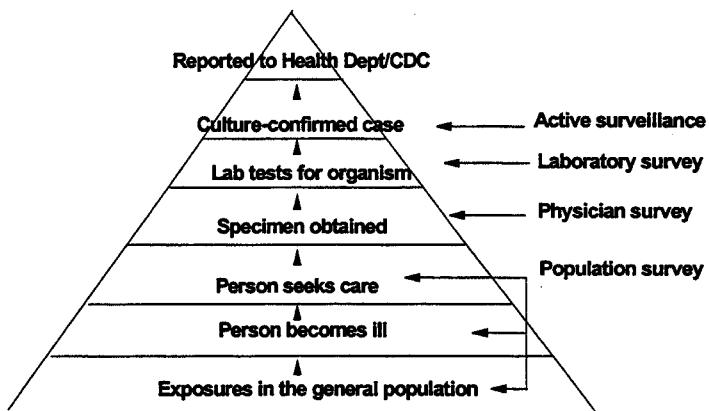
Site	Number	Rate/1,000,000
California	12	5.7
Connecticut	7	2.1
Georgia	3	0.8
Maryland	9	3.7
Minnesota	24	5.1
New York	9	8.1
Oregon	12	3.6
Total	76	3.7

Additional Studies

Burden of illness

Cases reported through active surveillance represent a fraction of the number of cases in the community. To better estimate the number of cases of foodborne disease in the community, we have conducted surveys of laboratories, physicians, and the general population in the FoodNet sites (Figure 5). Using these data, we can determine the proportion of people in the general population with a diarrheal illness and from among those, the number who seek medical care for the illness. We can estimate the proportion of physicians who ordered a bacterial stool culture for patients with diarrhea, and we can evaluate how variations in testing for bacterial pathogens influence the number of culture-confirmed cases. Using FoodNet and other data, CDC estimates that there were 76 million illnesses, 325,000 hospitalizations, and 5,000 deaths in 1997 in the United States.

Figure 5. Burden of Illness Pyramid



This model, which indicates for each culture-confirmed person there are 38 ill persons who do not seek care, can be used for developing estimates of the burden of illness caused by each foodborne pathogen. For example, data from this model suggest that in 1997 there were 1,400,000 *Salmonella* infections, resulting in 113,000 physician office visits, and 37,200 culture-confirmed cases in this country. Culture-confirmed cases alone resulted in an estimated 8500 hospitalizations and 300 deaths; additional hospitalizations and deaths occur among persons whose illness is not culture-confirmed.

- Causes of foodborne diseases** As part of FoodNet, case-control studies are conducted to determine the proportion of foodborne diseases that are caused by specific foods or food preparation and handling practices. By determining this proportion, health officials can make their prevention efforts more specific and document their effectiveness.
- ***E. coli* O157 case-control studies**
A case-control study of *E. coli* O157:H7 infections conducted at FoodNet sites in 1997 found that undercooked ground beef was the principal food source of these infections. A follow-up case-control study in 1999, which will include subtyping of isolates by pulsed-field gel electrophoresis (PFGE), will again evaluate the role of undercooked ground beef and examine risk and prevention factors for *E. coli* O157 infections.
 - ***Salmonella* case-control studies**
Eating chicken and undercooked eggs was associated with sporadic *Salmonella* Enteritidis and *Salmonella* Heidelberg infections. Antimicrobial use in the month before illness was associated with multiresistant *Salmonella* Typhimurium DT104 infections. Breast-feeding was found to be protective against infant salmonellosis. Reptile contact was associated with salmonellosis.
 - ***Campylobacter* case-control study**
In 1998, a FoodNet case-control study to determine risk and prevention factors for *Campylobacter* infection enrolled more than 1200 case-patients and 1200 controls. Analysis is ongoing. A pilot study in four FoodNet sites showed that domestically acquired fluoroquinolone-resistant *Campylobacter* has emerged in the United States.
 - ***Listeria* case-control study**
To determine sources and risk factors for listeriosis, a FoodNet case-control study will begin in February 2000.
 - ***Cryptosporidium* case-control study**
A FoodNet case-control study is being conducted to determine sources and risk factors for *Cryptosporidium* infection.

Future activities

- Continue population-based surveillance for *Campylobacter*, *Cryptosporidium*, *Cyclospora*, *Salmonella*, *Shigella*, Shiga toxin-producing *Escherichia coli*, *Listeria*, *Yersinia*, and *Vibrio* infections and for hemolytic uremic syndrome (HUS).
- Conduct surveillance for all foodborne disease outbreaks of any cause that occur within the FoodNet sites and pilot electronic reporting of outbreaks.
- Expand the population under active surveillance to include the entire state of Georgia and additional counties in New York. In 1999, the population within the catchment areas will include 29.9 million persons or 11% of the U.S. population.
- Conduct an additional case-control study of *E. coli* O157 infections, which will include PFGE subtyping of isolates.
- Conduct a case-control study of *Cryptosporidium* infections.
- Conduct a case-control study of *Listeria* infections.
- Conduct a physician survey on food safety education practices.
- Repeat a survey of microbiology laboratories in FoodNet sites to determine changes in laboratory practices.
- Repeat the Population survey among residents in FoodNet sites.

The following reports are available at the FoodNet web site:

<http://www.cdc.gov/ncidod/dbmd/foodnet>

CDC. 1996 Final FoodNet Surveillance Report. Atlanta: Centers for Disease Control and Prevention; 1998.

CDC. 1997 Final FoodNet Surveillance Report. Atlanta: Centers for Disease Control and Prevention; 1998.

CDC. The Catchment. Atlanta: Centers for Disease Control and Prevention; Vol.1, No.1, Fall 1998.

The following MMWR articles about FoodNet are available at this web site:

<http://www.cdc.gov/epo/mmwr/mmwr.html>

CDC. The Foodborne Diseases Active Surveillance Network, 1996. Morbidity and Mortality Weekly Report. 1997; 46(12):258-61.

CDC. Incidence of foodborne illness-FoodNet, 1997. Morbidity and Mortality Weekly Report. 1998; 47(37):782-86.

1998 FoodNet Publications

The following is a list of FoodNet manuscripts and abstracts published in 1998. A complete listing of all FoodNet manuscripts and abstracts is available at the FoodNet website:

<http://www.cdc.gov/ncidod/dbmd/foodnet>

Manuscripts

Angulo FJ, Voetsch AC, Vugia D, et al. Determining the burden of human illness from foodborne diseases: CDC's Emerging Infectious Disease Program Foodborne Diseases Active Surveillance Network (FoodNet). *Microbial Foodborne Pathogens, Veterinary Clinics of North America* 14:165-72.

Abstracts

Angulo FJ, Voetsch AC, Swerdlow DL, et al. Determining the burden of foodborne illness: FoodNet 1996-97 [Abstract]. In: Program and Abstracts of the International Conference on Emerging Infectious Diseases, Atlanta, March 8-11, 1998. Washington, D.C.: American Society for Microbiology, 1998;84.

Baer JT, Vugia DJ, Reingold AL, Aragon T, Angulo FJ, Bradford WZ. Epidemiology of shigellosis in San Francisco during the HIV era. In: Program and Abstracts of the International Conference on Emerging Infectious Diseases, Atlanta, March 8-11, 1998. Washington, D.C.: American Society for Microbiology, 1998;114.

Bender J, Mead P, Voetsch D, et al. Hemolytic uremic syndrome (HUS) cases identified in the 1996 FoodNet *Escherichia coli* O157:H7 surveillance. [Abstract] In: Program and Abstracts of the International Conference on Emerging Infectious Diseases, Atlanta, March 8-11, 1998. Washington, D.C.: American Society for Microbiology, 1998;116.

Deneen V, Wicklund JH, Marcus R, et al. The impact of physician knowledge of laboratory practices on surveillance for *E. coli* O157:H7. [Abstract] In: Program and Abstracts of the International Conference on Emerging Infectious Diseases, Atlanta, March 8-11, 1998. Washington, D.C.: American Society for Microbiology,

1998;117.

Friedman CR, Yang S, Rocourt J, et al. Fluoroquinolone-resistant *Campylobacter* infections in the United States: a pilot case-control study in FoodNet sites. [Abstract] In: Program and Abstracts of the Infectious Diseases Society of America 36th Annual Meeting, Denver, November 12-15, 1998. Alexandria, Va: Infectious Diseases Society of America; 1998;179.

Glynn MK, Reddy S, Fiorentino T, Shiferaw B, Vugia D, Bardsley M, Bender J, Angulo F, and the FoodNet Working Group. Antimicrobial agent use increases infections with resistant bacteria: a foodNet case-control study of sporadic, multiresistant *Salmonella* Typhimurium DT 104 Infections, 1996-1997. In: Program and Abstracts of the 36th Annual Meeting of the Infectious Diseases Society of America, Denver, Colorado, November 12 - 15, 1998. Alexandria, Va: Infectious Diseases Society of America, 1998:84.

Hennessy T, Cheng L, Kassenborg H, et al. Eggs identified as a risk factor for sporadic *Salmonella* serotype Heidelberg infections: a case-control study in FoodNet sites. [Abstract] In: Program and Abstracts of the Infectious Diseases Society of America 36th Annual Meeting, Denver, November 12-15, 1998. Alexandria, Va: Infectious Diseases Society of America; 1998;178.

Hennessy T, Deneen V, Marcus R, et al. The FoodNet Physician Survey: implications for foodborne disease surveillance. [Abstract] In: Program and Abstracts of the International Conference on Emerging Infectious Diseases, Atlanta, March 8-11, 1998. Washington, D.C: American Society for Microbiology, 1998;49.

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Part II
Summary Tables and Graphs

Part II:

Listing of Summary tables and graphs

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Graphs

Rates per 100,000 by pathogen per month

Campylobacter

Cryptosporidium

Cyclospora

Escherichia coli O157

Listeria

Salmonella
Salmonella Enteritidis
Salmonella Typhimurium
Salmonella Heidelberg
Salmonella Newport
Salmonella Montevideo
Salmonella Agona
Shigella
Shigella sonnei
Shigella flexneri
Shigella dysentariae
Vibrio
Yersinia

Age-specific rates per 100,000 distribution by pathogen for all sites

Campylobacter
Cryptosporidium
Cyclospora
Escherichia coli O157
Listeria
Salmonella
Shigella
Vibrio
Yersinia

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	Population in Bacterial Catchment Areas:	Percent
California*	2,146,096	10.4%
Connecticut	3,274,069	15.8%
Georgia*	3,746,059	18.1%
Maryland*	2,444,280	11.8%
Minnesota	4,725,419	22.8%
New York*	1,106,085	5.3%
Oregon	3,281,974	15.8%
Total	20,723,982	100.0%

	Population in Parasitic Catchment Areas:	Percent
California*	6,453,765	25.8%
Connecticut	3,274,069	13.1%
Georgia*	3,746,059	15.0%
Maryland*	2,444,280	9.8%
Minnesota	4,725,419	18.9%
New York*	1,106,085	4.4%
Oregon	3,281,974	13.1%
Total	25,031,651	100.0%

United States Population.....270,298,524

* Selected Counties

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Table 1a - Percent Site by Pathogen

		Site							Total
Pathogen		Ca.	Ct.	Ga.	Md.	Mn.	NY.	Or.	
	CAMPYLOBACTER	Cases	789	603	468	246	1004	222	693 4025
		Percent	19.6	15.0	11.6	6.1	24.9	5.5	17.2 100.0
CRYPTOSPORIDIUM	Cases	153	43	93	13	173	22	69	566
	Percent	27.0	7.6	16.4	2.3	30.6	3.9	12.2	100.0
CYCLOSPORA	Cases	1	6	-	1	-	-	1	9
	Percent	11.1	66.7	-	11.1	-	-	11.1	100.0
E. COLI 0157	Cases	35	58	51	24	209	22	101	500
	Percent	7.0	11.6	10.2	4.8	41.8	4.4	20.2	100.0
LISTERIA	Cases	11	29	19	11	18	8	16	112
	Percent	9.8	25.9	17.0	9.8	16.1	7.1	14.3	100.0
SALMONELLA	Cases	329	486	505	438	581	201	299	2839
	Percent	11.6	17.1	17.8	15.4	20.5	7.1	10.5	100.0
SHIGELLA	Cases	236	72	585	56	327	48	156	1480
	Percent	15.9	4.9	39.5	3.8	22.1	3.2	10.5	100.0
VIBRIO	Cases	10	6	17	6	2	-	9	50
	Percent	20.0	12.0	34.0	12.0	4.0	-	18.0	100.0
YERSINIA	Cases	33	22	57	14	35	5	15	181
	Percent	18.2	12.2	31.5	7.7	19.3	2.8	8.3	100.0
Total	Cases	1597	1325	1795	809	2349	528	1359	9762
	Percent	16.4	13.6	18.4	8.3	24.1	5.4	13.9	100.0

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Table 1b - Percent Pathogen by Site

		Pathogen										Total
		CAMPY- LOBAC- TER	CRYPT- OSPOR- IDIUM	CYCLO- SPORA	E. COLI O157	LISTERIA	SALMO- NELLA	SHIGE- LLA	VIBRIO	YERSI- NIA		
Site												
Ca.	Cases	789	153	1	35	11	329	236	10	33	1597	
	Percent	49.4	9.6	0.1	2.2	0.7	20.6	14.8	0.6	2.1	100.0	
Ct.	Cases	603	43	6	58	29	486	72	6	22	1325	
	Percent	45.5	3.2	0.5	4.4	2.2	36.7	5.4	0.5	1.7	100.0	
Ga.	Cases	468	93	-	51	19	505	585	17	57	1795	
	Percent	26.1	5.2	-	2.8	1.1	28.1	32.6	0.9	3.2	100.0	
Md.	Cases	246	13	1	24	11	438	56	6	14	809	
	Percent	30.4	1.6	0.1	3.0	1.4	54.1	6.9	0.7	1.7	100.0	
Mn.	Cases	1004	173	-	209	18	581	327	2	35	2349	
	Percent	42.7	7.4	-	8.9	0.8	24.7	13.9	0.1	1.5	100.0	
NY.	Cases	222	22	-	22	8	201	48	-	5	528	
	Percent	42.0	4.2	-	4.2	1.5	38.1	9.1	-	0.9	100.0	
Or.	Cases	693	69	1	101	16	299	156	9	15	1359	
	Percent	51.0	5.1	0.1	7.4	1.2	22.0	11.5	0.7	1.1	100.0	
Total	Cases	4025	566	9	500	112	2839	1480	50	181	9762	
	Percent	41.2	5.8	0.1	5.1	1.1	29.1	15.2	0.5	1.9	100.0	

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Table 2a - Cases per 100,000 by Pathogen for All Sites

	Cases per 100,000	Total Cases
Pathogen		
CAMPYLOBACTER	19.4	4025
CRYPTOSPORIDIUM	2.3	566
CYCLOSPORA	0.0	9
E. COLI O157	2.4	500
LISTERIA	0.5	112
SALMONELLA	13.7	2839
SHIGELLA	7.1	1480
VIBRIO	0.2	50
YERSINIA	0.9	181
Total	46.6	9762

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 Table 2b - Cases per 100,000 by Pathogen by Site

	Cases per 100,000						
	Ca.	Ct.	Ga.	Md.	Mn.	NY.	Or.
Pathogen							
CAMPYLOBACTER	36.8	18.4	12.5	10.1	21.2	20.1	21.1
CRYPTOSPORIDIUM	2.4	1.3	2.5	0.5	3.7	2.0	2.1
CYCLOSPORA	0.0	0.2	-	0.0	-	-	0.0
E. COLI O157	1.6	1.8	1.4	1.0	4.4	2.0	3.1
LISTERIA	0.5	0.9	0.5	0.5	0.4	0.7	0.5
SALMONELLA	15.3	14.8	13.5	17.9	12.3	18.2	9.1
SHIGELLA	11.0	2.2	15.6	2.3	6.9	4.3	4.8
VIBRIO	0.5	0.2	0.5	0.2	0.0	-	0.3
YERSINIA	1.5	0.7	1.5	0.6	0.7	0.5	0.5
Total	69.6	40.5	47.9	33.1	49.7	47.7	41.4

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Table 3 - Cases per 100,000 by Month by Pathogen for All Sites

Cases per 100,000	Month											
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98
Pathogen												
CAMPYLOBACTER	1.2	1.0	1.0	1.1	1.4	2.9	2.8	2.2	1.8	1.6	1.3	1.2
CRYPTOSPORIDIUM	0.2	0.1	0.2	0.1	0.1	0.1	0.3	0.3	0.4	0.2	0.1	0.1
CYCLOSPORA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E. COLI O157	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.4	0.5	0.2	0.1	0.1
LISTERIA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1
SALMONELLA	0.8	0.5	0.8	0.9	1.1	1.3	1.8	1.8	1.3	1.3	1.0	1.0
SHIGELLA	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.4	0.6	0.6	0.4	0.3
VIBRIO	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
YERSINIA	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1

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Table 3a: Site = California

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Table 3b: Site = Connecticut

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Table 3c: Site = Georgia

CDC's Emerging Infections Program (FoodNet)
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Table 3d: Site = Maryland

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Table 3e: Site = Minnesota

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Table 3f: Site = New York

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Table 3g: Site = Oregon

CDC's Emerging Infections Program (FoodNet)
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Table 4 - Pathogen by Month Collected for All Sites

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	242	203	208	224	299	599	573	451	381	327	265	253	4025
CRYPTOSPORIDIUM	42	35	42	27	32	37	65	82	91	45	32	36	566
CYCLOSPORA	1	1	2	0	0	3	1	0	0	0	0	1	9
E. COLI O157	8	9	8	20	32	57	104	74	109	35	23	21	500
LISTERIA	8	6	5	7	7	8	12	11	7	18	11	12	112
SALMONELLA	169	109	157	185	233	268	367	378	274	277	207	215	2839
SHIGELLA	71	81	82	99	120	153	185	285	116	126	90	72	1480
VIBRIO	0	1	0	3	2	16	7	11	4	1	4	1	50
YERSINIA	33	12	13	12	11	13	16	12	13	8	10	28	181
Total	574	457	517	577	736	1154	1330	1304	995	837	642	639	9762

CDC's Emerging Infections Program (FoodNet)
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 Tables 4a through 4g - Pathogen by Month Collected by Site

Table 4a: Site = California

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	72	60	51	57	65	63	75	81	74	78	58	55	789
CRYPTOSPORIDIUM	13	14	18	10	12	4	15	12	18	12	11	14	153
CYCLOSPORA	-	1	-	-	-	-	-	-	-	-	-	-	1
E. COLI O157	3	-	-	-	5	3	4	7	5	4	-	4	35
LISTERIA	-	-	1	3	1	-	1	1	1	1	1	1	11
SALMONELLA	21	15	16	15	39	32	44	35	44	24	21	23	329
SHIGELLA	15	13	13	19	12	12	32	37	31	20	19	13	236
VIBRIO	-	-	-	1	-	4	1	3	1	-	-	-	10
YERSINIA	5	3	4	2	3	1	2	6	5	-	1	1	33
Total	129	106	103	107	137	119	174	182	179	139	111	111	1597

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 Tables 4a through 4g - Pathogen by Month Collected by Site

Table 4b: Site = Connecticut

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	36	29	30	28	52	93	92	53	59	47	45	39	603
CRYPTOSPORIDIUM	4	1	3	2	1	2	3	10	14	2	-	1	43
CYCLOSPORA	-	-	1	-	-	3	1	-	-	-	-	1	6
E. COLI O157	-	1	2	2	8	6	14	8	1	4	9	3	58
LISTERIA	2	-	2	1	2	1	5	2	2	5	3	4	29
SALMONELLA	30	13	38	19	38	53	52	76	45	52	37	33	486
SHIGELLA	5	4	14	8	11	3	7	5	3	2	6	4	72
VIBRIO	-	1	-	-	-	1	-	2	1	-	1	-	6
YERSINIA	5	3	2	1	2	-	4	1	-	1	1	2	22
Total	82	52	92	61	114	162	178	157	125	113	102	87	1325

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 Tables 4a through 4g - Pathogen by Month Collected by Site

Table 4c: Site = Georgia

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	32	25	25	28	38	47	63	57	45	48	32	28	468
CRYPTOSPORIDIUM	6	5	4	6	3	7	12	9	13	13	9	6	93
CYCLOSPORA	-	-	-	-	-	-	-	-	-	-	-	-	-
E. COLI O157	1	-	-	-	1	23	7	5	6	4	1	3	51
LISTERIA	2	1	1	3	2	3	-	2	1	1	1	2	19
SALMONELLA	26	13	24	25	24	46	59	80	52	56	45	55	505
SHIGELLA	25	30	24	32	73	111	100	46	38	38	31	37	585
VIBRIO	-	-	-	2	1	9	1	1	1	1	1	-	17
YERSINIA	19	3	3	3	-	4	1	1	2	1	3	17	57
Total	111	77	81	99	142	250	243	201	158	162	123	148	1795

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 Tables 4a through 4g - Pathogen by Month Collected by Site

Table 4d: Site = Maryland

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	14	10	10	1	24	51	35	27	22	16	15	21	246
CRYPTOSPORIDIUM	1	-	1	-	-	1	2	2	2	1	-	3	13
CYCLOSPORA	-	-	1	-	-	-	-	-	-	-	-	-	1
E. COLI O157	1	-	-	1	-	1	3	6	6	6	-	-	24
LISTERIA	1	-	1	-	1	-	2	-	-	2	3	1	11
SALMONELLA	27	17	17	40	42	40	55	57	36	41	35	31	438
SHIGELLA	4	8	5	4	3	6	9	6	5	2	1	3	56
VIBRIO	-	-	-	-	1	2	1	1	1	-	-	-	6
YERSINIA	1	-	2	1	-	3	1	1	1	1	1	2	14
Total	49	35	37	47	71	104	108	100	73	69	55	61	809

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Tables 4a through 4g - Pathogen by Month Collected by Site

Table 4e: Site = Minnesota

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	26	26	48	53	47	220	177	125	102	72	57	51	1004
CRYPTOSPORIDIUM	6	10	11	6	12	18	28	31	23	13	6	9	173
CYCLOSPORA	-	-	-	-	-	-	-	-	-	-	-	-	-
E. COLI O157	3	1	4	6	6	17	46	23	77	8	9	9	209
LISTERIA	3	4	-	-	1	-	3	1	2	1	-	3	18
SALMONELLA	35	27	32	50	43	60	59	68	67	65	44	31	581
SHIGELLA	12	10	17	23	8	8	16	165	18	18	22	10	327
VIBRIO	-	-	-	-	-	-	-	1	-	-	1	-	2
YERSINIA	1	3	1	2	4	4	5	2	3	3	2	5	35
Total	86	81	113	140	121	327	334	416	292	180	141	118	2349

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 Tables 4a through 4g - Pathogen by Month Collected by Site

Table 4f: Site = New York

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	14	10	19	10	17	31	36	21	17	23	12	12	222
CRYPTOSPORIDIUM	3	1	1	1	1	1	3	4	2	1	4	-	22
CYCLOSPORA	-	-	-	-	-	-	-	-	-	-	-	-	-
E. COLI O157	-	-	1	3	4	1	6	5	-	2	-	-	22
LISTERIA	-	-	-	-	-	2	-	-	1	5	-	-	8
SALMONELLA	7	4	13	8	19	18	62	20	14	18	12	6	201
SHIGELLA	1	3	2	3	7	-	8	6	8	9	1	-	48
VIBRIO	-	-	-	-	-	-	-	-	-	-	-	-	-
YERSINIA	-	-	1	2	-	-	-	1	-	-	1	-	5
Total	25	18	37	27	48	53	115	57	42	58	30	18	528

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 Tables 4a through 4g - Pathogen by Month Collected by Site

Table 4g: Site = Oregon

Cases	Month												Total
	JAN98	FEB98	MAR98	APR98	MAY98	JUN98	JUL98	AUG98	SEP98	OCT98	NOV98	DEC98	
Pathogen													
CAMPYLOBACTER	48	43	25	47	56	94	95	87	62	43	46	47	693
CRYPTOSPORIDIUM	9	4	4	2	3	4	2	14	19	3	2	3	69
CYCLOSPORA	1	-	-	-	-	-	-	-	-	-	-	-	1
E. COLI O157	-	7	1	8	8	6	24	20	14	7	4	2	101
LISTERIA	-	1	-	-	-	2	1	5	-	3	3	1	16
SALMONELLA	23	20	17	28	28	19	36	42	16	21	13	36	299
SHIGELLA	9	13	7	10	6	13	13	20	13	37	10	5	156
VIBRIO	-	-	-	-	-	-	4	3	-	-	1	1	9
YERSINIA	2	-	-	1	2	1	3	-	2	2	1	1	15
Total	92	88	54	96	103	139	178	191	126	116	80	96	1359

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Table 5 - Age Distribution by Pathogen for All Sites

		Age Specific Strata									Total
		UNKNOWN	0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen											
CAMPYLOBACTER	Cases	3	141	579	305	713	776	632	396	480	4025
	Percent	0.1	3.5	14.4	7.6	17.7	19.3	15.7	9.8	11.9	100.0
SALMONELLA	Cases	2	354	710	322	356	341	281	188	285	2839
	Percent	0.1	12.5	25.0	11.3	12.5	12.0	9.9	6.6	10.0	100.0
SHIGELLA	Cases	4	28	583	126	200	245	143	98	53	1480
	Percent	0.3	1.9	39.4	8.5	13.5	16.6	9.7	6.6	3.6	100.0
LISTERIA	Cases	0	10	1	2	6	13	6	13	61	112
	Percent	0	8.9	0.9	1.8	5.4	11.6	5.4	11.6	54.5	100.0
YERSINIA	Cases	0	56	38	10	10	16	21	11	19	181
	Percent	0	30.9	21.0	5.5	5.5	8.8	11.6	6.1	10.5	100.0
E. COLI 0157	Cases	0	17	214	88	46	27	29	22	57	500
	Percent	0	3.4	42.8	17.6	9.2	5.4	5.8	4.4	11.4	100.0
CRYPTOSPORIDIUM	Cases	0	12	138	54	65	149	86	36	26	566
	Percent	0	2.1	24.4	9.5	11.5	26.3	15.2	6.4	4.6	100.0
CYCLOSPORA	Cases	0	1	1	0	0	1	5	1	0	9
	Percent	0	11.1	11.1	0	0	11.1	55.6	11.1	0	100.0
VIBRIO	Cases	0	0	1	0	3	14	15	5	12	50
	Percent	0	0	2.0	0	6.0	28.0	30.0	10.0	24.0	100.0
Total	Cases	9	619	2265	907	1399	1582	1218	770	993	9762
	Percent	0.1	6.3	23.2	9.3	14.3	16.2	12.5	7.9	10.2	100.0

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 Tables 5a through 5g - Age Distribution by Pathogen by Site

Table 5a: Site = California		Age Specific Strata									Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	UNKNWN	
Pathogen											
CAMPYLOBACTER	Cases	30	134	53	156	155	123	56	82	-	789
	Percent	3.8	17.0	6.7	19.8	19.6	15.6	7.1	10.4	-	100.0
CRYPTOSPORIDIUM	Cases	2	10	6	17	51	42	19	6	-	153
	Percent	1.3	6.5	3.9	11.1	33.3	27.5	12.4	3.9	-	100.0
CYCLOSPORA	Cases	-	-	-	-	1	-	-	-	-	1
	Percent	-	-	-	-	100.0	-	-	-	-	100.0
E. COLI 0157	Cases	-	14	6	1	4	2	3	5	-	35
	Percent	-	40.0	17.1	2.9	11.4	5.7	8.6	14.3	-	100.0
LISTERIA	Cases	-	-	-	1	2	-	-	8	-	11
	Percent	-	-	-	9.1	18.2	-	-	72.7	-	100.0
SALMONELLA	Cases	44	74	25	56	37	36	22	35	-	329
	Percent	13.4	22.5	7.6	17.0	11.2	10.9	6.7	10.6	-	100.0
SHIGELLA	Cases	1	71	17	34	59	33	14	7	-	236
	Percent	0.4	30.1	7.2	14.4	25.0	14.0	5.9	3.0	-	100.0
VIBRIO	Cases	-	-	-	1	5	2	-	2	-	10
	Percent	-	-	-	10.0	50.0	20.0	-	20.0	-	100.0
YERSINIA	Cases	7	13	1	2	3	3	3	1	-	33
	Percent	21.2	39.4	3.0	6.1	9.1	9.1	9.1	3.0	-	100.0
Total	Cases	84	316	108	268	317	241	117	146	-	1597
	Percent	5.3	19.8	6.8	16.8	19.8	15.1	7.3	9.1	-	100.0

