FoodNet Active Manuscripts

Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
10							
	608	Gerner-Smidt P	Whichard, Jean M., Scallan, Elaine	Foodborne disease trends and reports	Foodborne Pathogens and Disease	10/5/2007	Published June 2007, Posted to website 10/5/2007
	461	Jones, Timothy F.	Scallan, Elaine, Angulo, Fredrick J.	FoodNet: Overview of a Decade of Achievement	Foodborne Pathogens and Disease	10/5/2007	Published March 2007, Posted to website 10/5/2007
	609	Majowicz, Shannon E.	Hall, Gillian, Scallan, Elaine, Adak, Goutam, Gauci, C, Jones, Timothy F., O'Brien, S, Henao, Olga L., Sockett, Paul	A common, symptom-based case definition for gastroenteritis	Epidemiology and Infection	10/5/2007	Published online 8/9/2007; Waiting for persmission
	465	Scallan, Elaine		Activities, Achievements, and Lessons Learned During the First 10 Years of FoodNet	CID	10/5/2007	Published March 2007, Posted to website 10/5/2007
	113	Varma, Jay K.	Samuel, Michael C., Marcus, Ruthanne, Hoekstra, Robert M., Medus, Carlota, Segler, Suzanne D., Anderson, Bridget J., Jones, Timothy F., Shiferaw, Beletshachew, Haubert, Nicole, Megginson, Melanie, McCarthy, Patrick V., Graves, Lewis M., Van Gilder, Thomas J., Angulo, Fredrick J.	Listeria Monocytogenes Infection From Food in the Regulatory Era: A Case-Control Study of Risk Factors for Sporadic Illness in the United States	CID	10/5/2007	Published January 2007; posted to website 10/5/2007
	107	Voetsch, Andrew C.	Angulo, Fredrick J., Jones, Timothy F., Moore, Matthew R., Nadon, Celine, McCarthy, Patrick V., Shiferaw, Beletshachew, Megginson, Melanie, Hurd, Sharon, Anderson, Bridget J., Cronquist, Alicia B., Vugia, Duc J., Medus, Carlota, Segler, Suzanne D., Graves, Lewis M., Hoekstra, Robert M., Griffin, Patricia M., EIP FoodNet Working Group	Reduction in the Incidence of Invasive Listeriosis in the FoodNet Sites, 1996-2003	CID	10/5/2007	Published January 2007; posted to website 10/5/2007
9							

0=proposal, 1=analysis, 2=writing, 3=draft being reviewed by coauthors, 4=incorp coauthor comments, 5=NCID/CDC clearance, 6= incorp NCID/CDC comments, 7=at journal, 8=in press, 9=published, 10=posted to website

Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
	121	Samuel, Michael C.	Vugia, Duc J., Koehler, Kathleen M., Marcus, Ruthanne, Deneen, Valerie C., Damaske, Barbara, Shiferaw, Beletshachew, Hadler, James L., Henao, Olga L., Angulo, Fredrick J.	Consumption of Risky Foods Among Adults at High Risk for Severe Foodborne Diseases: Room for Improved Targeted Prevention Messages	Journal of Food Safety	10/5/2007	Published May 2007; Waiting for permission
8							
	394	Nelson, Jennifer M.	Nadle, Joelle, Daniels, Allison, Clogher, Paula, Gillespie, Jennifer, Furuno, Jon P., Plantenga, Melissa, Bernarczyk, Robert, Ingram, Amanda	FoodNet Survey of Food Use and Practices in Long-Term Care Facilities	Journal of Food Protectio	9/24/2007	Accepted at Journal of Food Protection
	117	Patrick, Mary	Griffin, Patricia M., Mead, Paul S., Voetsch, Andrew C.	The Effectiveness of Recall Notification: Community Response to a Nationwide Recall of Hot Dogs and Deli Meats	Journal of Food Protection	6/29/2007	Accepted to Journal of Food Protection
7							
	363	Hassan,Valley	Kirk, Martyn D., Scallan, Elaine, Angulo, Fredrick J., Hall, Gillian,	Reporting Rates of Campylobacter Infections in Australia and the United States - Exploring Reasons for the Difference	Foodborne Pathogens and Disease	9/24/2007	Submitted to Foodborne Pathogens and Disease
	325	Shiferaw, Beletshachew	Cieslak, Paul R.	Comparison of Three Surveillance Systems for Hemolytic Uremic Syndrome in Oregon		9/25/2007	Submitted to Journal of Public Health
	624	Shiferaw, Beletshachew	Griffin, Kristin, Chapin, William, Finnegan, Colleen, Ho, Hon, Cieslak, Paul R.	Use if Hospital Discharge Data to assess the incidence of Guillain-Barre Syndrome	CID	9/26/2007	Manuscript will be submitted to CID
	459	Voetsch, Andrew C.	Poole, Charles, Hedberg, Craig W., Ryder, Robert W., Weber, David J., Angulo, Fredrick J.	The effect of alternative control selection in the FoodNet case-control study of sporadic Salmonella serotype Enteritidis using other serotypes as a comparison group	Amerian Journal of Epidemiology	9/24/2007	Submitted to journal
6							
	600	Clarkson, Lydia S.	Tobin-D'Angelo, Melissa, Shuler, Carrie, Hanna, Samir S., Benson, James A., Voetsch, Andrew C.	Sporadic Salmonella enterica serotype Javiana Infections in Georgia and Tennessee: An Emerging Zoonotic Disease?		9/24/2007	Manuscript currently with FoodNet Team Lead

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Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
	22	Crump, John A.	, Joyce, Kevin W., Vugia, Duc J., Megginson, Melanie, Segler, Suzanne D., Hurd, Sharon, Luedeman, Jeff, Shiferaw, Beletshachew, Hanna, Samir S., Stevenson, Jennifer E., Angulo, Fredrick J.	Clinical Consequences of Typhoid Fever due to Salmonella Typhi with Decreased Susceptibility to Ciprofloxacin		9/24/2007	Manuscript currently with Division Director
	381	Demma, Linda	Vugia, Duc J., Hurd, Sharon, Segler, Suzanne D., Kielbauch, Julie, Leano, Fe, Dumas, Nellie B., Hatch, Julie, Hanna, Samir S., Angulo, Fredrick J.,	Campylobacter species in FoodNet and NARMS 1997-2004: is the incidence of Campylobacter coli infection increasing?	CID	9/24/2007	Incorporating comments from Division Statistician
	109	Demma, Linda	Snider, Cynthia J., Shiferaw, Beletshachew, Vugia, Duc J., Hurd, Sharon, Zansky, Shelley M., Scheftel, Joni, Voetsch, Andrew C., Angulo, Fredrick J., Griffin, Patricia M., EIP FoodNet Working Group	Risk Factors for Developing Hemolytic Uremic Syndrome or Death Among Persons with Escherchia coli O157 Infection, FoodNet sites, 1997-2002		9/24/2007	In clearance
	124	Dunne, Eileen F.	Griffin, Patricia M., Henao, Olga L., Bender, Jeffrey B., Beletshachew, Shiferaw, Vugia, Duc J., Dembek, Zygmunt F., Wesolowski, Laura G., Carter, Michael A., Zansky, Shelley M., Boothe, Effie J., Burnite, Steve, Wells, Joy G., Bibb, William, Mead, Paul S., Henao, Olga L., EIP FoodNet Working Group, Snider, Cynthia J.	Pediatric Hemolytic Uremic Syndrome in the United States, 1997-2002: A Study of 379 Cases		9/24/2007	Updating analysis based on clearance comments
	508	Haley, Clinton C.	Hedberg, Katrina, Cieslak, Paul R., Scallan, Elaine, Ong, Kanyin Liane, Marcus, Ruthanne, Shin, Sam, Cronquist, Alicia B., Gillespie, Jennifer, Jones, Timothy F., Shiferaw, Beletshachew, Fuller, Candace, Edge, Karen, Anderson, Bridget J., Ryan, Patricia A., Mintz, Eric D.	Sporadic Shigellosis: Population-Based Risk Factors Revealed, FoodNet, 2005		9/24/2007	Incorporating comments from Division Statistician
	606	Jones, Timothy F.	Ingram, Amanda, Cieslak, Paul R., Vugia, Duc J., Tobin-D'Angelo, Melissa, Hurd, Sharon, Angulo, Fredrick J., FoodNet Salmonella Working Group	Salmonellosis Outcomes Differ Substantially by Serotype	New England Journal of Medicine	9/25/2007	Manuscript cleared. Will be submitted to NEJM.
	26	McDonald, Laura	Majowicz, Shannon E., Hall, Gillian, Scallan, Elaine, Kirk, Martyn D., Sockett, Paul, Angulo, Fredrick J.	Factors Associated With Respiratory Symptoms in Cases of Gastroenteritis	International Journal of Epidemiology	9/24/2007	Incorporating comments from Division Statistician

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Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
	103	Ailes, Elizabeth	Demma, Linda, Scallan, Elaine	Continued Decline in the Incidence of Campylobacter Infections, FoodNet 1996-2006		9/24/2007	
	491	Guo, Chuanfa	Hartnett, Emma, Harman, Jane, Ong, Kanyin Liane, Naugle, Alecia L., Bennett, Patricia, Hoekstra, Robert M., Cieslak, Paul R., Holt, Kristen G., Schlosser, Wayne D., Rose, Bonnie E., Schroeder, Carl M., Scallan, Elaine, Angulo, Fredrick J.	Human Infections from Salmonella in Meat, Poultry, and Eggs, United States, 1998 - 2003: Estimates from a Bayesian Model		9/24/2007	
	432	Maldonado, George		Blending Project		7/10/2007	
	607	Nelson, Jennifer M.	Jones, Timothy F., Scallan, Elaine	Antimotility and Antimicrobial Use in Persons with Shiga toxin-producing E. coli O157 Infection in FoodNet Sites		9/24/2007	
	341	Rosenblum, Ida E.	Lynch, Michael, Cronquist, Alicia B., Phan, Quyen, Vugia, Duc J., Burnett, Cindy, Morse, Dale L., Keene, William E., Edwards, Leslie, Swanson, Ellen, Jones, Timothy F., EIP FoodNet Working Group,	Factors Associated with Confirming an Etiology During Foodborne Outbreak Investigations, FoodNet Sites, 2001-2006		9/24/2007	Updating with more current data
3							
	331	Long, Cherie	Hayes, Tameka, Vugia, Duc J., Ryan, Patricia A., Scheftel, Joni, Shiferaw, Beletshachew, Jones, Timothy F., Demma, Linda, EIP FoodNet Working Group	Yersenia pseudotuberculosis infections in FoodNet, 1996-2005		6/29/2007	
2							
	462	Gould, Hannah	Demma, Linda, Hoekstra, Robert M., Angulo, Fredrick J.	Higher Incidence of Escherichia coli O157:H7 Infection in Rural Counties and Possible Association with Animal Contact		8/6/2007	
	344	Henao, Olga L.	Ryan, Patricia A., Scallan, Elaine, Choudhuri, Julie, Norton, Dawn M., Edge, Karen, Ryan, Patricia A., Tobin-D'Angelo, Melissa, Nelson, Jennifer M., Hanna, Samir S., Jones, Timothy F., Angulo, Fredrick J., EIP FoodNet Working Group	Proportion of Visits to Health Care Providers Resulting in Request of Stool Samples: Data from the National Ambulatory Medical Care Survey (NAMCS) and the Foodborne Diseases Active Surveillance Network (FoodNet) Population Survey		6/29/2007	

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	565	Henao, Olga L.	Moyer, Laura B., Hoefer, Dina, Holman, Robert, Jones, Timothy F., Marcus, Ruthanne, Medus, Carlota, Ryan, Patricia A., Tobin-D'Angelo, Melissa	Hospitalizations Due to Infections of Selected Foodborne Pathogens; NIS, NHDS, and FoodNet, 1998-2004		7/31/2007	
	386	Hurd, Sharon	Demma, Linda, Tong, Xin, Cronquist, Alicia B., Segler, Suzanne D., Kielbauch, Julie, Swanson Laine, Ellen, Smith, Glenda, Hatch, Julie, Hanna, Samir S., Fitzgerald, Collette, EIP FoodNet Working Group, Shin, Sam	Clinical Laboratory Practices for the Identification of Campylobacter in FoodNet Sites: Do Differences Explain Variation in Incidence Rates?		6/29/2007	
	101	Scallan, Elaine	Vugia, Duc J., Cronquist, Alicia B., Marcus, Ruthanne, Thomas, Stephanie M., Blythe, David, Fuller, Candace, Zansky, Shelley M., Cieslak, Paul R., Jones, Timothy F.	Burden of Bacterial Foodborne Illness in the United States		9/25/2007	
1							
	102	Dunn, John R.		Substantial Decline in the Incidence of Escherichia coli O157:H7 Infections in FoodNet, 2003		9/25/2007	
	605	McMillian, Marcy	Jones, Timothy F., Lynch, Michael, Iwamoto, Martha	Incidence and Trends in Foodborne Pathogens in FoodNet and non-FoodNet sites		9/25/2007	
0							
	604	Shiferaw, Beletshachew		Are there gender differences in food consumption?		9/7/2007	
	586	Viray, Melissa		Hemolytic uremic syndrome surveillance validation		9/13/2007	EIS domestic project proposal to be supervised by Henao

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Retrieve Data | Reset Form

TYPHOID AND PARATYPHOID FEVER SURVEILLANCE REPORT

CDC — Centers for Disease Control and Prevention

CDC NO.:

STATE LAB ISOLATE ID NO.

Instructions:

– Please complete this form only for new, symptomatic, culture-proven cases of typhoid or paratyphoid fever. – Form Approved OMB No. 0920-0009

DEMOGRAPHIC DATA

1. Reporting State:

2. First three letters of patient's last name:

3. Date of birth: Mo. Day Yr. *or* Age: (in years)

4. Sex: ☐ Male ☐ Female

5. Does the patient work as a foodhandler? ☐ Yes ☐ No ☐ Unk.

6. Citizenship: (21) ☐ U.S. ☐ Other: ☐ Unk.

CLINICAL DATA

7. Was the patient ill with typhoid or paratyphoid fever? (fever, abdominal pain, headache, etc) ☐ Yes ☐ No ☐ Unk.

If Yes, give date of onset of symptoms: Mo. Day Yr.

8. Was the patient hospitalized? ☐ Yes ☐ No ☐ Unk.

If Yes, how many days was the patient hospitalized? Days

9. Outcome of case: ☐ Recovered ☐ Died ☐ Unk.

LABORATORY DATA

10. Date *Salmonella* first isolated: Mo. Day Yr.

Site(s) of isolation: *(check all that apply)* ☐ Blood ☐ Stool ☐ Gall bladder ☐ Other (specify):

Serotype: ☐ *S.* Typhi ☐ *S.* Paratyphi A ☐ *S.* Paratyphi B ☐ *S.* Paratyphi C

11. Was **antibiotic sensitivity testing** performed on this (these) isolate(s) at the laboratory? *(Please contact the clinical laboratory for this information)* ☐ Yes ☐ No ☐ Unk.

If Yes, was the organism **resistant** to:

- Ampicillin: ☐ Yes ☐ No ☐ Not tested
- Chloramphenicol: ☐ Yes ☐ No ☐ Not tested
- Trimethoprim-sulfamethoxazole: ☐ Yes ☐ No ☐ Not tested
- Fluoroquinolones (e.g., Ciprofloxacin): ☐ Yes ☐ No ☐ Not tested

EPIDEMIOLOGIC DATA

12. Did this case occur as part of an outbreak? (two or more cases of typhoid or paratyphoid fever associated by time and place) ☐ Yes ☐ No ☐ Unk.

13. Did the patient receive typhoid vaccination (primary series or booster) within **five years** before onset of illness? ☐ Yes ☐ No ☐ Unk.

If Yes, indicate type of vaccine received:

- Oral Ty21a or Vivotif (Berna) four pill series: ☐ Yes ☐ No ☐ Unk. Year received:
- ViCPS or Typhim Vi shot (Pasteur Merieux): ☐ Yes ☐ No ☐ Unk.

14. Did the patient travel or live outside the United States during the 30 days before the illness began? ☐ Yes ☐ No ☐ Unk.

If Yes, please list in order the countries visited during the 30 days before the illness began: (other than the United States)

1. 3.
2. 4.

Date of most recent return or entry to the United States: Mo. Day Yr.

15. Was the purpose of the international travel:

a.) Business? ☐ Yes ☐ No ☐ Unk.

b.) Tourism? ☐ Yes ☐ No ☐ Unk.

c.) Visiting relatives or friends? ☐ Yes ☐ No ☐ Unk.

d.) Immigration to U.S.? ☐ Yes ☐ No ☐ Unk.

e.) Other? ☐ Yes ☐ No ☐ Unk.

(if other, specify):

16. Was the case traced to a typhoid or paratyphoid carrier? ☐ Yes ☐ No ☐ Unk.

If Yes, was the carrier **previously known** to the health department? ☐ Yes ☐ No ☐ Unk.

17. Comments:

18. Name of Person Completing Form:

Address:

Telephone: Date: Mo. Day Yr.

– THANK YOU VERY MUCH FOR TAKING THE TIME TO COMPLETE THIS FORM –

Please send a copy to your State Epidemiology Office ***and*** the Foodborne and Diarrheal Diseases Branch, Centers for Disease Control and Prevention, Mailstop A-38, Atlanta, Georgia, 30333. • Fax: (404) 639-2205

Public reporting burden of this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road NE, MS D-24, Atlanta, Georgia 30333; ATTN: PRA (0920-0009).

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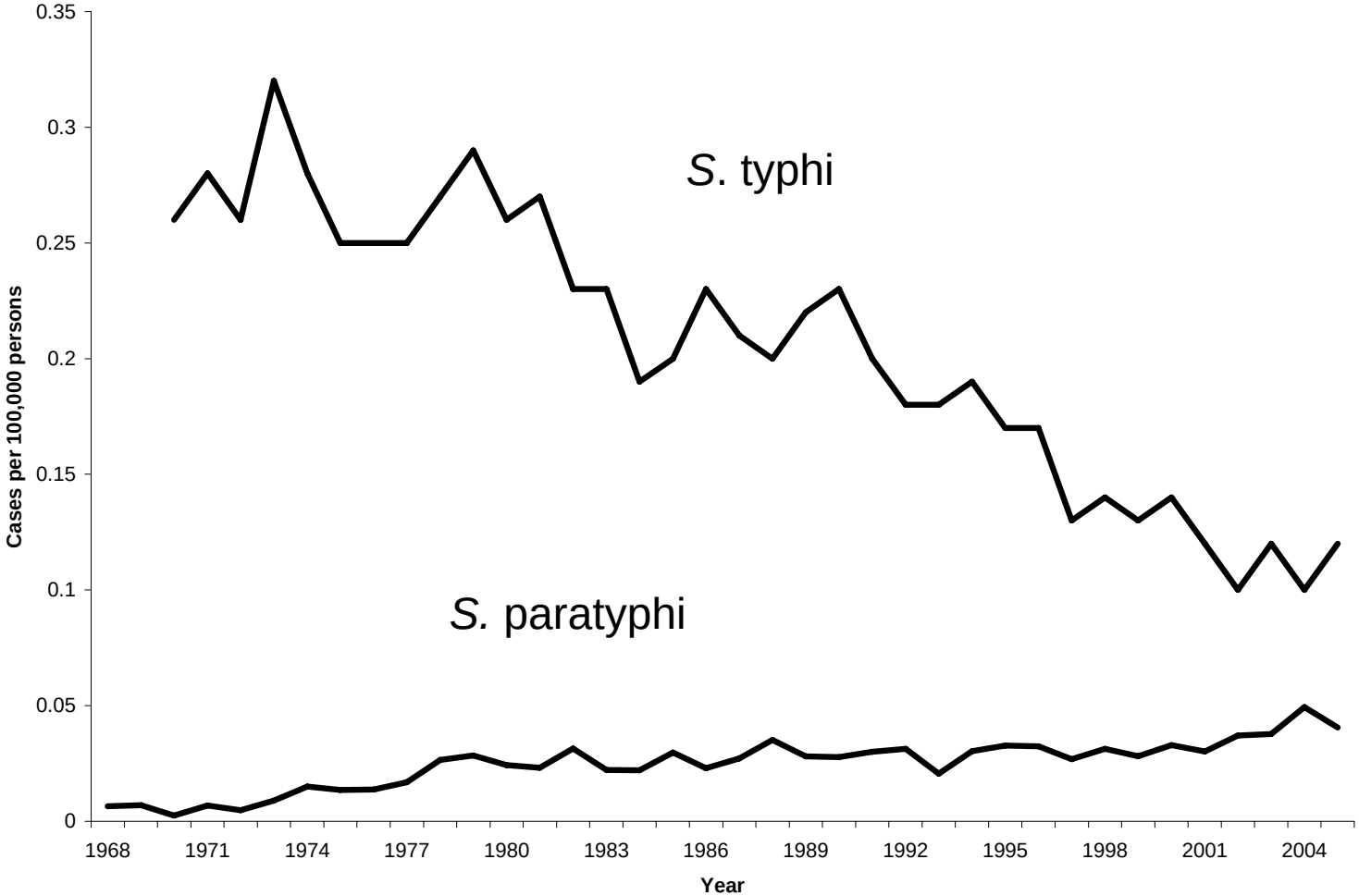
Incidence of infections due to *S*. Typhi and *S*. Paratyphi A, 1968-2005, National *Salmonella* Surveillance System



Laboratory-based surveillance of paratyphoid fever in the United States: Travel and antimicrobial resistance

Sundeep K. Gupta, MD, MPH, Felicita Medalla, MD, MS, Michael W. Omondi, MS, Jean M. Whichard, DVM, PhD, Patricia I. Fields, PhD, Peter Gerner-Smidt, MD, DMSc, Nehal J. Patel, MPH, Kara L. F. Cooper, PhD, Tom M. Chiller, MD, MPH, Eric D. Mintz, MD, MPH

Division of Foodborne, Bacterial and Mycotic Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, USA (all authors)

Abstract

Context: The incidence of paratyphoid fever, including paratyphoid fever caused by antimicrobial resistant strains, is increasing globally.