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 Tables 5a through 5g - Age Distribution by Pathogen by Site

Table 5b: Site = Connecticut		Age Specific Strata									Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	UNKNWN	
Pathogen											
CAMPYLOBACTER	Cases	15	56	46	103	105	114	76	88	-	603
	Percent	2.5	9.3	7.6	17.1	17.4	18.9	12.6	14.6	-	100.0
CRYPTOSPORIDIUM	Cases	3	11	6	2	8	6	4	3	-	43
	Percent	7.0	25.6	14.0	4.7	18.6	14.0	9.3	7.0	-	100.0
CYCLOSPORA	Cases	1	1	-	-	-	3	1	-	-	6
	Percent	16.7	16.7	-	-	-	50.0	16.7	-	-	100.0
E. COLI 0157	Cases	1	20	7	4	1	7	5	13	-	58
	Percent	1.7	34.5	12.1	6.9	1.7	12.1	8.6	22.4	-	100.0
LISTERIA	Cases	-	-	-	1	2	-	5	21	-	29
	Percent	-	-	-	3.4	6.9	-	17.2	72.4	-	100.0
SALMONELLA	Cases	39	123	61	57	61	41	43	60	1	486
	Percent	8.0	25.3	12.6	11.7	12.6	8.4	8.8	12.3	0.2	100.0
SHIGELLA	Cases	1	19	2	9	17	6	12	6	-	72
	Percent	1.4	26.4	2.8	12.5	23.6	8.3	16.7	8.3	-	100.0
VIBRIO	Cases	-	-	-	-	-	3	-	3	-	6
	Percent	-	-	-	-	-	50.0	-	50.0	-	100.0
YERSINIA	Cases	2	5	1	3	1	2	3	5	-	22
	Percent	9.1	22.7	4.5	13.6	4.5	9.1	13.6	22.7	-	100.0
Total	Cases	62	235	123	179	195	182	149	199	1	1325
	Percent	4.7	17.7	9.3	13.5	14.7	13.7	11.2	15.0	0.1	100.0

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 Tables 5a through 5g - Age Distribution by Pathogen by Site

Table 5c: Site = Georgia		Age Specific Strata									Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	UNKNWN	
Pathogen											
CAMPYLOBACTER	Cases	21	52	28	98	133	74	34	28	-	468
	Percent	4.5	11.1	6.0	20.9	28.4	15.8	7.3	6.0	-	100.0
CRYPTOSPORIDIUM	Cases	1	19	1	12	41	14	2	3	-	93
	Percent	1.1	20.4	1.1	12.9	44.1	15.1	2.2	3.2	-	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-	-
E. COLI 0157	Cases	1	33	11	1	2	1	-	2	-	51
	Percent	2.0	64.7	21.6	2.0	3.9	2.0	-	3.9	-	100.0
LISTERIA	Cases	6	1	1	2	1	2	1	5	-	19
	Percent	31.6	5.3	5.3	10.5	5.3	10.5	5.3	26.3	-	100.0
SALMONELLA	Cases	115	173	50	39	42	34	24	28	-	505
	Percent	22.8	34.3	9.9	7.7	8.3	6.7	4.8	5.5	-	100.0
SHIGELLA	Cases	16	339	43	77	66	25	13	5	1	585
	Percent	2.7	57.9	7.4	13.2	11.3	4.3	2.2	0.9	0.2	100.0
VIBRIO	Cases	-	1	-	2	6	4	3	1	-	17
	Percent	-	5.9	-	11.8	35.3	23.5	17.6	5.9	-	100.0
YERSINIA	Cases	36	10	2	2	2	2	2	1	-	57
	Percent	63.2	17.5	3.5	3.5	3.5	3.5	3.5	1.8	-	100.0
Total	Cases	196	628	136	233	293	156	79	73	1	1795
	Percent	10.9	35.0	7.6	13.0	16.3	8.7	4.4	4.1	0.1	100.0

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Table 5d: Site = Maryland		Age Specific Strata									Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	UNKNWN	
Pathogen											
CAMPYLOBACTER	Cases	12	34	16	39	46	43	17	38	1	246
	Percent	4.9	13.8	6.5	15.9	18.7	17.5	6.9	15.4	0.4	100.0
CRYPTOSPORIDIUM	Cases	-	1	-	4	6	2	-	-	-	13
	Percent	-	7.7	-	30.8	46.2	15.4	-	-	-	100.0
CYCLOSPORA	Cases	-	-	-	-	-	1	-	-	-	1
	Percent	-	-	-	-	-	100.0	-	-	-	100.0
E. COLI 0157	Cases	-	6	7	4	3	1	1	2	-	24
	Percent	-	25.0	29.2	16.7	12.5	4.2	4.2	8.3	-	100.0
LISTERIA	Cases	-	-	-	1	-	1	2	7	-	11
	Percent	-	-	-	9.1	-	9.1	18.2	63.6	-	100.0
SALMONELLA	Cases	53	115	61	48	47	44	25	44	1	438
	Percent	12.1	26.3	13.9	11.0	10.7	10.0	5.7	10.0	0.2	100.0
SHIGELLA	Cases	-	15	9	8	11	5	5	3	-	56
	Percent	-	26.8	16.1	14.3	19.6	8.9	8.9	5.4	-	100.0
VIBRIO	Cases	-	-	-	-	1	1	1	3	-	6
	Percent	-	-	-	-	16.7	16.7	16.7	50.0	-	100.0
YERSINIA	Cases	7	2	-	-	-	2	-	3	-	14
	Percent	50.0	14.3	-	-	-	14.3	-	21.4	-	100.0
Total	Cases	72	173	93	104	114	100	51	100	2	809
	Percent	8.9	21.4	11.5	12.9	14.1	12.4	6.3	12.4	0.2	100.0

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Tables 5a through 5g - Age Distribution by Pathogen by Site

Table 5e: Site = Minnesota		Age Specific Strata									Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	UNKNWN	
Pathogen											
CAMPYLOBACTER	Cases	37	177	85	168	162	138	116	120	1	1004
	Percent	3.7	17.6	8.5	16.7	16.1	13.7	11.6	12.0	0.1	100.0
CRYPTOSPORIDIUM	Cases	4	78	29	19	22	8	6	7	-	173
	Percent	2.3	45.1	16.8	11.0	12.7	4.6	3.5	4.0	-	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-	-
E. COLI 0157	Cases	15	98	32	24	8	12	4	16	-	209
	Percent	7.2	46.9	15.3	11.5	3.8	5.7	1.9	7.7	-	100.0
LISTERIA	Cases	1	-	1	1	3	1	3	8	-	18
	Percent	5.6	-	5.6	5.6	16.7	5.6	16.7	44.4	-	100.0
SALMONELLA	Cases	62	126	79	81	76	69	28	60	-	581
	Percent	10.7	21.7	13.6	13.9	13.1	11.9	4.8	10.3	-	100.0
SHIGELLA	Cases	7	62	30	40	68	59	37	21	3	327
	Percent	2.1	19.0	9.2	12.2	20.8	18.0	11.3	6.4	0.9	100.0
VIBRIO	Cases	-	-	-	-	-	1	-	1	-	2
	Percent	-	-	-	-	-	50.0	-	50.0	-	100.0
YERSINIA	Cases	2	2	5	3	7	8	2	6	-	35
	Percent	5.7	5.7	14.3	8.6	20.0	22.9	5.7	17.1	-	100.0
Total	Cases	128	543	261	336	346	296	196	239	4	2349
	Percent	5.4	23.1	11.1	14.3	14.7	12.6	8.3	10.2	0.2	100.0

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Table 5f: Site = New York		Age Specific Strata									Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	UNKNWN	
Pathogen											
CAMPYLOBACTER	Cases	4	24	18	28	50	43	21	33	1	222
	Percent	1.8	10.8	8.1	12.6	22.5	19.4	9.5	14.9	0.5	100.0
CRYPTOSPORIDIUM	Cases	1	5	1	2	5	4	-	4	-	22
	Percent	4.5	22.7	4.5	9.1	22.7	18.2	-	18.2	-	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-	-
E. COLI 0157	Cases	-	5	7	1	1	-	2	6	-	22
	Percent	-	22.7	31.8	4.5	4.5	-	9.1	27.3	-	100.0
LISTERIA	Cases	-	-	-	-	2	2	1	3	-	8
	Percent	-	-	-	-	25.0	25.0	12.5	37.5	-	100.0
SALMONELLA	Cases	11	34	17	25	36	26	18	34	-	201
	Percent	5.5	16.9	8.5	12.4	17.9	12.9	9.0	16.9	-	100.0
SHIGELLA	Cases	2	15	5	11	5	3	5	2	-	48
	Percent	4.2	31.3	10.4	22.9	10.4	6.3	10.4	4.2	-	100.0
VIBRIO	Cases	-	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-	-
YERSINIA	Cases	1	-	-	-	1	2	1	-	-	5
	Percent	20.0	-	-	-	20.0	40.0	20.0	-	-	100.0
Total	Cases	19	83	48	67	100	80	48	82	1	528
	Percent	3.6	15.7	9.1	12.7	18.9	15.2	9.1	15.5	0.2	100.0

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 Tables 5a through 5g - Age Distribution by Pathogen by Site

Table 5g: Site = Oregon		Age Specific Strata									Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	UNKNWN	
Pathogen											
CAMPYLOBACTER	Cases	22	102	59	121	125	97	76	91	-	693
	Percent	3.2	14.7	8.5	17.5	18.0	14.0	11.0	13.1	-	100.0
CRYPTOSPORIDIUM	Cases	1	14	11	9	16	10	5	3	-	69
	Percent	1.4	20.3	15.9	13.0	23.2	14.5	7.2	4.3	-	100.0
CYCLOSPORA	Cases	-	-	-	-	-	1	-	-	-	1
	Percent	-	-	-	-	-	100.0	-	-	-	100.0
E. COLI 0157	Cases	-	38	18	11	8	6	7	13	-	101
	Percent	-	37.6	17.8	10.9	7.9	5.9	6.9	12.9	-	100.0
LISTERIA	Cases	3	-	-	-	3	-	1	9	-	16
	Percent	18.8	-	-	-	18.8	-	6.3	56.3	-	100.0
SALMONELLA	Cases	30	65	29	50	42	31	28	24	-	299
	Percent	10.0	21.7	9.7	16.7	14.0	10.4	9.4	8.0	-	100.0
SHIGELLA	Cases	1	62	20	21	19	12	12	9	-	156
	Percent	0.6	39.7	12.8	13.5	12.2	7.7	7.7	5.8	-	100.0
VIBRIO	Cases	-	-	-	-	2	4	1	2	-	9
	Percent	-	-	-	-	22.2	44.4	11.1	22.2	-	100.0
YERSINIA	Cases	1	6	1	-	2	2	-	3	-	15
	Percent	6.7	40.0	6.7	-	13.3	13.3	-	20.0	-	100.0
Total	Cases	58	287	138	212	217	163	130	154	-	1359
	Percent	4.3	21.1	10.2	15.6	16.0	12.0	9.6	11.3	-	100.0

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Table 6 - Cases per 100,000 by Age Distribution by Pathogen for All Sites

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	50.4	22.2	10.5	26.1	22.0	19.2	18.2	14.9
CRYPTOSPORIDIUM	3.5	4.4	1.6	2.0	3.5	2.1	1.4	0.7
CYCLOSPORA	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0
E. COLI O157	6.1	8.2	3.0	1.7	0.8	0.9	1.0	1.8
LISTERIA	3.6	0.0	0.1	0.2	0.4	0.2	0.6	1.9
SALMONELLA	126.4	27.2	11.1	13.0	9.7	8.5	8.6	8.8
SHIGELLA	10.0	22.4	4.4	7.3	7.0	4.3	4.5	1.6
VIBRIO	0.0	0.0	0.0	0.1	0.4	0.5	0.2	0.4
YERSINIA	20.0	1.5	0.3	0.4	0.5	0.6	0.5	0.6

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Tables 6a through 6g - Cases per 100,000 by Age Distribution by Pathogen by Site

Table 6a: Site = California

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	113.0	54.4	20.8	48.9	39.3	35.2	26.1	24.1
CRYPTOSPORIDIUM	2.3	1.2	0.7	1.9	4.4	3.9	2.9	0.6
CYCLOSPORA	-	-	-	-	0.1	-	-	-
E. COLI O157	-	5.7	2.4	0.3	1.0	0.6	1.4	1.5
LISTERIA	-	-	-	0.3	0.5	-	-	2.3
SALMONELLA	165.7	30.1	9.8	17.6	9.4	10.3	10.2	10.3
SHIGELLA	3.8	28.8	6.7	10.7	15.0	9.4	6.5	2.1
VIBRIO	-	-	-	0.3	1.3	0.6	-	0.6
YERSINIA	26.4	5.3	0.4	0.6	0.8	0.9	1.4	0.3

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Tables 6a through 6g - Cases per 100,000 by Age Distribution by Pathogen by Site

Table 6b: Site = Connecticut

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	35.8	14.0	10.7	26.4	18.9	22.4	21.1	14.9
CRYPTOSPORIDIUM	7.2	2.8	1.4	0.5	1.4	1.2	1.1	0.5
CYCLOSPORA	2.4	0.3	-	-	-	0.6	0.3	-
E. COLI O157	2.4	5.0	1.6	1.0	0.2	1.4	1.4	2.2
LISTERIA	-	-	-	0.3	0.4	-	1.4	3.6
SALMONELLA	93.0	30.8	14.3	14.6	11.0	8.1	11.9	10.1
SHIGELLA	2.4	4.8	0.5	2.3	3.1	1.2	3.3	1.0
VIBRIO	-	-	-	-	-	0.6	-	0.5
YERSINIA	4.8	1.3	0.2	0.8	0.2	0.4	0.8	0.8

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Tables 6a through 6g - Cases per 100,000 by Age Distribution by Pathogen by Site

Table 6c: Site = Georgia

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	36.2	10.4	5.4	17.3	18.7	12.0	9.1	6.9
CRYPTOSPORIDIUM	1.7	3.8	0.2	2.1	5.8	2.3	0.5	0.7
CYCLOSPORA	-	-	-	-	-	-	-	-
E. COLI O157	1.7	6.6	2.1	0.2	0.3	0.2	-	0.5
LISTERIA	10.4	0.2	0.2	0.4	0.1	0.3	0.3	1.2
SALMONELLA	198.5	34.6	9.7	6.9	5.9	5.5	6.4	6.9
SHIGELLA	27.6	67.7	8.4	13.6	9.3	4.1	3.5	1.2
VIBRIO	-	0.2	-	0.4	0.8	0.7	0.8	0.2
YERSINIA	62.1	2.0	0.4	0.4	0.3	0.3	0.5	0.2

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Tables 6a through 6g - Cases per 100,000 by Age Distribution by Pathogen by Site

Table 6d: Site = Maryland

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	37.6	11.0	4.9	12.9	10.5	11.2	6.5	9.8
CRYPTOSPORIDIUM	-	0.3	-	1.3	1.4	0.5	-	-
CYCLOSPORA	-	-	-	-	-	0.3	-	-
E. COLI O157	-	1.9	2.1	1.3	0.7	0.3	0.4	0.5
LISTERIA	-	-	-	0.3	-	0.3	0.8	1.8
SALMONELLA	166.1	37.2	18.6	15.9	10.8	11.5	9.5	11.3
SHIGELLA	-	4.8	2.7	2.6	2.5	1.3	1.9	0.8
VIBRIO	-	-	-	-	0.2	0.3	0.4	0.8
YERSINIA	21.9	0.6	-	-	-	0.5	-	0.8

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Tables 6a through 6g - Cases per 100,000 by Age Distribution by Pathogen by Site

Table 6e: Site = Minnesota

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	58.4	29.6	11.5	28.1	21.2	18.9	24.3	15.9
CRYPTOSPORIDIUM	6.3	13.0	3.9	3.2	2.9	1.1	1.3	0.9
CYCLOSPORA	-	-	-	-	-	-	-	-
E. COLI O157	23.7	16.4	4.3	4.0	1.0	1.6	0.8	2.1
LISTERIA	1.6	-	0.1	0.2	0.4	0.1	0.6	1.1
SALMONELLA	97.9	21.1	10.7	13.5	10.0	9.4	5.9	8.0
SHIGELLA	11.0	10.4	4.1	6.7	8.9	8.1	7.7	2.8
VIBRIO	-	-	-	-	-	0.1	-	0.1
YERSINIA	3.2	0.3	0.7	0.5	0.9	1.1	0.4	0.8

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Tables 6a through 6g - Cases per 100,000 by Age Distribution by Pathogen by Site

Table 6f: Site = New York

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	26.3	15.6	11.9	19.7	27.4	25.6	18.5	18.2
CRYPTOSPORIDIUM	6.6	3.3	0.7	1.4	2.7	2.4	-	2.2
CYCLOSPORA	-	-	-	-	-	-	-	-
E. COLI O157	-	3.3	4.6	0.7	0.5	-	1.8	3.3
LISTERIA	-	-	-	-	1.1	1.2	0.9	1.7
SALMONELLA	72.4	22.2	11.3	17.6	19.7	15.5	15.9	18.8
SHIGELLA	13.2	9.8	3.3	7.7	2.7	1.8	4.4	1.1
VIBRIO	-	-	-	-	-	-	-	-
YERSINIA	6.6	-	-	-	0.5	1.2	0.9	-

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Tables 6a through 6g - Cases per 100,000 by Age Distribution by Pathogen by Site

Table 6g: Site = Oregon

Cases per 100,000	Age Specific Strata							
	0 - <1 YR	1 - <10 YRS	10 - <20 YRS	20 - <30 YRS	30 - <40 YRS	40 - <50 YRS	50 - <60 YRS	60+ YRS
Pathogen								
CAMPYLOBACTER	51.0	25.5	12.4	29.2	26.0	18.1	20.4	16.2
CRYPTOSPORIDIUM	2.3	3.5	2.3	2.2	3.3	1.9	1.3	0.5
CYCLOSPORA	-	-	-	-	-	0.2	-	-
E. COLI O157	-	9.5	3.8	2.7	1.7	1.1	1.9	2.3
LISTERIA	7.0	-	-	-	0.6	-	0.3	1.6
SALMONELLA	69.6	16.3	6.1	12.1	8.7	5.8	7.5	4.3
SHIGELLA	2.3	15.5	4.2	5.1	4.0	2.2	3.2	1.6
VIBRIO	-	-	-	-	0.4	0.7	0.3	0.4
YERSINIA	2.3	1.5	0.2	-	0.4	0.4	-	0.5

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Table 7 - Sex Distribution by Pathogen for All Sites

		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	Cases	2233	1788 4021
CRYPTOSPORIDIUM	Percent	55.5	44.5	100.0
	Cases	331	235	566
CYCLOSPORA	Percent	58.5	41.5	100.0
	Cases	5	4	9
E. COLI O157	Percent	55.6	44.4	100.0
	Cases	244	255	499
LISTERIA	Percent	48.9	51.1	100.0
	Cases	62	50	112
SALMONELLA	Percent	55.4	44.6	100.0
	Cases	1402	1435	2837
SHIGELLA	Percent	49.4	50.6	100.0
	Cases	728	748	1476
VIBRIO	Percent	49.3	50.7	100.0
	Cases	33	17	50
YERSINIA	Percent	66.0	34.0	100.0
	Cases	96	85	181
Total	Percent	53.0	47.0	100.0
	Cases	5134	4617	9751
		52.7	47.3	100.0

There are 11 cases where sex is unknown.
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 Tables 7a through 7g - Sex Distribution by Pathogen by Site

Table 7a: Site = California		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	477	308	785
CRYPTOSPORIDIUM	Percent	60.8	39.2	100.0
	Cases	94	59	153
CYCLOSPORA	Percent	61.4	38.6	100.0
	Cases	1	0	1
E. COLI 0157	Percent	100.0	0	100.0
	Cases	17	18	35
LISTERIA	Percent	48.6	51.4	100.0
	Cases	5	6	11
SALMONELLA	Percent	45.5	54.5	100.0
	Cases	169	159	328
SHIGELLA	Percent	51.5	48.5	100.0
	Cases	132	102	234
VIBRIO	Percent	56.4	43.6	100.0
	Cases	7	3	10
YERSINIA	Percent	70.0	30.0	100.0
	Cases	21	12	33
Total	Percent	63.6	36.4	100.0
	Cases	923	667	1590

There are 7 cases where sex is unknown.
 CDC's Emerging Infections Program (FoodNet)
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 Tables 7a through 7g - Sex Distribution by Pathogen by Site

Table 7b: Site = Connecticut		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	319	284	603
CRYPTOSPORIDIUM	Percent	52.9	47.1	100.0
	Cases	28	15	43
CYCLOSPORA	Percent	65.1	34.9	100.0
	Cases	3	3	6
E. COLI O157	Percent	50.0	50.0	100.0
	Cases	29	29	58
LISTERIA	Percent	79.3	20.7	100.0
	Cases	23	6	29
SALMONELLA	Percent	47.9	52.1	100.0
	Cases	233	253	486
SHIGELLA	Percent	48.6	51.4	100.0
	Cases	35	37	72
VIBRIO	Percent	50.0	50.0	100.0
	Cases	3	3	6
YERSINIA	Percent	27.3	72.7	100.0
	Cases	6	16	22
Total	Percent	51.2	48.8	100.0
	Cases	679	646	1325

There are no cases where sex is unknown.
 CDC's Emerging Infections Program (FoodNet)
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 Tables 7a through 7g - Sex Distribution by Pathogen by Site

Table 7c: Site = Georgia		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	256	212	468
CRYPTOSPORIDIUM	Percent	54.7	45.3	100.0
	Cases	68	25	93
E. COLI O157	Percent	73.1	26.9	100.0
	Cases	31	19	50
LISTERIA	Percent	62.0	38.0	100.0
	Cases	8	11	19
SALMONELLA	Percent	42.1	57.9	100.0
	Cases	269	235	504
SHIGELLA	Percent	53.4	46.6	100.0
	Cases	293	291	584
VIBRIO	Percent	50.2	49.8	100.0
	Cases	12	5	17
YERSINIA	Percent	70.6	29.4	100.0
	Cases	37	20	57
Total	Percent	64.9	35.1	100.0
	Cases	974	818	1792
		54.4	45.6	100.0

There are 3 cases where sex is unknown.
 CDC's Emerging Infections Program (FoodNet)
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 Tables 7a through 7g - Sex Distribution by Pathogen by Site

Table 7d: Site = Maryland		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	132	114	246
CRYPTOSPORIDIUM	Percent	53.7	46.3	100.0
	Cases	8	5	13
CYCLOSPORA	Percent	61.5	38.5	100.0
	Cases	0	1	1
E. COLI 0157	Percent	0	100.0	100.0
	Cases	12	12	24
LISTERIA	Percent	50.0	50.0	100.0
	Cases	5	6	11
SALMONELLA	Percent	45.5	54.5	100.0
	Cases	229	209	438
SHIGELLA	Percent	52.3	47.7	100.0
	Cases	34	22	56
VIBRIO	Percent	60.7	39.3	100.0
	Cases	4	2	6
YERSINIA	Percent	66.7	33.3	100.0
	Cases	6	8	14
Total	Percent	42.9	57.1	100.0
	Cases	430	379	809

There are no cases where sex is unknown.
 CDC's Emerging Infections Program (FoodNet)
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 Tables 7a through 7g - Sex Distribution by Pathogen by Site

Table 7e: Site = Minnesota		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	541	463	1004
CRYPTOSPORIDIUM	Percent	53.9	46.1	100.0
	Cases	92	81	173
E. COLI O157	Percent	53.2	46.8	100.0
	Cases	102	107	209
LISTERIA	Percent	48.8	51.2	100.0
	Cases	8	10	18
SALMONELLA	Percent	44.4	55.6	100.0
	Cases	276	305	581
SHIGELLA	Percent	47.5	52.5	100.0
	Cases	147	180	327
VIBRIO	Percent	45.0	55.0	100.0
	Cases	1	1	2
YERSINIA	Percent	50.0	50.0	100.0
	Cases	14	21	35
Total	Percent	40.0	60.0	100.0
	Cases	1181	1168	2349
		50.3	49.7	100.0

There are no cases where sex is unknown.
 CDC's Emerging Infections Program (FoodNet)
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 Tables 7a through 7g - Sex Distribution by Pathogen by Site

Table 7f: Site = New York		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	124	98	222
CRYPTOSPORIDIUM	Percent	55.9	44.1	100.0
	Cases	10	12	22
E. COLI O157	Percent	45.5	54.5	100.0
	Cases	8	14	22
LISTERIA	Percent	36.4	63.6	100.0
	Cases	3	5	8
SALMONELLA	Percent	37.5	62.5	100.0
	Cases	93	108	201
SHIGELLA	Percent	46.3	53.7	100.0
	Cases	19	29	48
YERSINIA	Percent	39.6	60.4	100.0
	Cases	3	2	5
Total	Percent	60.0	40.0	100.0
	Cases	260	268	528
		49.2	50.8	100.0

There are no cases where sex is unknown.
 CDC's Emerging Infections Program (FoodNet)
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 Tables 7a through 7g - Sex Distribution by Pathogen by Site

Table 7g: Site = Oregon		Sex		Total
		M	F	
Pathogen				
	CAMPYLOBACTER	384	309	693
CRYPTOSPORIDIUM	Percent	55.4	44.6	100.0
	Cases	31	38	69
CYCLOSPORA	Percent	44.9	55.1	100.0
	Cases	1	0	1
E. COLI O157	Percent	100.0	0	100.0
	Cases	45	56	101
LISTERIA	Percent	44.6	55.4	100.0
	Cases	10	6	16
SALMONELLA	Percent	62.5	37.5	100.0
	Cases	133	166	299
SHIGELLA	Percent	44.5	55.5	100.0
	Cases	68	87	155
VIBRIO	Percent	43.9	56.1	100.0
	Cases	6	3	9
YERSINIA	Percent	66.7	33.3	100.0
	Cases	9	6	15
Total	Percent	60.0	40.0	100.0
	Cases	687	671	1358

There is 1 case where sex is unknown.
 CDC's Emerging Infections Program (FoodNet)
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 Table 8 - Race by Pathogen for All Sites

		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	232	181	25	2394	1193	4025
	Percent	5.8	4.5	0.6	59.5	29.6	100.0
CRYPTOSPORIDIUM	Cases	7	66	2	305	186	566
	Percent	1.2	11.7	0.4	53.9	32.9	100.0
CYCLOSPORA	Cases	1	1	0	7	0	9
	Percent	11.1	11.1	0	77.8	0	100.0
E. COLI O157	Cases	9	17	1	325	148	500
	Percent	1.8	3.4	0.2	65.0	29.6	100.0
LISTERIA	Cases	4	11	2	73	22	112
	Percent	3.6	9.8	1.8	65.2	19.6	100.0
SALMONELLA	Cases	130	322	19	1305	1063	2839
	Percent	4.6	11.3	0.7	46.0	37.4	100.0
SHIGELLA	Cases	21	290	6	542	621	1480
	Percent	1.4	19.6	0.4	36.6	42.0	100.0
YERSINIA	Cases	15	63	0	53	50	181
	Percent	8.3	34.8	0	29.3	27.6	100.0
VIBRIO	Cases	0	5	0	29	16	50
	Percent	0	10.0	0	58.0	32.0	100.0
Total	Cases	419	956	55	5033	3299	9762
	Percent	4.3	9.8	0.6	51.6	33.8	100.0

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 Tables 8a through 8g - Race by Pathogen by Site

Table 8a: Site = California		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	156	36	5	373	219	789
	Percent	19.8	4.6	0.6	47.3	27.8	100.0
CRYPTOSPORIDIUM	Cases	4	8	2	111	28	153
	Percent	2.6	5.2	1.3	72.5	18.3	100.0
CYCLOSPORA	Cases	-	-	-	1	-	1
	Percent	-	-	-	100.0	-	100.0
E. COLI 0157	Cases	5	3	-	24	3	35
	Percent	14.3	8.6	-	68.6	8.6	100.0
LISTERIA	Cases	2	2	-	7	-	11
	Percent	18.2	18.2	-	63.6	-	100.0
SALMONELLA	Cases	73	22	-	129	105	329
	Percent	22.2	6.7	-	39.2	31.9	100.0
SHIGELLA	Cases	12	12	2	132	78	236
	Percent	5.1	5.1	0.8	55.9	33.1	100.0
VIBRIO	Cases	-	1	-	5	4	10
	Percent	-	10.0	-	50.0	40.0	100.0
YERSINIA	Cases	10	4	-	11	8	33
	Percent	30.3	12.1	-	33.3	24.2	100.0
Total	Cases	262	88	9	793	445	1597
	Percent	16.4	5.5	0.6	49.7	27.9	100.0