Objective: To determine the origin of paratyphoid fever cases diagnosed in the U.S. and the level of antimicrobial resistance.

Design: Cross-sectional laboratory-based surveillance study.

Setting and Participants: All 164 patients diagnosed with acute paratyphoid fever caused by *Salmonella* serotypes Paratyphi A, Paratyphi B or Paratyphi C in the United States with specimens collected between April 1, 2005 and March 31, 2006 and epidemiological information or isolates sent to CDC.

Main Outcome Measures: Frequency of clinical and epidemiological characteristics compared with the proportion of isolates demonstrating antimicrobial resistance.

Results: Of 151 *Salmonella* Paratyphi A cases reported, we obtained epidemiological information for 89 (59%); 55 (64%) were hospitalized. Eighty-five (96%) reported international travel and 80 (90%) traveled to South Asia; 65 (76%) traveled to visit friends or relatives. Most (87%) *Salmonella* Paratyphi A isolates were nalidixic acid resistant (NaR), and NaR was associated with travel to South Asia (odds ratio 11.5, 95% confidence interval 1.8-78.8). All NaR isolates showed decreased susceptibility to ciprofloxacin (MIC $\geq$ 0.12 µg/mL). Of 49 reported cases of *Salmonella* Paratyphi B, only 12 (24%) were confirmed to be Paratyphi B when tested at CDC. Four (67%) of six patients were hospitalized, and five (83%) reported travel, four to the Andean region of South America. One case of *Salmonella* Paratyphi C was reported in a traveler to West Africa who presented with a urinary tract infection.

Conclusions: Clinicians should be aware of the increasing incidence and severity of infections due to *Salmonella* Paratyphi A and antimicrobial treatment options given widespread resistance. Travelers should follow safe food and beverage recommendations. A paratyphoid fever vaccine is urgently needed. Continued epidemiological and laboratory-based surveillance for paratyphoid fever will help guide future prevention and treatment recommendations.

data as of 9/3/07

2000-2007* FoodNet HUS Surveillance

Summary of Diarrheal Status of Pediatric HUS Cases by State

	CA		CO		CT		GA		MD		MN		NY		OR		TN[3]		Total	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Post-diarrheal	49	90.7%	31	75.6%	46	95.8%	81	77.9%	48	90.6%	117	94.4%	47	81.0%	87	94.6%	92	89.3%	598	88.3%
non-post diarrheal[1]	5	9.3%	10	24.4%	2	4.2%	23	22.1%	5	9.4%	7	5.6%	11	19.0%	5	5.4%	11	10.7%	79	11.7%
Total	54		41		48		104		53		124		58		92		103		677	

Diarrheal Status of Pediatric HUS Cases and Type of Surveillance Technique Used to Capture Them

	CA		CO		CT		GA		MD		MN		NY		OR		TN[3]		Total	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Post-diarrheal																				
Active Surveillance Only	18	36.7%	22	71.0%	45	97.8%	51	63.0%	20	41.7%	102	87.2%	31	66.0%	72	82.8%	48	52.2%	409	68.4%
Hospital Discharge Data Only	12	24.5%	6	19.4%	--	--	26	32.1%	22	45.8%	13	11.1%	4	8.5%	8	9.2%	3	3.3%	94	15.7%
Both	19	38.8%	3	9.7%	--	--	--	--	5	10.4%	--	--	12	25.5%	--	--	41	44.6%	80	13.4%
Other[2]	--	--	--	--	1	2.2%	4	4.9%	1	2.1%	2	1.7%	--	--	7	8.0%	--	--	15	2.5%
Total	49		31		46		81		48		117		47		87		92		598	
non-post diarrheal[1]																				
Active Surveillance Only	4	80.0%	4	40.0%	1	50.0%	5	21.7%	--	--	2	28.6%	4	36.4%	4	80.0%	4	36.4%	28	35.4%
Hospital Discharge Data Only	--	--	4	40.0%	--	--	18	78.3%	4	80.0%	3	42.9%	4	36.4%	1	20.0%	6	54.5%	40	50.6%
Both	1	20.0%	2	20.0%	--	--	--	--	1	20.0%	1	14.3%	2	18.2%	--	--	1	9.1%	8	10.1%
Other[2]	--	--	--	--	1	50.0%	--	--	--	--	1	14.3%	1	9.1%	--	--	--	--	3	3.8%
Total	5		10		2		23		5		7		11		5		11		79	
Total																				
Active Surveillance Only	22	40.7%	26	63.4%	46	95.8%	56	53.8%	20	37.7%	104	83.9%	35	60.3%	76	82.6%	52	50.5%	437	64.5%
Hospital Discharge Data Only	12	22.2%	10	24.4%	--	--	44	42.3%	26	49.1%	16	12.9%	8	13.8%	9	9.8%	9	8.7%	134	19.8%
Both	20	37.0%	5	12.2%	--	--	--	--	6	11.3%	1	0.8%	14	24.1%	--	--	42	40.8%	88	13.0%
Other[2]	--	--	--	--	2	4.2%	4	3.8%	1	1.9%	3	2.4%	1	1.7%	7	7.6%	--	--	18	2.7%
Total	54		41		48		104		53		124		58		92		103		677	

[1] includes diarrhea="No" or "Unknown"

[2] Includes cases where surveillance technique hasn't been confirmed or is missing

[3] 1 TN case has unknown diarrhea status

[*] 2006 and 2007 Data has not been finalized

MINUTES- FoodNet STEC Variable Meeting
October 1, 2007; 2-3 pm EST

Attendees: CO, CT, GA, MD, MN, OR, TN
CDC: H Gould, C Long, M Patrick

Purpose of call: At the mid-year coordinator's meeting it became apparent that there were differences among the sites regarding the interpretation of several FoodNet STEC variables. It was agreed that a conference call between lab personnel and surveillance officers was needed to resolve these differences. Decisions made at this call will be mentioned on the upcoming STEC/HUS and Steering Committee calls to ensure that all sites are aware of these decisions.

1. FoodNet STEC Variables
    a. The meanings of the STEC variables were discussed and agreement was made to amend the wording of some variable descriptions and to drop one proposed new variable from the FoodNet 2.0 variable list. No other changes were made to other existing FoodNet variables. These changes in the variable descriptions should clarify what is being collected to ensure that all sites are collecting the same information.
        i. List of revised variable descriptions and comments attached.
    b. After further discussion at CDC, it was decided to leave '*E. coli*' in the variable descriptions of the STEC variables to ensure there is no confusion that these variables are only to be answered for *E. coli* cases and because FoodNet captures similar information on other pathogens.

2. Clinical vs. state public health laboratories
    a. Two types of discordant results
        i. EIA+ at Clinical Lab vs. EIA- at SPHL.
            1. Agreement that sites will track this information at the site by line list and send line list to Cherie on a regular basis. This will hopefully allow us to determine the extent of the problem and decide how to handle this issue in the future.
        ii. EIA vs. PCR results
            1. Agreement that sites will track this information either by line list or by entering in FoodNet data. Cherie will follow-up with sites on an individual basis to verify where each test was performed.

	PHLIS Variable Name (Phased out)	FoodNet Variable Name	OLD Variable Description	NEW Variable Description	Answers (Legal Values)	Comments
48	RES1X1R	**StecBioID**	If STEC, was isolate biochemically identified as *E.coli?*	Was isolate identified as *E.coli?*	Yes; No; Unknown; Not Tested	The purpose of this variable is to capture whether an isolate was obtained and identified as *E. coli*
~~**49**~~	~~N/A~~	~~**StecCult**~~	~~Was isolate plated on SMAC?~~	~~Was isolate plated on SMAC?~~	~~Yes; No; Unknown~~	Proposed to drop this variable because information is captured in StecBioID variable
50	N/A	**StecEIA**	Was *E. coli* case shiga toxin positive, by EIA?	Was *E. coli* shiga toxin positive, by EIA or other immunoassay?	Stx1+; Stx2+; Stx1+ & Stx2+; Positive Undifferentiated; Negative; Not Tested	Added 'immunoassay' to description to capture line assay results.
51	RES1DEA	**StecH7**	If *E. coli* O157, was it H7 antigen positive?	If *E. coli* , was it H7 antigen positive?	Yes; No; Unknown	
52	RES1X1Q	**StecHAg**	If STEC, what is the H antigen number?	If *E. coli* , what was the H antigen number?	1-99	
53	RES1X1N	**StecNM**	If STEC, was the isolate non-motile?	If *E. coli* , was the isolate non-motile?	Yes; No; Unknown	
54	RES1DE9	**StecO157**	If *E. coli* , was it O157 positive?	If *E. coli* , was it O157 positive?	Yes; No; Unknown; Not Tested	
55	RES1X1P	**StecOAg**	If STEC, what is the O antigen number?	If *E. coli* , what was the O antigen number?	1-999	
56	N/A	**StecPCR**	Was *E. coli* case shiga toxin positive, by PCR?	Was *E. coli* shiga toxin positive, by PCR?	Stx1+; Stx2+; Stx1+ & Stx2+; Positive Undifferentiated; Negative; Not Tested	
57	RES1X1O	**StecStx**	If STEC, was it Shiga-toxin producing?	Was *E. coli* shiga-toxin producing?	Yes; No; Unknown; Not Tested	Prior to FoodNet 2.0, this variable had a long picklist. To better capture this information, in FoodNet 2.0 two variables were created to capture this information (StecPCR and StecEIA). We understand at this time, StecStx is a redundant variable for some states, but is still required by FoodNet because not all sites are able to capture PCR or EIA results separately in their database to transmit to FoodNet

Enrollment Status for Selected *Salmonella* Serotypes Study, as of September 26, 2007

	# Eligible				Interviewed			Total Interviewed	Pending	Refused	Other Not Enrolled
	S. Javiana	*S.* Infantis	*S.* I 4,[5],12:i:-	Total	*S.* Javiana	*S.* Infantis	*S.* I 4,[5],12:i:-	# (% of Eligible)			
CA	1	5	15	21	1	3	6	10 (48)	1 (5)	2 (10)	8 (38)
CO	5	6	1	12	1	2	1	4 (33)	1 (8)	2 (17)	5 (42)
CT	2	4	15	21	2	3	13	18 (86)	0 (0)	1 (5)	2 (10)
GA	81	7	42	130	49	3	25	77 (59)	17 (13)	12 (9)	24 (18)
MD	14	2	28	44	9	0	16	25 (57)	1 (2)	3 (7)	15 (34)
MN	3	10	23	36	2	5	18	25 (69)	4 (11)	0 (0)	7 (19)
NM	15	1	6	22	4	0	1	5 (38)	4 (18)	5 (23)	8 (36)
NY	0	2	13	15	0	1	5	6 (40)	3 (20)	0 (0)	6 (40)
OR	1	5	22	28	1	3	10	14 (50)	4 (14)	4 (14)	6 (21)
TN	8	0	35	43	4	0	28	32 (74)	1 (2)	4 (9)	6 (14)
Total Cases	130	42	200	372	73	20	123	216 (58)	36 (10)	33 (9)	87 (23)
Controls	-	-	-	-	-	-	-	817	-	-	-

Enrollment Status for Validation Sub-Studies for Selected *Salmonella* Serotypes Study, as of August 29, 2007

	Selection Bias Sub-Study		Misclassification Bias Sub-Study	
	Eligible	Completed Questionnaires Received (% of eligible)	Eligible	Completed Questionnaires Received (% of eligible)
CA	10	0 (0)	0	N/A
CO	4	1 (25)	0	N/A
CT	0	N/A	0	N/A
GA	10	6 (60)	0	N/A
MD	6	1 (17)	0	N/A
MN	4	1 (25)	0	N/A
NM	14	3 (21)	0	N/A
NY	0	N/A	0	N/A
OR	3	1 (33)	0	N/A
TN	7	2 (29)	1	0 (0)
Total (Cases)	58	15 (26)	1	0 (0)
Controls	-	48	-	8

Proposal for Pet Food Surveillance in Conjunction with the NARMS Retail Food Survey

Background:
During 2007, the Enteric Diseases Epidemiology Branch investigated the first outbreak in the United States linking human illness to dry pet foods. The outbreak was multistate involving 18 States (mostly in the Northeastern United States) and 66 human cases of *Salmonella* Schwarzengrund with an indistinguishable XbaI pulsed-field gel electrophoresis (PFGE) pattern (JM6X01.0015). Of the ill persons for whom an age was available, 39% (24/61) were one year of age or younger. Both laboratory and epidemiologic data links these human illnesses with dry pet food produced at a single manufacturing facility in one state. Testing conducted by one state health department identified the outbreak strain of S. Schwarzengrund in two different opened brands of dry dog food from two case-patient households. Both brands (Brand A and Brand B) were produced by the same manufacturer. A multistate case-control study identified 19 patients that used four different brands (Brand A, Brand B, Brand C, and Brand D) possibly produced at this single facility. Environmental testing was performed in the pet food production facility, and one sample yielded the outbreak strain. The U.S. Food and Drug Administration (FDA) conducted testing of seven brands of finished dry dog food (unopened bags) produced at the implicated facility, and two brands (Brand F and Brand G) yielded the outbreak strain. The manufacturer issued a voluntary recall of select bags of Brand F and Brand G. Neither of these two brands has been linked to human illness. Currently, estimates of the prevalence of *Salmonella* in dry dog foods are not available.

Proposal:
We propose to do a one-month rapid survey to estimate the prevalence of *Salmonella* species in dry dog foods in 10 states in the United States. We propose purchasing 10 dry dog food samples per state (100 samples nationwide) during the selected month in conjunction with the NARMS Retail Food Survey.

Proposal for Quantification of *Campylobacter* on Retail Chickens: Extension of Pilot Study

Background: One hypothesis for the difference in *Campylobacter* incidence rates between the Eastern and Western U.S. has been a higher level of *Campylobacter* contamination on retail poultry products in the West. To examine this, FoodNet conducted a pilot study in 2007 to isolate and quantify *Campylobacter* on chicken purchased from retail stores in California and Tennessee. Sampling was conducted in January and April and results yielded few positive samples. It has been suggested that the low number of positive samples was due to the time of sampling (winter/spring) and that sampling during summer months would result in a higher number of positive samples for quantification.

Objective: Extension of pilot study focusing on quantification of *Campylobacter* on whole broiler chickens at retail stores in FoodNet sites. Compare findings to FSIS baseline study at processing plants by linking results from retail samples to processing plants. Expand study to additional sites.

Methods: As part of NARMS retail food study, purchase 10 whole chickens per month for three months using study sampling frame to randomly select grocery stores. Record plant codes and expiration/sell-by dates from packaging. Using methods identical to those used for FSIS baseline study, obtain rinsate of chicken carcass. Ship rinsate to FSIS lab for isolation and quantification.

Timeframe: Three months: May-July, 2008

Participants: Any interested FoodNet Site; USDA-FSIS; CDC

DRAFT

E. coli O157 Manuscript

Title: Higher incidence of *Escherichia coli* O157 infection in rural counties and possible association with animal contact

Journal: Emerging Infectious Diseases

Proposed authors:
Centers for Disease Control and Prevention:
L. Hannah Gould, Nicole Steinmuller, Mike Hoekstra, and Linda Demma

FoodNet Sites:
A. Conquist- CO DPHE, D. Hoefer- NYS DOH, T. Jones- TN DOH, R. Marcus- CT DPH, P. Ryan- MD DHMH, J. Scheftel- MN DOH, S. Thomas- GA DPH,
D. Vugia- CA DHS

Statistical analysis (to be completed):

1. PHLIS-
   - Correct census data and re-calculate incidence by state.
   - Outliers in incidence by state- UT, MS- need to be accounted for and need to determine if due to lack of reporting or presence of outbreaks.
   - Need to determine what states have reliable data and should be included in map; the others should be removed.
   - Need to use same six rural categories used with FoodNet data to determine if higher incidence of E. coli infections in more rural counties.
   - Need to determine if states with higher incidence of E. coli infection are more rural (using same six rural categories).

2. FoodNet-
   - Need to use same six rural categories used with FoodNet data from 1996 to 2004 with analysis done in 2002-2003 to determine if difference in incidence of E. coli infection and prevalence of animal contact significant for all rural categorizations and if variation in results present.
   - Need to determine if FoodNet sites with highest incidence of E. coli infection are more rural (using same six rural categories). Use 2002 and 2003 data; or find sites by year with most consistent amount of data present.

16 Attn: Dawn Norton

Data Analysis Request and Use Form
Centers for Disease Control and Prevention
Emerging Infections Program
Foodborne Diseases Active Surveillance Network (FoodNet)

Phone: (404)-639-3680 Fax:(404)-639-3535

SCOTT NABITY
Requestor's Name (please print)

San Francisco Dept. Public Health
Organization /Affiliation (please print)

415-554-2724
Requestor's Contact Phone

415-554-2848
Requestor's Contact Fax

Date Approved by Steering Committee
11-15-07

Date Analysis/Data Needed By

Scott.nability@sfdph.org
Requestor's Contact E-mail

Description of Data Request:

Research Question/Interest: Do SF residents report a higher frequency of eating meals prepared at a restaurant or other commercial food outlet than neighboring health jurisdictions (i.e., Alameda, Contra Costa, Berkeley)? Do SF residents report a higher frequency ... than other EIP sites?

Dataset: Population Survey
(from case control study, surveillance, population survey, etc.)

~~Pathogen(s)~~:

~~Serotype(s)~~:

Year(s): Most recent available survey dataset.

Other Variables of Interest (e.g. sex, race, ethnicity): If possible, data broken down by sex, race/ethn., and age groups.

Age Groups: 1) <1 2) 1-4 3) 5-14 4) 15-24 5) 25-34 6) 35-44 7) 45-54 8) 55-64 9) 65+

Denominator:

Additional Request:

Proposed Publication:

Publication: ☒ Yes ☐ No

If yes:

Publication Timeline: Undefined: I write "yes" because it is possible

Proposed Publication: that these data may support conclusions made from SFDPH data. If our data lead to a publication, we'd like to include/reference CEIP data as appropriate.

Data Use Policy:

I understand that I am responsible for the integrity and management of these datasets. The datasets will not be provided to a third party without the permission of the FoodNet Steering Committee. In the spirit of collaboration, I agree to keep the FoodNet Steering Committee informed of the results of analyses. In accordance with the FoodNet publication guidelines, I will not distribute the results of these analyses, electronically or otherwise, in the form of a poster, abstract, manuscript, report, press release, or other public presentation without the approval of the FoodNet Steering Committee.

Signature

9-24-07
Date

Please fax your completed form to FoodNet at 404-639-3535.

If you have any questions about the data use or authorship policy, please contact FoodNet at 404-639-3680
http://www.cdc.gov/foodnet

Modified 2/22/06

Data Analysis Request and Use Form
Centers for Disease Control and Prevention
Emerging Infections Program
Foodborne Diseases Active Surveillance Network (FoodNet)

Phone: (404)-639-3680 Fax:(404)-639-3535

Dina Hoefer
Requestor's Name (please print)

NYSDOH
Organization /Affiliation (please print)

518-402-5385 Requestor's Contact Phone

518-474-7381 Requestor's Contact Fax

dxh13@health.state.ny.us Requestor's Contact E-mail

Date Approved by Steering Committee

As soon as possible
Date Analysis/Data Needed By

Description of Data Request:

Research Question/Interest: **Analyze the pregnancy health (knowledge of *Listeria*, and other food risks) questions found in Section 8 of the most recent FoodNet Population survey**

Dataset: **2006-07 Population survey**
(from case control study, surveillance, population survey, etc.)

Pathogen(s): **N/A**

Serotype(s): **N/A**

Year(s): **2006-07**

Other Variables of Interest (e.g. sex, race, ethnicity): **Section 9: Community; for additional sub-analyses**

Denominator:

Additional Request:

Proposed Publication:

Publication: □ Yes □ No ☒ Depends on results of analysis

If yes:

Publication Timeline:

Proposed Publication:

Data Use Policy:

I understand that I am responsible for the integrity and management of these datasets. The datasets will not be provided to a third party without the permission of the FoodNet Steering Committee. In the spirit of collaboration, I agree to keep the FoodNet Steering Committee informed of the results of analyses. In accordance with the FoodNet publication guidelines, I will not distribute the results of these analyses, electronically or otherwise, in the form of a poster, abstract, manuscript, report, press release, or other public presentation without the approval of the FoodNet Steering Committee.

Dina Hoefer
Signature

10/9/07
Date

Please fax your completed form to FoodNet at 404-639-3535.