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Tables 8a through 8g - Race by Pathogen by Site

Table 8b: Site = Connecticut		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	20	24	1	402	156	603
	Percent	3.3	4.0	0.2	66.7	25.9	100.0
CRYPTOSPORIDIUM	Cases	2	4	-	33	4	43
	Percent	4.7	9.3	-	76.7	9.3	100.0
CYCLOSPORA	Cases	1	1	-	4	-	6
	Percent	16.7	16.7	-	66.7	-	100.0
E. COLI 0157	Cases	-	3	-	54	1	58
	Percent	-	5.2	-	93.1	1.7	100.0
LISTERIA	Cases	1	1	-	22	5	29
	Percent	3.4	3.4	-	75.9	17.2	100.0
SALMONELLA	Cases	11	17	2	149	307	486
	Percent	2.3	3.5	0.4	30.7	63.2	100.0
SHIGELLA	Cases	-	4	-	15	53	72
	Percent	-	5.6	-	20.8	73.6	100.0
VIBRIO	Cases	-	-	-	3	3	6
	Percent	-	-	-	50.0	50.0	100.0
YERSINIA	Cases	1	5	-	6	10	22
	Percent	4.5	22.7	-	27.3	45.5	100.0
Total	Cases	36	59	3	688	539	1325
	Percent	2.7	4.5	0.2	51.9	40.7	100.0

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 Tables 8a through 8g - Race by Pathogen by Site

Table 8c: Site = Georgia		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	8	60	-	318	82	468
	Percent	1.7	12.8	-	67.9	17.5	100.0
CRYPTOSPORIDIUM	Cases	-	46	-	32	15	93
	Percent	-	49.5	-	34.4	16.1	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-
	Percent	-	-	-	-	-	-
E. COLI 0157	Cases	-	4	-	43	4	51
	Percent	-	7.8	-	84.3	7.8	100.0
LISTERIA	Cases	-	6	1	8	4	19
	Percent	-	31.6	5.3	42.1	21.1	100.0
SALMONELLA	Cases	18	129	-	246	112	505
	Percent	3.6	25.5	-	48.7	22.2	100.0
SHIGELLA	Cases	2	239	1	160	183	585
	Percent	0.3	40.9	0.2	27.4	31.3	100.0
VIBRIO	Cases	-	4	-	10	3	17
	Percent	-	23.5	-	58.8	17.6	100.0
YERSINIA	Cases	1	46	-	5	5	57
	Percent	1.8	80.7	-	8.8	8.8	100.0
Total	Cases	29	534	2	822	408	1795
	Percent	1.6	29.7	0.1	45.8	22.7	100.0

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 Tables 8a through 8g - Race by Pathogen by Site

Table 8d: Site = Maryland		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	3	35	-	169	39	246
	Percent	1.2	14.2	-	68.7	15.9	100.0
CRYPTOSPORIDIUM	Cases	-	4	-	6	3	13
	Percent	-	30.8	-	46.2	23.1	100.0
CYCLOSPORA	Cases	-	-	-	1	-	1
	Percent	-	-	-	100.0	-	100.0
E. COLI 0157	Cases	-	4	-	13	7	24
	Percent	-	16.7	-	54.2	29.2	100.0
LISTERIA	Cases	1	-	-	10	-	11
	Percent	9.1	-	-	90.9	-	100.0
SALMONELLA	Cases	10	136	1	189	102	438
	Percent	2.3	31.1	0.2	43.2	23.3	100.0
SHIGELLA	Cases	2	18	-	26	10	56
	Percent	3.6	32.1	-	46.4	17.9	100.0
VIBRIO	Cases	-	-	-	4	2	6
	Percent	-	-	-	66.7	33.3	100.0
YERSINIA	Cases	1	7	-	1	5	14
	Percent	7.1	50.0	-	7.1	35.7	100.0
Total	Cases	17	204	1	419	168	809
	Percent	2.1	25.2	0.1	51.8	20.8	100.0

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 Tables 8a through 8g - Race by Pathogen by Site

Table 8e: Site = Minnesota		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	20	11	9	484	480	1004
	Percent	2.0	1.1	0.9	48.2	47.8	100.0
CRYPTOSPORIDIUM	Cases	-	1	-	76	96	173
	Percent	-	0.6	-	43.9	55.5	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-
	Percent	-	-	-	-	-	-
E. COLI 0157	Cases	-	1	-	89	119	209
	Percent	-	0.5	-	42.6	56.9	100.0
LISTERIA	Cases	-	1	-	8	9	18
	Percent	-	5.6	-	44.4	50.0	100.0
SALMONELLA	Cases	8	6	5	195	367	581
	Percent	1.4	1.0	0.9	33.6	63.2	100.0
SHIGELLA	Cases	1	2	2	79	243	327
	Percent	0.3	0.6	0.6	24.2	74.3	100.0
VIBRIO	Cases	-	-	-	-	2	2
	Percent	-	-	-	-	100.0	100.0
YERSINIA	Cases	-	1	-	18	16	35
	Percent	-	2.9	-	51.4	45.7	100.0
Total	Cases	29	23	16	949	1332	2349
	Percent	1.2	1.0	0.7	40.4	56.7	100.0

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Tables 8a through 8g - Race by Pathogen by Site

Table 8f: Site = New York		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	5	10	-	191	16	222
	Percent	2.3	4.5	-	86.0	7.2	100.0
CRYPTOSPORIDIUM	Cases	1	2	-	19	-	22
	Percent	4.5	9.1	-	86.4	-	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-
	Percent	-	-	-	-	-	-
E. COLI 0157	Cases	2	1	-	18	1	22
	Percent	9.1	4.5	-	81.8	4.5	100.0
LISTERIA	Cases	-	1	-	7	-	8
	Percent	-	12.5	-	87.5	-	100.0
SALMONELLA	Cases	3	11	-	170	17	201
	Percent	1.5	5.5	-	84.6	8.5	100.0
SHIGELLA	Cases	1	11	-	30	6	48
	Percent	2.1	22.9	-	62.5	12.5	100.0
VIBRIO	Cases	-	-	-	-	-	-
	Percent	-	-	-	-	-	-
YERSINIA	Cases	-	-	-	4	1	5
	Percent	-	-	-	80.0	20.0	100.0
Total	Cases	12	36	-	439	41	528
	Percent	2.3	6.8	-	83.1	7.8	100.0

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 Tables 8a through 8g - Race by Pathogen by Site

Table 8g: Site = Oregon		Race Category					Total
		ASIAN	BLACK	NATIVE AMERICAN	WHITE	UNKNOWN	
Pathogen							
CAMPYLOBACTER	Cases	20	5	10	457	201	693
	Percent	2.9	0.7	1.4	65.9	29.0	100.0
CRYPTOSPORIDIUM	Cases	-	1	-	28	40	69
	Percent	-	1.4	-	40.6	58.0	100.0
CYCLOSPORA	Cases	-	-	-	1	-	1
	Percent	-	-	-	100.0	-	100.0
E. COLI 0157	Cases	2	1	1	84	13	101
	Percent	2.0	1.0	1.0	83.2	12.9	100.0
LISTERIA	Cases	-	-	1	11	4	16
	Percent	-	-	6.3	68.8	25.0	100.0
SALMONELLA	Cases	7	1	11	227	53	299
	Percent	2.3	0.3	3.7	75.9	17.7	100.0
SHIGELLA	Cases	3	4	1	100	48	156
	Percent	1.9	2.6	0.6	64.1	30.8	100.0
VIBRIO	Cases	-	-	-	7	2	9
	Percent	-	-	-	77.8	22.2	100.0
YERSINIA	Cases	2	-	-	8	5	15
	Percent	13.3	-	-	53.3	33.3	100.0
Total	Cases	34	12	24	923	366	1359
	Percent	2.5	0.9	1.8	67.9	26.9	100.0

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 Table 9 - Ethnicity by Pathogen for All Sites

		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	213	2269	1543	4025
	Percent	5.3	56.4	38.3	100.0
CRYPTOSPORIDIUM	Cases	30	255	281	566
	Percent	5.3	45.1	49.6	100.0
CYCLOSPORA	Cases	0	7	2	9
	Percent	0	77.8	22.2	100.0
E. COLI 0157	Cases	11	226	263	500
	Percent	2.2	45.2	52.6	100.0
LISTERIA	Cases	12	50	50	112
	Percent	10.7	44.6	44.6	100.0
SALMONELLA	Cases	139	1071	1629	2839
	Percent	4.9	37.7	57.4	100.0
SHIGELLA	Cases	177	363	940	1480
	Percent	12.0	24.5	63.5	100.0
VIBRIO	Cases	4	18	28	50
	Percent	8.0	36.0	56.0	100.0
YERSINIA	Cases	11	49	121	181
	Percent	6.1	27.1	66.9	100.0
Total	Cases	597	4308	4857	9762
	Percent	6.1	44.1	49.8	100.0

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 Tables 9a through 9g - Ethnicity by Pathogen by Site

Table 9a: Site = California		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	86	439	264	789
	Percent	10.9	55.6	33.5	100.0
CRYPTOSPORIDIUM	Cases	15	104	34	153
	Percent	9.8	68.0	22.2	100.0
CYCLOSPORA	Cases	-	-	1	1
	Percent	-	-	100.0	100.0
E. COLI O157	Cases	2	31	2	35
	Percent	5.7	88.6	5.7	100.0
LISTERIA	Cases	1	9	1	11
	Percent	9.1	81.8	9.1	100.0
SALMONELLA	Cases	39	156	134	329
	Percent	11.9	47.4	40.7	100.0
SHIGELLA	Cases	55	103	78	236
	Percent	23.3	43.6	33.1	100.0
VIBRIO	Cases	-	5	5	10
	Percent	-	50.0	50.0	100.0
YERSINIA	Cases	2	17	14	33
	Percent	6.1	51.5	42.4	100.0
Total	Cases	200	864	533	1597
	Percent	12.5	54.1	33.4	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 9a through 9g - Ethnicity by Pathogen by Site

Table 9b: Site = Connecticut		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	41	399	163	603
	Percent	6.8	66.2	27.0	100.0
CRYPTOSPORIDIUM	Cases	3	38	2	43
	Percent	7.0	88.4	4.7	100.0
CYCLOSPORA	Cases	-	6	-	6
	Percent	-	100.0	-	100.0
E. COLI O157	Cases	2	53	3	58
	Percent	3.4	91.4	5.2	100.0
LISTERIA	Cases	1	12	16	29
	Percent	3.4	41.4	55.2	100.0
SALMONELLA	Cases	30	131	325	486
	Percent	6.2	27.0	66.9	100.0
SHIGELLA	Cases	6	15	51	72
	Percent	8.3	20.8	70.8	100.0
VIBRIO	Cases	-	3	3	6
	Percent	-	50.0	50.0	100.0
YERSINIA	Cases	3	7	12	22
	Percent	13.6	31.8	54.5	100.0
Total	Cases	86	664	575	1325
	Percent	6.5	50.1	43.4	100.0

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 Tables 9a through 9g - Ethnicity by Pathogen by Site

Table 9c: Site = Georgia		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	19	321	128	468
	Percent	4.1	68.6	27.4	100.0
CRYPTOSPORIDIUM	Cases	6	23	64	93
	Percent	6.5	24.7	68.8	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI O157	Cases	1	22	28	51
	Percent	2.0	43.1	54.9	100.0
LISTERIA	Cases	3	1	15	19
	Percent	15.8	5.3	78.9	100.0
SALMONELLA	Cases	21	151	333	505
	Percent	4.2	29.9	65.9	100.0
SHIGELLA	Cases	34	117	434	585
	Percent	5.8	20.0	74.2	100.0
VIBRIO	Cases	3	1	13	17
	Percent	17.6	5.9	76.5	100.0
YERSINIA	Cases	4	3	50	57
	Percent	7.0	5.3	87.7	100.0
Total	Cases	91	639	1065	1795
	Percent	5.1	35.6	59.3	100.0

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 Tables 9a through 9g - Ethnicity by Pathogen by Site

Table 9d: Site = Maryland		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	2	156	88	246
	Percent	0.8	63.4	35.8	100.0
CRYPTOSPORIDIUM	Cases	-	7	6	13
	Percent	-	53.8	46.2	100.0
CYCLOSPORA	Cases	-	1	-	1
	Percent	-	100.0	-	100.0
E. COLI O157	Cases	-	12	12	24
	Percent	-	50.0	50.0	100.0
LISTERIA	Cases	-	10	1	11
	Percent	-	90.9	9.1	100.0
SALMONELLA	Cases	7	195	236	438
	Percent	1.6	44.5	53.9	100.0
SHIGELLA	Cases	4	24	28	56
	Percent	7.1	42.9	50.0	100.0
VIBRIO	Cases	-	2	4	6
	Percent	-	33.3	66.7	100.0
YERSINIA	Cases	1	2	11	14
	Percent	7.1	14.3	78.6	100.0
Total	Cases	14	409	386	809
	Percent	1.7	50.6	47.7	100.0

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 Tables 9a through 9g - Ethnicity by Pathogen by Site

Table 9e: Site = Minnesota		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	13	373	618	1004
	Percent	1.3	37.2	61.6	100.0
CRYPTOSPORIDIUM	Cases	1	40	132	173
	Percent	0.6	23.1	76.3	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI O157	Cases	-	20	189	209
	Percent	-	9.6	90.4	100.0
LISTERIA	Cases	-	4	14	18
	Percent	-	22.2	77.8	100.0
SALMONELLA	Cases	14	78	489	581
	Percent	2.4	13.4	84.2	100.0
SHIGELLA	Cases	7	22	298	327
	Percent	2.1	6.7	91.1	100.0
VIBRIO	Cases	-	-	2	2
	Percent	-	-	100.0	100.0
YERSINIA	Cases	-	9	26	35
	Percent	-	25.7	74.3	100.0
Total	Cases	35	546	1768	2349
	Percent	1.5	23.2	75.3	100.0

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 Tables 9a through 9g - Ethnicity by Pathogen by Site

Table 9f: Site = New York		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	7	191	24	222
	Percent	3.2	86.0	10.8	100.0
CRYPTOSPORIDIUM	Cases	1	18	3	22
	Percent	4.5	81.8	13.6	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI O157	Cases	-	20	2	22
	Percent	-	90.9	9.1	100.0
LISTERIA	Cases	1	7	-	8
	Percent	12.5	87.5	-	100.0
SALMONELLA	Cases	4	178	19	201
	Percent	2.0	88.6	9.5	100.0
SHIGELLA	Cases	8	37	3	48
	Percent	16.7	77.1	6.3	100.0
VIBRIO	Cases	-	-	-	-
	Percent	-	-	-	-
YERSINIA	Cases	1	3	1	5
	Percent	20.0	60.0	20.0	100.0
Total	Cases	22	454	52	528
	Percent	4.2	86.0	9.8	100.0

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 Tables 9a through 9g - Ethnicity by Pathogen by Site

Table 9g: Site = Oregon		Ethnicity Category			Total
		HISPANIC	NON HISPANIC	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	45	390	258	693
	Percent	6.5	56.3	37.2	100.0
CRYPTOSPORIDIUM	Cases	4	25	40	69
	Percent	5.8	36.2	58.0	100.0
CYCLOSPORA	Cases	-	-	1	1
	Percent	-	-	100.0	100.0
E. COLI O157	Cases	6	68	27	101
	Percent	5.9	67.3	26.7	100.0
LISTERIA	Cases	6	7	3	16
	Percent	37.5	43.8	18.8	100.0
SALMONELLA	Cases	24	182	93	299
	Percent	8.0	60.9	31.1	100.0
SHIGELLA	Cases	63	45	48	156
	Percent	40.4	28.8	30.8	100.0
VIBRIO	Cases	1	7	1	9
	Percent	11.1	77.8	11.1	100.0
YERSINIA	Cases	-	8	7	15
	Percent	-	53.3	46.7	100.0
Total	Cases	149	732	478	1359
	Percent	11.0	53.9	35.2	100.0

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 Table 10 - Salmonella Serotypes by Site

Cases	Site							Total
	Ca.	Ct.	Ga.	Md.	Mn.	NY.	Or.	
Serotype								
TYPHIMURIUM	65	135	141	127	199	47	113	827
ENTERITIDIS	29	118	24	121	60	10	41	403
HEIDELBERG	39	27	26	19	42	2	13	168
NEWPORT	4	16	30	9	22	0	9	90
BRAENDERUP	4	8	3	6	34	0	6	61
AGONA	4	5	8	6	23	4	9	59
MONTEVIDEO	5	10	10	1	15	2	10	53
THOMPSON	12	4	7	9	17	0	3	52
INFANTIS	20	7	8	3	8	1	3	50
SAINTPAUL	4	9	12	2	8	1	14	50
HADAR	4	7	3	7	17	5	4	47
MUENCHEN	7	10	12	5	7	0	4	45
ORANIENBURG	11	10	4	4	5	0	10	44
JAVIANA	3	1	22	5	6	0	6	43
TYPHI	19	8	6	0	5	0	0	38
POONA	3	7	7	1	4	2	5	29
DERBY	13	3	0	5	5	0	0	26
SCHWARZENGRUND	1	2	19	0	1	0	2	25
STANLEY	5	4	1	2	3	0	6	21
MISSISSIPPI	0	3	17	0	0	1	0	21
PARATYPHI B	0	5	1	3	0	0	10	19
BRANDENBURG	7	2	1	1	5	0	1	17
JAVA	0	1	5	0	8	0	0	14
SENFTENBERG	9	2	0	0	2	0	0	13
HARTFORD	0	5	2	1	2	2	1	13
MBANDAKA	2	2	1	0	4	2	1	12
ANATUM	3	1	0	3	2	1	1	11

(CONTINUED)

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 Table 10 - Salmonella Serotypes by Site

Cases	Site							Total
	Ca.	Ct.	Ga.	Md.	Mn.	NY.	Or.	
Serotype								
PANAMA	4	2	0	0	4	0	0	10
PARATYPHI A	3	2	1	1	1	2	0	10
TENNESSEE	0	0	2	5	1	0	2	10
HAVANA	2	1	0	5	0	0	0	8
MIAMI	0	5	1	1	1	0	0	8
SUBSPECIES IV	0	3	0	0	3	0	2	8
ADELAIDE	3	2	2	0	0	0	0	7
BOVISMORBIFICANS	1	0	1	0	3	1	1	7
DUBLIN	4	0	0	0	1	0	2	7
GIVE	1	2	2	1	1	0	0	7
CUBANA	0	2	2	3	0	0	0	7
LITCHFIELD	0	2	1	1	3	0	0	7
4,5,12:i:-	0	0	7	0	0	0	0	7
BAREILLY	1	0	1	2	2	0	0	6
CHOLERAESUIS	1	2	1	0	1	0	1	6
MUENSTER	0	2	1	0	3	0	0	6
SUBSPECIES III	0	1	0	0	4	0	0	5
BERTA	0	0	1	3	1	0	0	5
BLOCKLEY	0	0	0	0	4	0	1	5
BAILDON	1	0	3	0	0	0	0	4
BREDENEY	1	0	0	1	2	0	0	4
CERRO	1	0	0	0	2	1	0	4
URBANA	1	0	1	1	0	0	1	4
IBADAN	0	3	0	1	0	0	0	4
OHIO	0	2	1	0	0	0	1	4
WELTEVREDEN	0	3	0	0	1	0	0	4
ARIZONAE	3	1	0	0	0	0	0	4

(CONTINUED)

CDC's Emerging Infections Program (FoodNet)
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 Table 10 - Salmonella Serotypes by Site

Cases	Site							Total
	Ca.	Ct.	Ga.	Md.	Mn.	NY.	Or.	
Serotype								
EMEK	1	1	0	0	1	0	0	3
HVITTINGFOSS	1	0	0	0	1	0	1	3
READING	1	2	0	0	0	0	0	3
VIRCHOW	1	1	0	0	1	0	0	3
WORTHINGTON	2	1	0	0	0	0	0	3
SANDIEGO	0	2	0	0	0	0	1	3
GLOSTRUP	0	0	2	0	1	0	0	3
INVERNESS	0	0	1	0	0	0	2	3
KIAMBU	0	0	2	0	1	0	0	3
BOCHUM	0	0	0	3	0	0	0	3
MANHATTAN	0	0	0	1	1	0	1	3
DUESSELDORF	0	0	0	0	3	0	0	3
JANGWANI	2	0	0	0	0	0	0	2
MELEAGRIDIS	2	0	0	0	0	0	0	2
NEWBRUNSWICK	2	0	0	0	0	0	0	2
KENTUCKY	0	2	0	0	0	0	0	2
TEELKEBIR	0	2	0	0	0	0	0	2
ANECHO	0	0	1	0	1	0	0	2
CHESTER	0	0	1	0	0	0	1	2
SAPHRA	0	0	2	0	0	0	0	2
DURBAN	0	0	0	1	0	0	1	2
KINTAMBO	0	0	0	1	1	0	0	2
ROODEPOORT	0	0	0	0	2	0	0	2
UGANDA	0	0	0	0	2	0	0	2
PARERA	0	0	0	0	0	0	2	2
50:B:Z6	1	0	0	0	0	0	0	1
BRUCK	1	0	0	0	0	0	0	1

(CONTINUED)

CDC's Emerging Infections Program (FoodNet)
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 Table 10 - Salmonella Serotypes by Site

Cases	Site							Total
	Ca.	Ct.	Ga.	Md.	Mn.	NY.	Or.	
Serotype								
COELN	1	0	0	0	0	0	0	1
HOUTEN	1	0	0	0	0	0	0	1
ISTANBUL	1	0	0	0	0	0	0	1
JOHANNESBURG	1	0	0	0	0	0	0	1
LOMALINDA	1	0	0	0	0	0	0	1
MARINA	1	0	0	0	0	0	0	1
SINGAPORE	1	0	0	0	0	0	0	1
"O"4"H" ROUGH	0	1	0	0	0	0	0	1
"O"ROUGH"H" I;1,2	0	1	0	0	0	0	0	1
ABAETETUBA	0	1	0	0	0	0	0	1
ABONY	0	1	0	0	0	0	0	1
CORVALLIS	0	1	0	0	0	0	0	1
COTHAM	0	1	0	0	0	0	0	1
LONDON	0	1	0	0	0	0	0	1
RISSEN	0	1	0	0	0	0	0	1
3,10,15:-:-SUBSPI	0	0	1	0	0	0	0	1
4,12:I: SUBSPECIES I	0	0	1	0	0	0	0	1
4,5,12:I:-SBSP1	0	0	1	0	0	0	0	1
6,7:1W:SUBSPI	0	0	1	0	0	0	0	1
FLINT	0	0	1	0	0	0	0	1
GAMINARA	0	0	1	0	0	0	0	1
MINNESOTA	0	0	1	0	0	0	0	1
PARATYPHI C	0	0	1	0	0	0	0	1
SCHLEISSHEIM	0	0	1	0	0	0	0	1
TALLAHASSEE	0	0	1	0	0	0	0	1
UPPSALA	0	0	1	0	0	0	0	1
BUZU	0	0	0	1	0	0	0	1

(CONTINUED)

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Table 10 - Salmonella Serotypes by Site

Cases	Site							Total
	Ca.	Ct.	Ga.	Md.	Mn.	NY.	Or.	
Serotype								
COLINDALE	0	0	0	1	0	0	0	1
FISCHERKIEZ	0	0	0	1	0	0	0	1
NORWICH	0	0	0	1	0	0	0	1
TAKORADI	0	0	0	1	0	0	0	1
TEKO	0	0	0	1	0	0	0	1
ALACHUA	0	0	0	0	1	0	0	1
CHAMELEON	0	0	0	0	1	0	0	1
HAIFA	0	0	0	0	1	0	0	1
OSLO	0	0	0	0	1	0	0	1
WELIKADE	0	0	0	0	1	0	0	1
EALING	0	0	0	0	0	1	0	1
PUTTEN	0	0	0	0	0	1	0	1
CHICAGO	0	0	0	0	0	0	1	1
HEILBRON	0	0	0	0	0	0	1	1
LIVINGSTONE	0	0	0	0	0	0	1	1
NOT SEROTYPED	8	20	87	61	19	115	4	314
Total	329	486	505	438	581	201	299	2839

CDC's Emerging Infections Program (FoodNet)
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 Table 11 - Percent Shigella Species by Site

		Species					Total
		BOYDII	DYSENTERIA	FLEXNERI	SONNEI	UNKNOWN	
Site							
California	Cases	6	4	97	121	8	236
	Percent	2.5	1.7	41.1	51.3	3.4	100.0
Connecticut	Cases	4	5	17	44	2	72
	Percent	5.6	6.9	23.6	61.1	2.8	100.0
Georgia	Cases	1	1	55	488	40	585
	Percent	0.2	0.2	9.4	83.4	6.8	100.0
Maryland	Cases	1	-	20	30	5	56
	Percent	1.8	-	35.7	53.6	8.9	100.0
Minnesota	Cases	2	1	37	284	3	327
	Percent	0.6	0.3	11.3	86.9	0.9	100.0
New York	Cases	-	-	12	32	4	48
	Percent	-	-	25.0	66.7	8.3	100.0
Oregon	Cases	5	-	60	91	-	156
	Percent	3.2	-	38.5	58.3	-	100.0
Total	Cases	19	11	298	1090	62	1480
	Percent	1.3	0.7	20.1	73.6	4.2	100.0

CDC's Emerging Infections Program (FoodNet)
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Table 12 - Source of Specimen by Pathogen for All Sites

		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
CAMPYLOBACTER	Cases	1	40	0	0	12	0	3972	4025
	Percent	0.0	1.0	0	0	0.3	0	98.7	100.0
CRYPTOSPORIDIUM	Cases	0	0	0	0	0	0	566	566
	Percent	0	0	0	0	0	0	100.0	100.0
CYCLOSPORA	Cases	0	0	0	0	0	0	9	9
	Percent	0	0	0	0	0	0	100.0	100.0
E. COLI 0157	Cases	3	0	0	0	22	0	475	500
	Percent	0.6	0	0	0	4.4	0	95.0	100.0
LISTERIA	Cases	3	85	18	0	4	2	0	112
	Percent	2.7	75.9	16.1	0	3.6	1.8	0	100.0
SALMONELLA	Cases	10	194	0	3	14	7	2611	2839
	Percent	0.4	6.8	0	0.1	0.5	0.2	92.0	100.0
SHIGELLA	Cases	2	6	2	0	12	3	1455	1480
	Percent	0.1	0.4	0.1	0	0.8	0.2	98.3	100.0
VIBRIO	Cases	2	4	0	1	3	0	40	50
	Percent	4.0	8.0	0	2.0	6.0	0	80.0	100.0
YERSINIA	Cases	1	10	0	3	3	2	162	181
	Percent	0.6	5.5	0	1.7	1.7	1.1	89.5	100.0
Total	Cases	22	339	20	7	70	14	9290	9762
	Percent	0.2	3.5	0.2	0.1	0.7	0.1	95.2	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 12a through 12g - Source of Specimen by Pathogen by Site

Table 12a: Site = California		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
CAMPYLOBACTER	Cases	-	10	-	-	2	-	777	789
	Percent	-	1.3	-	-	0.3	-	98.5	100.0
CRYPTOSPORIDIUM	Cases	-	-	-	-	-	-	153	153
	Percent	-	-	-	-	-	-	100.0	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	1	1
	Percent	-	-	-	-	-	-	100.0	100.0
E. COLI 0157	Cases	-	-	-	-	-	-	35	35
	Percent	-	-	-	-	-	-	100.0	100.0
LISTERIA	Cases	-	7	2	-	1	1	-	11
	Percent	-	63.6	18.2	-	9.1	9.1	-	100.0
SALMONELLA	Cases	1	39	-	-	5	-	284	329
	Percent	0.3	11.9	-	-	1.5	-	86.3	100.0
SHIGELLA	Cases	1	1	1	-	3	-	230	236
	Percent	0.4	0.4	0.4	-	1.3	-	97.5	100.0
VIBRIO	Cases	-	-	-	-	-	-	10	10
	Percent	-	-	-	-	-	-	100.0	100.0
YERSINIA	Cases	-	1	-	-	-	-	32	33
	Percent	-	3.0	-	-	-	-	97.0	100.0
Total	Cases	2	58	3	-	11	1	1522	1597
	Percent	0.1	3.6	0.2	-	0.7	0.1	95.3	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 12a through 12g - Source of Specimen by Pathogen by Site

Table 12b: Site = Connecticut		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
CAMPYLOBACTER	Cases	-	8	-	-	-	-	595	603
	Percent	-	1.3	-	-	-	-	98.7	100.0
CRYPTOSPORIDIUM	Cases	-	-	-	-	-	-	43	43
	Percent	-	-	-	-	-	-	100.0	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	6	6
	Percent	-	-	-	-	-	-	100.0	100.0
E. COLI 0157	Cases	-	-	-	-	-	-	58	58
	Percent	-	-	-	-	-	-	100.0	100.0
LISTERIA	Cases	1	20	6	-	2	-	-	29
	Percent	3.4	69.0	20.7	-	6.9	-	-	100.0
SALMONELLA	Cases	2	30	-	1	-	1	452	486
	Percent	0.4	6.2	-	0.2	-	0.2	93.0	100.0
SHIGELLA	Cases	1	1	-	-	-	-	70	72
	Percent	1.4	1.4	-	-	-	-	97.2	100.0
VIBRIO	Cases	-	1	-	-	-	-	5	6
	Percent	-	16.7	-	-	-	-	83.3	100.0
YERSINIA	Cases	-	2	-	-	-	-	20	22
	Percent	-	9.1	-	-	-	-	90.9	100.0
Total	Cases	4	62	6	1	2	1	1249	1325
	Percent	0.3	4.7	0.5	0.1	0.2	0.1	94.3	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 12a through 12g - Source of Specimen by Pathogen by Site

Table 12c: Site = Georgia		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
	CAMPYLOBACTER	Cases	-	8	-	-	-	460	468
		Percent	-	1.7	-	-	-	98.3	100.0
CRYPTOSPORIDIUM	Cases	-	-	-	-	-	-	93	93
	Percent	-	-	-	-	-	-	100.0	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-
E. COLI 0157	Cases	-	-	-	-	-	-	51	51
	Percent	-	-	-	-	-	-	100.0	100.0
LISTERIA	Cases	-	14	4	-	1	-	-	19
	Percent	-	73.7	21.1	-	5.3	-	-	100.0
SALMONELLA	Cases	2	44	-	1	3	1	454	505
	Percent	0.4	8.7	-	0.2	0.6	0.2	89.9	100.0
SHIGELLA	Cases	-	3	-	-	2	2	578	585
	Percent	-	0.5	-	-	0.3	0.3	98.8	100.0
VIBRIO	Cases	1	3	-	-	2	-	11	17
	Percent	5.9	17.6	-	-	11.8	-	64.7	100.0
YERSINIA	Cases	-	3	-	1	-	-	53	57
	Percent	-	5.3	-	1.8	-	-	93.0	100.0
Total	Cases	3	75	4	2	8	3	1700	1795
	Percent	0.2	4.2	0.2	0.1	0.4	0.2	94.7	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 12a through 12g - Source of Specimen by Pathogen by Site

Table 12d: Site = Maryland		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
CAMPYLOBACTER	Cases	-	7	-	-	8	-	231	246
	Percent	-	2.8	-	-	3.3	-	93.9	100.0
CRYPTOSPORIDIUM	Cases	-	-	-	-	-	-	13	13
	Percent	-	-	-	-	-	-	100.0	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	1	1
	Percent	-	-	-	-	-	-	100.0	100.0
E. COLI 0157	Cases	-	-	-	-	-	-	24	24
	Percent	-	-	-	-	-	-	100.0	100.0
LISTERIA	Cases	-	10	1	-	-	-	-	11
	Percent	-	90.9	9.1	-	-	-	-	100.0
SALMONELLA	Cases	-	41	-	-	3	1	393	438
	Percent	-	9.4	-	-	0.7	0.2	89.7	100.0
SHIGELLA	Cases	-	1	-	-	2	-	53	56
	Percent	-	1.8	-	-	3.6	-	94.6	100.0
VIBRIO	Cases	-	-	-	1	1	-	4	6
	Percent	-	-	-	16.7	16.7	-	66.7	100.0
YERSINIA	Cases	-	2	-	-	3	-	9	14
	Percent	-	14.3	-	-	21.4	-	64.3	100.0
Total	Cases	-	61	1	1	17	1	728	809
	Percent	-	7.5	0.1	0.1	2.1	0.1	90.0	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 12a through 12g - Source of Specimen by Pathogen by Site

Table 12e: Site = Minnesota		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
	CAMPYLOBACTER	Cases	1	5	-	-	-	-	998 1004
		Percent	0.1	0.5	-	-	-	-	99.4 100.0
CRYPTOSPORIDIUM	Cases	-	-	-	-	-	-	-	173 173
	Percent	-	-	-	-	-	-	-	100.0 100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	-	- -
	Percent	-	-	-	-	-	-	-	- -
E. COLI 0157	Cases	3	-	-	-	-	-	-	206 209
	Percent	1.4	-	-	-	-	-	-	98.6 100.0
LISTERIA	Cases	1	14	2	-	-	1	-	18
	Percent	5.6	77.8	11.1	-	-	5.6	-	100.0
SALMONELLA	Cases	4	20	-	1	1	1	554	581
	Percent	0.7	3.4	-	0.2	0.2	0.2	95.4	100.0
SHIGELLA	Cases	-	-	-	-	2	1	324	327
	Percent	-	-	-	-	0.6	0.3	99.1	100.0
VIBRIO	Cases	-	-	-	-	-	-	2	2
	Percent	-	-	-	-	-	-	100.0	100.0
YERSINIA	Cases	1	-	-	-	-	2	32	35
	Percent	2.9	-	-	-	-	5.7	91.4	100.0
Total	Cases	10	39	2	1	3	5	2289	2349
	Percent	0.4	1.7	0.1	0.0	0.1	0.2	97.4	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 12a through 12g - Source of Specimen by Pathogen by Site

Table 12f: Site = New York		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
CAMPYLOBACTER	Cases	-	-	-	-	1	-	221	222
	Percent	-	-	-	-	0.5	-	99.5	100.0
CRYPTOSPORIDIUM	Cases	-	-	-	-	-	-	22	22
	Percent	-	-	-	-	-	-	100.0	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-
E. COLI 0157	Cases	-	-	-	-	22	-	-	22
	Percent	-	-	-	-	100.0	-	-	100.0
LISTERIA	Cases	1	7	-	-	-	-	-	8
	Percent	12.5	87.5	-	-	-	-	-	100.0
SALMONELLA	Cases	1	10	-	-	2	-	188	201
	Percent	0.5	5.0	-	-	1.0	-	93.5	100.0
SHIGELLA	Cases	-	-	1	-	2	-	45	48
	Percent	-	-	2.1	-	4.2	-	93.8	100.0
VIBRIO	Cases	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-
YERSINIA	Cases	-	-	-	-	-	-	5	5
	Percent	-	-	-	-	-	-	100.0	100.0
Total	Cases	2	17	1	-	27	-	481	528
	Percent	0.4	3.2	0.2	-	5.1	-	91.1	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 12a through 12g - Source of Specimen by Pathogen by Site

Table 12g: Site = Oregon		Source of Specimen							Total
		ABSCESS	BLOOD	CSF	ORTHO	OTHER	OTHER STERILE SITE	STOOL	
Pathogen									
CAMPYLOBACTER	Cases	-	2	-	-	1	-	690	693
	Percent	-	0.3	-	-	0.1	-	99.6	100.0
CRYPTOSPORIDIUM	Cases	-	-	-	-	-	-	69	69
	Percent	-	-	-	-	-	-	100.0	100.0
CYCLOSPORA	Cases	-	-	-	-	-	-	1	1
	Percent	-	-	-	-	-	-	100.0	100.0
E. COLI 0157	Cases	-	-	-	-	-	-	101	101
	Percent	-	-	-	-	-	-	100.0	100.0
LISTERIA	Cases	-	13	3	-	-	-	-	16
	Percent	-	81.3	18.8	-	-	-	-	100.0
SALMONELLA	Cases	-	10	-	-	-	3	286	299
	Percent	-	3.3	-	-	-	1.0	95.7	100.0
SHIGELLA	Cases	-	-	-	-	1	-	155	156
	Percent	-	-	-	-	0.6	-	99.4	100.0
VIBRIO	Cases	1	-	-	-	-	-	8	9
	Percent	11.1	-	-	-	-	-	88.9	100.0
YERSINIA	Cases	-	2	-	2	-	-	11	15
	Percent	-	13.3	-	13.3	-	-	73.3	100.0
Total	Cases	1	27	3	2	2	3	1321	1359
	Percent	0.1	2.0	0.2	0.1	0.1	0.2	97.2	100.0

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Table 13 - Patient Status by Pathogen for All Sites

		Patient Status			Total	
		OUTPATIENT	HOSPITALIZED	UNKNOWN		
Pathogen						
	CAMPYLOBACTER	Cases	3386	437	202	4025
		Percent	84.1	10.9	5.0	100.0
CRYPTOSPORIDIUM	Cases	446	79	41	566	
	Percent	78.8	14.0	7.2	100.0	
CYCLOSPORA	Cases	8	0	1	9	
	Percent	88.9	0	11.1	100.0	
E. COLI 0157	Cases	322	174	4	500	
	Percent	64.4	34.8	0.8	100.0	
LISTERIA	Cases	6	106	0	112	
	Percent	5.4	94.6	0	100.0	
SALMONELLA	Cases	2124	592	123	2839	
	Percent	74.8	20.9	4.3	100.0	
SHIGELLA	Cases	1217	175	88	1480	
	Percent	82.2	11.8	5.9	100.0	
VIBRIO	Cases	34	13	3	50	
	Percent	68.0	26.0	6.0	100.0	
YERSINIA	Cases	118	49	14	181	
	Percent	65.2	27.1	7.7	100.0	
Total	Cases	7661	1625	476	9762	
	Percent	78.5	16.6	4.9	100.0	

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 Tables 13a through 13g - Patient Status by Pathogen by Site

Table 13a: Site = California		Patient Status			Total
		OUTPATIENT	HOSPITALIZED	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	638	57	94	789
	Percent	80.9	7.2	11.9	100.0
CRYPTOSPORIDIUM	Cases	120	14	19	153
	Percent	78.4	9.2	12.4	100.0
CYCLOSPORA	Cases	1	-	-	1
	Percent	100.0	-	-	100.0
E. COLI 0157	Cases	20	15	-	35
	Percent	57.1	42.9	-	100.0
LISTERIA	Cases	-	11	-	11
	Percent	-	100.0	-	100.0
SALMONELLA	Cases	250	63	16	329
	Percent	76.0	19.1	4.9	100.0
SHIGELLA	Cases	214	16	6	236
	Percent	90.7	6.8	2.5	100.0
VIBRIO	Cases	9	1	-	10
	Percent	90.0	10.0	-	100.0
YERSINIA	Cases	30	2	1	33
	Percent	90.9	6.1	3.0	100.0
Total	Cases	1282	179	136	1597
	Percent	80.3	11.2	8.5	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 13a through 13g - Patient Status by Pathogen by Site

Table 13b: Site = Connecticut		Patient Status			Total
		OUTPATIENT	HOSPITALIZED	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	509	87	7	603
	Percent	84.4	14.4	1.2	100.0
CRYPTOSPORIDIUM	Cases	33	10	-	43
	Percent	76.7	23.3	-	100.0
CYCLOSPORA	Cases	6	-	-	6
	Percent	100.0	-	-	100.0
E. COLI 0157	Cases	33	25	-	58
	Percent	56.9	43.1	-	100.0
LISTERIA	Cases	3	26	-	29
	Percent	10.3	89.7	-	100.0
SALMONELLA	Cases	371	98	17	486
	Percent	76.3	20.2	3.5	100.0
SHIGELLA	Cases	63	7	2	72
	Percent	87.5	9.7	2.8	100.0
VIBRIO	Cases	2	4	-	6
	Percent	33.3	66.7	-	100.0
YERSINIA	Cases	14	8	-	22
	Percent	63.6	36.4	-	100.0
Total	Cases	1034	265	26	1325
	Percent	78.0	20.0	2.0	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 13a through 13g - Patient Status by Pathogen by Site

Table 13c: Site = Georgia		Patient Status			Total
		OUTPATIENT	HOSPITALIZED	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	362	59	47	468
	Percent	77.4	12.6	10.0	100.0
CRYPTOSPORIDIUM	Cases	67	16	10	93
	Percent	72.0	17.2	10.8	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI 0157	Cases	25	25	1	51
	Percent	49.0	49.0	2.0	100.0
LISTERIA	Cases	-	19	-	19
	Percent	-	100.0	-	100.0
SALMONELLA	Cases	359	117	29	505
	Percent	71.1	23.2	5.7	100.0
SHIGELLA	Cases	438	80	67	585
	Percent	74.9	13.7	11.5	100.0
VIBRIO	Cases	11	5	1	17
	Percent	64.7	29.4	5.9	100.0
YERSINIA	Cases	27	20	10	57
	Percent	47.4	35.1	17.5	100.0
Total	Cases	1289	341	165	1795
	Percent	71.8	19.0	9.2	100.0

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 Tables 13a through 13g - Patient Status by Pathogen by Site

Table 13d: Site = Maryland		Patient Status			Total
		OUTPATIENT	HOSPITALIZED	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	193	40	13	246
	Percent	78.5	16.3	5.3	100.0
CRYPTOSPORIDIUM	Cases	4	2	7	13
	Percent	30.8	15.4	53.8	100.0
CYCLOSPORA	Cases	-	-	1	1
	Percent	-	-	100.0	100.0
E. COLI 0157	Cases	12	10	2	24
	Percent	50.0	41.7	8.3	100.0
LISTERIA	Cases	1	10	-	11
	Percent	9.1	90.9	-	100.0
SALMONELLA	Cases	288	124	26	438
	Percent	65.8	28.3	5.9	100.0
SHIGELLA	Cases	38	14	4	56
	Percent	67.9	25.0	7.1	100.0
VIBRIO	Cases	2	2	2	6
	Percent	33.3	33.3	33.3	100.0
YERSINIA	Cases	6	5	3	14
	Percent	42.9	35.7	21.4	100.0
Total	Cases	544	207	58	809
	Percent	67.2	25.6	7.2	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 13a through 13g - Patient Status by Pathogen by Site

Table 13e: Site = Minnesota		Patient Status			Total
		OUTPATIENT	HOSPITALIZED	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	883	116	5	1004
	Percent	87.9	11.6	0.5	100.0
CRYPTOSPORIDIUM	Cases	144	28	1	173
	Percent	83.2	16.2	0.6	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI 0157	Cases	156	53	-	209
	Percent	74.6	25.4	-	100.0
LISTERIA	Cases	-	18	-	18
	Percent	-	100.0	-	100.0
SALMONELLA	Cases	450	130	1	581
	Percent	77.5	22.4	0.2	100.0
SHIGELLA	Cases	292	34	1	327
	Percent	89.3	10.4	0.3	100.0
VIBRIO	Cases	2	-	-	2
	Percent	100.0	-	-	100.0
YERSINIA	Cases	28	7	-	35
	Percent	80.0	20.0	-	100.0
Total	Cases	1955	386	8	2349
	Percent	83.2	16.4	0.3	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 13a through 13g - Patient Status by Pathogen by Site

Table 13f: Site = New York		Patient Status			Total
		OUTPATIENT	HOSPITALIZED	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	165	24	33	222
	Percent	74.3	10.8	14.9	100.0
CRYPTOSPORIDIUM	Cases	14	5	3	22
	Percent	63.6	22.7	13.6	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI 0157	Cases	5	17	-	22
	Percent	22.7	77.3	-	100.0
LISTERIA	Cases	1	7	-	8
	Percent	12.5	87.5	-	100.0
SALMONELLA	Cases	144	24	33	201
	Percent	71.6	11.9	16.4	100.0
SHIGELLA	Cases	34	8	6	48
	Percent	70.8	16.7	12.5	100.0
VIBRIO	Cases	-	-	-	-
	Percent	-	-	-	-
YERSINIA	Cases	3	2	-	5
	Percent	60.0	40.0	-	100.0
Total	Cases	366	87	75	528
	Percent	69.3	16.5	14.2	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 13a through 13g - Patient Status by Pathogen by Site

Table 13g: Site = Oregon		Patient Status			Total
		OUTPATIENT	HOSPITALIZED	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	636	54	3	693
	Percent	91.8	7.8	0.4	100.0
CRYPTOSPORIDIUM	Cases	64	4	1	69
	Percent	92.8	5.8	1.4	100.0
CYCLOSPORA	Cases	1	-	-	1
	Percent	100.0	-	-	100.0
E. COLI 0157	Cases	71	29	1	101
	Percent	70.3	28.7	1.0	100.0
LISTERIA	Cases	1	15	-	16
	Percent	6.3	93.8	-	100.0
SALMONELLA	Cases	262	36	1	299
	Percent	87.6	12.0	0.3	100.0
SHIGELLA	Cases	138	16	2	156
	Percent	88.5	10.3	1.3	100.0
VIBRIO	Cases	8	1	-	9
	Percent	88.9	11.1	-	100.0
YERSINIA	Cases	10	5	-	15
	Percent	66.7	33.3	-	100.0
Total	Cases	1191	160	8	1359
	Percent	87.6	11.8	0.6	100.0

CDC's Emerging Infections Program (FoodNet)
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 Table 14 - Patient Outcome by Pathogen for All Sites

		Patient Outcome			Total	
		ALIVE	DEAD	UNKNOWN		
Pathogen						
	CAMPYLOBACTER	Cases	3602	2	421	4025
		Percent	89.5	0.0	10.5	100.0
CRYPTOSPORIDIUM	Cases	507	3	56	566	
	Percent	89.6	0.5	9.9	100.0	
CYCLOSPORA	Cases	8	0	1	9	
	Percent	88.9	0	11.1	100.0	
E. COLI 0157	Cases	492	2	6	500	
	Percent	98.4	0.4	1.2	100.0	
LISTERIA	Cases	99	13	0	112	
	Percent	88.4	11.6	0	100.0	
SALMONELLA	Cases	2389	11	439	2839	
	Percent	84.1	0.4	15.5	100.0	
SHIGELLA	Cases	1256	0	224	1480	
	Percent	84.9	0	15.1	100.0	
VIBRIO	Cases	39	1	10	50	
	Percent	78.0	2.0	20.0	100.0	
YERSINIA	Cases	143	1	37	181	
	Percent	79.0	0.6	20.4	100.0	
Total	Cases	8535	33	1194	9762	
	Percent	87.4	0.3	12.2	100.0	

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 Tables 14a through 14g - Patient Outcome by Pathogen by Site

Table 14a: Site = California		Patient Outcome			Total
		ALIVE	DEAD	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	541	-	248	789
	Percent	68.6	-	31.4	100.0
CRYPTOSPORIDIUM	Cases	115	1	37	153
	Percent	75.2	0.7	24.2	100.0
CYCLOSPORA	Cases	1	-	-	1
	Percent	100.0	-	-	100.0
E. COLI 0157	Cases	35	-	-	35
	Percent	100.0	-	-	100.0
LISTERIA	Cases	10	1	-	11
	Percent	90.9	9.1	-	100.0
SALMONELLA	Cases	169	3	157	329
	Percent	51.4	0.9	47.7	100.0
SHIGELLA	Cases	157	-	79	236
	Percent	66.5	-	33.5	100.0
VIBRIO	Cases	3	-	7	10
	Percent	30.0	-	70.0	100.0
YERSINIA	Cases	18	-	15	33
	Percent	54.5	-	45.5	100.0
Total	Cases	1049	5	543	1597
	Percent	65.7	0.3	34.0	100.0

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 Tables 14a through 14g - Patient Outcome by Pathogen by Site

Table 14b: Site = Connecticut		Patient Outcome			Total
		ALIVE	DEAD	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	552	1	50	603
	Percent	91.5	0.2	8.3	100.0
CRYPTOSPORIDIUM	Cases	42	1	-	43
	Percent	97.7	2.3	-	100.0
CYCLOSPORA	Cases	6	-	-	6
	Percent	100.0	-	-	100.0
E. COLI 0157	Cases	58	-	-	58
	Percent	100.0	-	-	100.0
LISTERIA	Cases	25	4	-	29
	Percent	86.2	13.8	-	100.0
SALMONELLA	Cases	311	-	175	486
	Percent	64.0	-	36.0	100.0
SHIGELLA	Cases	35	-	37	72
	Percent	48.6	-	51.4	100.0
VIBRIO	Cases	6	-	-	6
	Percent	100.0	-	-	100.0
YERSINIA	Cases	19	-	3	22
	Percent	86.4	-	13.6	100.0
Total	Cases	1054	6	265	1325
	Percent	79.5	0.5	20.0	100.0

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 Tables 14a through 14g - Patient Outcome by Pathogen by Site

Table 14c: Site = Georgia		Patient Outcome			Total
		ALIVE	DEAD	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	420	-	48	468
	Percent	89.7	-	10.3	100.0
CRYPTOSPORIDIUM	Cases	83	-	10	93
	Percent	89.2	-	10.8	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI 0157	Cases	48	1	2	51
	Percent	94.1	2.0	3.9	100.0
LISTERIA	Cases	18	1	-	19
	Percent	94.7	5.3	-	100.0
SALMONELLA	Cases	471	2	32	505
	Percent	93.3	0.4	6.3	100.0
SHIGELLA	Cases	498	-	87	585
	Percent	85.1	-	14.9	100.0
VIBRIO	Cases	16	1	-	17
	Percent	94.1	5.9	-	100.0
YERSINIA	Cases	46	1	10	57
	Percent	80.7	1.8	17.5	100.0
Total	Cases	1600	6	189	1795
	Percent	89.1	0.3	10.5	100.0

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 Tables 14a through 14g - Patient Outcome by Pathogen by Site

Table 14d: Site = Maryland		Patient Outcome			Total
		ALIVE	DEAD	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	226	-	20	246
	Percent	91.9	-	8.1	100.0
CRYPTOSPORIDIUM	Cases	10	-	3	13
	Percent	76.9	-	23.1	100.0
CYCLOSPORA	Cases	-	-	1	1
	Percent	-	-	100.0	100.0
E. COLI 0157	Cases	22	-	2	24
	Percent	91.7	-	8.3	100.0
LISTERIA	Cases	10	1	-	11
	Percent	90.9	9.1	-	100.0
SALMONELLA	Cases	385	4	49	438
	Percent	87.9	0.9	11.2	100.0
SHIGELLA	Cases	45	-	11	56
	Percent	80.4	-	19.6	100.0
VIBRIO	Cases	3	-	3	6
	Percent	50.0	-	50.0	100.0
YERSINIA	Cases	5	-	9	14
	Percent	35.7	-	64.3	100.0
Total	Cases	706	5	98	809
	Percent	87.3	0.6	12.1	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 14a through 14g - Patient Outcome by Pathogen by Site

Table 14e: Site = Minnesota		Patient Outcome			Total
		ALIVE	DEAD	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	994	1	9	1004
	Percent	99.0	0.1	0.9	100.0
CRYPTOSPORIDIUM	Cases	172	-	1	173
	Percent	99.4	-	0.6	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI 0157	Cases	208	1	-	209
	Percent	99.5	0.5	-	100.0
LISTERIA	Cases	16	2	-	18
	Percent	88.9	11.1	-	100.0
SALMONELLA	Cases	579	2	-	581
	Percent	99.7	0.3	-	100.0
SHIGELLA	Cases	327	-	-	327
	Percent	100.0	-	-	100.0
VIBRIO	Cases	2	-	-	2
	Percent	100.0	-	-	100.0
YERSINIA	Cases	35	-	-	35
	Percent	100.0	-	-	100.0
Total	Cases	2333	6	10	2349
	Percent	99.3	0.3	0.4	100.0

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 Tables 14a through 14g - Patient Outcome by Pathogen by Site

Table 14f: Site = New York		Patient Outcome			Total
		ALIVE	DEAD	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	200	-	22	222
	Percent	90.1	-	9.9	100.0
CRYPTOSPORIDIUM	Cases	19	1	2	22
	Percent	86.4	4.5	9.1	100.0
CYCLOSPORA	Cases	-	-	-	-
	Percent	-	-	-	-
E. COLI 0157	Cases	21	-	1	22
	Percent	95.5	-	4.5	100.0
LISTERIA	Cases	7	1	-	8
	Percent	87.5	12.5	-	100.0
SALMONELLA	Cases	180	-	21	201
	Percent	89.6	-	10.4	100.0
SHIGELLA	Cases	43	-	5	48
	Percent	89.6	-	10.4	100.0
VIBRIO	Cases	-	-	-	-
	Percent	-	-	-	-
YERSINIA	Cases	5	-	-	5
	Percent	100.0	-	-	100.0
Total	Cases	475	2	51	528
	Percent	90.0	0.4	9.7	100.0

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 Tables 14a through 14g - Patient Outcome by Pathogen by Site

Table 14g: Site = Oregon		Patient Outcome			Total
		ALIVE	DEAD	UNKNOWN	
Pathogen					
CAMPYLOBACTER	Cases	669	-	24	693
	Percent	96.5	-	3.5	100.0
CRYPTOSPORIDIUM	Cases	66	-	3	69
	Percent	95.7	-	4.3	100.0
CYCLOSPORA	Cases	1	-	-	1
	Percent	100.0	-	-	100.0
E. COLI 0157	Cases	100	-	1	101
	Percent	99.0	-	1.0	100.0
LISTERIA	Cases	13	3	-	16
	Percent	81.3	18.8	-	100.0
SALMONELLA	Cases	294	-	5	299
	Percent	98.3	-	1.7	100.0
SHIGELLA	Cases	151	-	5	156
	Percent	96.8	-	3.2	100.0
VIBRIO	Cases	9	-	-	9
	Percent	100.0	-	-	100.0
YERSINIA	Cases	15	-	-	15
	Percent	100.0	-	-	100.0
Total	Cases	1318	3	38	1359
	Percent	97.0	0.2	2.8	100.0

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Table 15 - Age Distribution for Invasive Specimens for All Sites

		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	2	2	1	5	7	4	9	10	40
	Percent	5.0	5.0	2.5	12.5	17.5	10.0	22.5	25.0	100.0
LISTERIA	Cases	9	1	2	6	11	6	13	55	103
	Percent	8.7	1.0	1.9	5.8	10.7	5.8	12.6	53.4	100.0
SALMONELLA	Cases	21	28	18	27	30	18	19	36	197
	Percent	10.7	14.2	9.1	13.7	15.2	9.1	9.6	18.3	100.0
SHIGELLA	Cases	0	1	0	1	2	2	0	2	8
	Percent	0	12.5	0	12.5	25.0	25.0	0	25.0	100.0
VIBRIO	Cases	0	0	0	0	0	3	1	1	5
	Percent	0	0	0	0	0	60.0	20.0	20.0	100.0
YERSINIA	Cases	1	1	0	0	1	2	0	8	13
	Percent	7.7	7.7	0	0	7.7	15.4	0	61.5	100.0
Total	Cases	33	33	21	39	51	35	42	112	366
	Percent	9.0	9.0	5.7	10.7	13.9	9.6	11.5	30.6	100.0

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 Tables 15a through 15g - Age Distribution for Invasive Specimens by Site

Table 15a: Site = California		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	1	-	-	-	3	2	1	3	10
	Percent	10.0	-	-	-	30.0	20.0	10.0	30.0	100.0
LISTERIA	Cases	-	-	-	1	2	-	-	6	9
	Percent	-	-	-	11.1	22.2	-	-	66.7	100.0
SALMONELLA	Cases	3	5	6	6	4	4	5	6	39
	Percent	7.7	12.8	15.4	15.4	10.3	10.3	12.8	15.4	100.0
SHIGELLA	Cases	-	1	-	-	1	-	-	-	2
	Percent	-	50.0	-	-	50.0	-	-	-	100.0
VIBRIO	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
YERSINIA	Cases	-	-	-	-	-	-	-	1	1
	Percent	-	-	-	-	-	-	-	100.0	100.0
Total	Cases	4	6	6	7	10	6	6	16	61
	Percent	6.6	9.8	9.8	11.5	16.4	9.8	9.8	26.2	100.0