If you have any questions about the data use or authorship policy, please contact FoodNet at 404-639-3680

http://www.cdc.gov/foodnet

Modified 2/22/06

non-Typhi *Salmonella* Clinical Outcomes Cohort Study Status updated 10/3/07

2006

State	Sampling Scheme	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	1/10	1/1/2006	473	52	31 (60%)	0 (0%)	5 (10%)	16 (31%)
CO	1/4	1/1/2006	352	87	64 (74%)	0 (0%)	17 (20%)	6 (7%)
CT	1/4	1/1/2006	502	109	98 (90%)	0 (0%)	9 (8%)	2 (2%)
GA	1/20	3/15/2006	1545	76	44 (58%)	0 (0%)	2 (3%)	30 (39%)
MD	1/10	5/1/2006	618	68	50 (74%)	0 (0%)	5 (7%)	13 (19%)
MN	1/5	1/1/2006	720	142	114 (80%)	2 (1%)	13 (9%)	13 (9%)
NM	1/5	1/1/2006	258	45	27 (60%)	0 (0%)	5 (11%)	13 (29%)
NY	1/5	1/1/2006	492	96	57 (59%)	0 (0%)	14 (15%)	25 (26%)
OR	1/20	1/1/2006	397	25	20 (80%)	0 (0%)	3 (12%)	2 (8%)
TN	1/10	1/1/2006	785	76	65 (86%)	0 (0%)	4 (5%)	7 (9%)
		Total	6142	776	570 (73%)	2 (0%)	77 (10%)	127 (16%)

2007

State	Sampling Scheme	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	1/10	1/1/2006	271	39	17 (44%)	6 (15%)	7 (18%)	9 (23%)
CO	1/10	1/1/2006	227	22	14 (64%)	6 (27%)	1 (5%)	1 (5%)
CT	1/20	1/1/2006	300	19	16 (84%)	1 (5%)	1 (5%)	1 (5%)
GA	1/20	3/15/2006	984	82	47 (57%)	15 (18%)	5 (6%)	15 (18%)
MD	1/10	5/1/2006	345	52	32 (62%)	6 (12%)	2 (4%)	12 (23%)
MN	1/20	1/1/2006	505	28	17 (61%)	4 (14%)	2 (7%)	5 (18%)
NM*	1/5	1/1/2006	164	30	10 (33%)	2 (7%)	5 (17%)	13 (43%)
NY	1/5	1/1/2006	367	71	30 (42%)	12 (17%)	13 (18%)	16 (23%)
OR	1/10	1/1/2006	216	50	40 (80%)	0 (0%)	6 (12%)	4 (8%)
TN	1/10	1/1/2006	479	46	33 (72%)	6 (13%)	0 (0%)	7 (15%)
		Total	3858	439	256 (58%)	58 (13%)	42 (10%)	83 (19%)

Interviewed Total 2006-2007 = 826

*Last updated 8/23/07

E. *coli* O157 Cohort Study Status

State	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	3/1/2006	67	65	46 (71%)	2 (3%)	8 (12%)	9 (14%)
CO	2/1/2006	48	52	31 (60%)	4 (8%)	10 (19%)	7 (13%)
CT	6/1/2006	66	72	51 (71%)	3 (4%)	15 (21%)	3 (4%)
GA	1/22/2007	64	24	7 (29%)	10 (42%)	7 (29%)	0 (0%)
MD	5/1/2006	45	46	25 (54%)	0 (0%)	7 (15%)	14 (30%)
MN	3/1/2006	253	257	167 (65%)	15 (6%)	27 (11%)	48 (19%)
NM	6/1/2006	26	24	13 (54%)	0 (0%)	3 (13%)	8 (33%)
NY	3/1/2006	83	84	39 (46%)	5 (6%)	25 (30%)	15 (18%)
OR	3/1/2006	124	135	99 (73%)	13 (10%)	7 (5%)	16 (12%)
TN	1/1/2006	111	122	78 (64%)	4 (3%)	6 (5%)	34 (28%)
	Total	887	881	556 (63%)	56 (6%)	115 (13%)	154 (17%)

Updated 9/28/07

FoodNet Data through July
(data transmitted 9/14/2007)

Pathogen	2006		2007		2007 vs 2006	5 year Mean	
	count	rate	count	rate	p-value	count	Rate
Campylobacter	3244	7.22	3268	7.27		3247	7.41
Listeria	69	0.15	63	0.14		63	0.14
***Salmonella* , all serotypes**	3312	7.37	3374	7.51		3358	7.73
***S. T* yphimurium**	596	1.33	516	1.15	0.0164	625	1.44
***S.* Enteritidis**	588	1.31	589	1.31		554	1.28
S. Newport	199	0.44	187	0.42		256	0.60
***S.* Heidelberg**	135	0.30	151	0.34		168	0.39
***S.* Javiana**	101	0.22	75	0.17	0.0504	129	0.29
***Salmonella* , all others**	1693	3.77	1856	4.13	0.0062	1626	3.72
***Shigella* , all species**	1112	2.47	1523	3.39	0.0000	1444	3.30
Shigella sonnei	781	1.74	1225	2.73	0.0000	1122	2.64
Shigella flexneri	229	0.51	203	0.45		221	0.50
	102	0.23	95	0.21		102	0.24
STEC O157	256	0.57	237	0.53		232	0.54
STEC non-O157	116	0.26	95	0.21		53	0.11
***Vibrio* , all species**	89	0.20	39	0.09	0.0000	64	0.15
Vibrio parahaemolyticus	59	0.13	23	0.05	0.0001	33	0.08
Vibrio vulnificus	8	0.02	3	0.01		6	0.02
***Vibrio* , all others**	22	0.05	13	0.03		24	0.06
Yersinia	102	0.23	105	0.23		98	0.23
Cryptosporidium	372	0.83	393	0.87		279	0.63
Cyclospora	30	0.07	11	0.02	0.0029	32	0.07

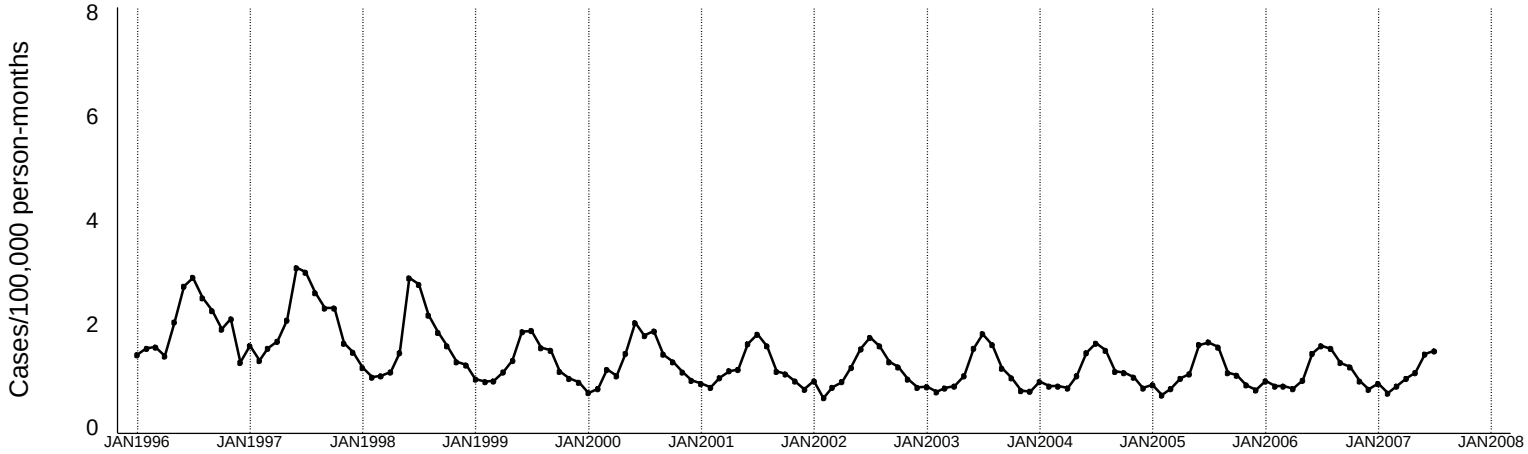
FoodNet Data through July
(data transmitted 9/14/2007)

Top 20 *Salmonella* Serotypes (ranked by 2006 year end counts)	2006		2007		2007 vs 2006
	# (%)	Rate	# (%)	Rate	p-value
***S.* Typhimurium**	596 (18.00)	1.33	589 (17.46)	1.31	
***S.* Enteritidis**	588 (17.75)	1.31	516 (15.29)	1.15	
***S.* Newport**	199 (6.01)	0.44	187 (5.54)	0.42	
***S.* Javiana**	101 (3.05)	0.22	75 (2.22)	0.17	
***S.* I 4,[5],12:i:-**	147 (4.44)	0.33	173 (5.13)	0.38	
***S.* Montevideo**	98 (2.96)	0.22	121 (3.59)	0.27	
***S.* Heidelberg**	135 (4.08)	0.30	151 (4.48)	0.34	
***S.* Muenchen**	62 (1.87)	0.14	87 (2.58)	0.19	0.0409
***S.* Mississippi**	76 (2.29)	0.17	17 (0.50)	0.04	0.0000
***S.* Saintpaul**	63 (1.90)	0.14	54 (1.60)	0.12	
***S.* Oranienburg**	50 (1.51)	0.11	52 (1.54)	0.12	
***S.* Infantis**	56 (1.69)	0.12	33 (0.98)	0.07	0.0149
***S.* Braenderup**	49 (1.48)	0.11	54 (1.60)	0.12	
***S.* Agona**	31 (0.94)	0.07	48 (1.42)	0.11	
***S.* Thompson**	41 (1.24)	0.09	31 (0.92)	0.07	
***S.* Paratyphi B var L(+) Tartrate+**	53 (1.60)	0.12	29 (0.86)	0.06	0.0080
***S.* Tennessee**	12 (0.36)	0.03	125 (3.70)	0.28	0.0000
***S.* Hadar**	40 (1.21)	0.09	23 (0.68)	0.05	0.0328
***S.* Bareilly**	21 (0.63)	0.05	14 (0.41)	0.03	
***S.* Anatum**	31 (0.94)	0.07	26 (0.77)	0.06	

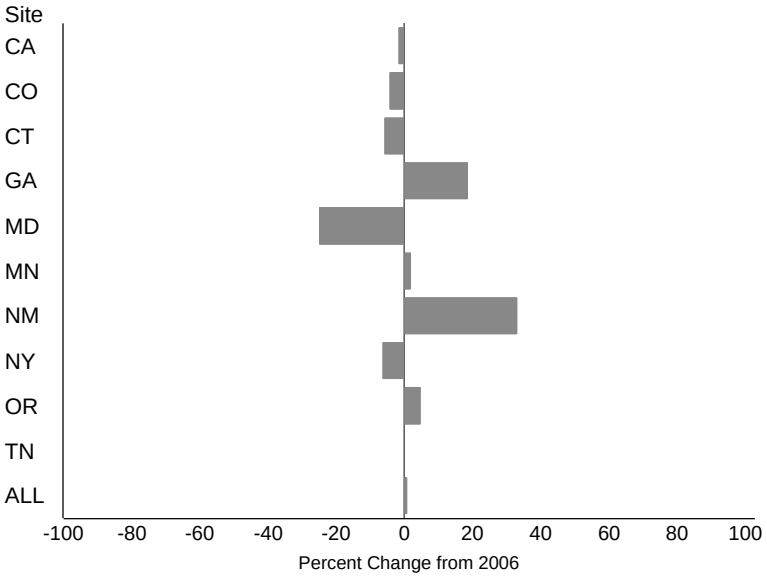
Overall Summary	2006		2007	
	# (%)	Rate	# (%)	Rate
Total number of *Samonella* cases	3312	7.37	3374	7.51
Fully Serotyped	3045 (91.94)		2318 (89.09)	
Partially Serotyped	74 (2.41)		56 (2.15)	
Rough/Nonmotil	11 (0.36)		12 (0.46)	
Not Serotyped (missing or unknown)	137 (5.50)		216 (8.30)	

Campylobacter

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

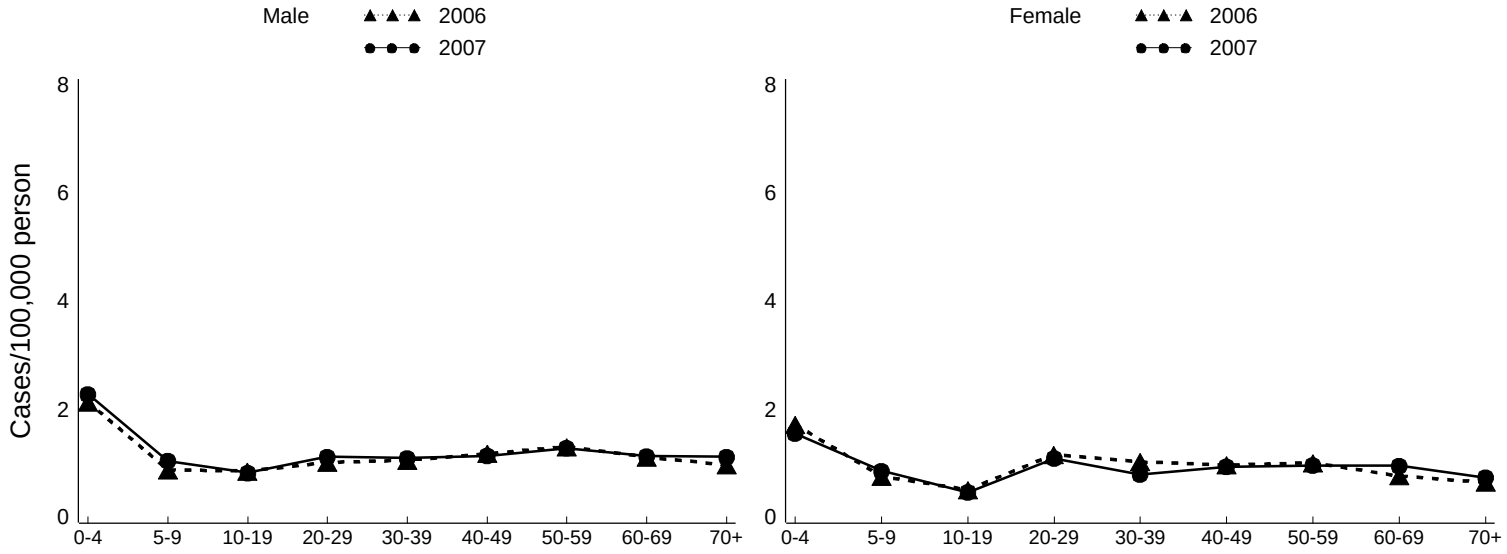


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	508	15.84	516	16.09	537	16.74
CO	250	9.665	261	10.09	252	9.855
CT	294	8.375	312	8.888	319	9.121
GA	404	4.453	341	3.759	357	4.023
MD	182	3.250	242	4.321	224	4.046
MN	531	10.35	522	10.17	515	10.13
NM	202	10.48	152	7.882	181	9.414
NY	273	6.337	291	6.755	274	6.801
OR	393	10.79	376	10.33	366	10.20
TN	231	3.874	231	3.874	222	4.120
ALL	3268	7.270	3244	7.217	3247	7.413

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

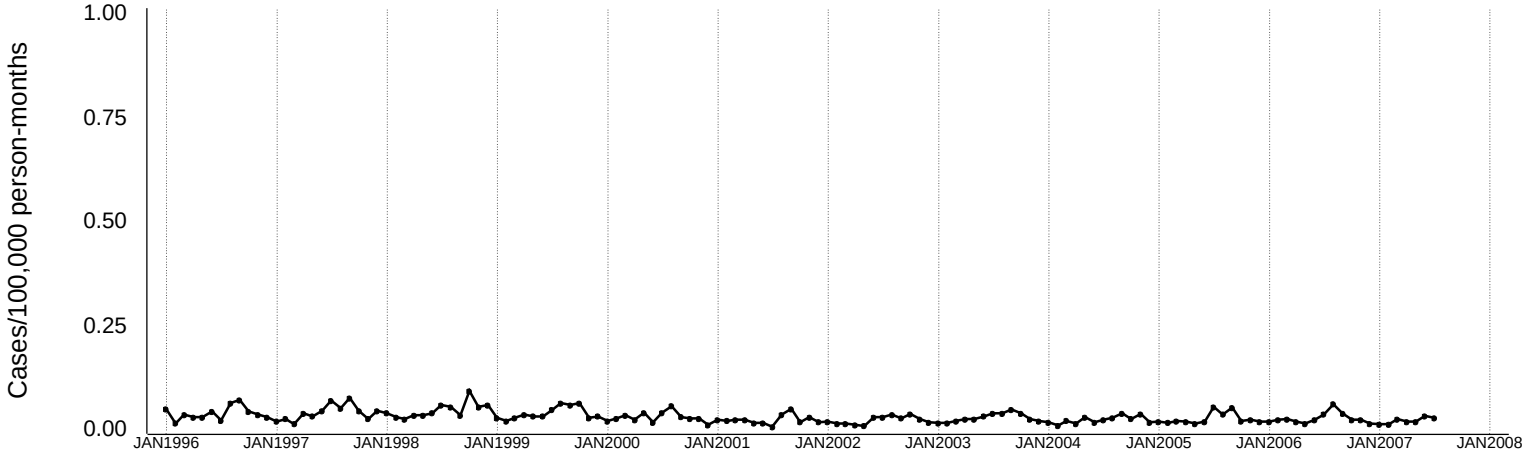


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

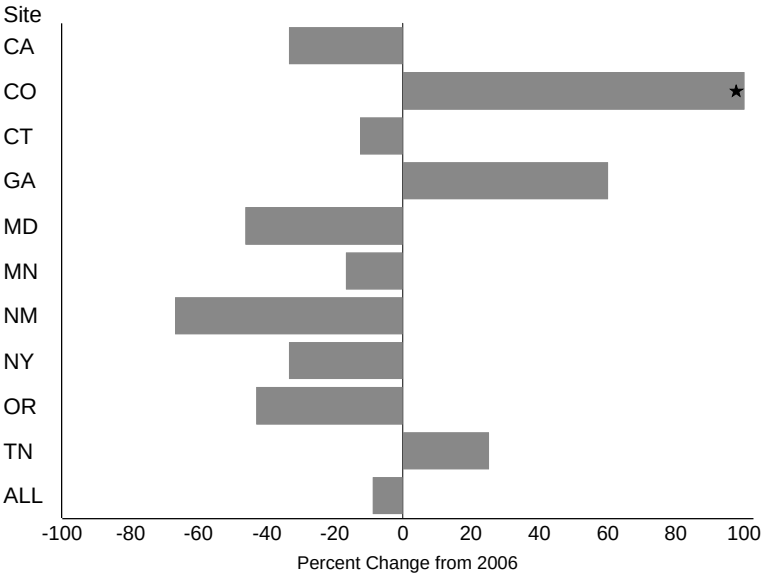
Report date: 26-September-2007

Listeria

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

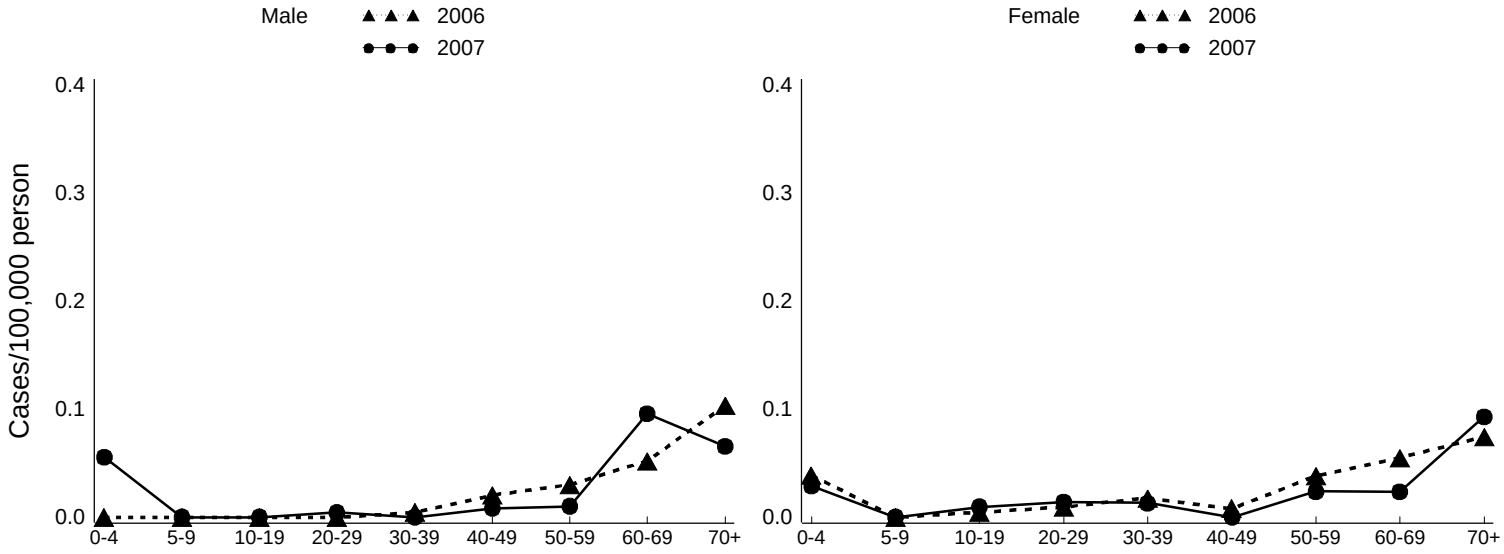


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	4	0.125	6	0.187	8	0.256
CO	5	0.193	2	0.077	2	0.071
CT	7	0.199	8	0.228	8	0.223
GA	16	0.176	10	0.110	13	0.144
MD	7	0.125	13	0.232	11	0.202
MN	5	0.097	6	0.117	3	0.063
NM	1	0.052	3	0.156	2	0.104
NY	4	0.093	6	0.139	6	0.141
OR	4	0.110	7	0.192	4	0.117
TN	10	0.168	8	0.134	6	0.105
ALL	63	0.140	69	0.154	63	0.144