CDC's Emerging Infections Program (FoodNet)
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 Tables 15a through 15g - Age Distribution for Invasive Specimens by Site

Table 15b: Site = Connecticut		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	-	-	-	-	-	1	4	3	8
	Percent	-	-	-	-	-	12.5	50.0	37.5	100.0
LISTERIA	Cases	-	-	-	1	1	-	5	19	26
	Percent	-	-	-	3.8	3.8	-	19.2	73.1	100.0
SALMONELLA	Cases	1	4	3	4	6	-	5	8	31
	Percent	3.2	12.9	9.7	12.9	19.4	-	16.1	25.8	100.0
SHIGELLA	Cases	-	-	-	-	-	-	-	1	1
	Percent	-	-	-	-	-	-	-	100.0	100.0
VIBRIO	Cases	-	-	-	-	-	1	-	-	1
	Percent	-	-	-	-	-	100.0	-	-	100.0
YERSINIA	Cases	-	-	-	-	-	-	-	2	2
	Percent	-	-	-	-	-	-	-	100.0	100.0
Total	Cases	1	4	3	5	7	2	14	33	69
	Percent	1.4	5.8	4.3	7.2	10.1	2.9	20.3	47.8	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 15a through 15g - Age Distribution for Invasive Specimens by Site

Table 15c: Site = Georgia		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	1	-	-	2	1	1	1	2	8
	Percent	12.5	-	-	25.0	12.5	12.5	12.5	25.0	100.0
LISTERIA	Cases	5	1	1	2	1	2	1	5	18
	Percent	27.8	5.6	5.6	11.1	5.6	11.1	5.6	27.8	100.0
SALMONELLA	Cases	10	8	4	5	5	3	2	8	45
	Percent	22.2	17.8	8.9	11.1	11.1	6.7	4.4	17.8	100.0
SHIGELLA	Cases	-	-	-	-	1	1	-	1	3
	Percent	-	-	-	-	33.3	33.3	-	33.3	100.0
VIBRIO	Cases	-	-	-	-	-	2	-	1	3
	Percent	-	-	-	-	-	66.7	-	33.3	100.0
YERSINIA	Cases	1	-	-	-	1	1	-	1	4
	Percent	25.0	-	-	-	25.0	25.0	-	25.0	100.0
Total	Cases	17	9	5	9	9	10	4	18	81
	Percent	21.0	11.1	6.2	11.1	11.1	12.3	4.9	22.2	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 15a through 15g - Age Distribution for Invasive Specimens by Site

Table 15d: Site = Maryland		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	-	1	-	1	2	-	2	1	7
	Percent	-	14.3	-	14.3	28.6	-	28.6	14.3	100.0
LISTERIA	Cases	-	-	-	1	-	1	2	7	11
	Percent	-	-	-	9.1	-	9.1	18.2	63.6	100.0
SALMONELLA	Cases	2	6	3	3	8	9	4	6	41
	Percent	4.9	14.6	7.3	7.3	19.5	22.0	9.8	14.6	100.0
SHIGELLA	Cases	-	-	-	-	-	1	-	-	1
	Percent	-	-	-	-	-	100.0	-	-	100.0
VIBRIO	Cases	-	-	-	-	-	-	1	-	1
	Percent	-	-	-	-	-	-	100.0	-	100.0
YERSINIA	Cases	-	-	-	-	-	-	-	2	2
	Percent	-	-	-	-	-	-	-	100.0	100.0
Total	Cases	2	7	3	5	10	11	9	16	63
	Percent	3.2	11.1	4.8	7.9	15.9	17.5	14.3	25.4	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 15a through 15g - Age Distribution for Invasive Specimens by Site

Table 15e: Site = Minnesota		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	-	1	1	1	1	-	-	1	5
	Percent	-	20.0	20.0	20.0	20.0	-	-	20.0	100.0
LISTERIA	Cases	1	-	1	1	2	1	3	7	16
	Percent	6.3	-	6.3	6.3	12.5	6.3	18.8	43.8	100.0
SALMONELLA	Cases	4	4	2	3	3	-	2	3	21
	Percent	19.0	19.0	9.5	14.3	14.3	-	9.5	14.3	100.0
SHIGELLA	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
VIBRIO	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
YERSINIA	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
Total	Cases	5	5	4	5	6	1	5	11	42
	Percent	11.9	11.9	9.5	11.9	14.3	2.4	11.9	26.2	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 15a through 15g - Age Distribution for Invasive Specimens by Site

Table 15f: Site = New York		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
LISTERIA	Cases	-	-	-	-	2	2	1	2	7
	Percent	-	-	-	-	28.6	28.6	14.3	28.6	100.0
SALMONELLA	Cases	-	1	-	3	2	2	-	2	10
	Percent	-	10.0	-	30.0	20.0	20.0	-	20.0	100.0
SHIGELLA	Cases	-	-	-	1	-	-	-	-	1
	Percent	-	-	-	100.0	-	-	-	-	100.0
VIBRIO	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
YERSINIA	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
Total	Cases	-	1	-	4	4	4	1	4	18
	Percent	-	5.6	-	22.2	22.2	22.2	5.6	22.2	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 15a through 15g - Age Distribution for Invasive Specimens by Site

Table 15g: Site = Oregon		Age Specific Strata								Total
		0-<1 YR	1-<10 YRS	10-<20 YRS	20-<30 YRS	30-<40 YRS	40-<50 YRS	50-<60 YRS	60+ YRS	
Pathogen										
CAMPYLOBACTER	Cases	-	-	-	1	-	-	1	-	2
	Percent	-	-	-	50.0	-	-	50.0	-	100.0
LISTERIA	Cases	3	-	-	-	3	-	1	9	16
	Percent	18.8	-	-	-	18.8	-	6.3	56.3	100.0
SALMONELLA	Cases	1	-	-	3	2	-	1	3	10
	Percent	10.0	-	-	30.0	20.0	-	10.0	30.0	100.0
SHIGELLA	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
VIBRIO	Cases	-	-	-	-	-	-	-	-	-
	Percent	-	-	-	-	-	-	-	-	-
YERSINIA	Cases	-	1	-	-	-	1	-	2	4
	Percent	-	25.0	-	-	-	25.0	-	50.0	100.0
Total	Cases	4	1	-	4	5	1	3	14	32
	Percent	12.5	3.1	-	12.5	15.6	3.1	9.4	43.8	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Table 16 - Sex Distribution for Invasive Specimens for All Sites

		Sex		Total
		F	M	
Pathogen				
	CAMPYLOBACTER	Cases	12	28 40
LISTERIA	Percent	30.0	70.0	100.0
	Cases	44	59	103
SALMONELLA	Percent	42.7	57.3	100.0
	Cases	81	116	197
SHIGELLA	Percent	41.1	58.9	100.0
	Cases	1	7	8
VIBRIO	Percent	12.5	87.5	100.0
	Cases	0	5	5
YERSINIA	Percent	0	100.0	100.0
	Cases	3	10	13
Total	Percent	23.1	76.9	100.0
	Cases	141	225	366
	Percent	38.5	61.5	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 16a through 16g - Sex Distribution for Invasive Specimens by Site

Table 16a: Site = California		Sex		Total
		F	M	
Pathogen				
	CAMPYLOBACTER	1	9	10
LISTERIA	Cases	4	5	9
	Percent	44.4	55.6	100.0
SALMONELLA	Cases	19	20	39
	Percent	48.7	51.3	100.0
SHIGELLA	Cases	1	1	2
	Percent	50.0	50.0	100.0
VIBRIO	Cases	-	-	-
	Percent	-	-	-
YERSINIA	Cases	-	1	1
	Percent	-	100.0	100.0
Total	Cases	25	36	61
	Percent	41.0	59.0	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 16a through 16g - Sex Distribution for Invasive Specimens by Site

Table 16b: Site = Connecticut		Sex		Total
		F	M	
Pathogen				
	CAMPYLOBACTER	2	6	8
LISTERIA	Cases	5	21	26
	Percent	19.2	80.8	100.0
SALMONELLA	Cases	11	20	31
	Percent	35.5	64.5	100.0
SHIGELLA	Cases	-	1	1
	Percent	-	100.0	100.0
VIBRIO	Cases	-	1	1
	Percent	-	100.0	100.0
YERSINIA	Cases	2	-	2
	Percent	100.0	-	100.0
Total	Cases	20	49	69
	Percent	29.0	71.0	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 16a through 16g - Sex Distribution for Invasive Specimens by Site

Table 16c: Site = Georgia		Sex		Total
		F	M	
Pathogen				
	CAMPYLOBACTER	1	7	8
LISTERIA	Percent	12.5	87.5	100.0
	Cases	10	8	18
SALMONELLA	Percent	55.6	44.4	100.0
	Cases	19	26	45
SHIGELLA	Percent	42.2	57.8	100.0
	Cases	-	3	3
VIBRIO	Percent	-	100.0	100.0
	Cases	-	3	3
YERSINIA	Percent	25.0	75.0	100.0
	Cases	1	3	4
Total	Cases	31	50	81
	Percent	38.3	61.7	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 16a through 16g - Sex Distribution for Invasive Specimens by Site

Table 16d: Site = Maryland		Sex		Total
		F	M	
Pathogen				
	CAMPYLOBACTER	4	3	7
LISTERIA	Cases	6	5	11
	Percent	54.5	45.5	100.0
SALMONELLA	Cases	15	26	41
	Percent	36.6	63.4	100.0
SHIGELLA	Cases	-	1	1
	Percent	-	100.0	100.0
VIBRIO	Cases	-	1	1
	Percent	-	100.0	100.0
YERSINIA	Cases	-	2	2
	Percent	-	100.0	100.0
Total	Cases	25	38	63
	Percent	39.7	60.3	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 16a through 16g - Sex Distribution for Invasive Specimens by Site

Table 16e: Site = Minnesota		Sex		Total
		F	M	
Pathogen				
	CAMPYLOBACTER	3	2	5
LISTERIA	Percent	60.0	40.0	100.0
	Cases	8	8	16
SALMONELLA	Percent	50.0	50.0	100.0
	Cases	9	12	21
SHIGELLA	Percent	42.9	57.1	100.0
	Cases	-	-	-
VIBRIO	Percent	-	-	-
	Cases	-	-	-
YERSINIA	Percent	-	-	-
	Cases	-	-	-
Total	Cases	20	22	42
	Percent	47.6	52.4	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 16a through 16g - Sex Distribution for Invasive Specimens by Site

Table 16f: Site = New York		Sex		Total
		F	M	
Pathogen				
	CAMPYLOBACTER	Cases	-	-
LISTERIA	Percent	-	-	-
	Cases	5	2	7
SALMONELLA	Percent	71.4	28.6	100.0
	Cases	6	4	10
SHIGELLA	Percent	60.0	40.0	100.0
	Cases	-	1	1
VIBRIO	Percent	-	-	-
	Cases	-	-	-
YERSINIA	Percent	-	-	-
	Cases	-	-	-
Total	Cases	11	7	18
	Percent	61.1	38.9	100.0

CDC's Emerging Infections Program (FoodNet)
 FoodNet 1998 Final Report
 Tables 16a through 16g - Sex Distribution for Invasive Specimens by Site

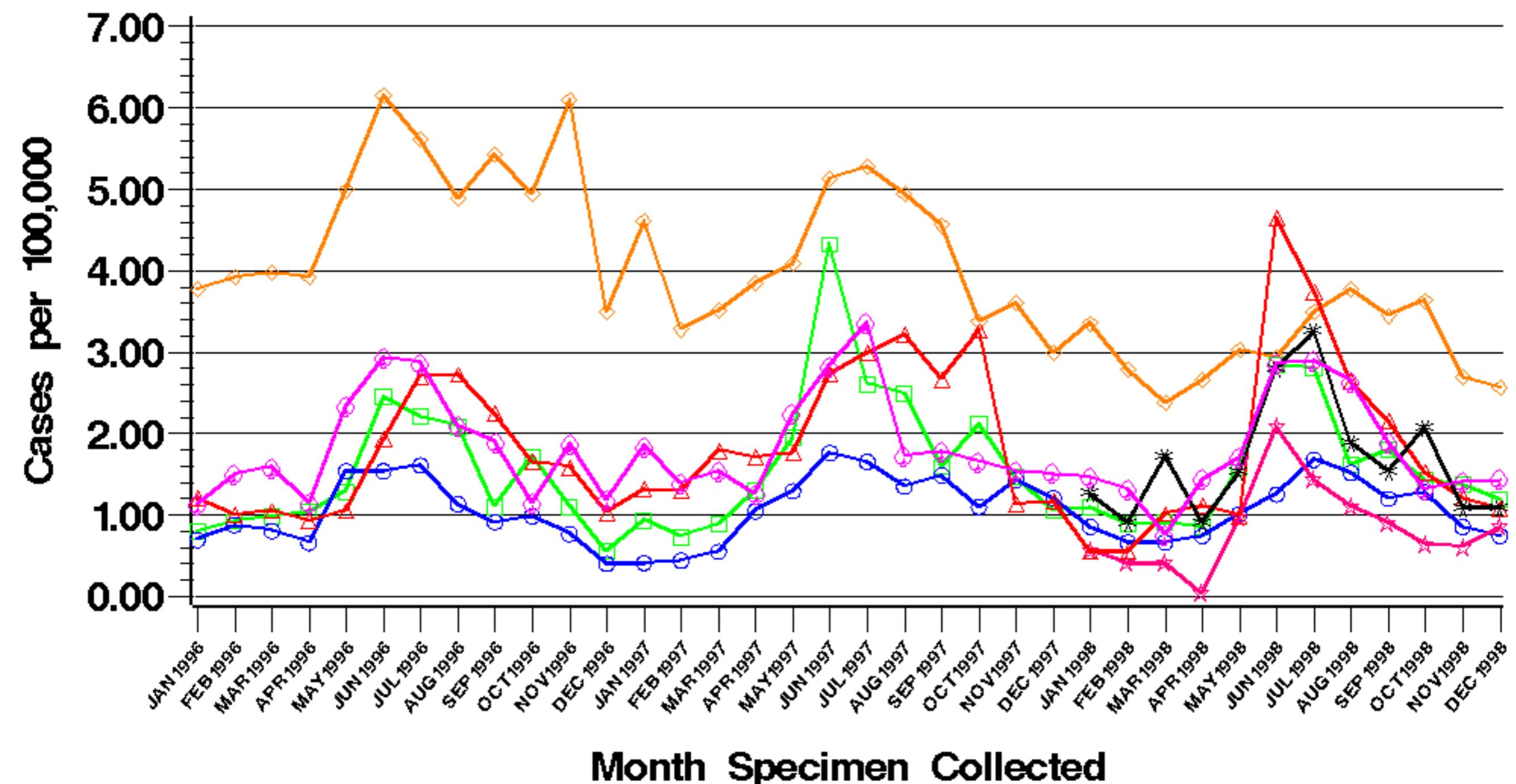
Table 16g: Site = Oregon		Sex		Total
		F	M	
Pathogen				
CAMPYLOBACTER	Cases	1	1	2
	Percent	50.0	50.0	100.0
LISTERIA	Cases	6	10	16
	Percent	37.5	62.5	100.0
SALMONELLA	Cases	2	8	10
	Percent	20.0	80.0	100.0
SHIGELLA	Cases	-	-	-
	Percent	-	-	-
VIBRIO	Cases	-	-	-
	Percent	-	-	-
YERSINIA	Cases	-	4	4
	Percent	-	100.0	100.0
Total	Cases	9	23	32
	Percent	28.1	71.9	100.0

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = CAMPYLOBACTER



Month Specimen Collected

SITE California

Minnesota

Connecticut

New York

Georgia

Oregon

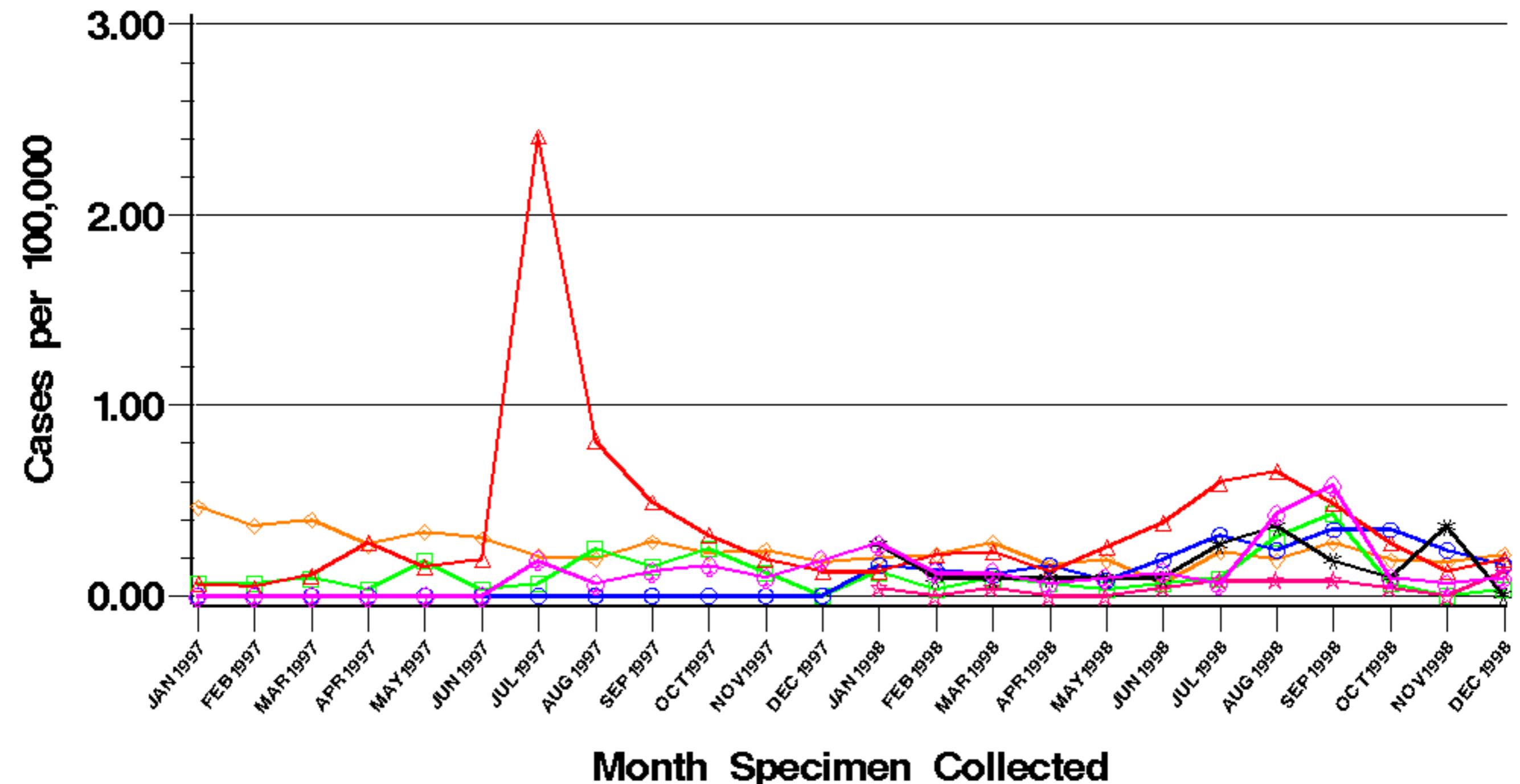
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = CRYPTOSPORIDIUM



Month Specimen Collected

SITE

♦♦♦ California

▲▲▲ Minnesota

■■■ Connecticut

*** New York

○○○ Georgia

◆◆◆ Oregon

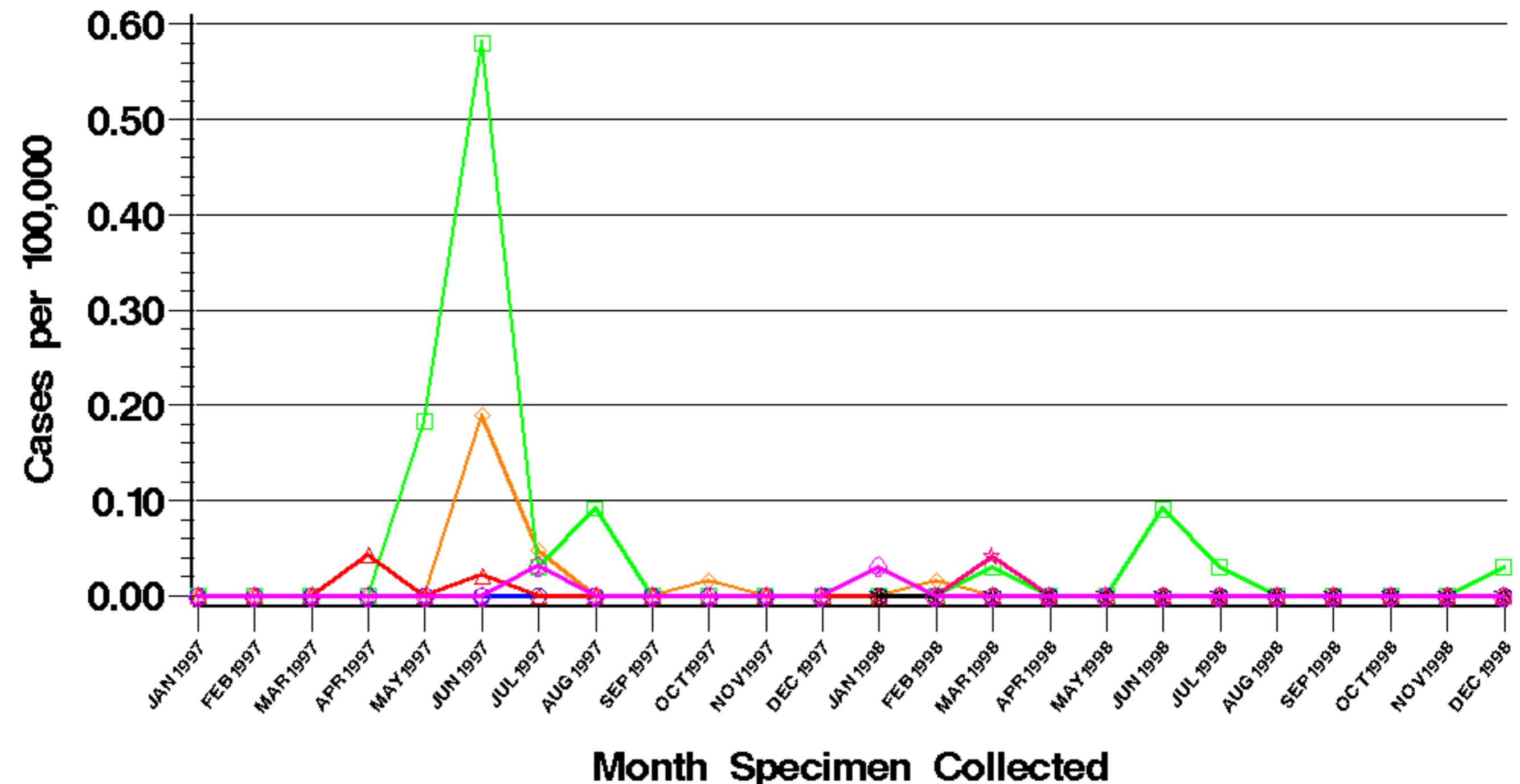
*** Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = CYCLOSPORA



Month Specimen Collected

SITE

♦♦♦ California

▲▲▲ Minnesota

■■■ Connecticut

*** New York

○○○ Georgia

◆◆◆ Oregon

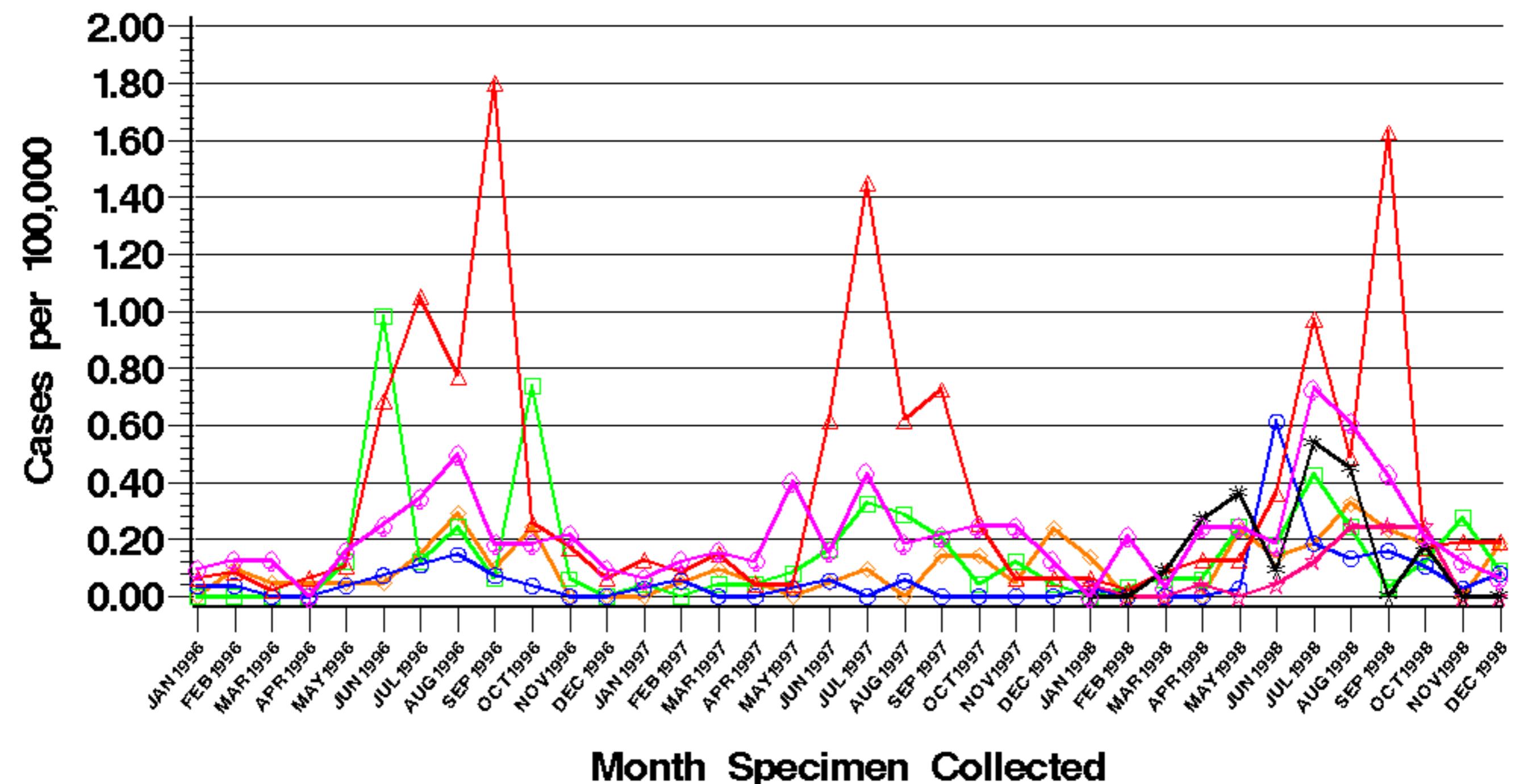
★★★ Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = E. COLI O157