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

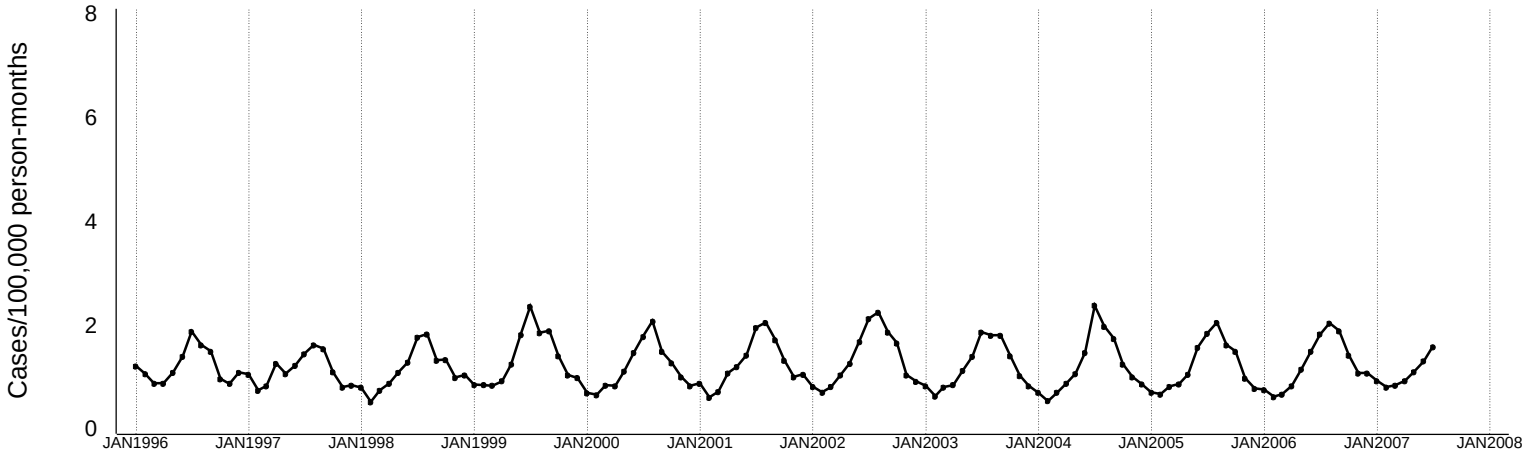


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

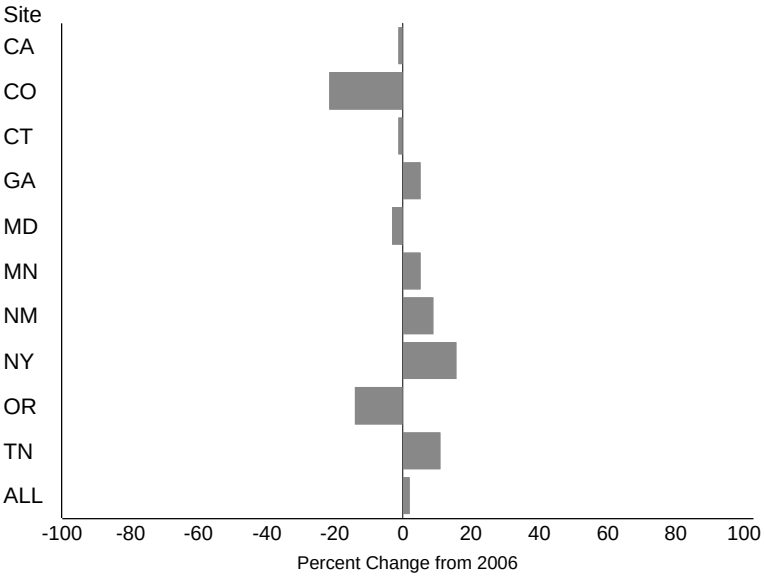
Report date: 26-September-2007

Salmonella, all serotypes

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

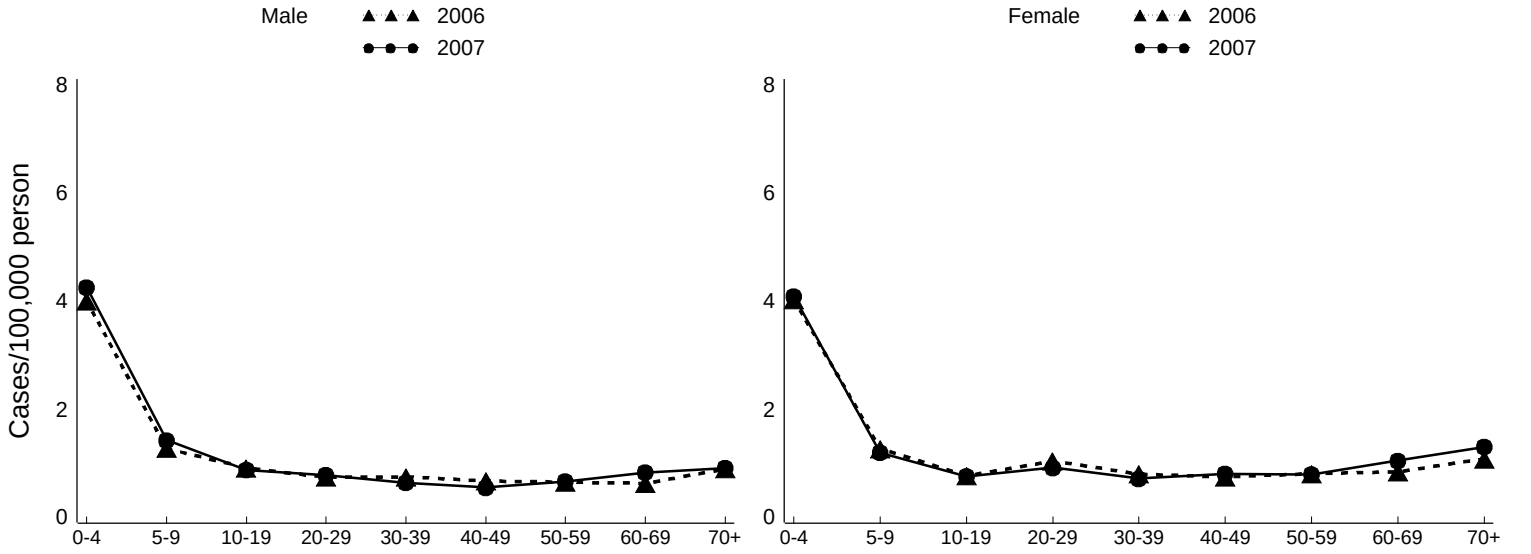


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	258	8.05	261	8.14	271	8.46
CO	176	6.80	224	8.66	179	7.01
CT	236	6.72	239	6.81	244	7.00
GA	862	9.50	821	9.05	863	9.73
MD	348	6.21	359	6.41	442	7.98
MN	406	7.91	387	7.54	338	6.64
NM	148	7.67	136	7.05	138	7.19
NY	304	7.06	263	6.11	263	6.65
OR	184	5.05	214	5.88	213	5.94
TN	452	7.58	408	6.84	406	7.91
ALL	3374	7.51	3312	7.37	3358	7.73

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

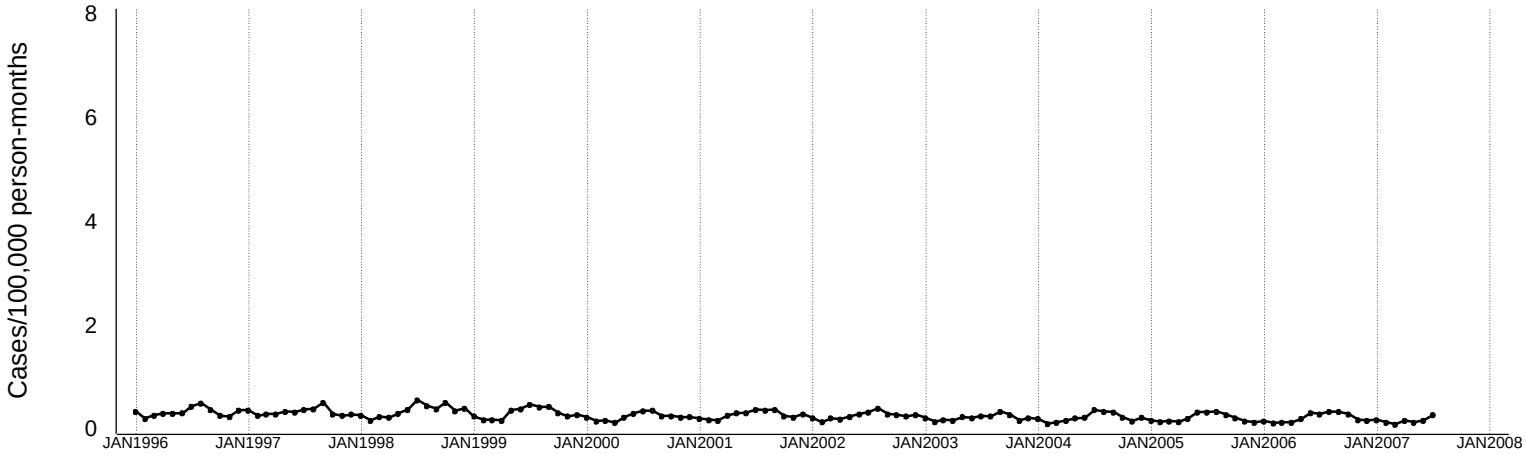


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

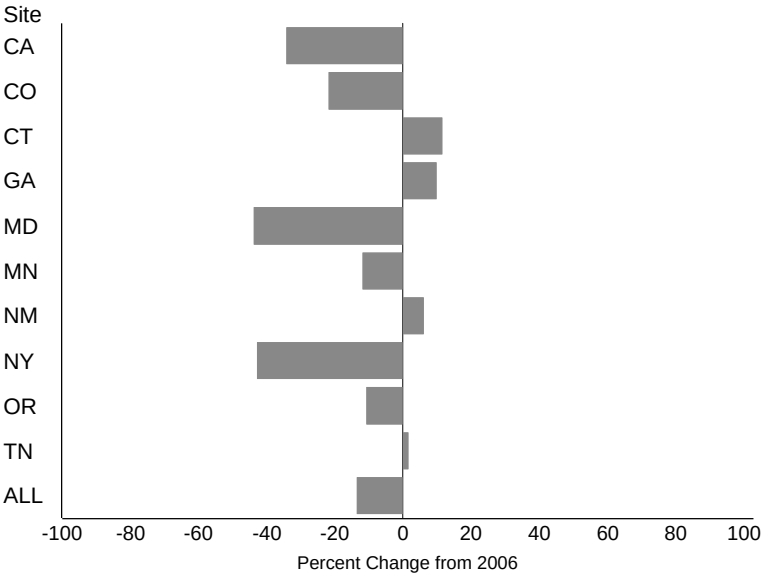
Report date: 26-September-2007

Salmonella Typhimurium

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

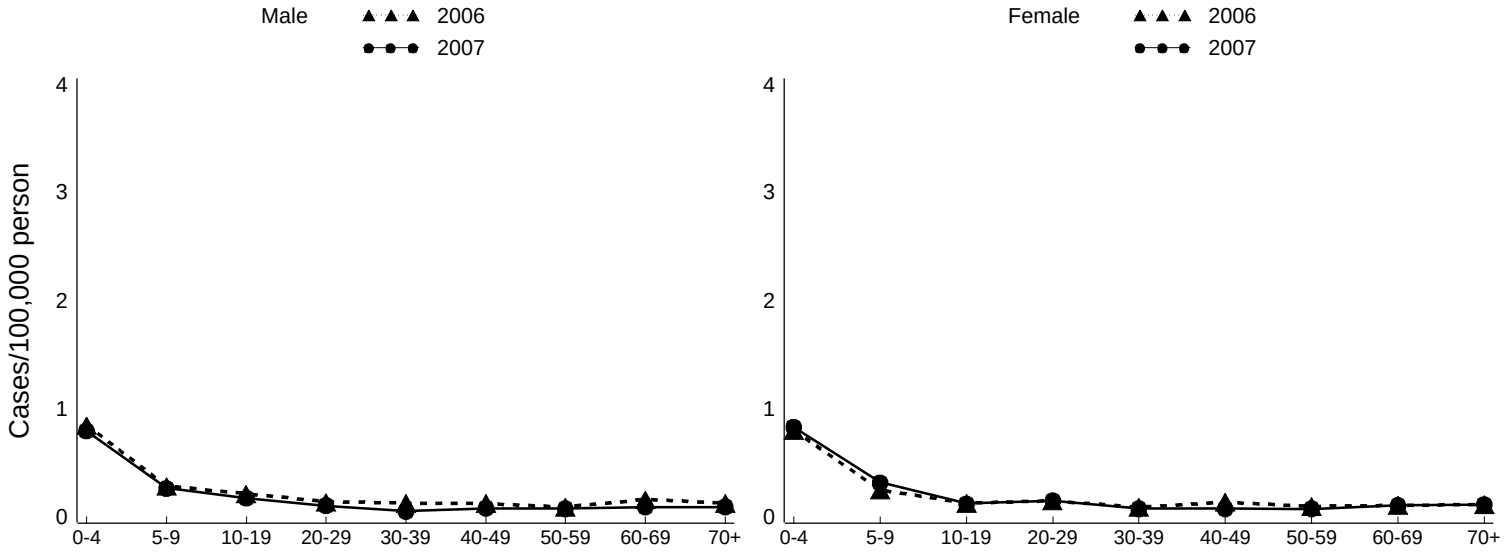


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	33	1.03	50	1.56	49	1.53
CO	36	1.39	46	1.78	39	1.54
CT	39	1.11	35	1.00	47	1.34
GA	136	1.50	124	1.37	140	1.58
MD	40	0.71	71	1.27	76	1.37
MN	76	1.48	86	1.68	75	1.47
NM	18	0.93	17	0.88	22	1.16
NY	35	0.81	61	1.42	49	1.21
OR	34	0.93	38	1.04	42	1.16
TN	69	1.16	68	1.14	87	1.73
ALL	516	1.15	596	1.33	625	1.44

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

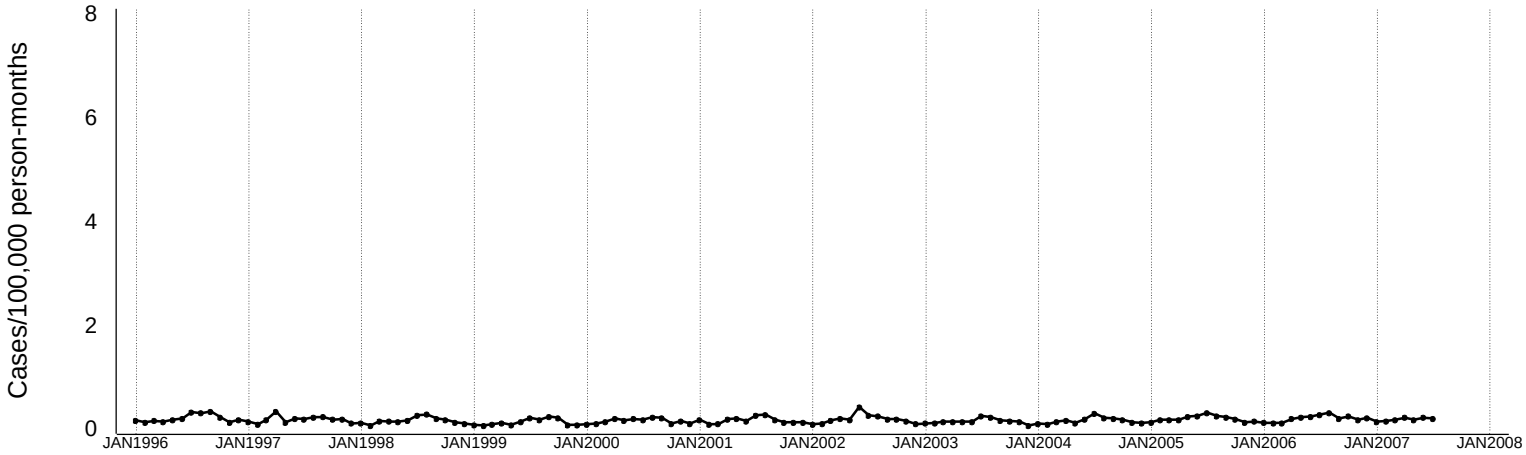


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

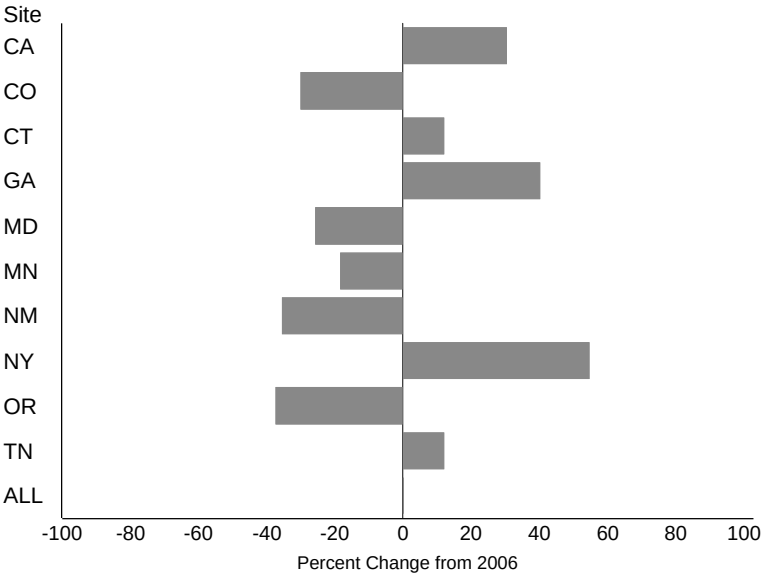
Report date: 26-September-2007

Salmonella Enteritidis

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

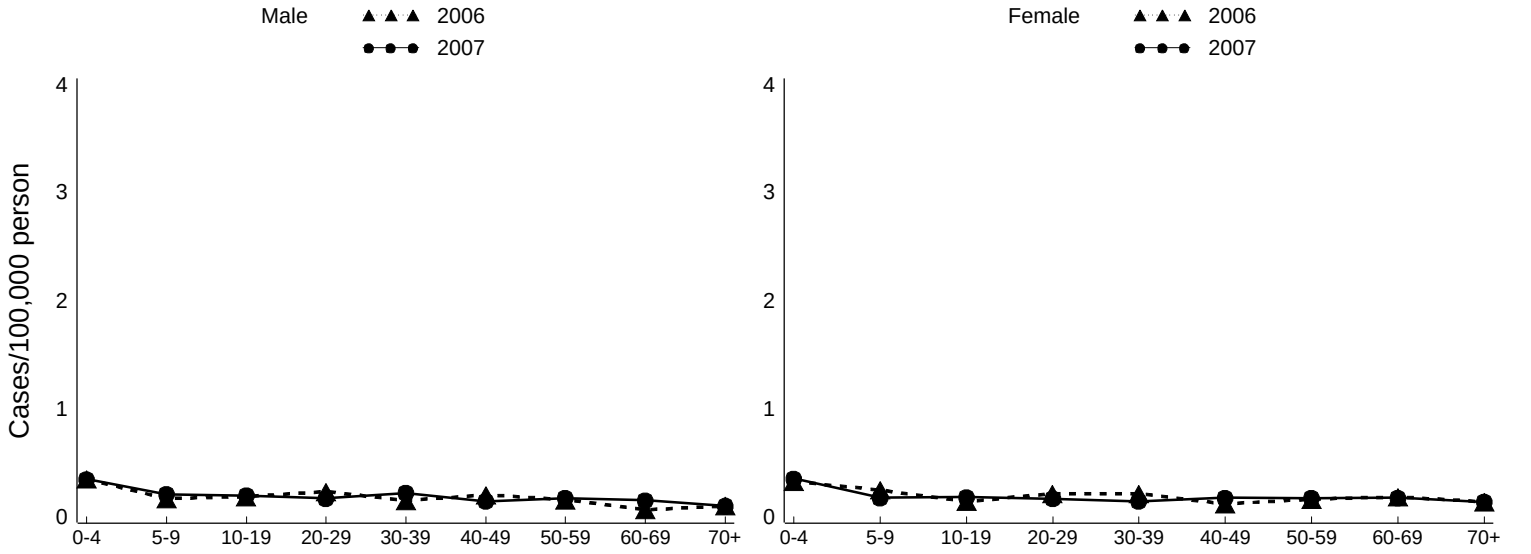


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	43	1.341	33	1.029	47	1.472
CO	28	1.083	40	1.546	33	1.294
CT	75	2.137	67	1.909	58	1.659
GA	98	1.080	70	0.772	62	0.693
MD	81	1.446	109	1.946	123	2.213
MN	85	1.656	104	2.026	72	1.405
NM	11	0.570	17	0.882	13	0.694
NY	85	1.973	55	1.277	65	1.696
OR	27	0.742	43	1.181	38	1.063
TN	56	0.939	50	0.839	44	0.811
ALL	589	1.310	588	1.308	554	1.283

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

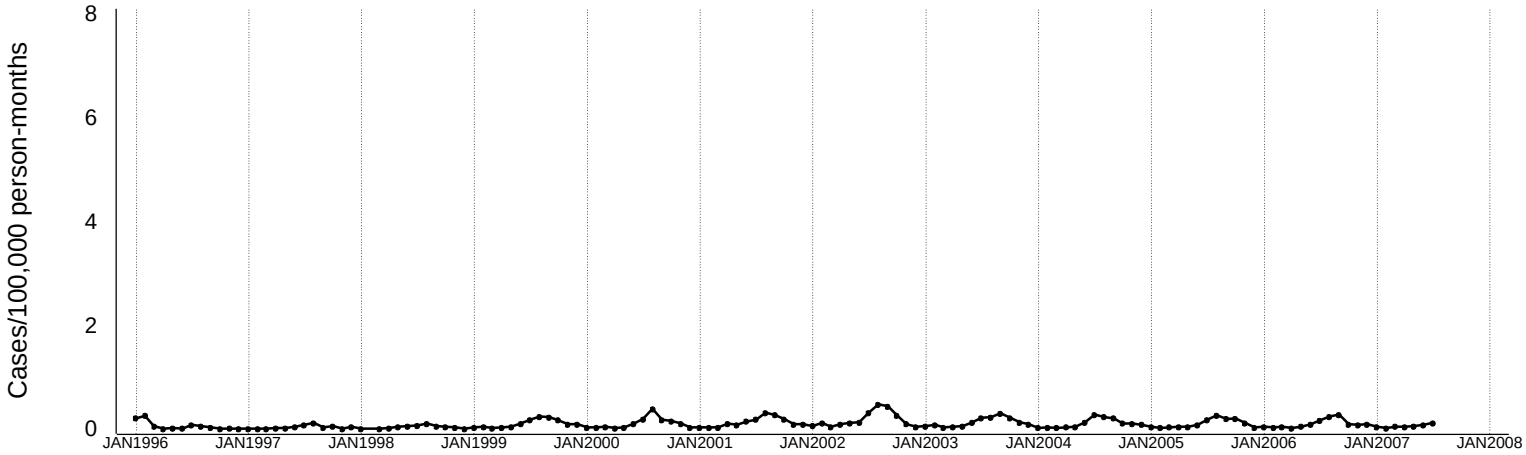


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

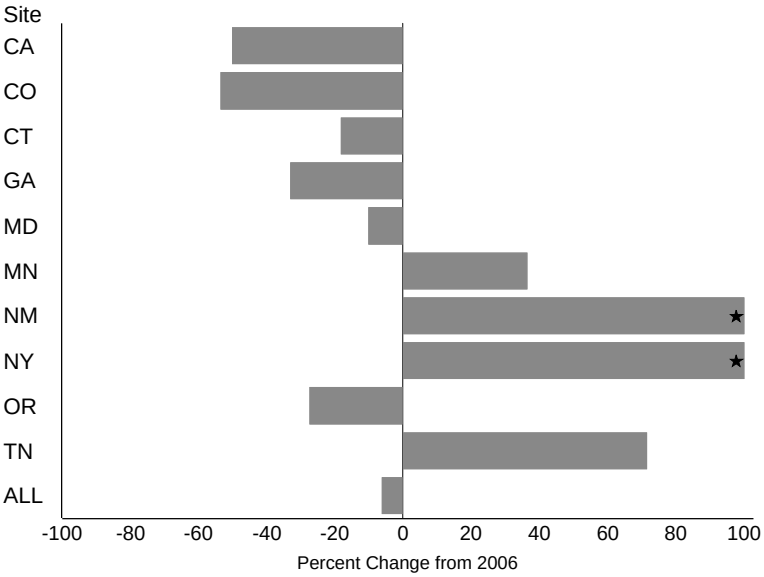
Report date: 26-September-2007

Salmonella Newport

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

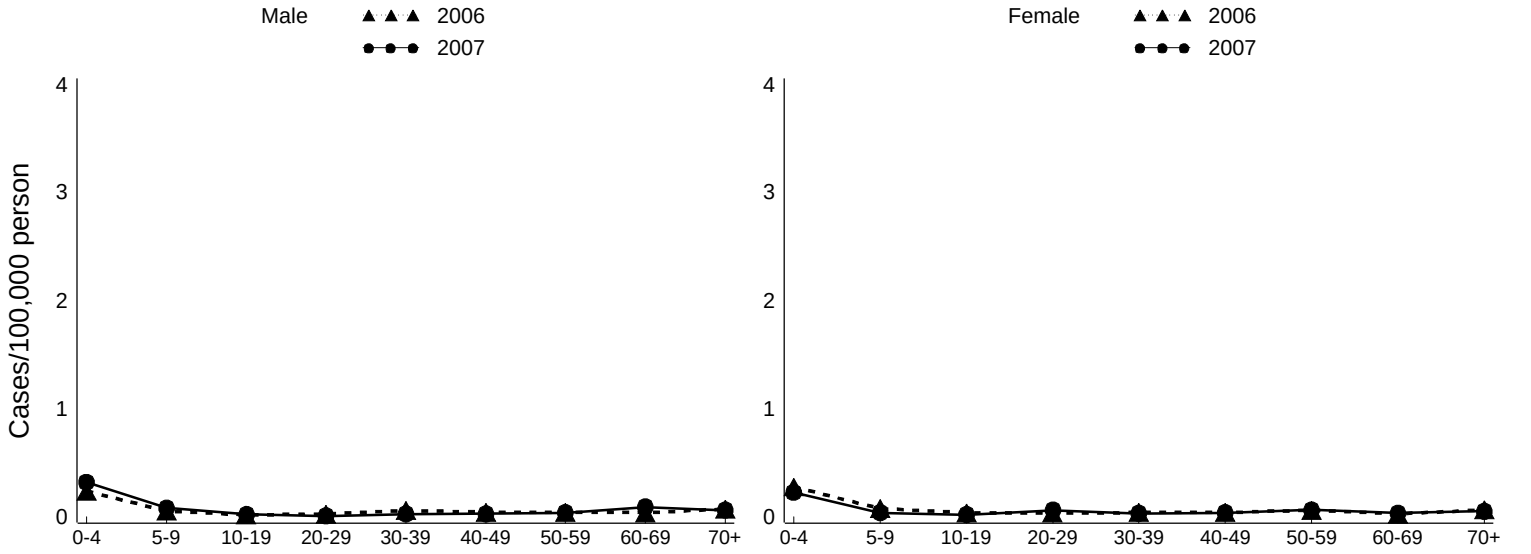


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	10	0.312	20	0.624	17	0.536
CO	7	0.271	15	0.580	14	0.535
CT	9	0.256	11	0.313	14	0.413
GA	57	0.628	85	0.937	104	1.173
MD	9	0.161	10	0.179	18	0.329
MN	15	0.292	11	0.214	19	0.378
NM	20	1.037	9	0.467	10	0.521
NY	16	0.371	6	0.139	19	0.515
OR	8	0.220	11	0.302	16	0.442
TN	36	0.604	21	0.352	24	0.484
ALL	187	0.416	199	0.443	256	0.597

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

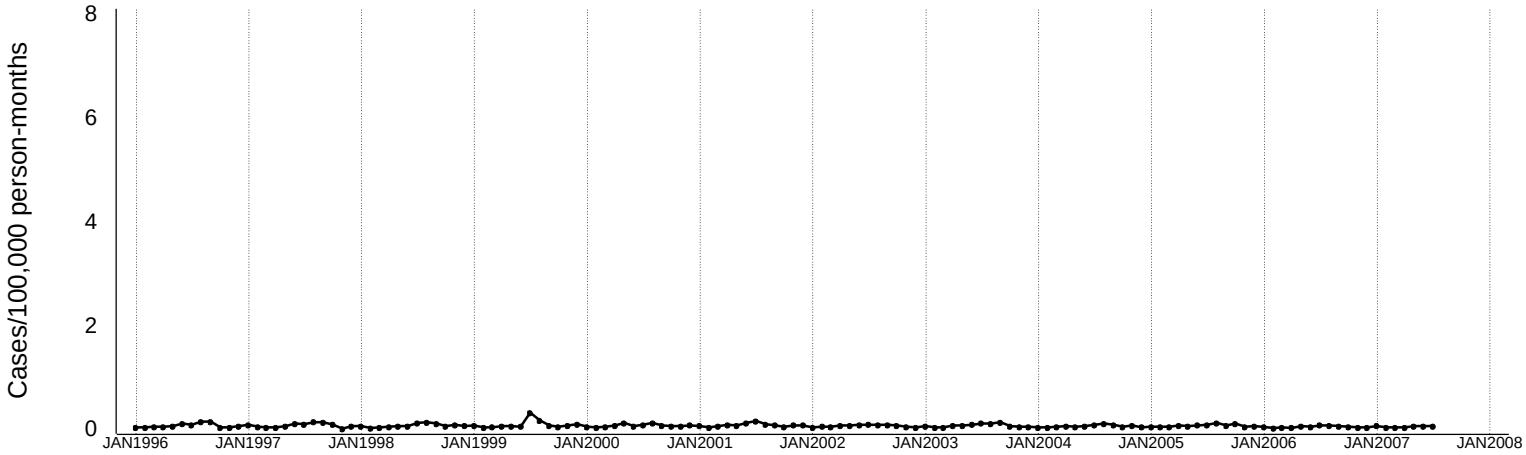


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

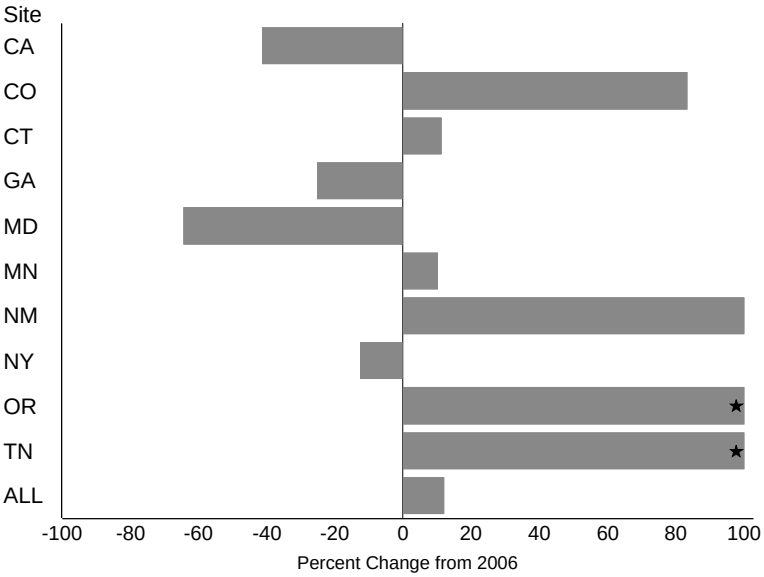
Report date: 26-September-2007

Salmonella Heidelberg

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

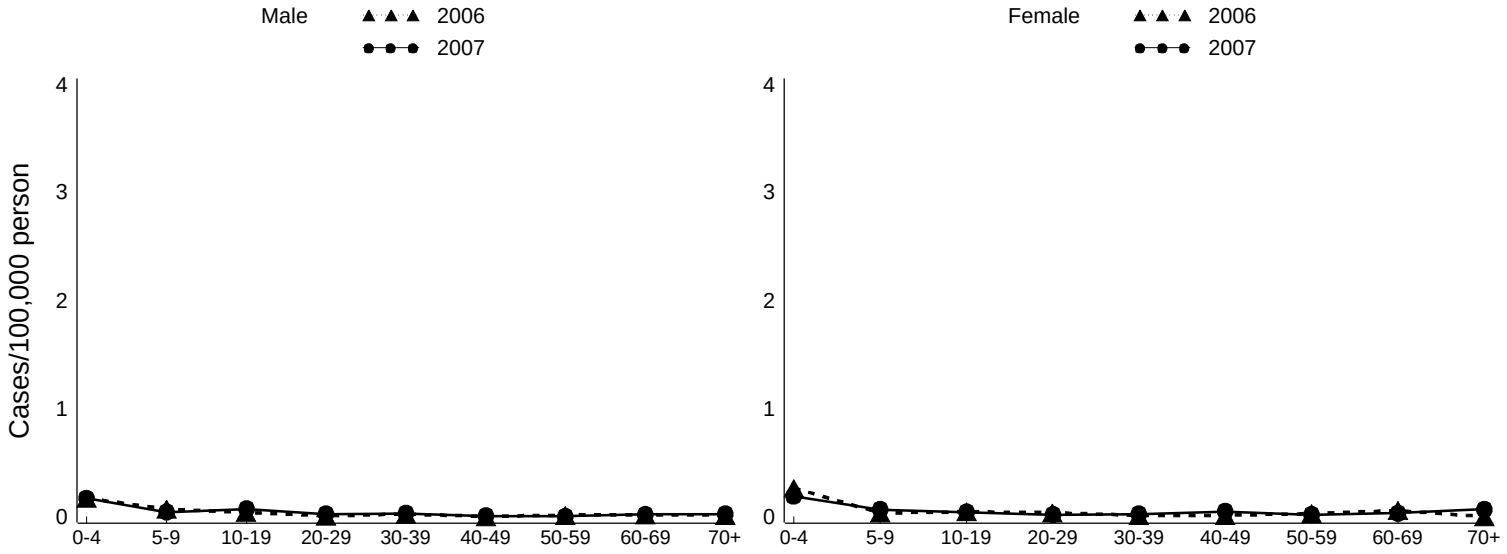


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	10	0.312	17	0.530	25	0.779
CO	11	0.425	6	0.232	7	0.260
CT	10	0.285	9	0.256	13	0.366
GA	27	0.298	36	0.397	39	0.440
MD	5	0.089	14	0.250	17	0.307
MN	11	0.214	10	0.195	14	0.275
NM	4	0.207	2	0.104	3	0.139
NY	14	0.325	16	0.371	19	0.467
OR	17	0.467	8	0.220	14	0.400
TN	42	0.704	17	0.285	18	0.358
ALL	151	0.336	135	0.300	168	0.393

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

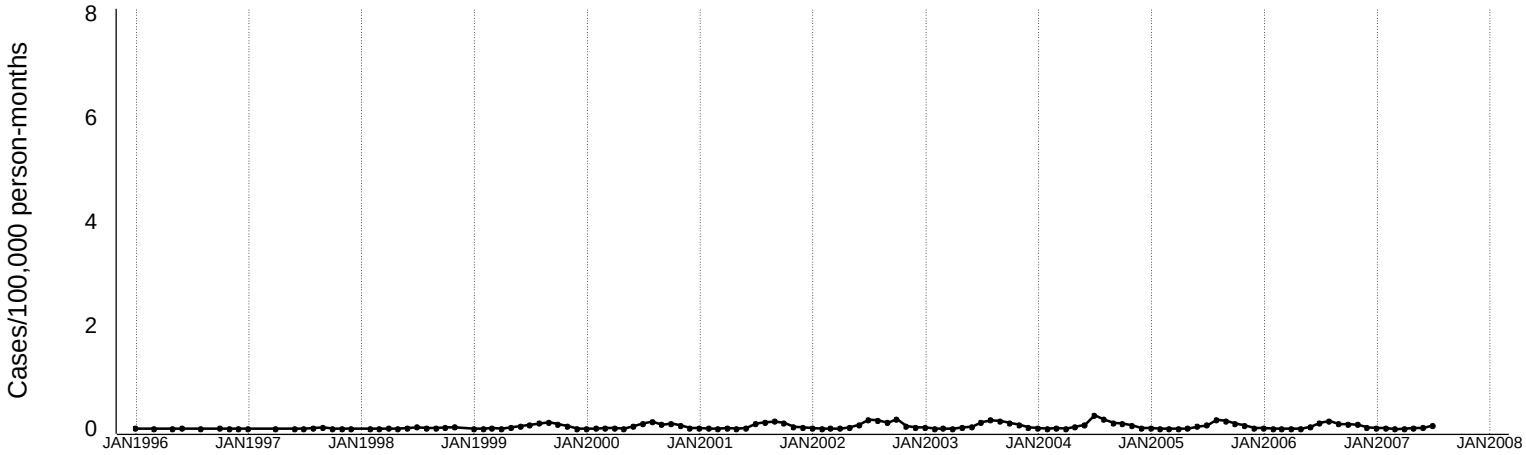


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

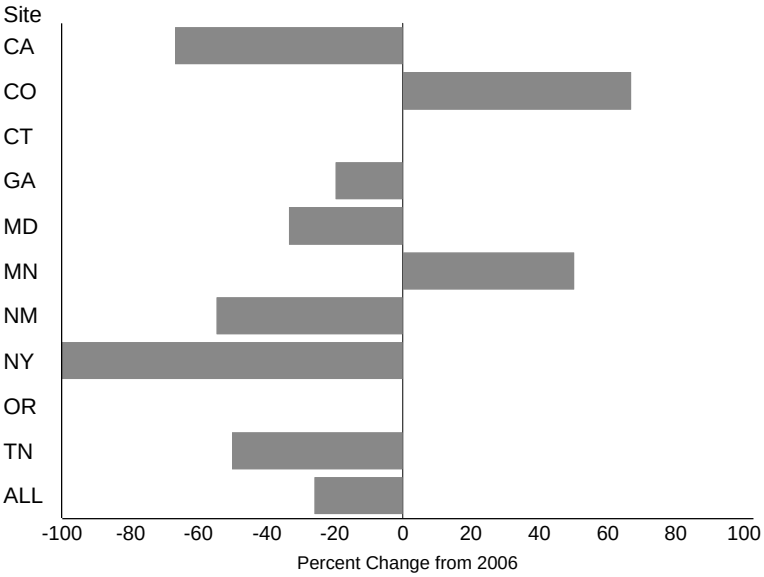
Report date: 26-September-2007

Salmonella Javiana

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

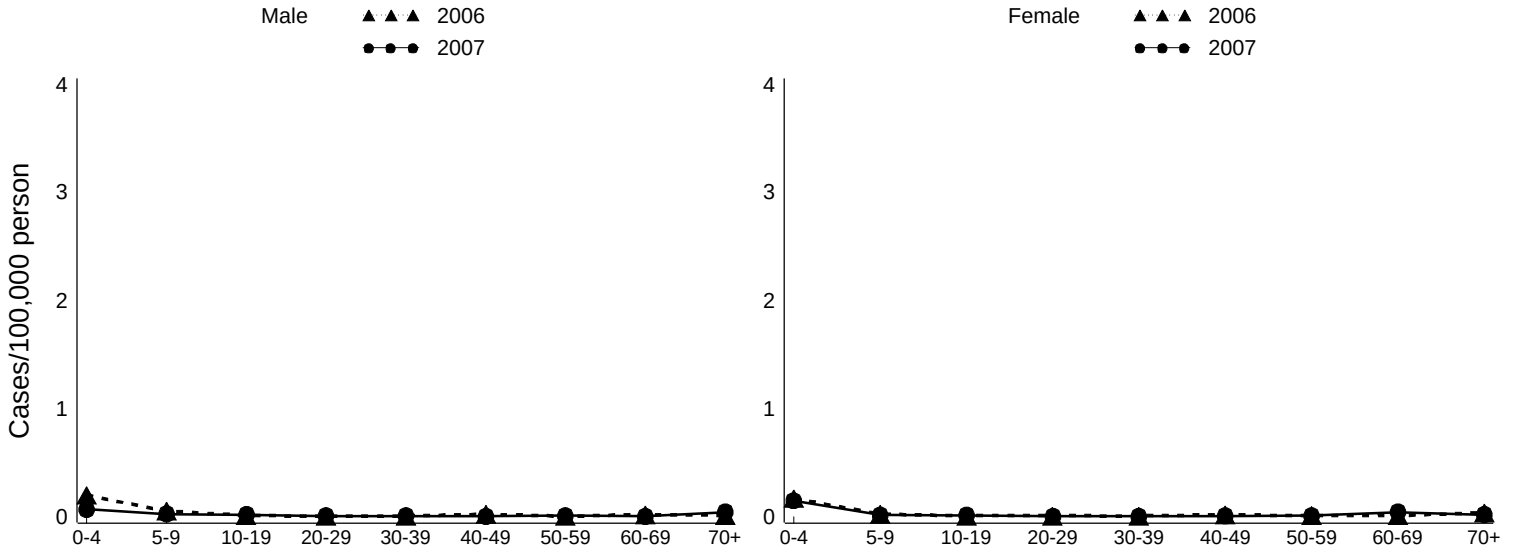


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	1	0.031	3	0.094	2	0.069
CO	5	0.193	3	0.116	2	0.071
CT	1	0.028	1	0.028	3	0.086
GA	49	0.540	61	0.672	75	0.845
MD	4	0.071	6	0.107	18	0.332
MN	3	0.058	2	0.039	4	0.071
NM	5	0.259	11	0.570	9	0.469
NY	0	0.000	1	0.023	3	0.088
OR	1	0.027	1	0.027	1	0.039
TN	6	0.101	12	0.201	11	0.226
ALL	75	0.167	101	0.225	129	0.293

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex



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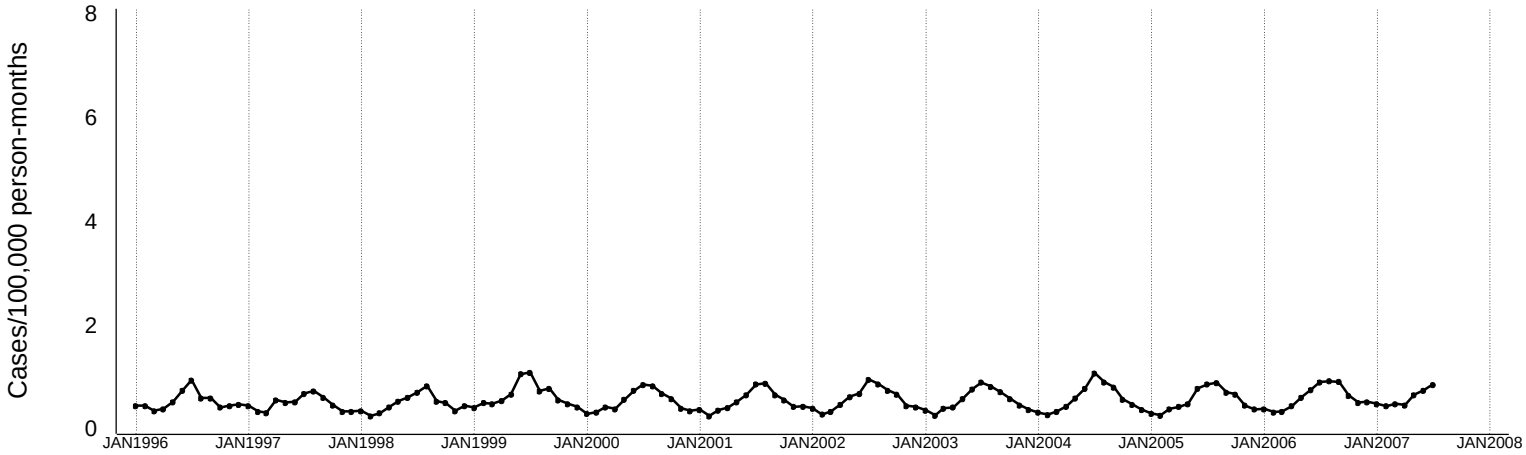
Report date: 26-September-2007