Month Specimen Collected

SITE California
 Minnesota

Connecticut
New York

Georgia

Oregon

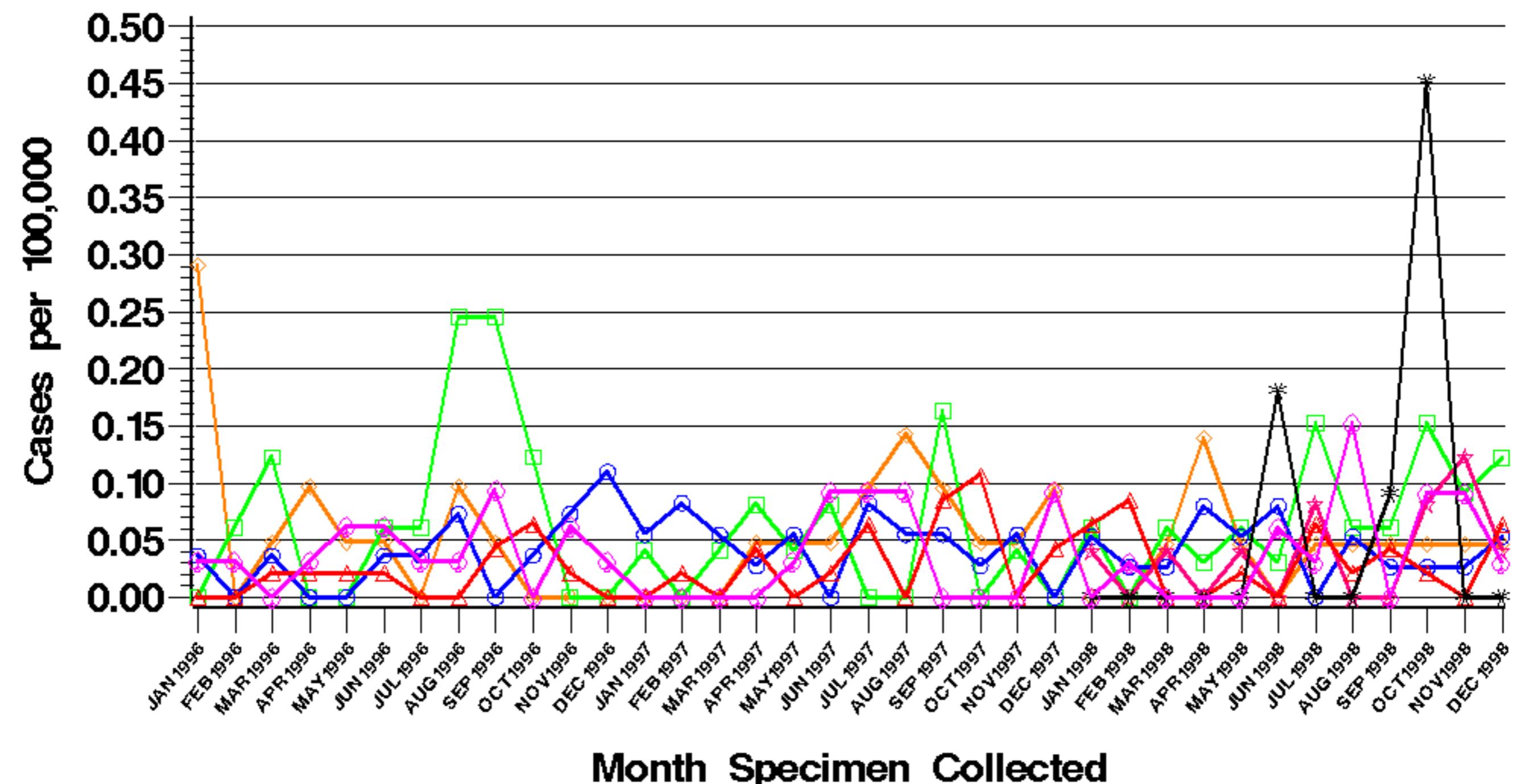
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = LISTERIA



Month Specimen Collected

SITE California

Minnesota

Connecticut

New York

Georgia

Oregon

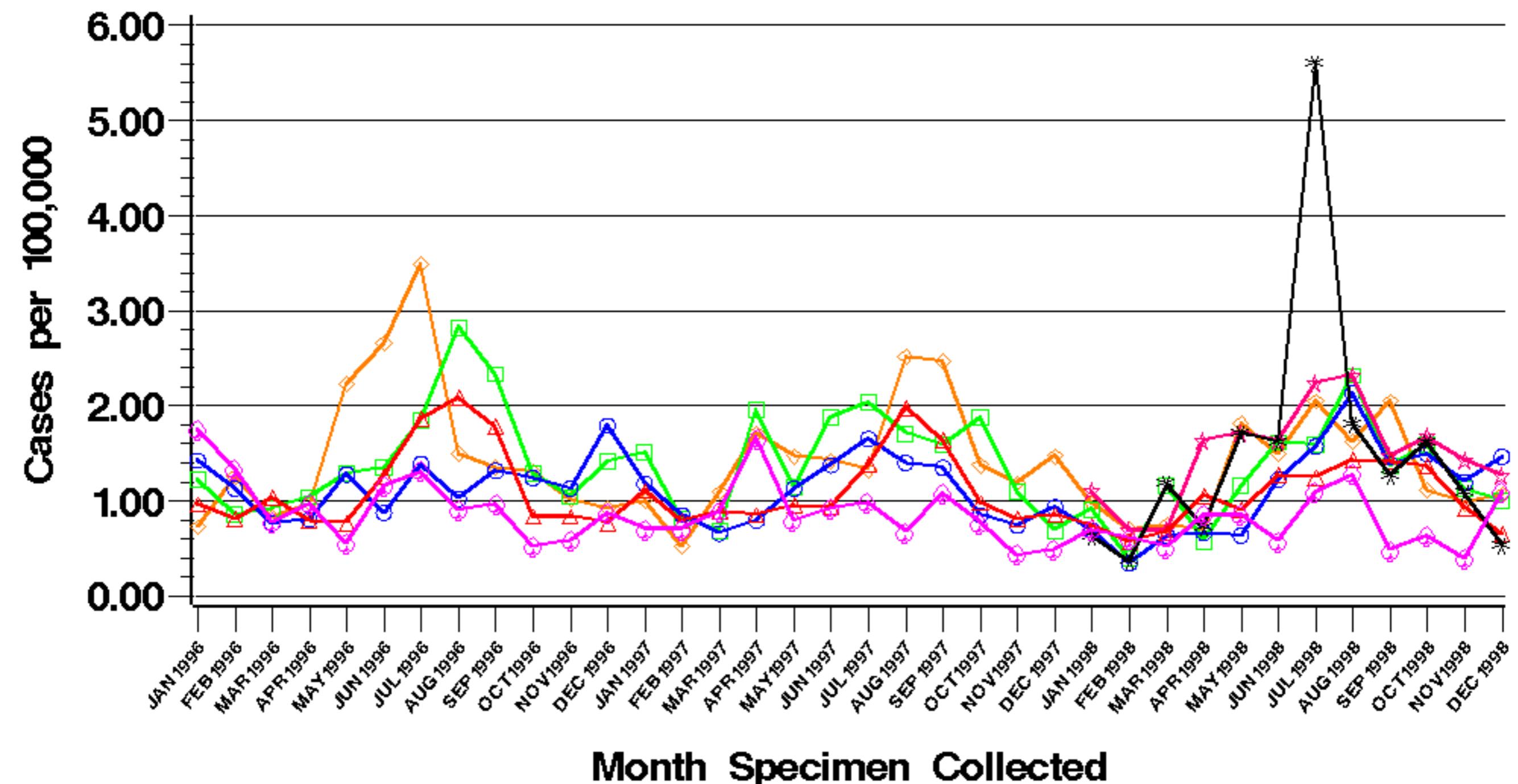
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SALMONELLA



Month Specimen Collected

SITE California

Minnesota

Connecticut

New York

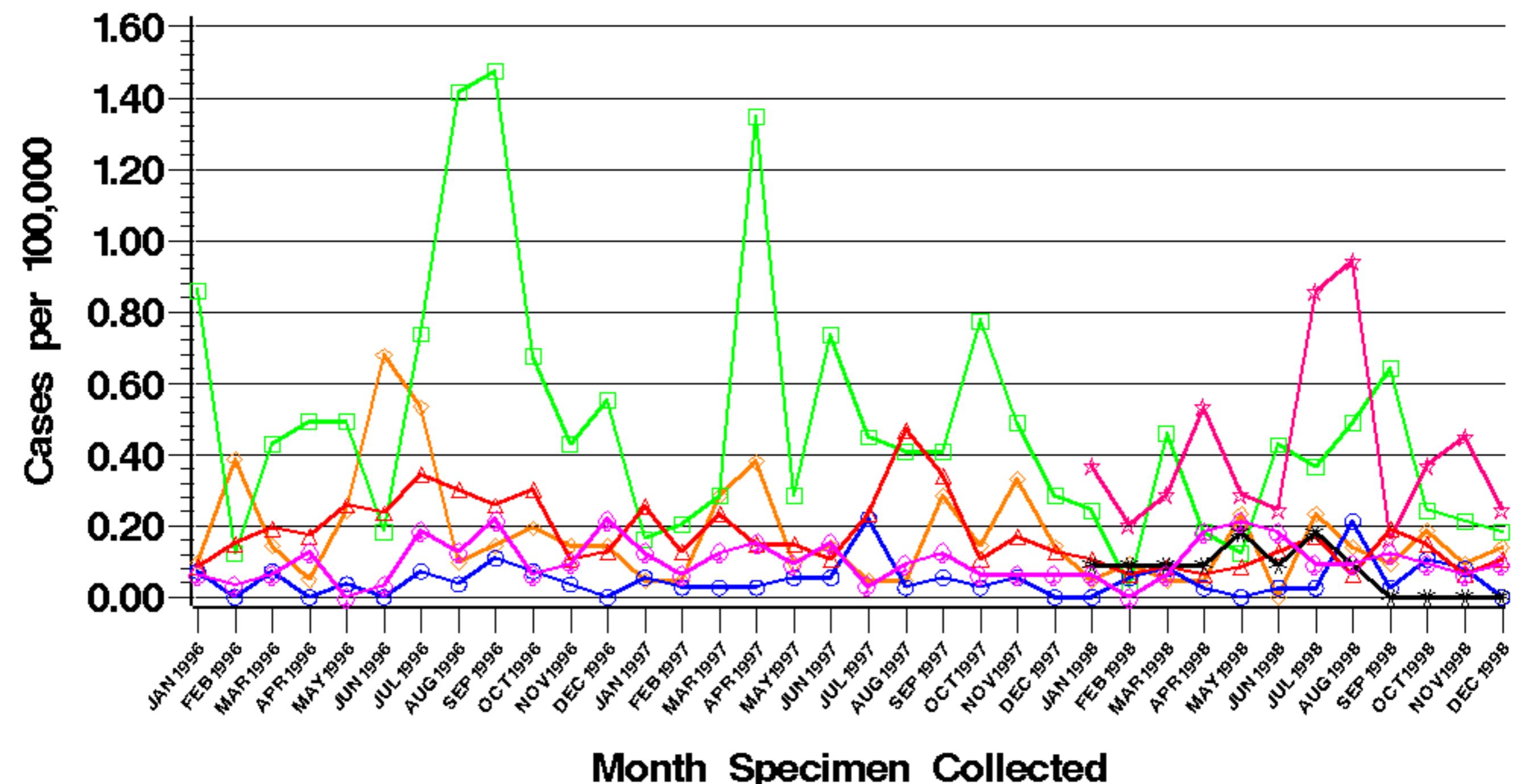
Georgia

Oregon

Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)
Rate per 100,000 per Month Postcensal Population Estimates
Pathogen = SALMONELLA Serotype/Species = ENTERITIDIS



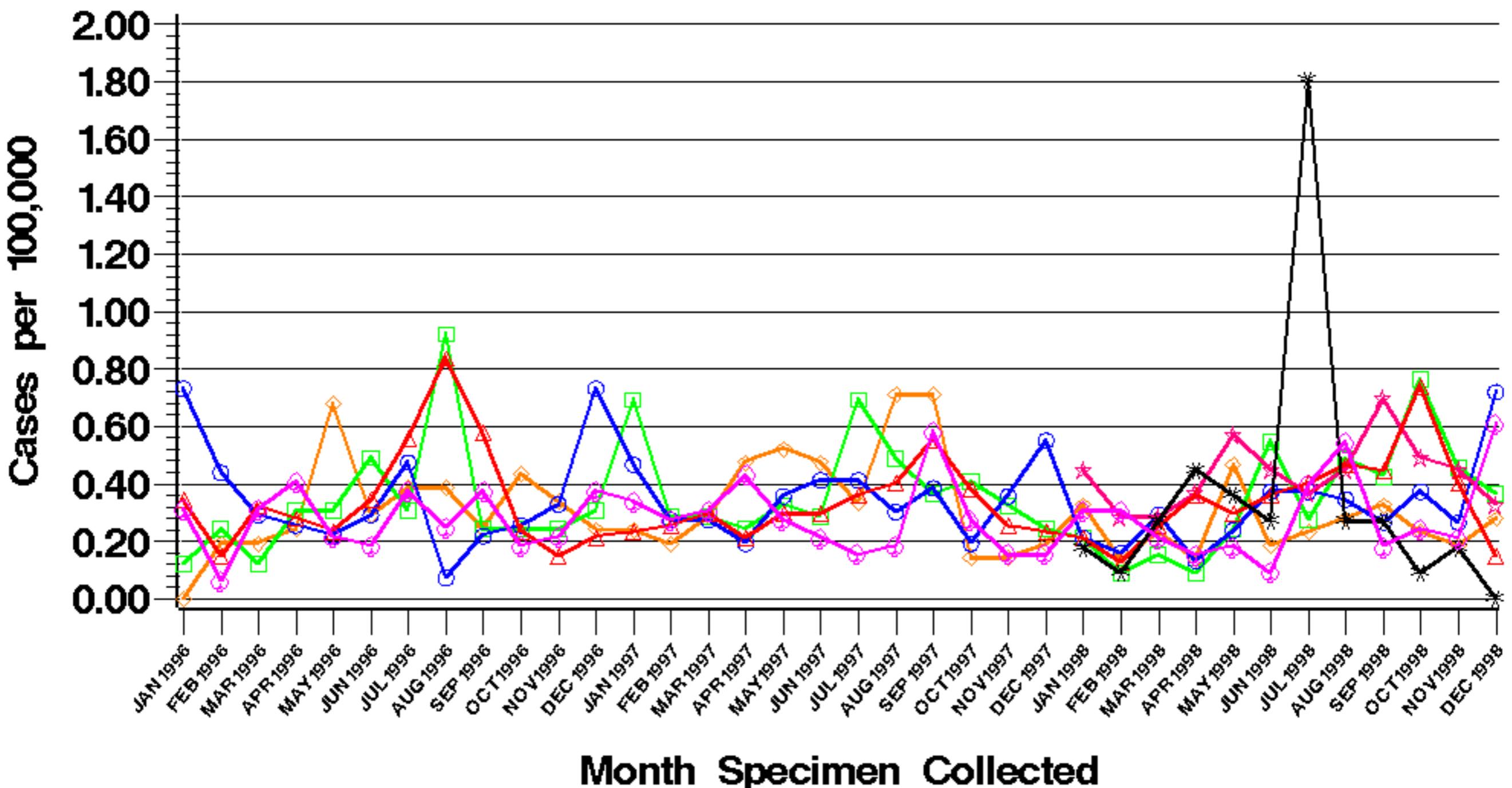
SITE California Connecticut Georgia Maryland
 Minnesota New York Oregon

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SALMONELLA Serotype/Species = TYPHIMURIUM



Month Specimen Collected

SITE California

Minnesota

Connecticut

New York

Georgia

Oregon

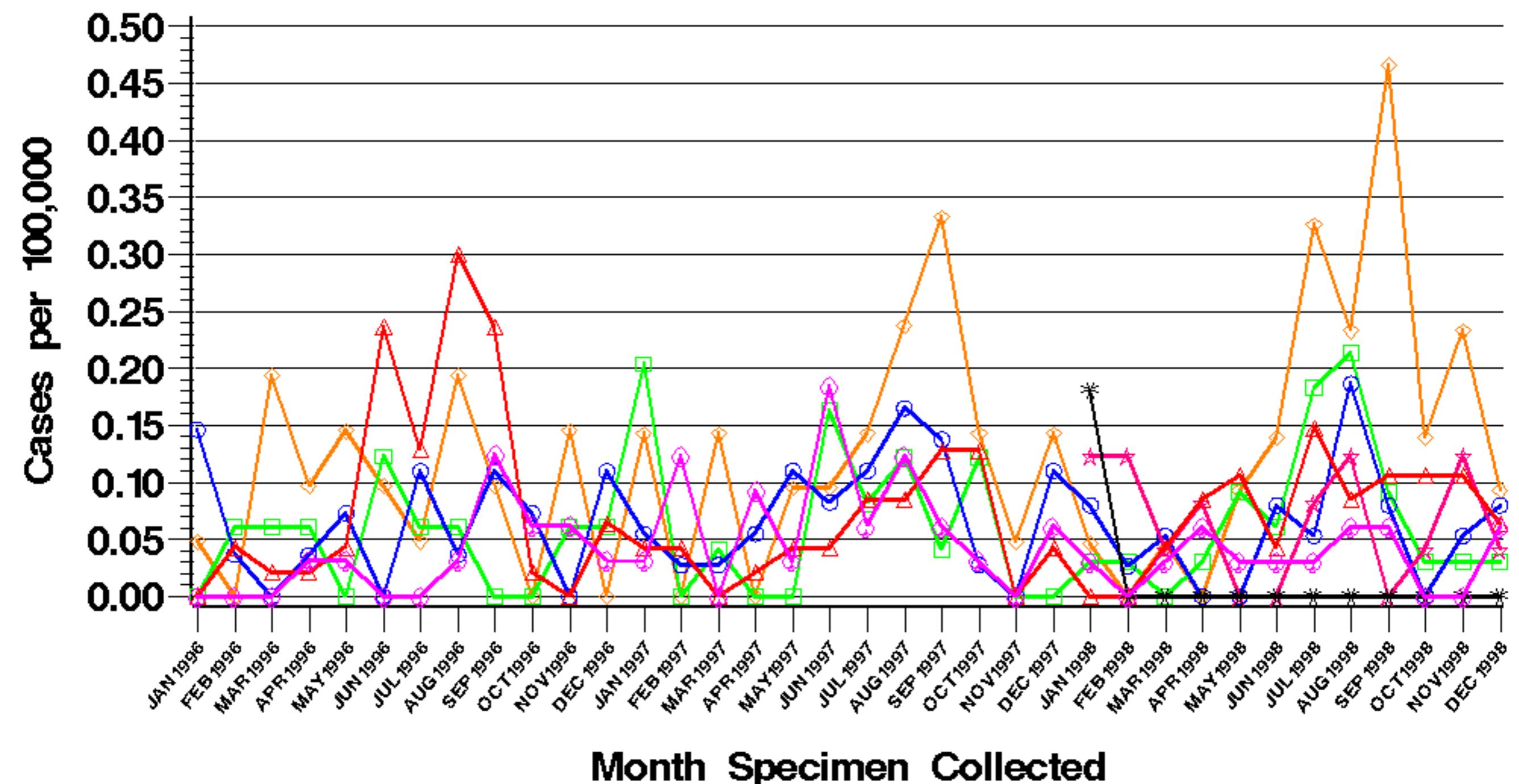
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SALMONELLA Serotype/Species = HEIDELBERG



Month Specimen Collected

SITE California
 Minnesota

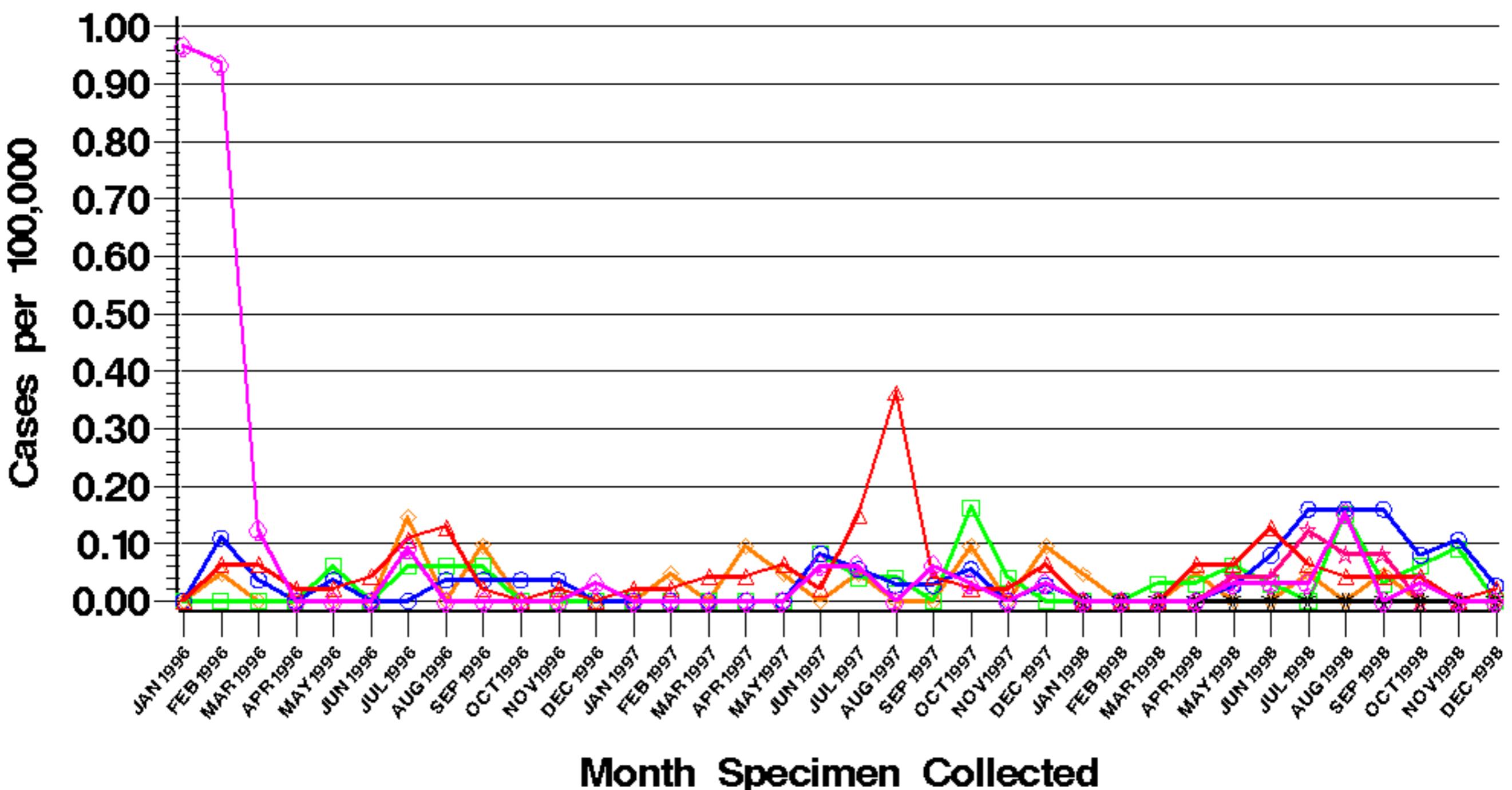
Connecticut
New York

Georgia
Oregon

Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)
Rate per 100,000 per Month Postcensal Population Estimates
Pathogen = SALMONELLA Serotype/Species = NEWPORT



Month Specimen Collected

SITE California
 Minnesota

 Connecticut  Georgia
 New York  Oregon

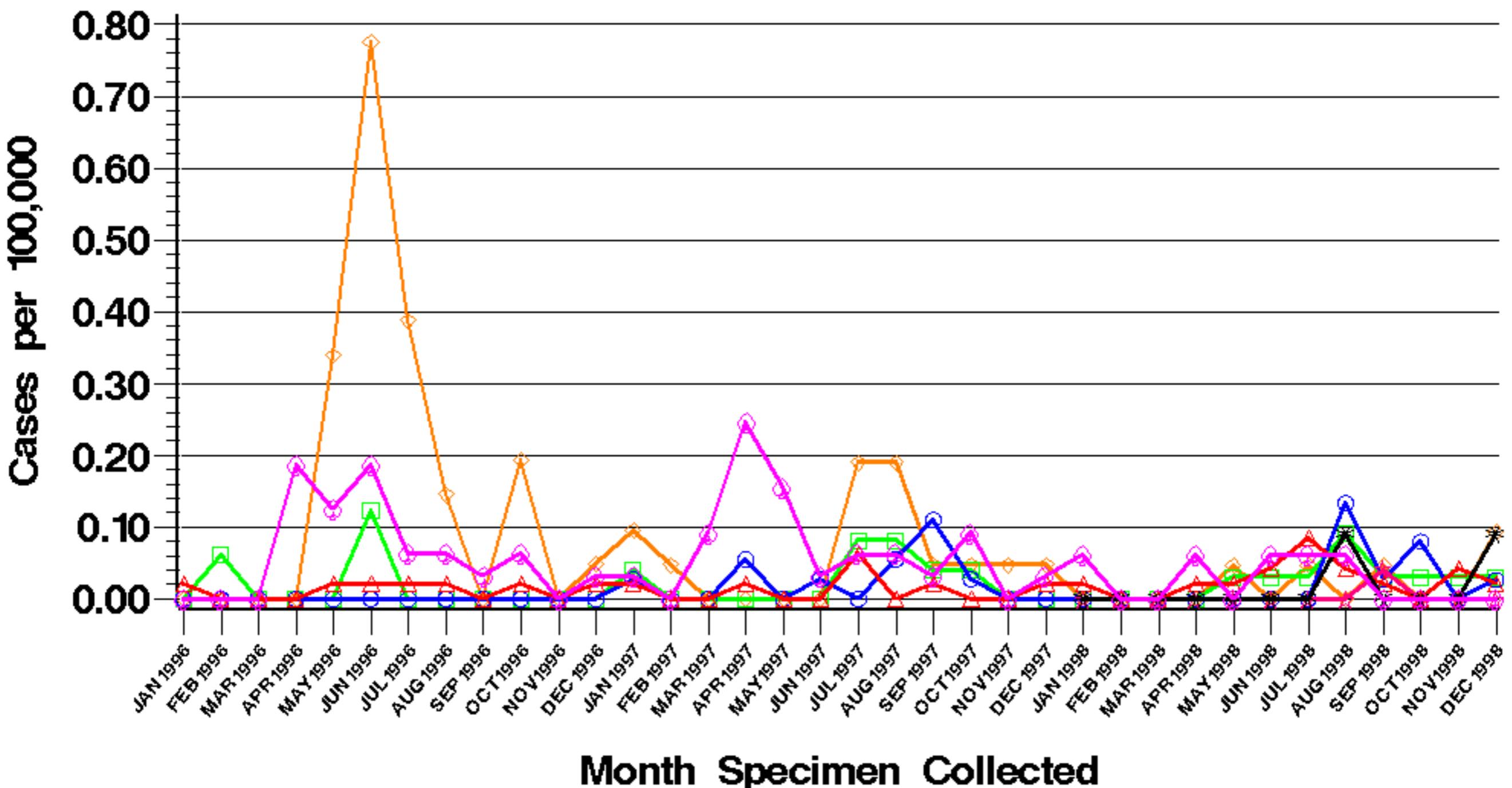
*** Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SALMONELLA Serotype/Species = MONTEVIDEO