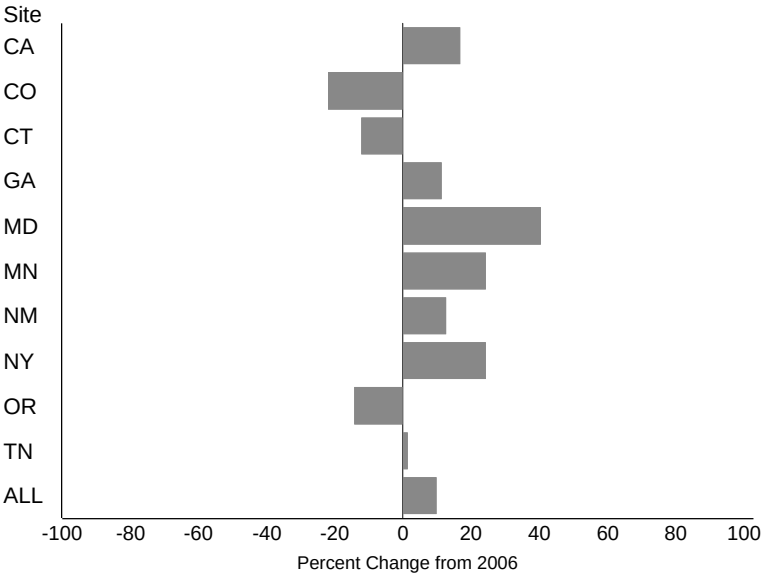
Salmonella, all others

30

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

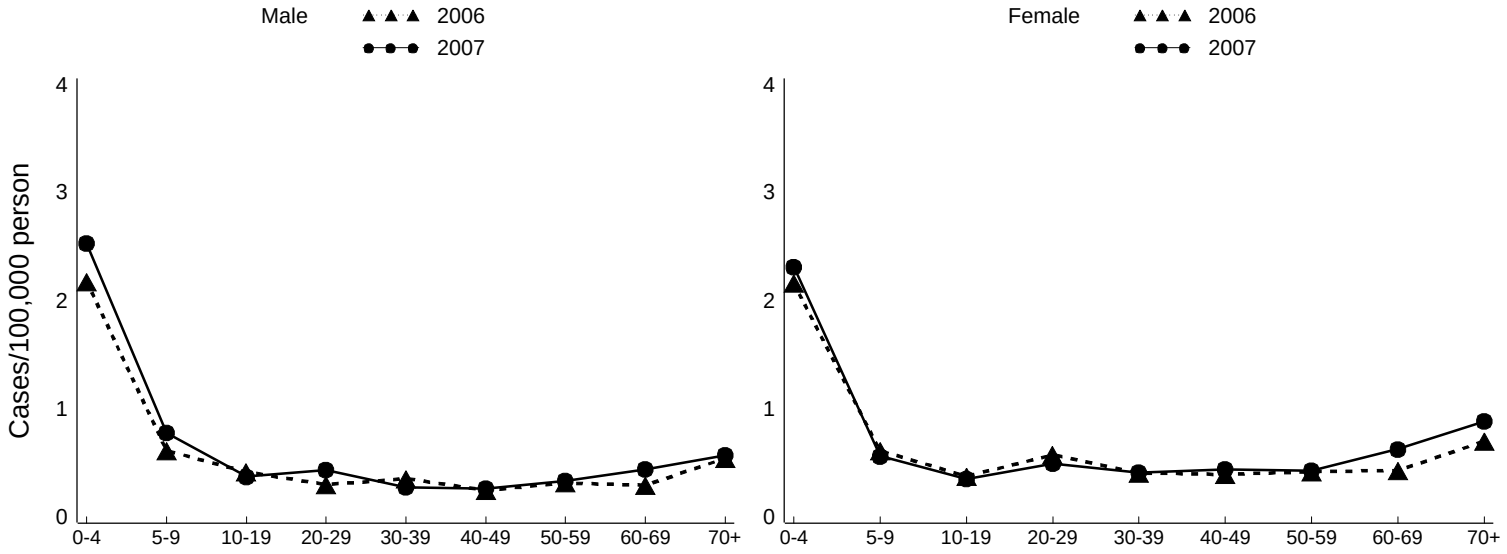


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	161	5.02	138	4.30	131	4.07
CO	89	3.44	114	4.41	84	3.30
CT	102	2.91	116	3.30	109	3.13
GA	495	5.46	445	4.90	444	5.00
MD	209	3.73	149	2.66	190	3.43
MN	216	4.21	174	3.39	155	3.05
NM	90	4.67	80	4.15	81	4.20
NY	154	3.57	124	2.88	108	2.68
OR	97	2.66	113	3.10	102	2.84
TN	243	4.08	240	4.02	222	4.31
ALL	1856	4.13	1693	3.77	1626	3.72

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex



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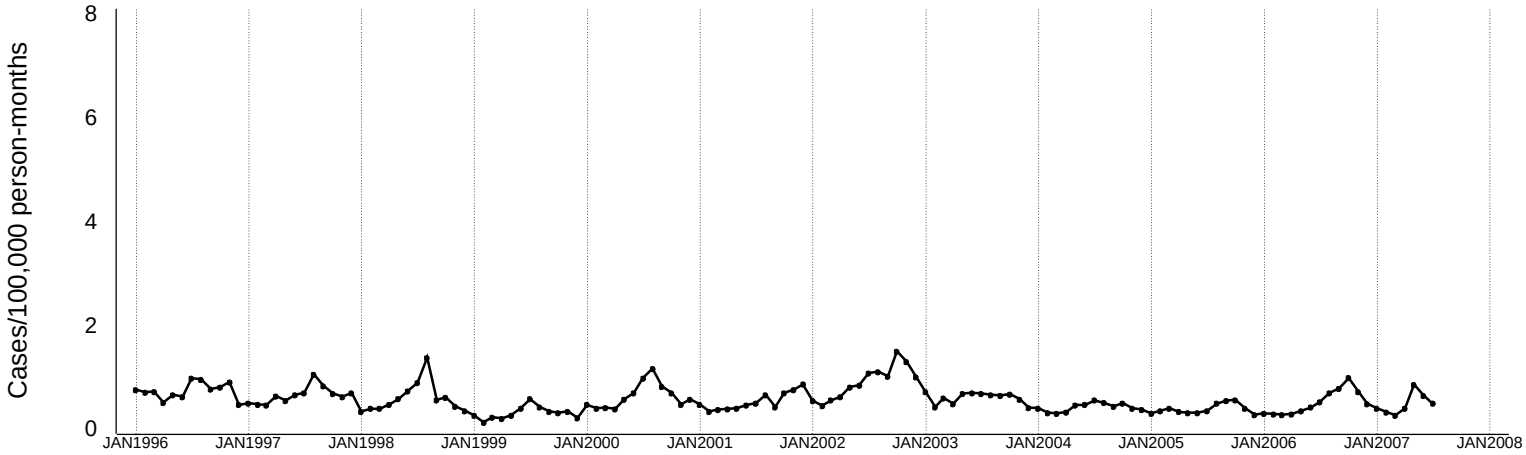
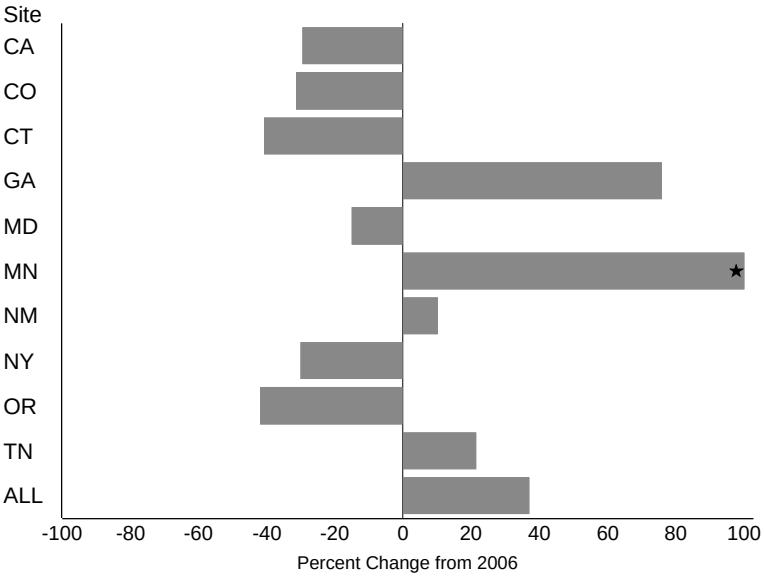
Report date: 26-September-2007

Shigella, all species

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

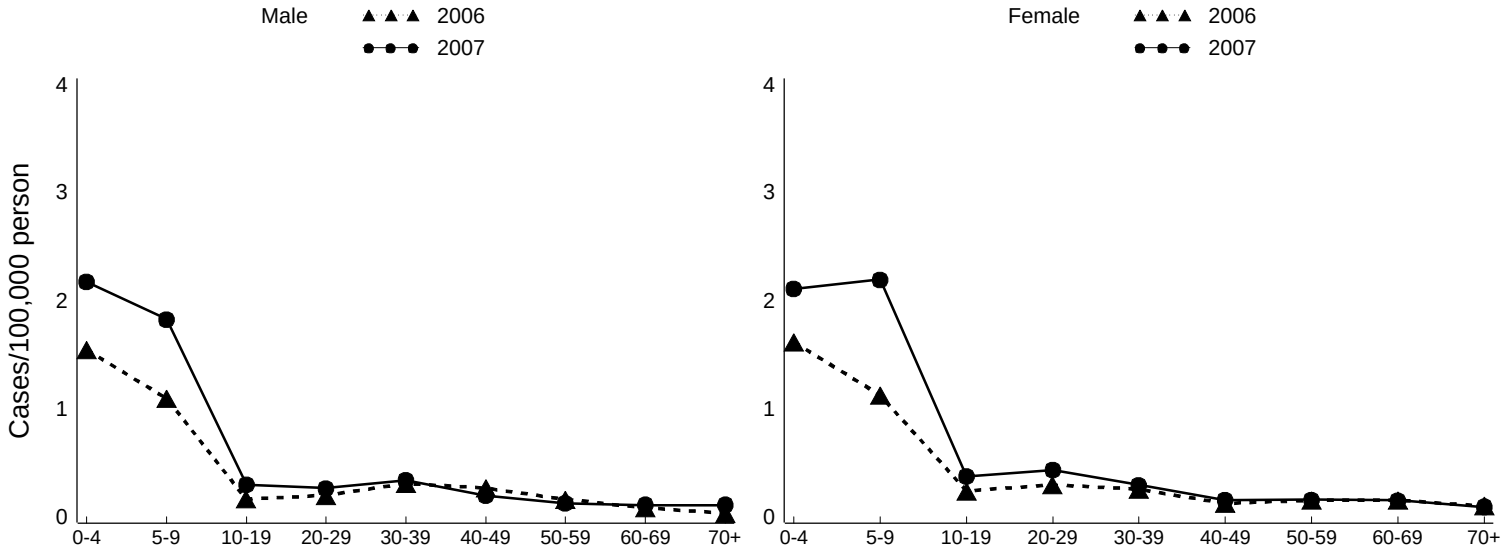


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	94	2.93	133	4.15	146	4.56
CO	44	1.70	64	2.47	54	2.11
CT	19	0.54	32	0.91	36	1.02
GA	949	10.5	540	5.95	550	6.23
MD	51	0.91	60	1.07	218	3.98
MN	156	3.04	63	1.23	69	1.35
NM	66	3.42	60	3.11	61	3.20
NY	21	0.49	30	0.70	68	1.63
OR	32	0.88	55	1.51	44	1.21
TN	91	1.53	75	1.26	199	3.51
ALL	1523	3.39	1112	2.47	1444	3.37

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

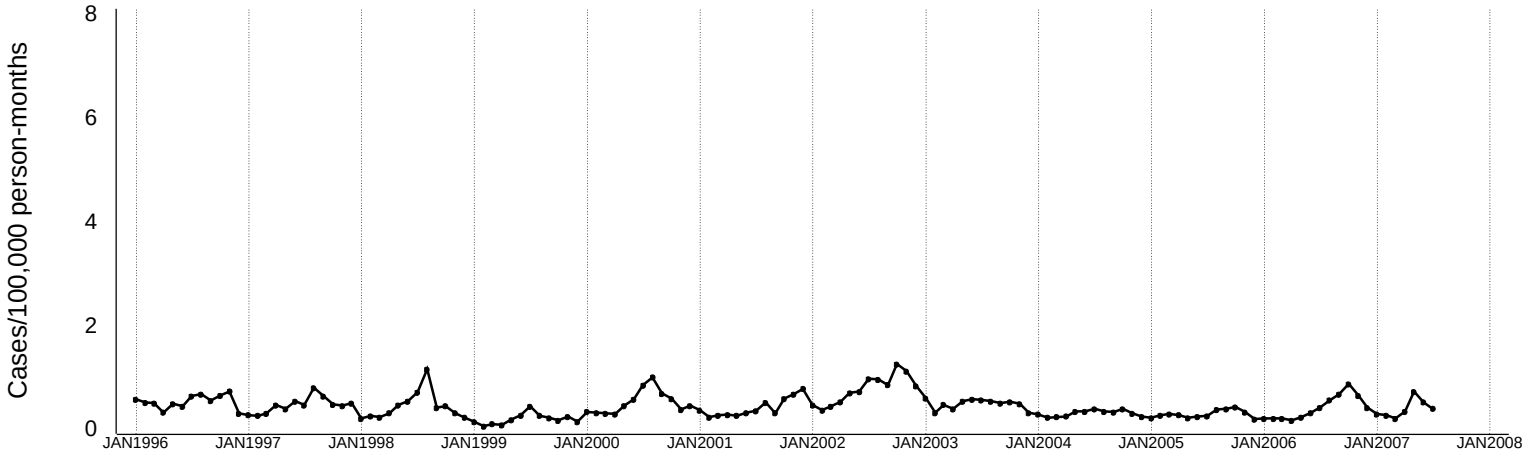


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

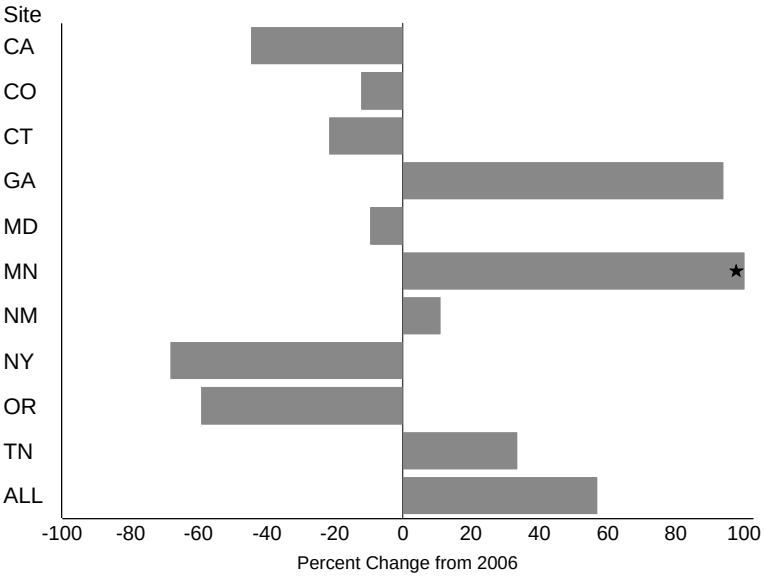
Report date: 26-September-2007

Shigella sonnei

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

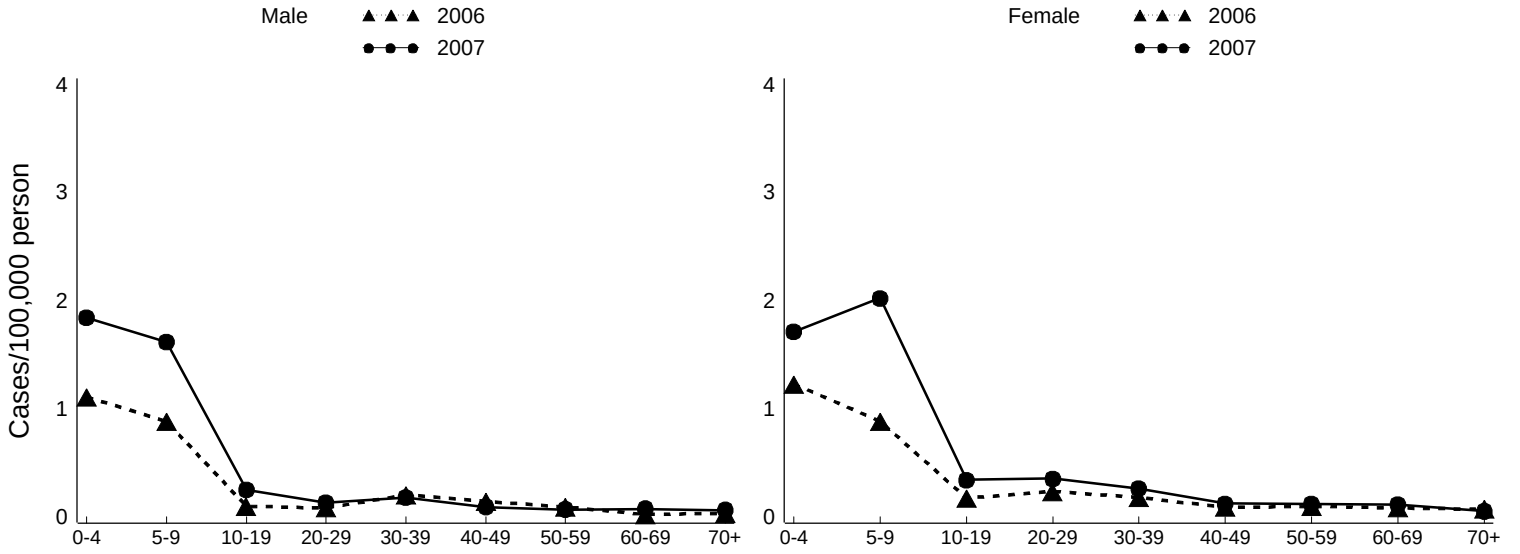


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	39	1.216	70	2.183	76	2.362
CO	29	1.121	33	1.276	33	1.298
CT	11	0.313	14	0.399	21	0.614
GA	831	9.159	429	4.729	449	5.103
MD	29	0.518	32	0.571	190	3.466
MN	139	2.708	39	0.760	49	0.967
NM	51	2.645	46	2.385	41	2.137
NY	8	0.186	25	0.580	61	1.463
OR	16	0.439	39	1.071	27	0.751
TN	72	1.207	54	0.906	174	3.028
ALL	1225	2.725	781	1.738	1122	2.640

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

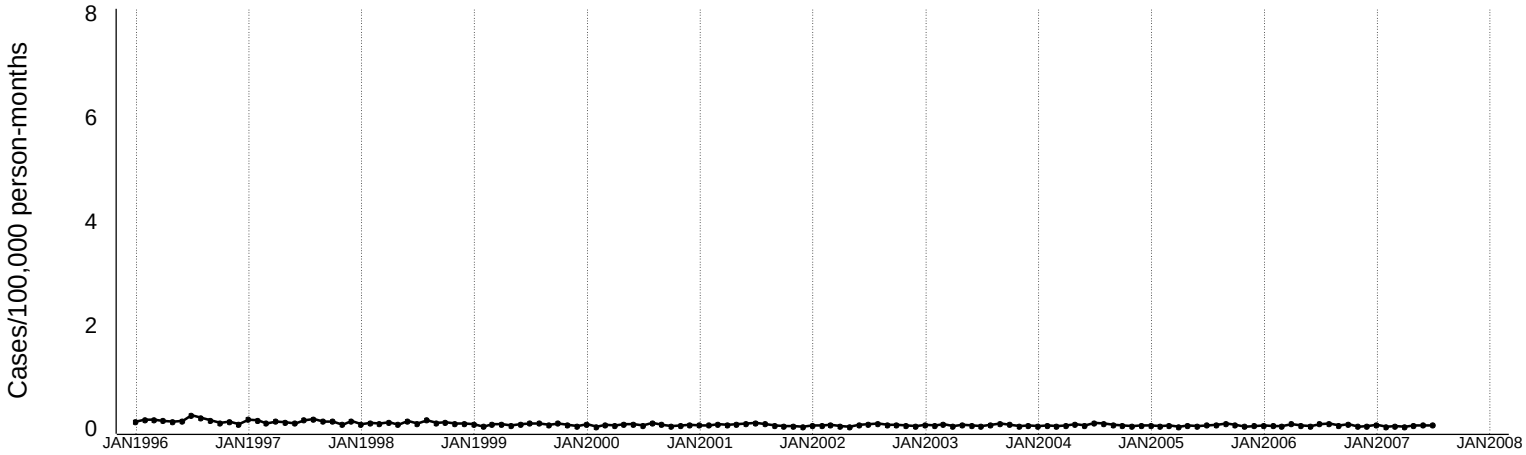


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

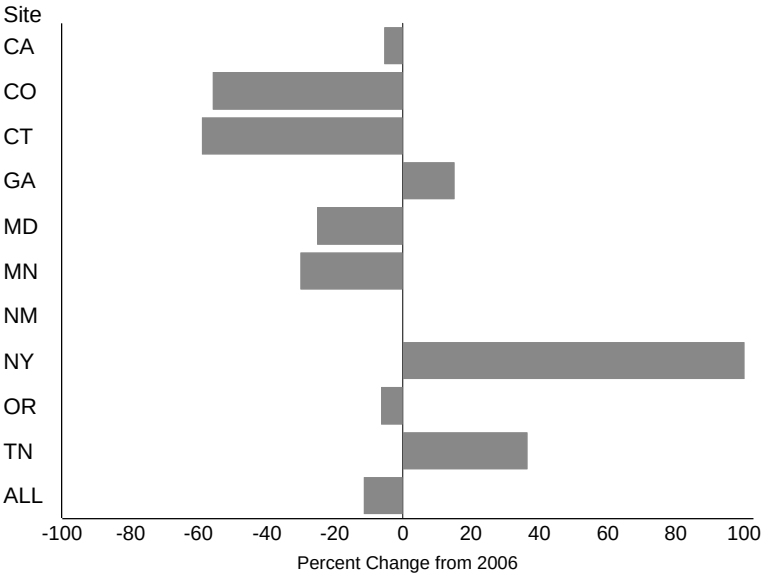
Report date: 26-September-2007

Shigella flexneri

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

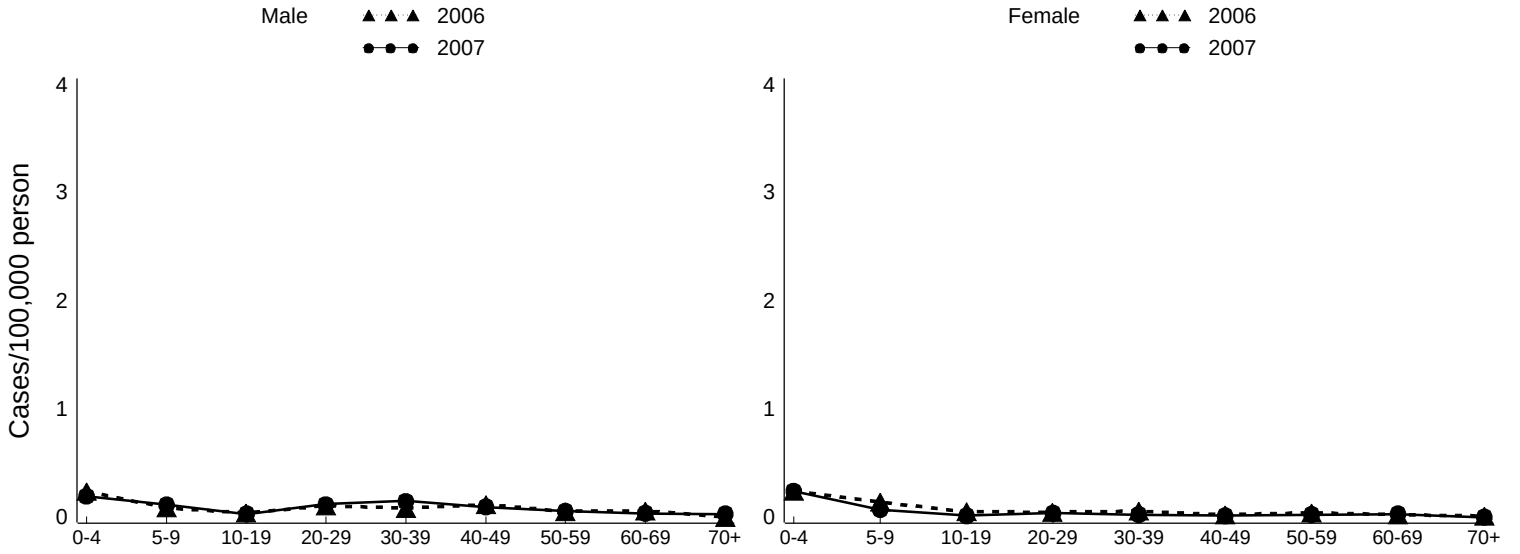


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	53	1.653	56	1.747	58	1.796
CO	12	0.464	27	1.044	18	0.713
CT	7	0.199	17	0.484	12	0.343
GA	46	0.507	40	0.441	46	0.519
MD	18	0.321	24	0.429	22	0.397
MN	14	0.273	20	0.390	17	0.334
NM	13	0.674	13	0.674	18	0.957
NY	10	0.232	5	0.116	6	0.142
OR	15	0.412	16	0.439	16	0.452
TN	15	0.252	11	0.184	8	0.160
ALL	203	0.452	229	0.509	221	0.498