Month Specimen Collected

SITE California
 Minnesota

Connecticut
New York

Georgia
Oregon

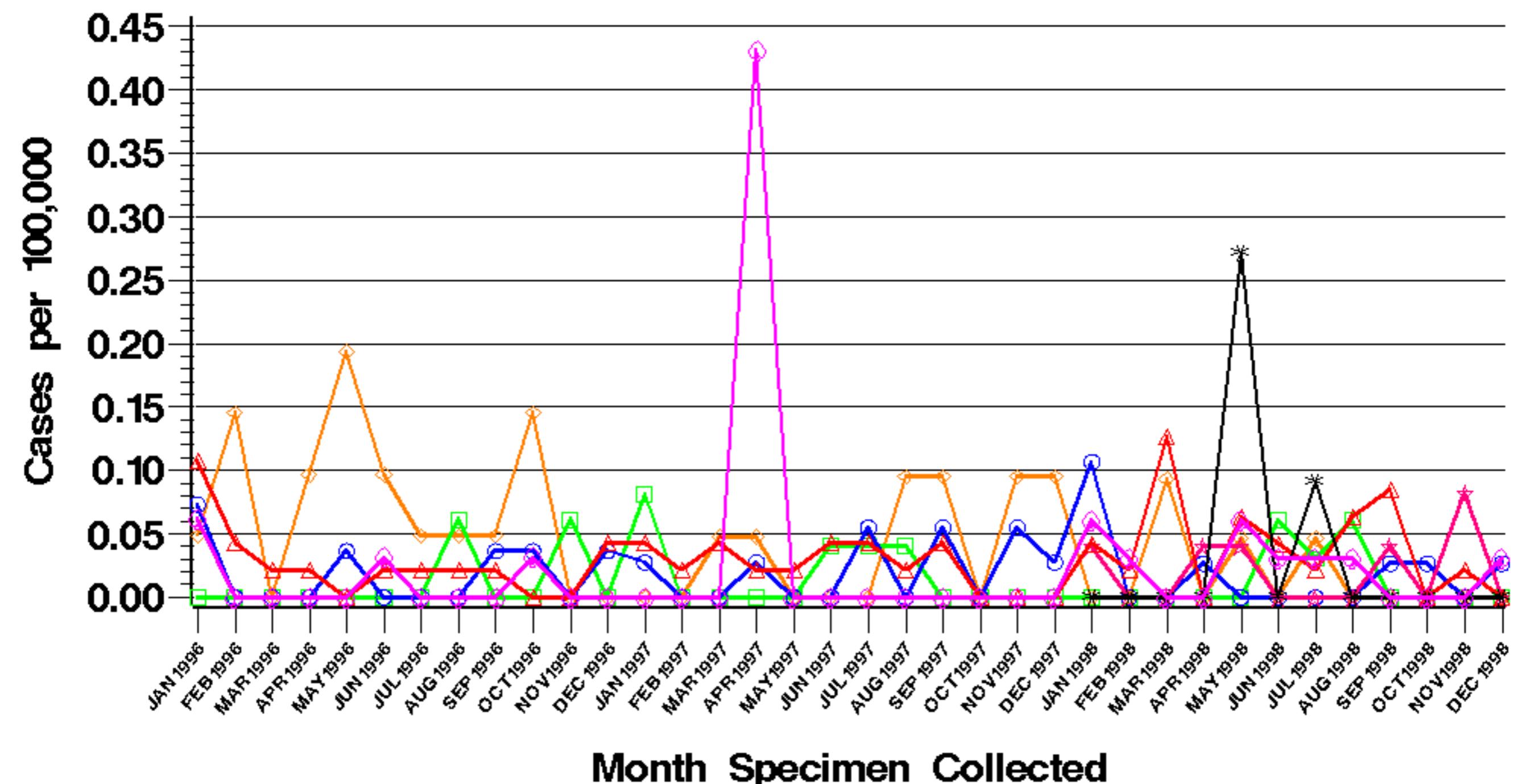
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SALMONELLA Serotype/Species = AGONA



Month Specimen Collected

SITE California
 Minnesota

Connecticut
New York

Georgia

Oregon

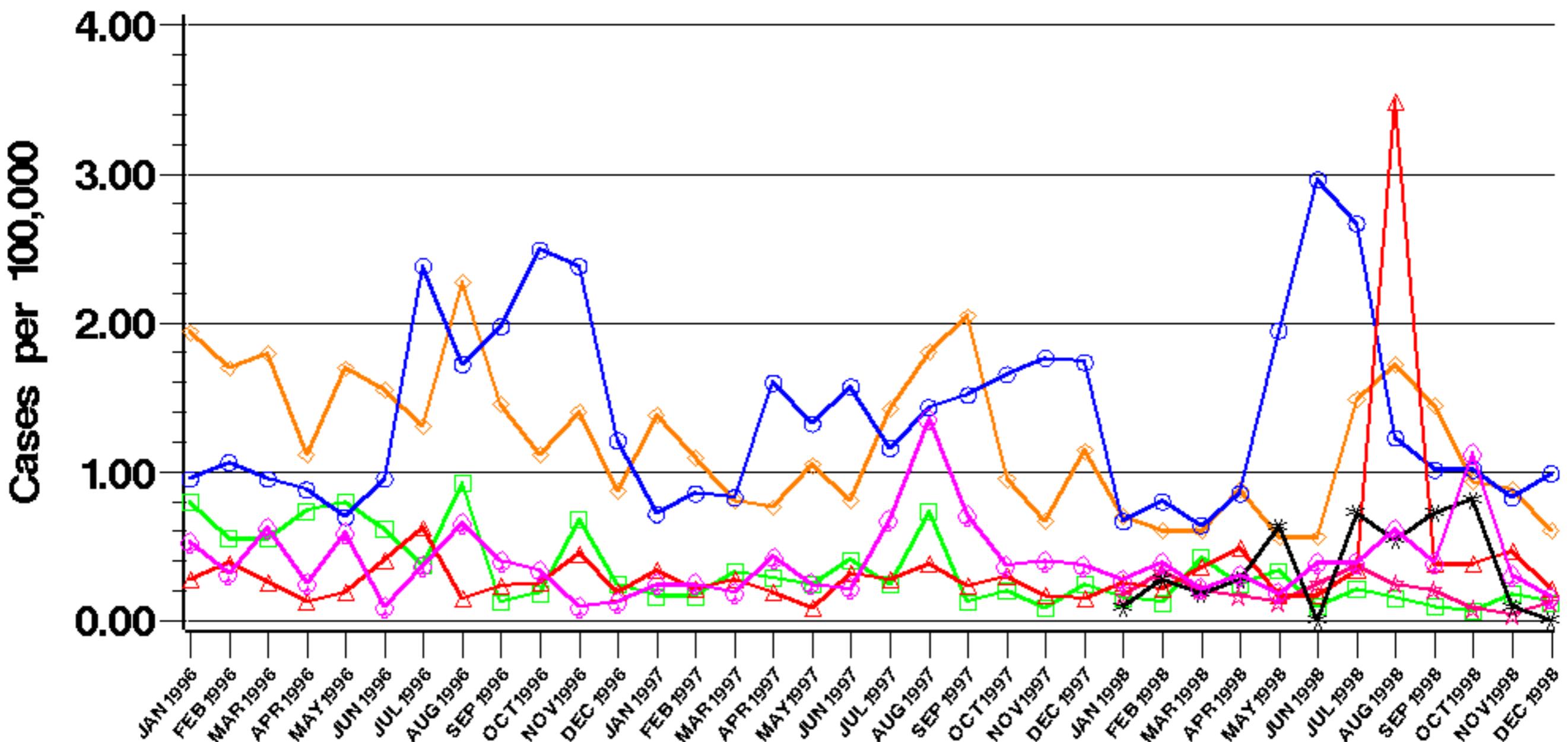
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SHIGELLA



Month Specimen Collected

SITE California

 California

 Minnesota

 Connecticut

****New York

 Georgia

Oregon

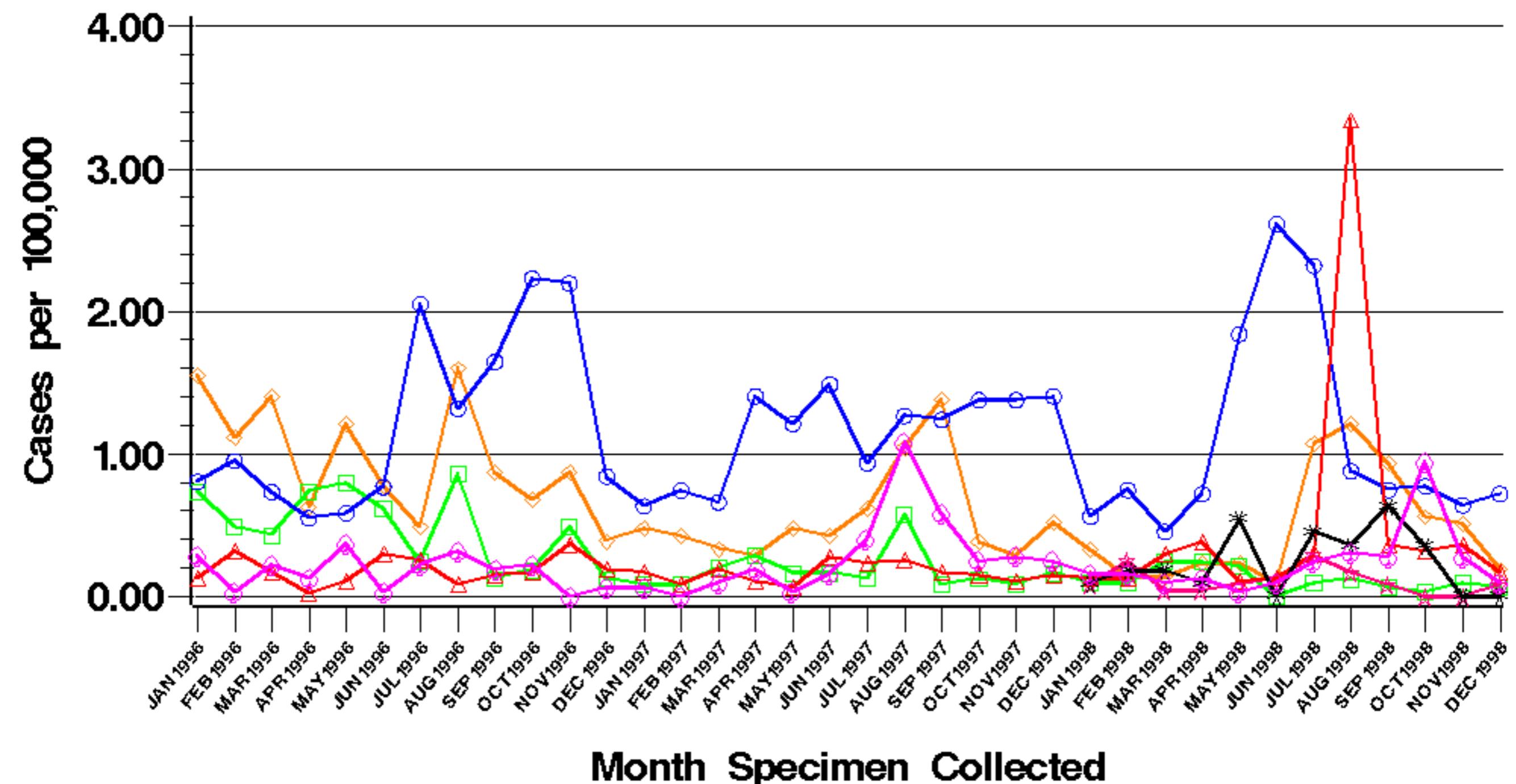
*** Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SHIGELLA Serotype/Species = SONNEI



Month Specimen Collected

SITE California

Minnesota

Connecticut

New York

Georgia

Oregon

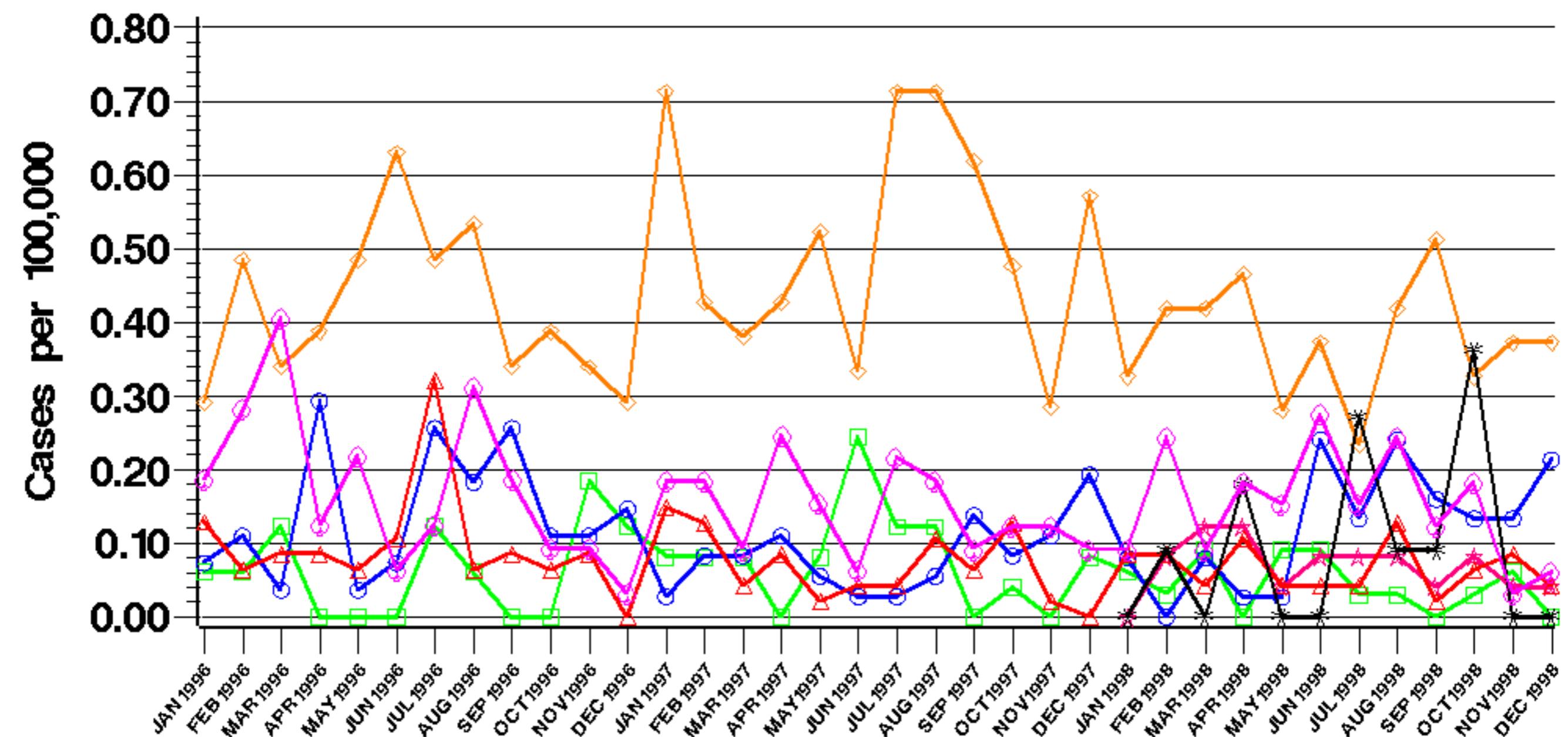
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SHIGELLA Serotype/Species = FLEXNERI



Month Specimen Collected

SITE California
 Minnesota

Connecticut
New York

Georgia

Oregon

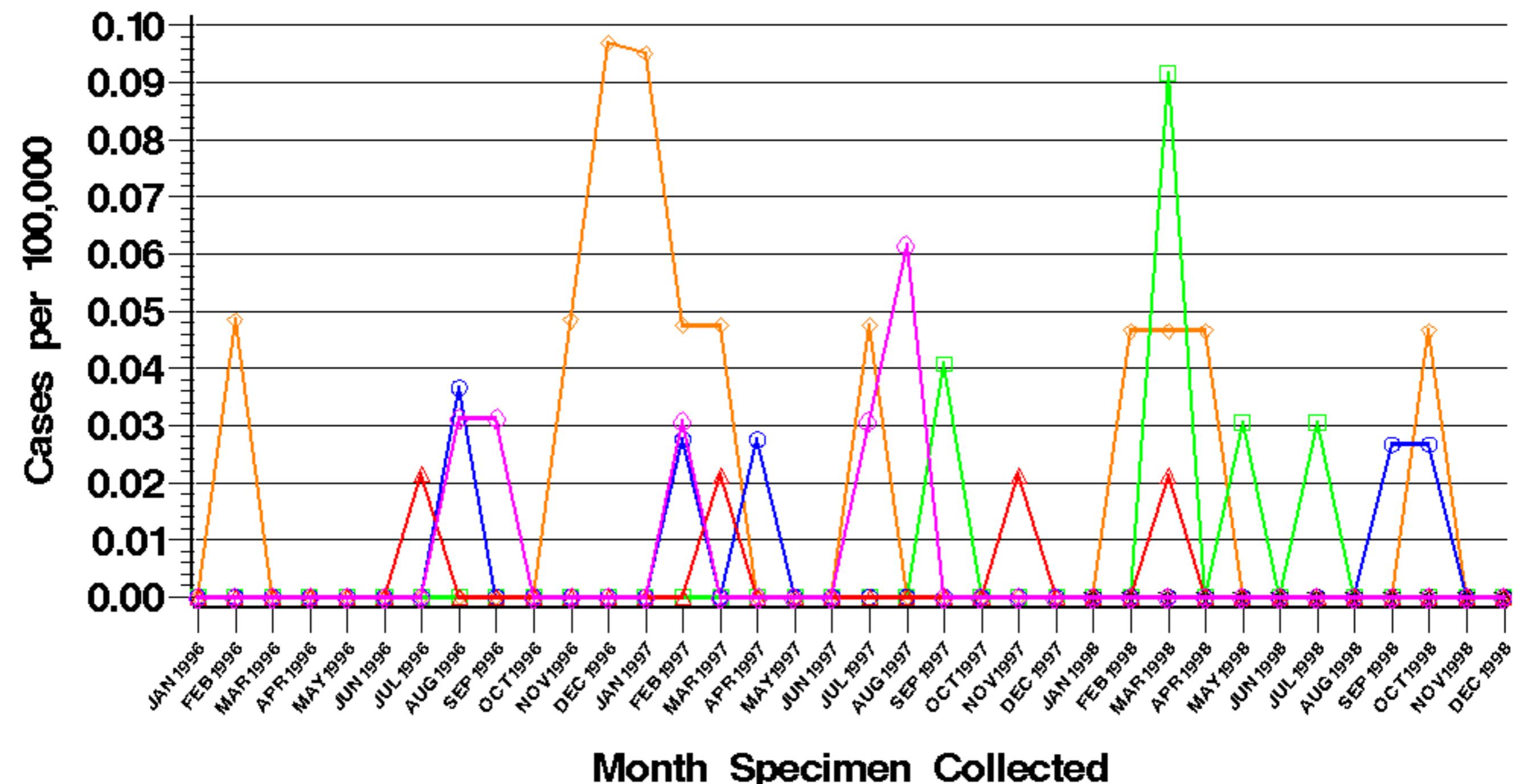
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = SHIGELLA Serotype/Species = DYSENTERIA



Month Specimen Collected

SITE California

Minnesota

Connecticut

New York

Georgia

Oregon

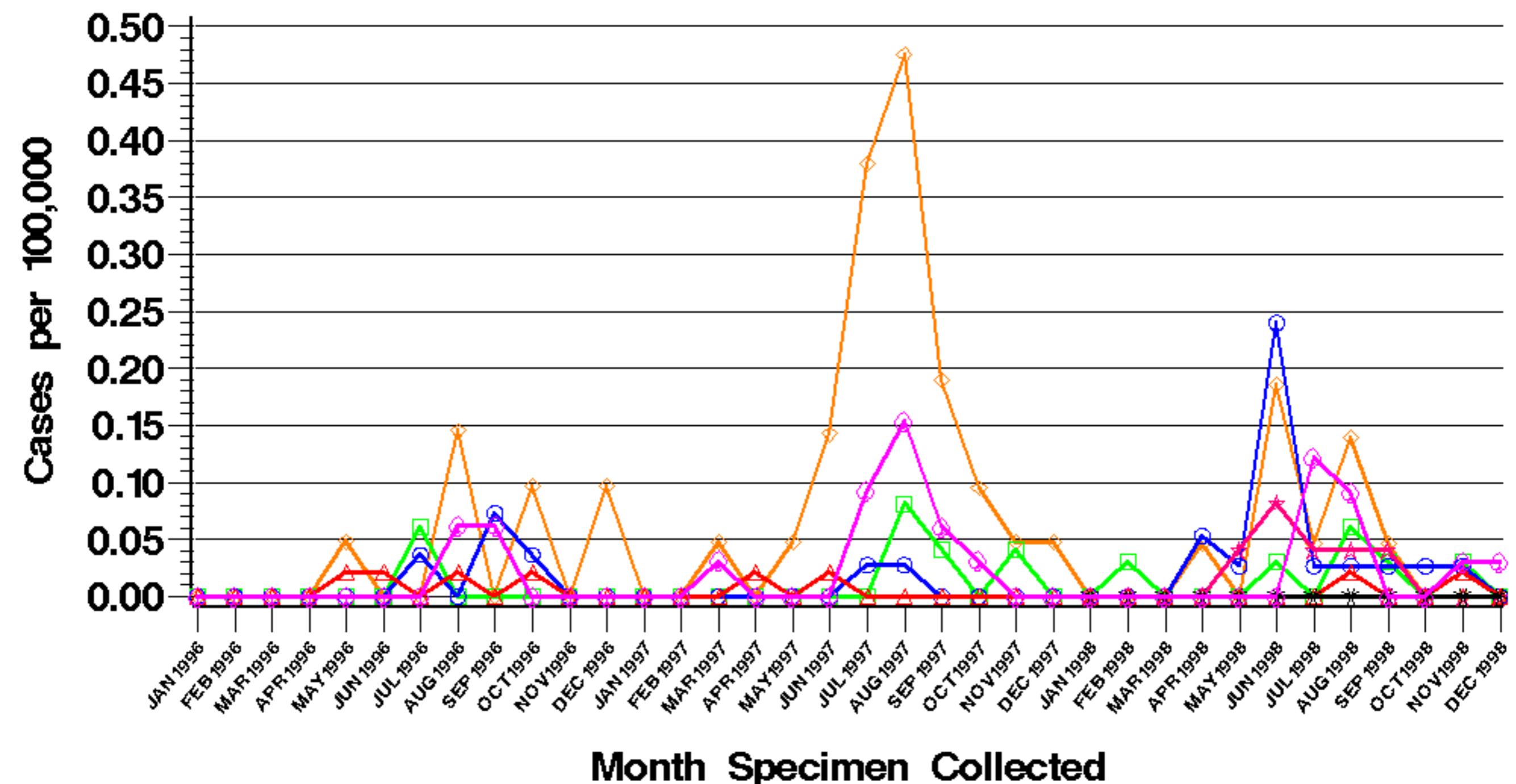
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = VIBRIO



Month Specimen Collected

SITE California

Minnesota

Connecticut

New York

Georgia

Oregon

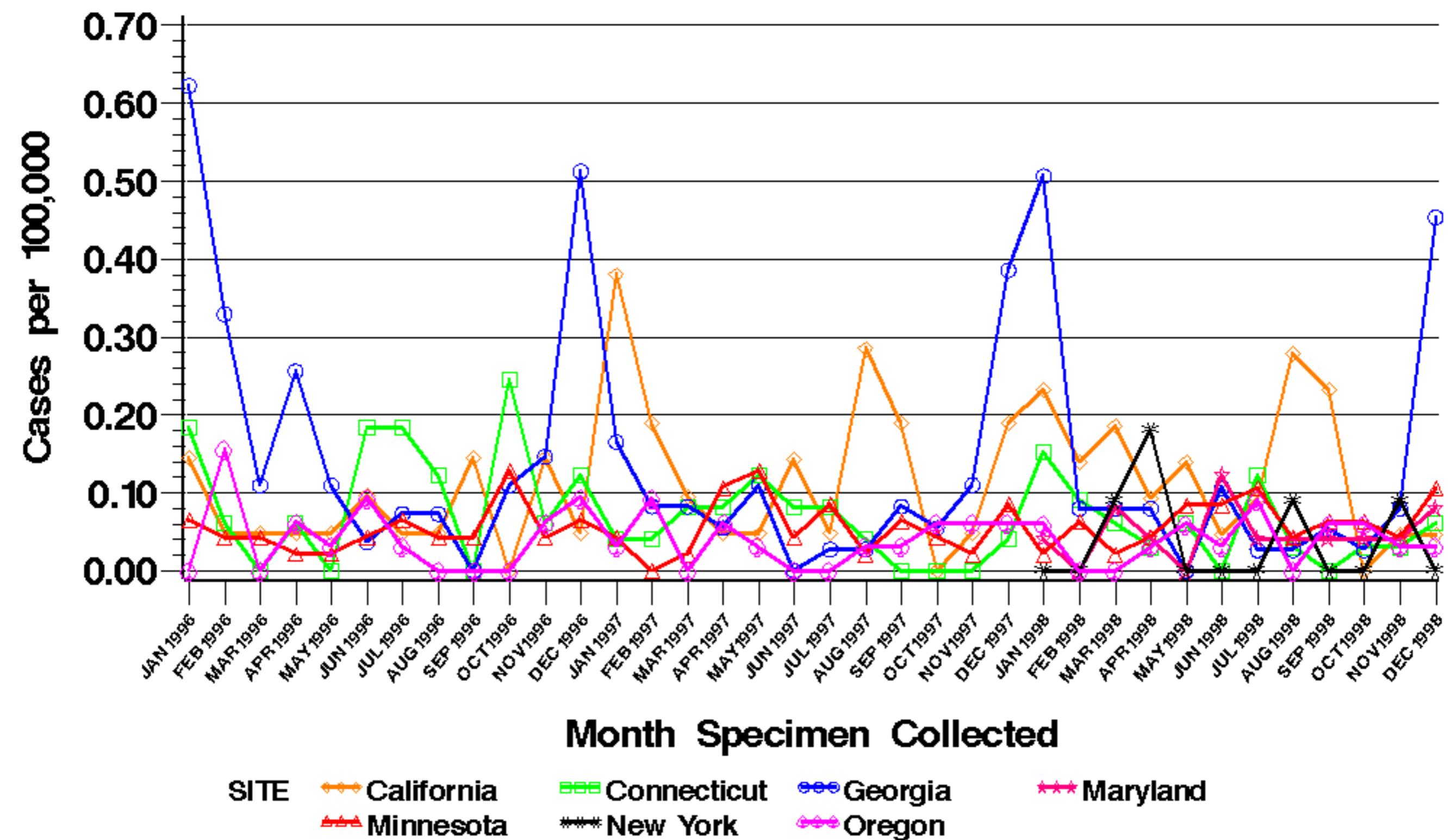
Maryland

CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Rate per 100,000 per Month Postcensal Population Estimates

Pathogen = YERSINIA



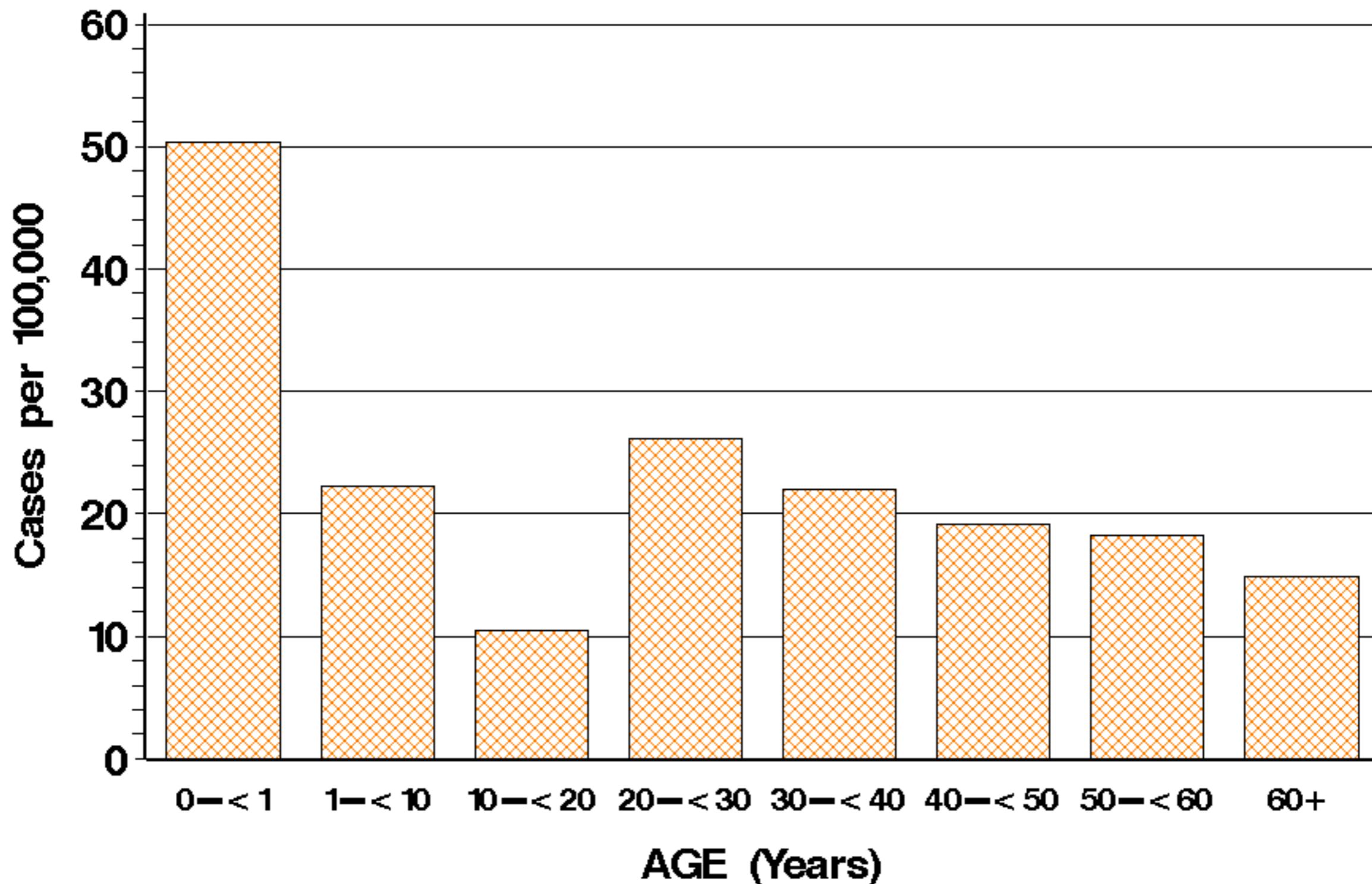
CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Cases per 100,000 Postcensal Population Estimates Age Distribution by Pathogen for All Sites