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

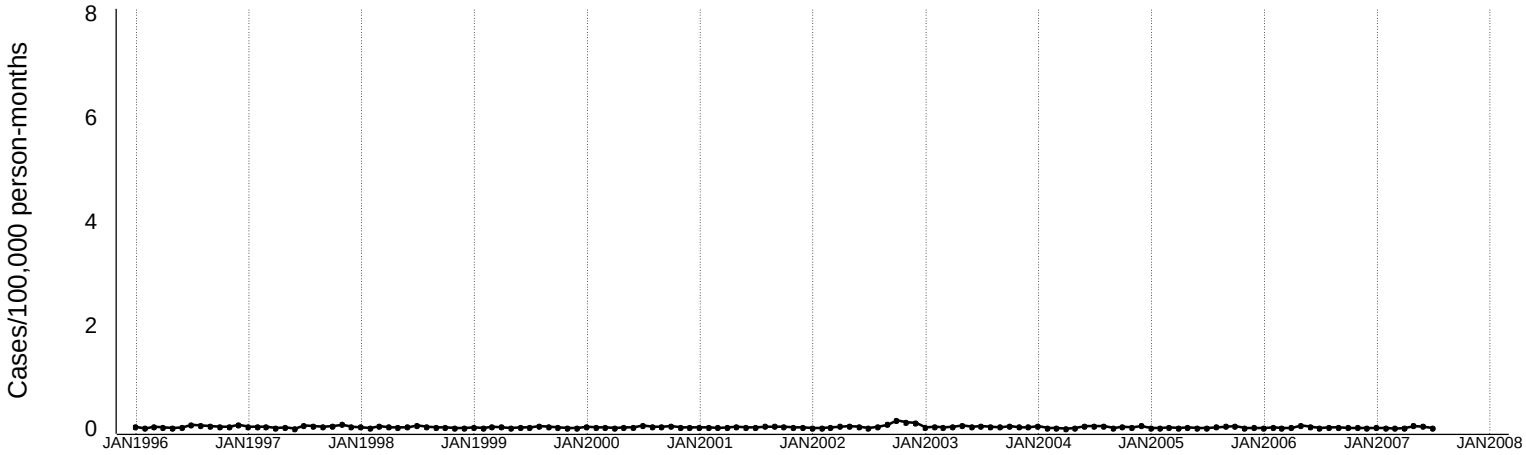


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

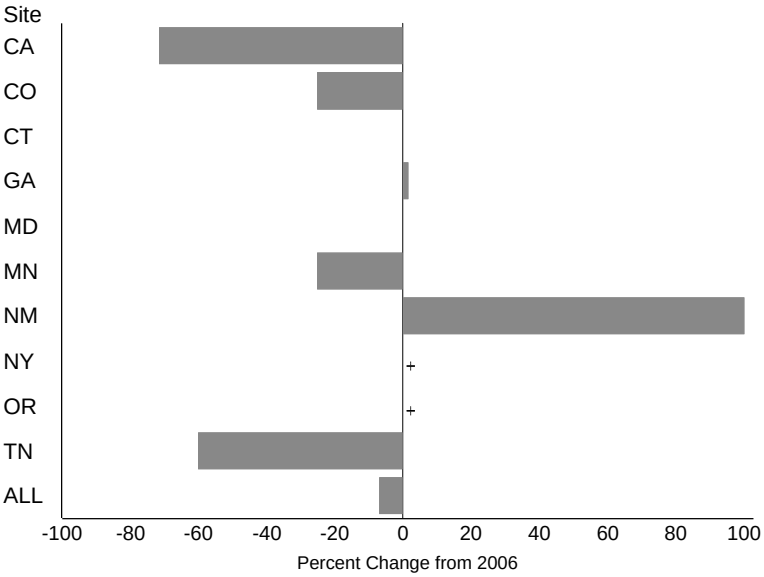
Report date: 26-September-2007

Shigella, all others

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

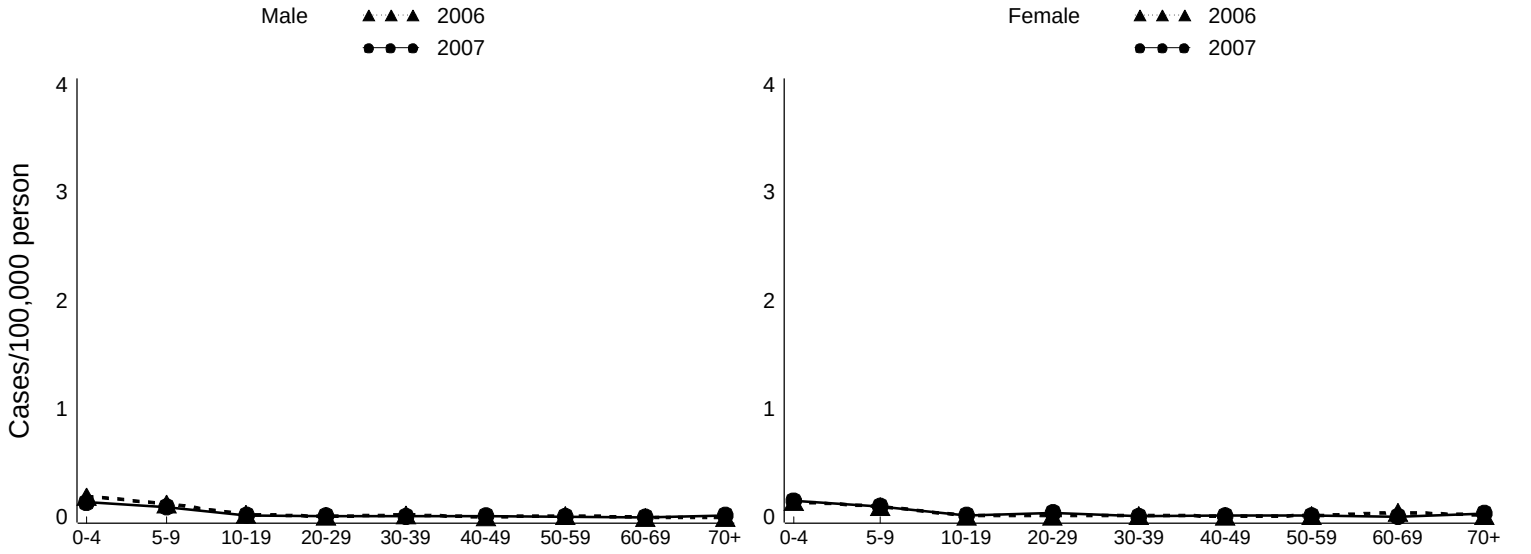


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	2	0.062	7	0.218	13	0.399
CO	3	0.116	4	0.155	3	0.102
CT	1	0.028	1	0.028	2	0.063
GA	72	0.794	71	0.783	54	0.613
MD	4	0.071	4	0.071	7	0.120
MN	3	0.058	4	0.078	3	0.051
NM	2	0.104	1	0.052	2	0.104
NY	3	0.070	0	0.000	1	0.029
OR	1	0.027	0	0.000	0	0.011
TN	4	0.067	10	0.168	17	0.317
ALL	95	0.211	102	0.227	102	0.236

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

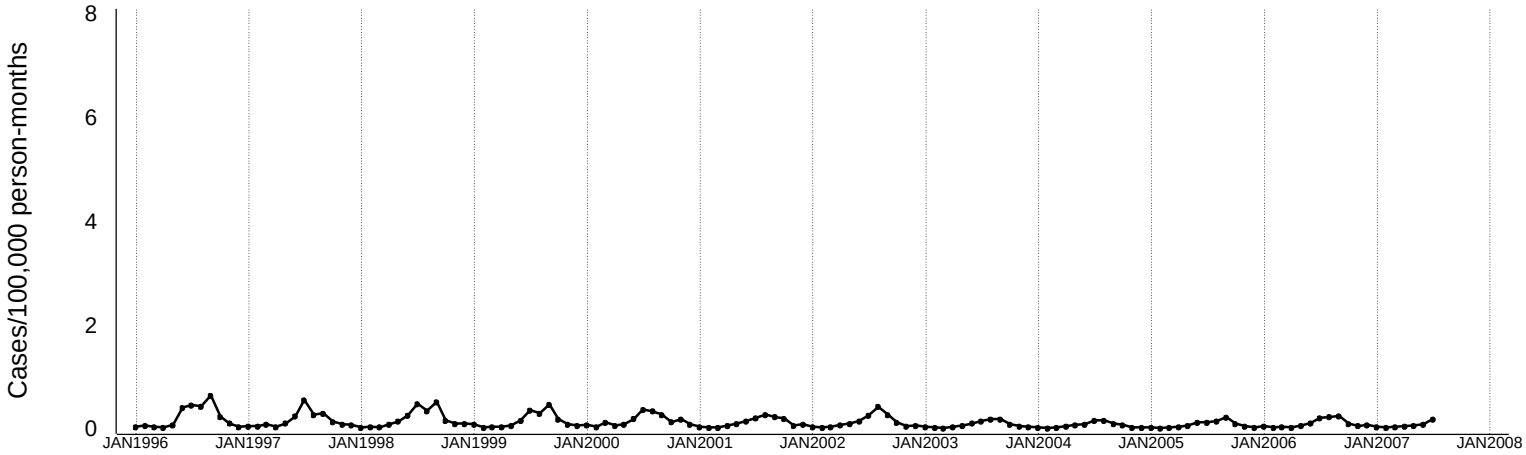


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

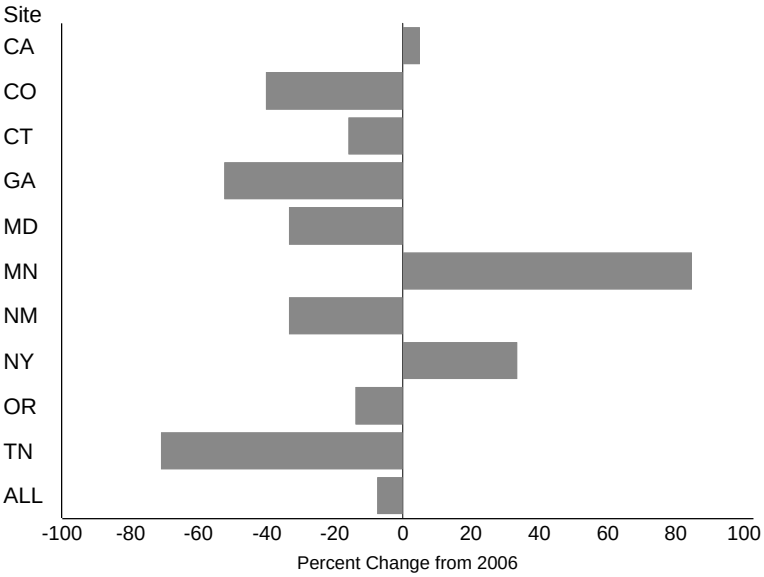
Report date: 26-September-2007

STEC O157

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

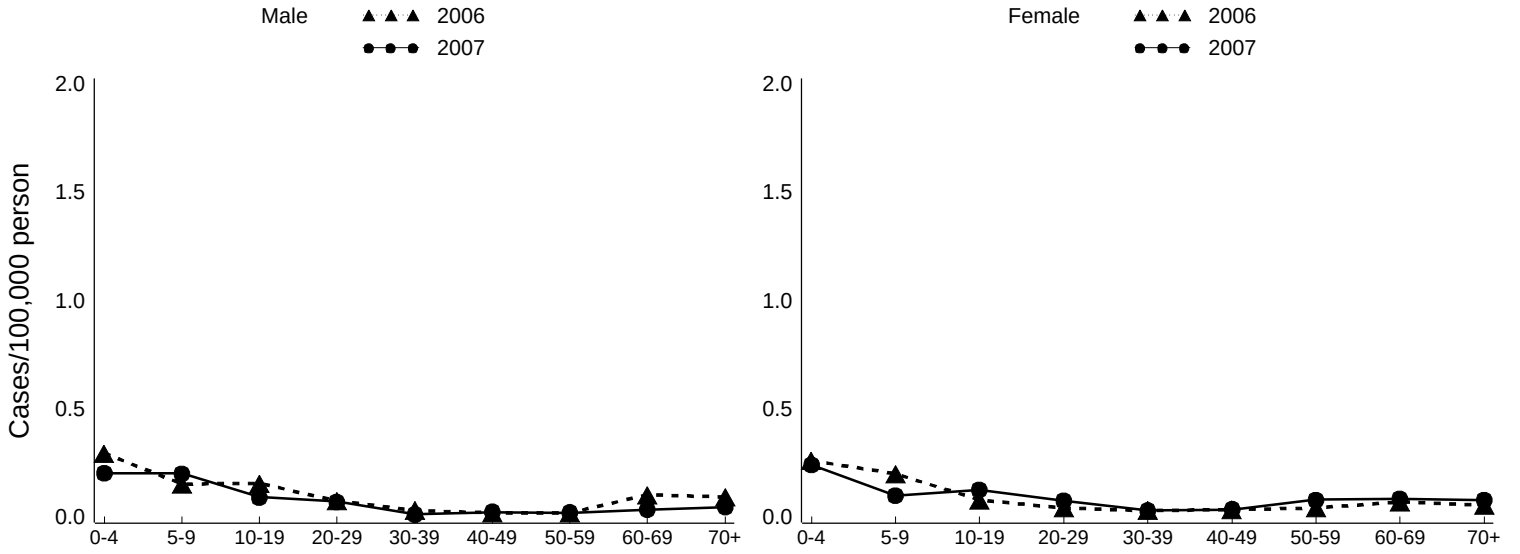


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	22	0.686	21	0.655	15	0.461
CO	9	0.348	15	0.580	21	0.843
CT	16	0.456	19	0.541	21	0.602
GA	11	0.121	23	0.254	19	0.219
MD	8	0.143	12	0.214	11	0.202
MN	96	1.870	52	1.013	55	1.086
NM	6	0.311	9	0.467	6	0.312
NY	28	0.650	21	0.487	27	0.671
OR	25	0.687	29	0.796	28	0.775
TN	16	0.268	55	0.922	28	0.529
ALL	237	0.527	256	0.570	232	0.541

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

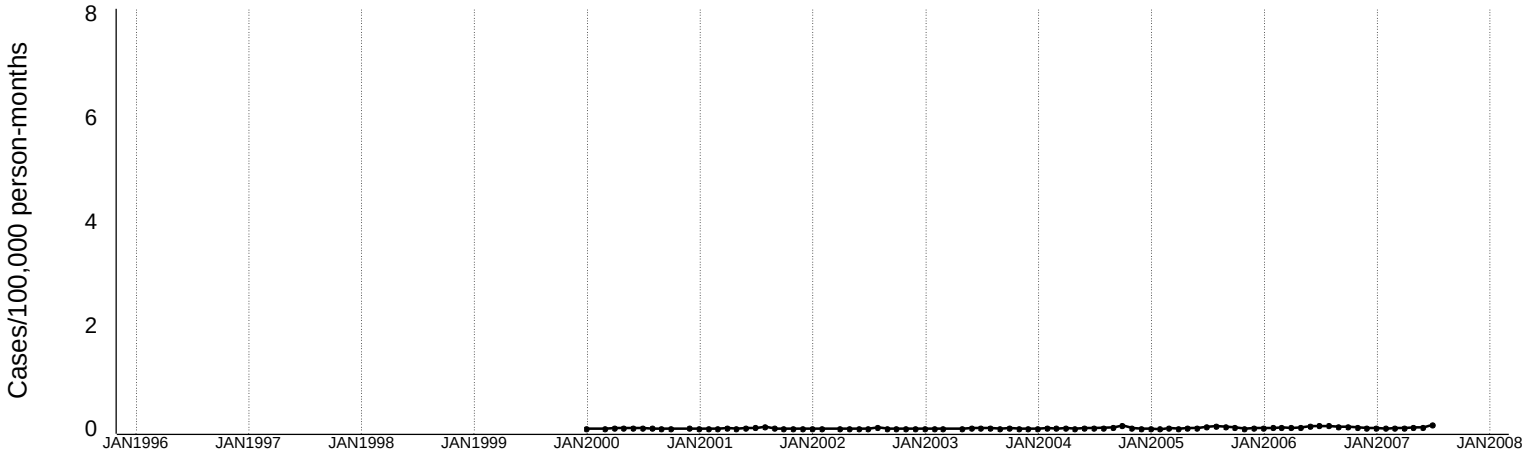


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

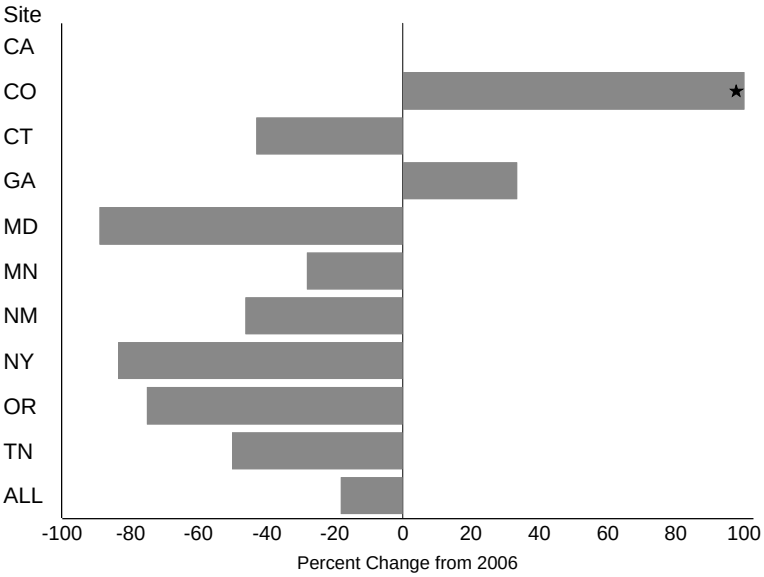
Report date: 26-September-2007

STEC Non-O157

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

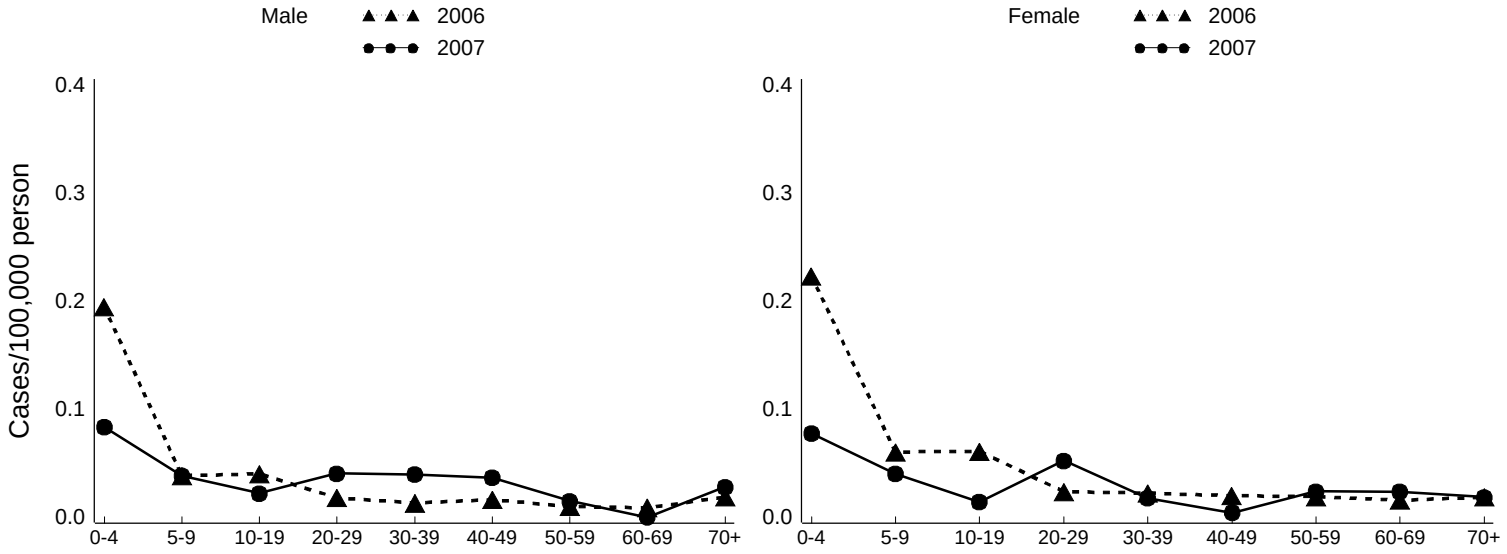


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	3	0.094	3	0.094	1	0.019
CO	39	1.508	12	0.464	3	0.132
CT	8	0.228	14	0.399	12	0.355
GA	12	0.132	9	0.099	3	0.036
MD	2	0.036	18	0.321	6	0.114
MN	18	0.351	25	0.487	10	0.196
NM	7	0.363	13	0.674	9	0.451
NY	2	0.046	12	0.279	4	0.093
OR	1	0.027	4	0.110	3	0.072
TN	3	0.050	6	0.101	2	0.034
ALL	95	0.211	116	0.258	53	0.113