FoodNet 1998 Final Report

Pathogen = CAMPYLOBACTER



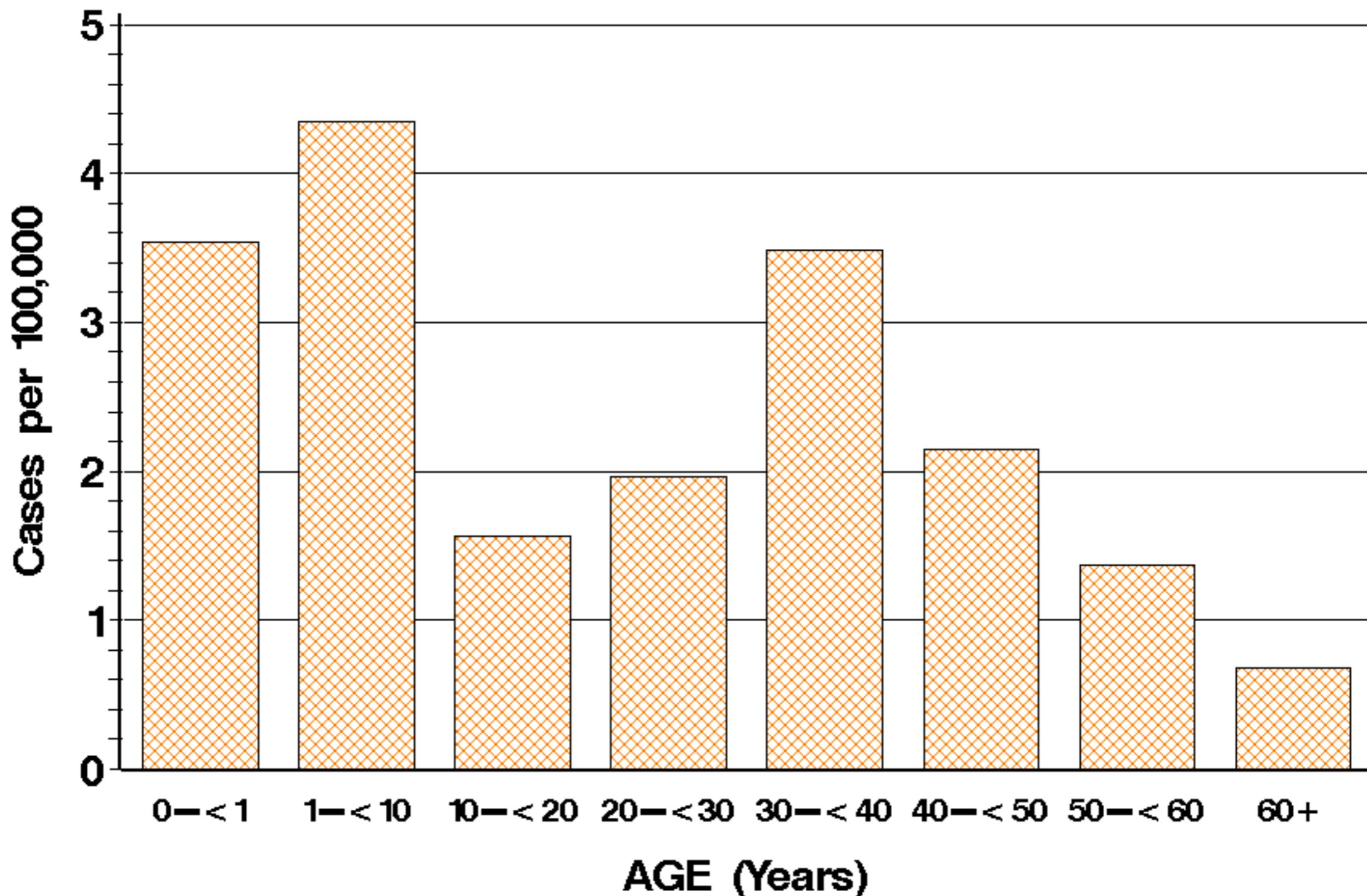
CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Cases per 100,000 Postcensal Population Estimates Age Distribution by Pathogen for All Sites

FoodNet 1998 Final Report

Pathogen = CRYPTOSPORIDIUM



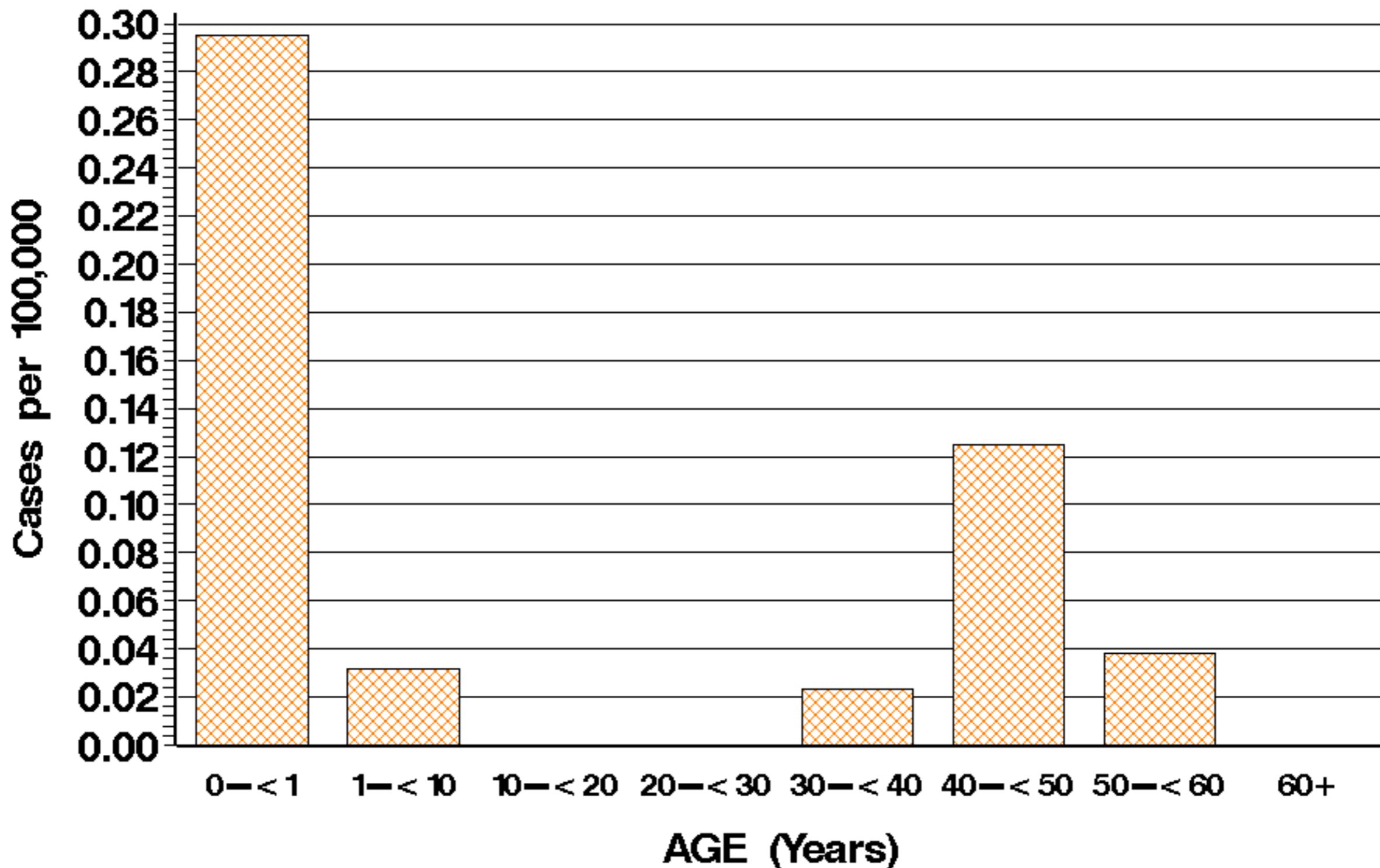
CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

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FoodNet 1998 Final Report

Pathogen = CYCLOSPORA



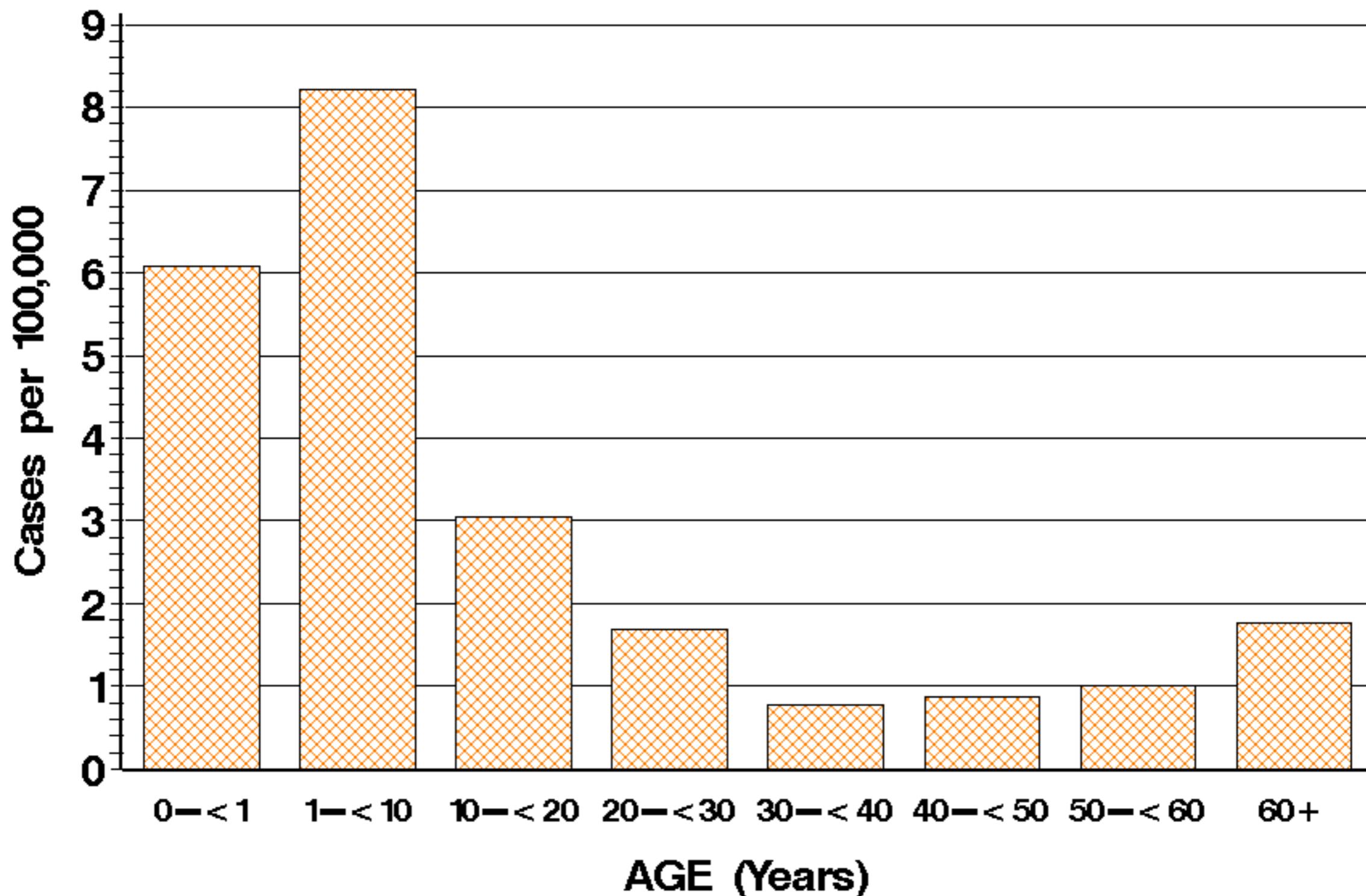
CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

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FoodNet 1998 Final Report

Pathogen = E. COLI O157



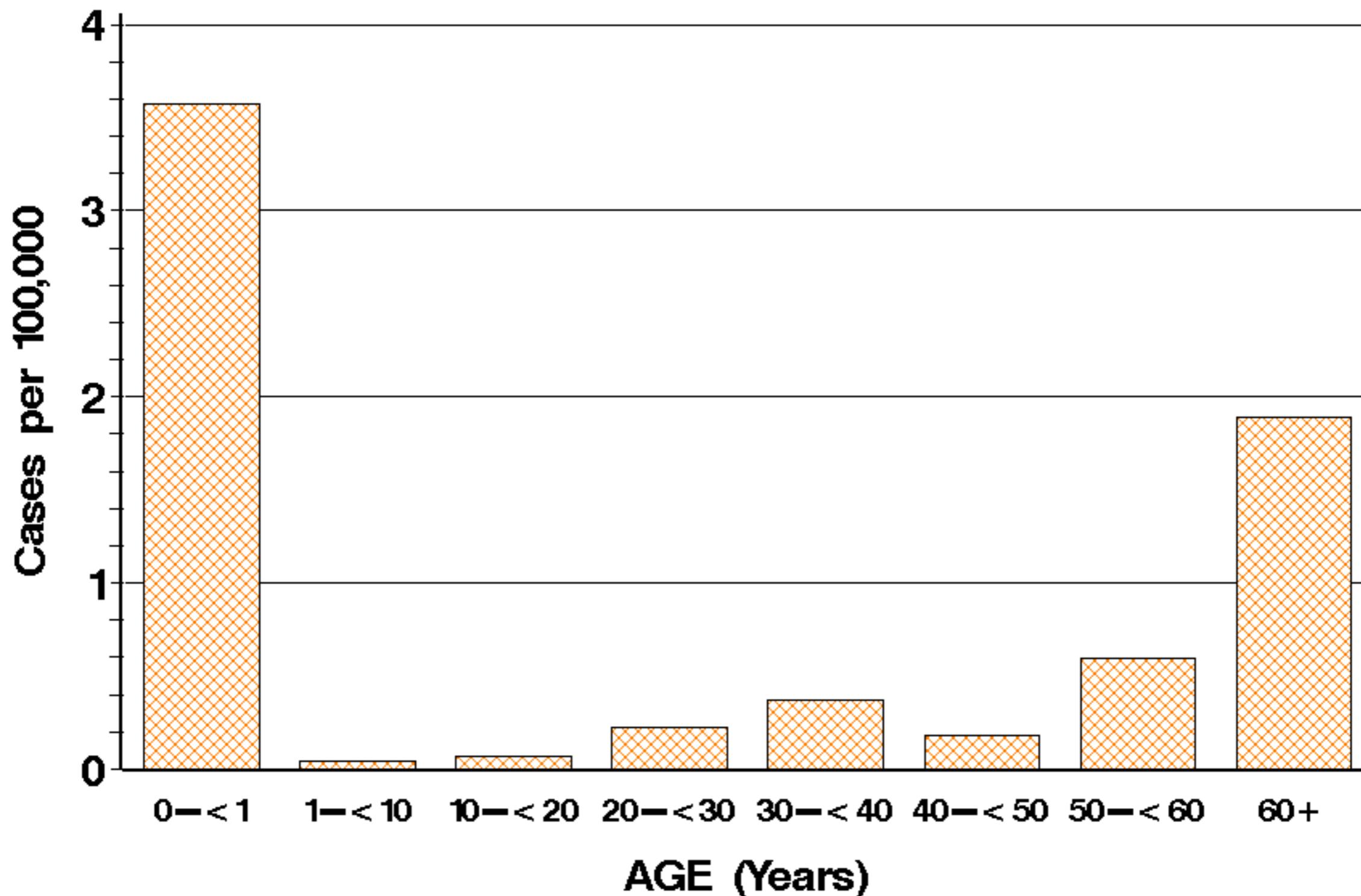
CDC's Emerging Infections Program

CDC/USDA/FDA Foodborne Diseases Active Surveillance Network (FoodNet)

Cases per 100,000 Postcensal Population Estimates Age Distribution by Pathogen for All Sites

FoodNet 1998 Final Report

Pathogen = LISTERIA



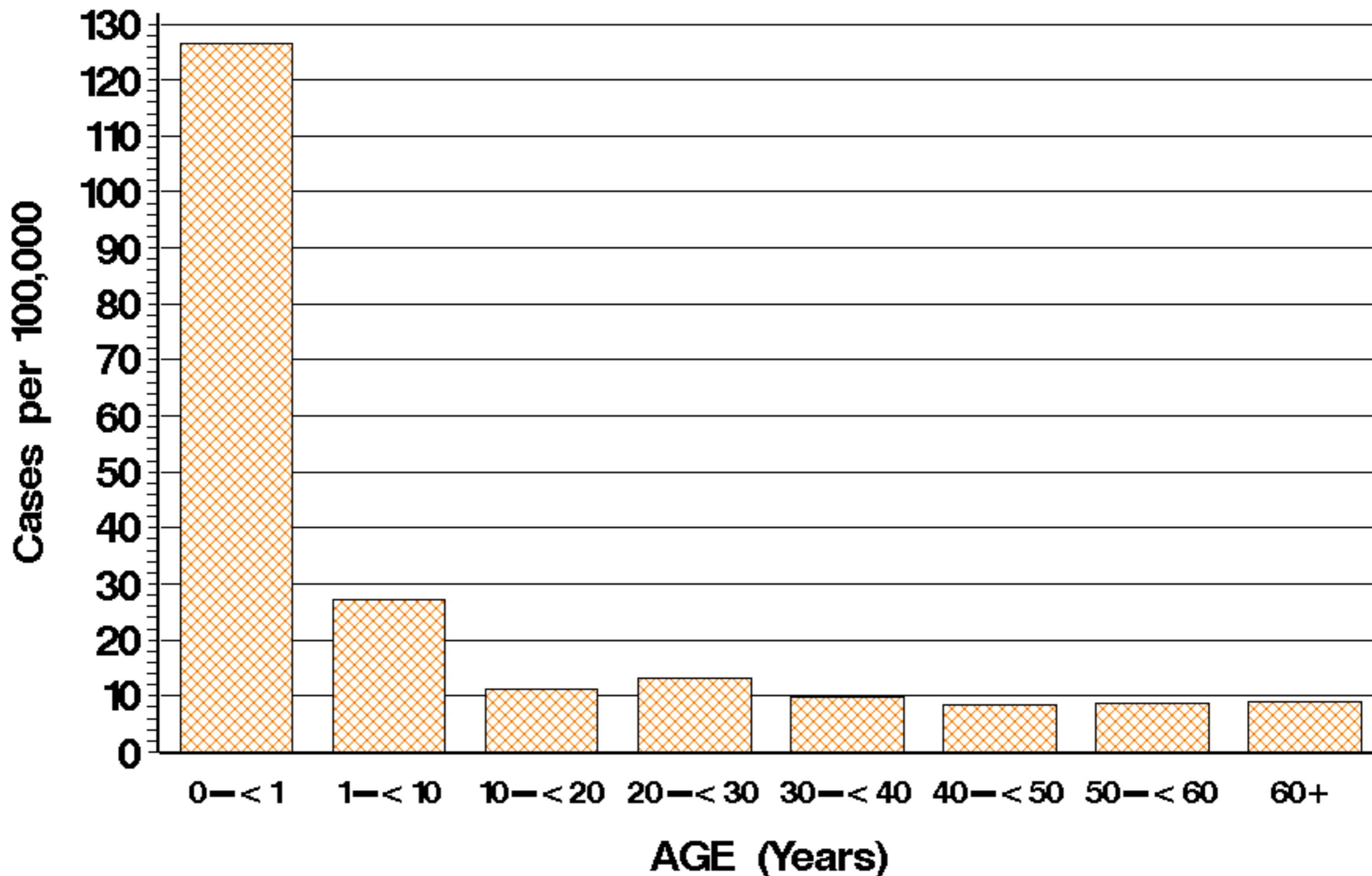
CDC's Emerging Infections Program

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FoodNet 1998 Final Report

Pathogen = SALMONELLA



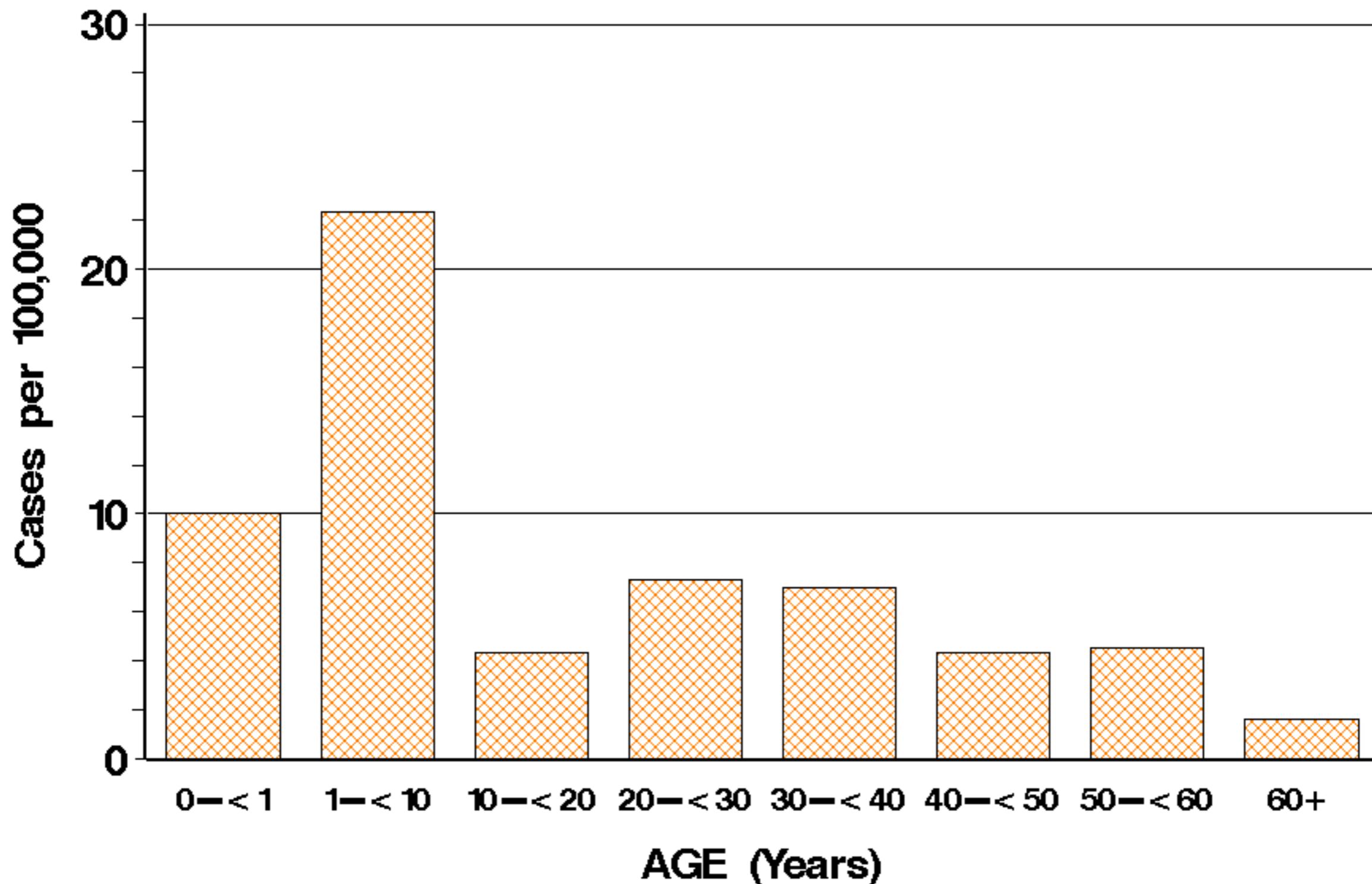
CDC's Emerging Infections Program

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Pathogen = SHIGELLA



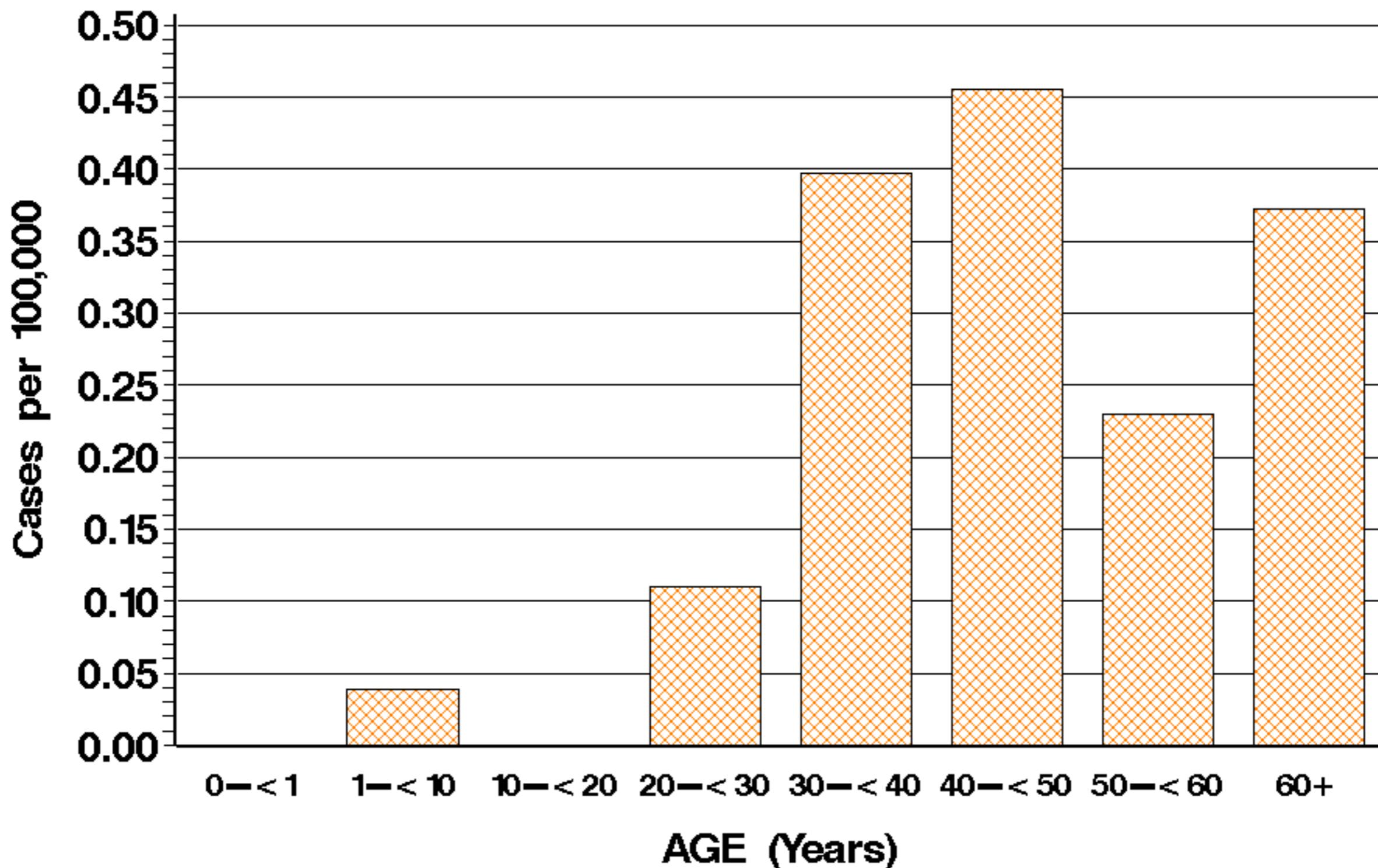
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FoodNet 1998 Final Report

Pathogen = VIBRIO



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Pathogen = YERSINIA