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

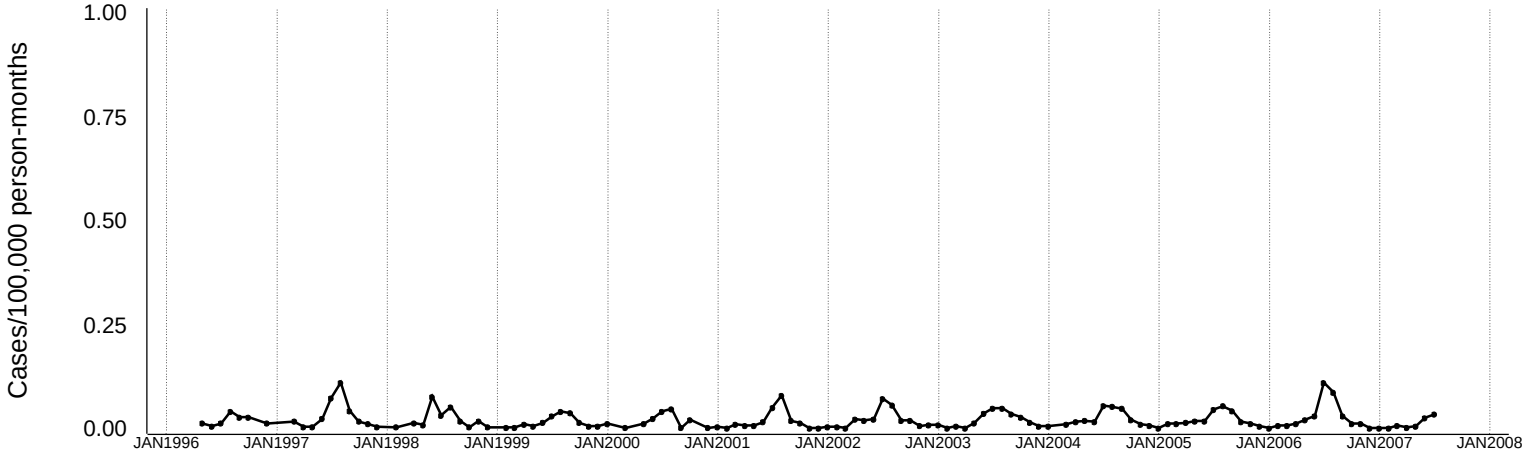


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

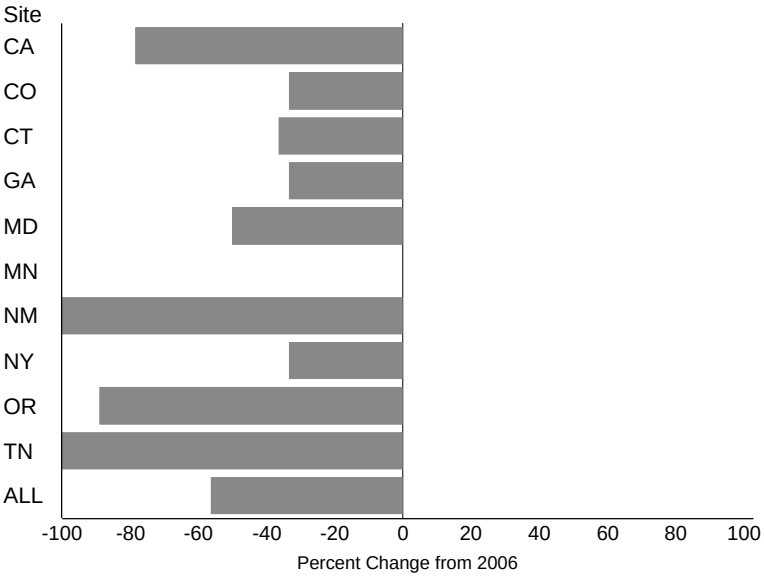
Report date: 26-September-2007

Vibrio, all species

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

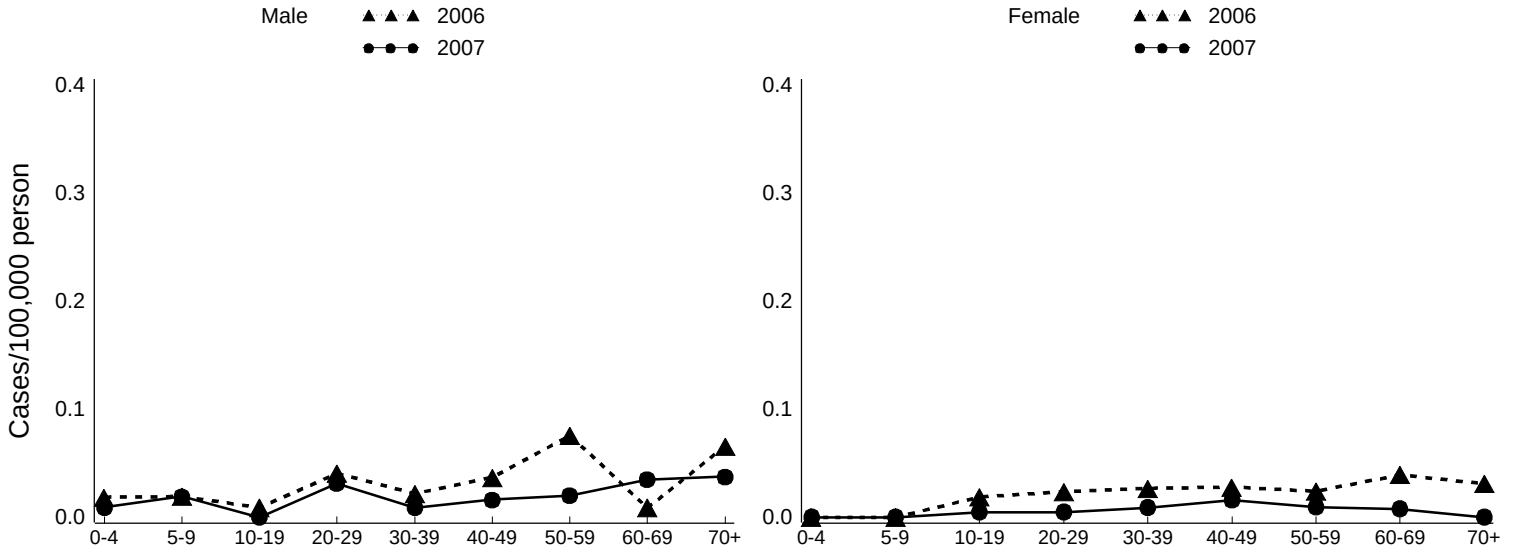


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	5	0.156	23	0.717	11	0.356
CO	2	0.077	3	0.116	3	0.102
CT	7	0.199	11	0.313	7	0.189
GA	10	0.110	15	0.165	13	0.142
MD	8	0.143	16	0.286	14	0.260
MN	2	0.039	2	0.039	3	0.055
NM	0	0.000	1	0.052	0	0.017
NY	4	0.093	6	0.139	3	0.080
OR	1	0.027	9	0.247	6	0.156
TN	0	0.000	3	0.050	4	0.079
ALL	39	0.087	89	0.198	64	0.148

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

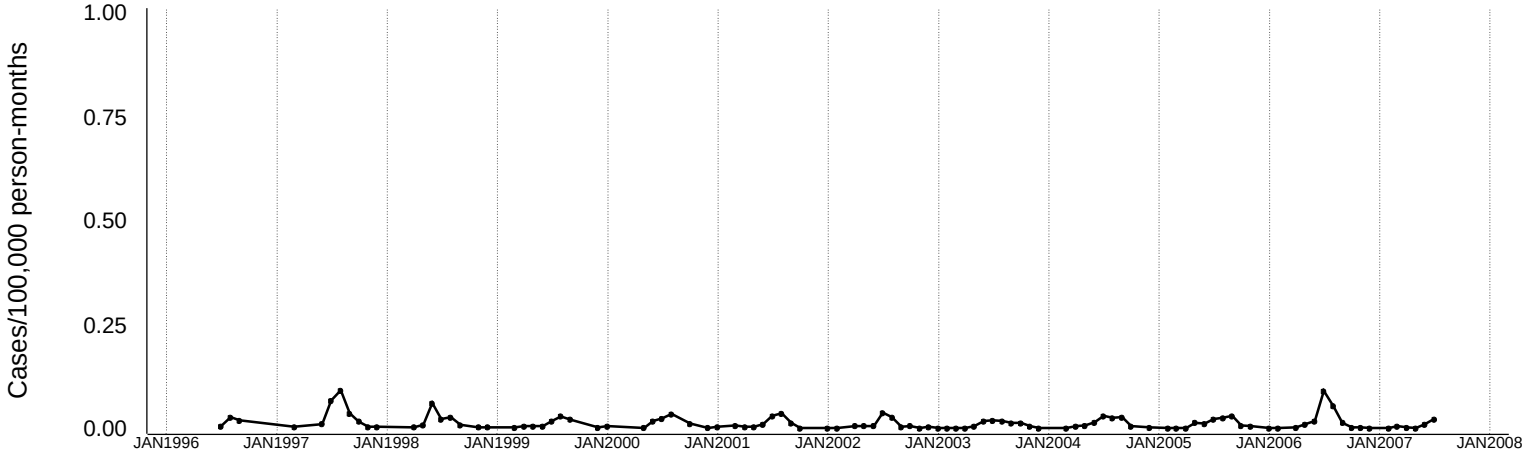


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

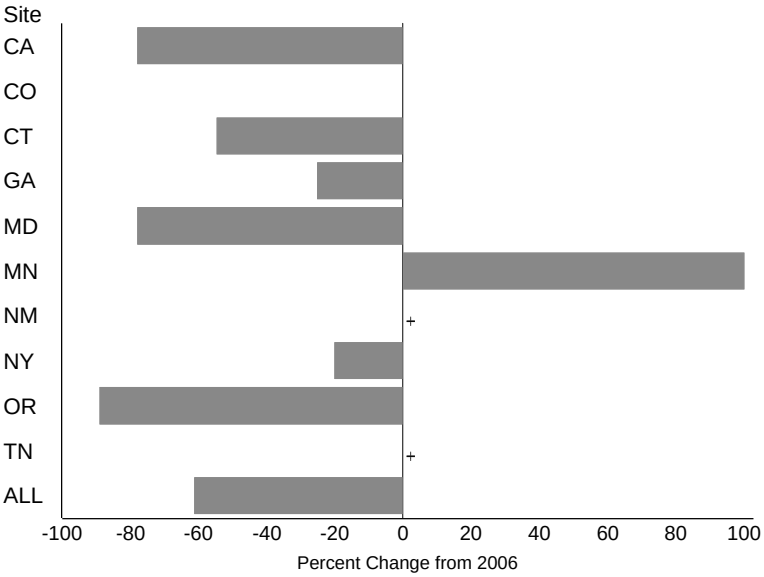
Report date: 26-September-2007

Vibrio parahaemolyticus

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

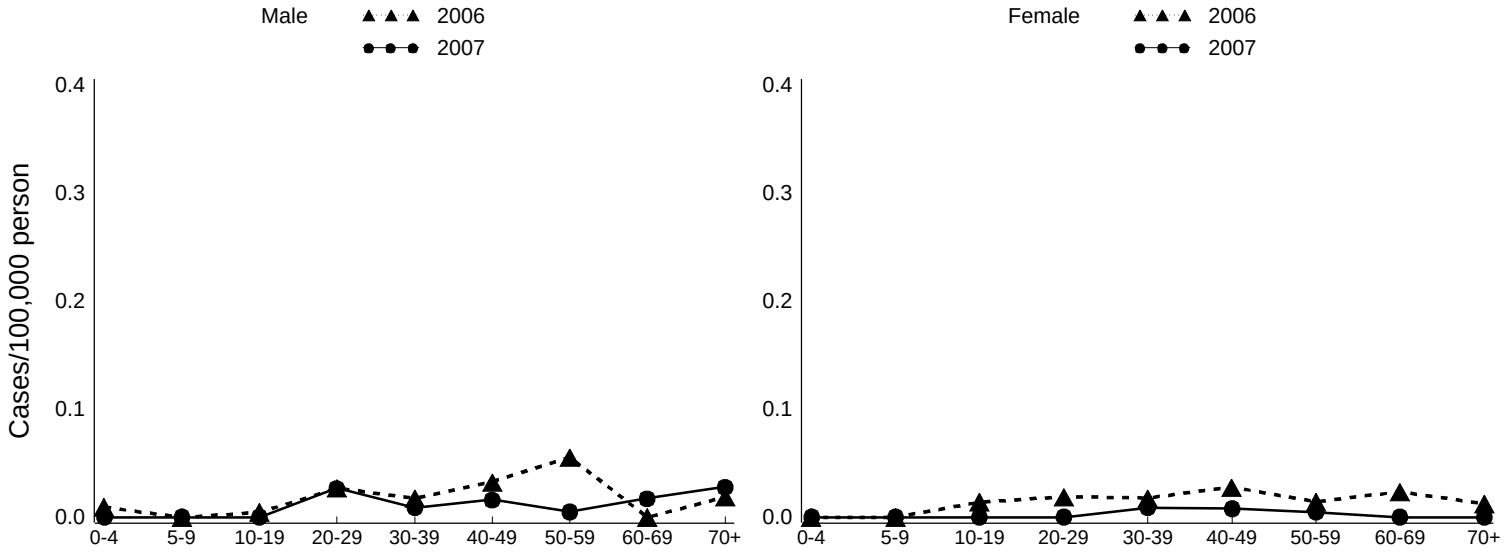


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	4	0.125	18	0.561	8	0.262
CO	2	0.077	2	0.077	2	0.078
CT	5	0.142	11	0.313	4	0.120
GA	3	0.033	4	0.044	3	0.036
MD	2	0.036	9	0.161	7	0.130
MN	2	0.039	1	0.019	1	0.016
NM	0	0.000	0	0.000	0	0.000
NY	4	0.093	5	0.116	2	0.048
OR	1	0.027	9	0.247	4	0.111
TN	0	0.000	0	0.000	1	0.020
ALL	23	0.051	59	0.131	33	0.076

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

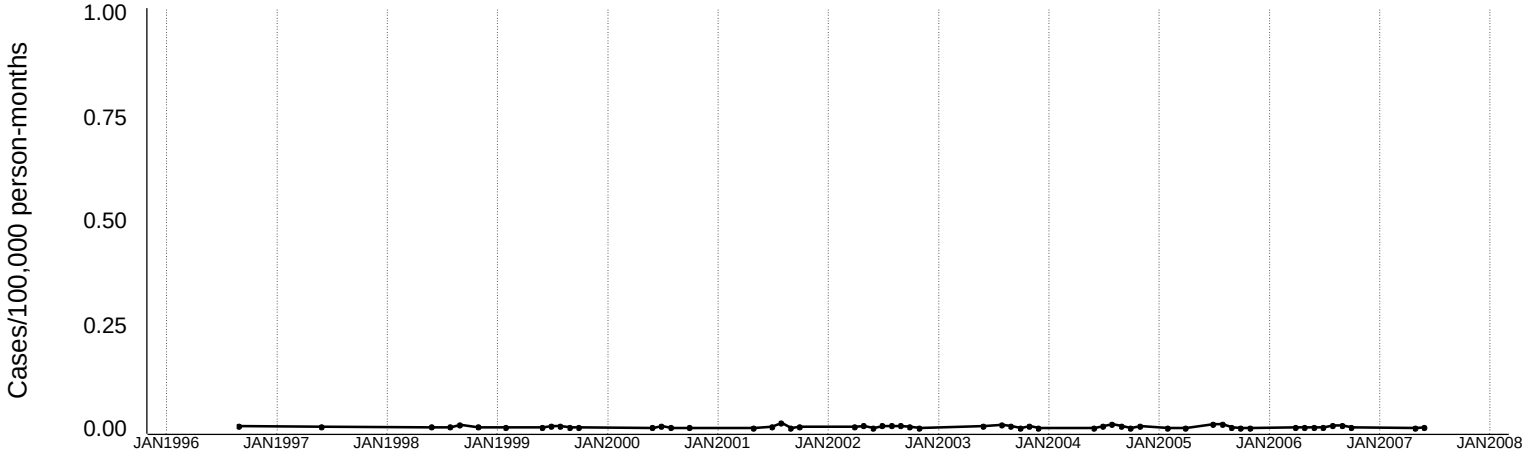


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

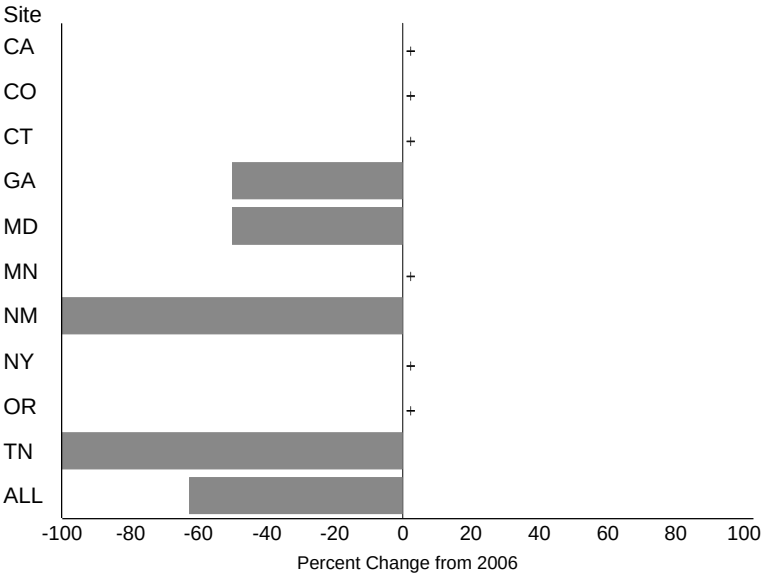
Report date: 26-September-2007

Vibrio vulnificus

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

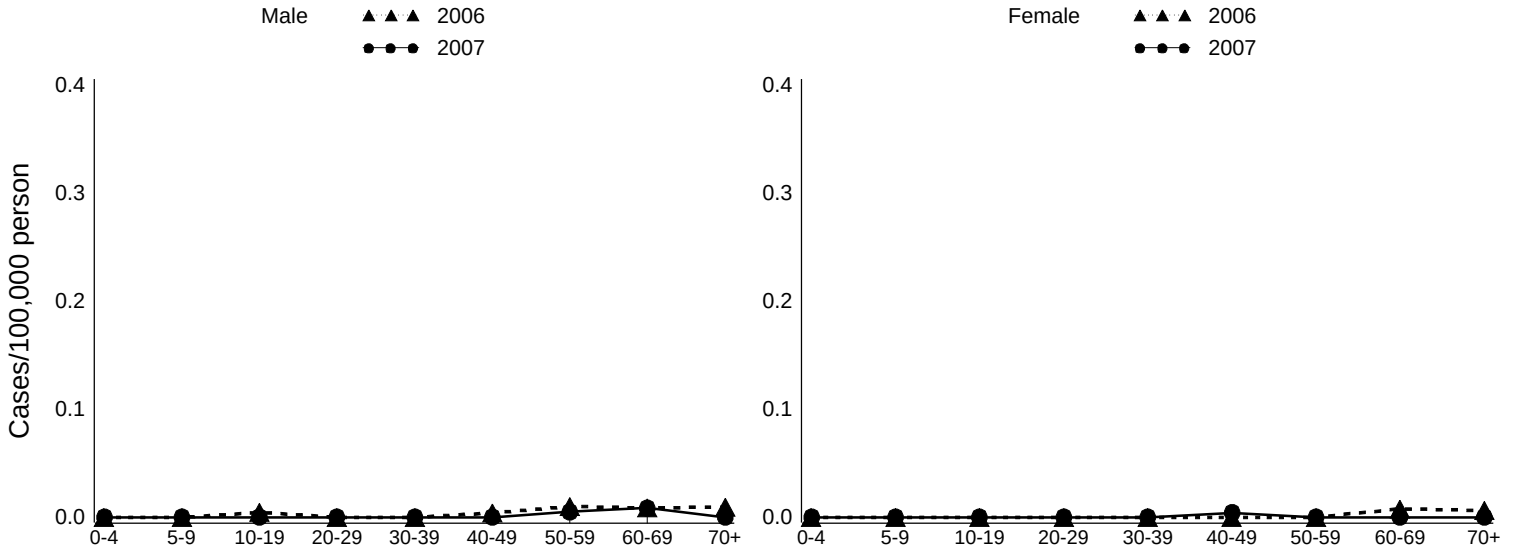


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	0	0.000	0	0.000
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	0	0.000	0	0.000
GA	1	0.011	2	0.022	2	0.018
MD	2	0.036	4	0.071	3	0.061
MN	0	0.000	0	0.000	0	0.004
NM	0	0.000	1	0.052	0	0.017
NY	0	0.000	0	0.000	0	0.000
OR	0	0.000	0	0.000	0	0.006
TN	0	0.000	1	0.017	1	0.014
ALL	3	0.007	8	0.018	6	0.015

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

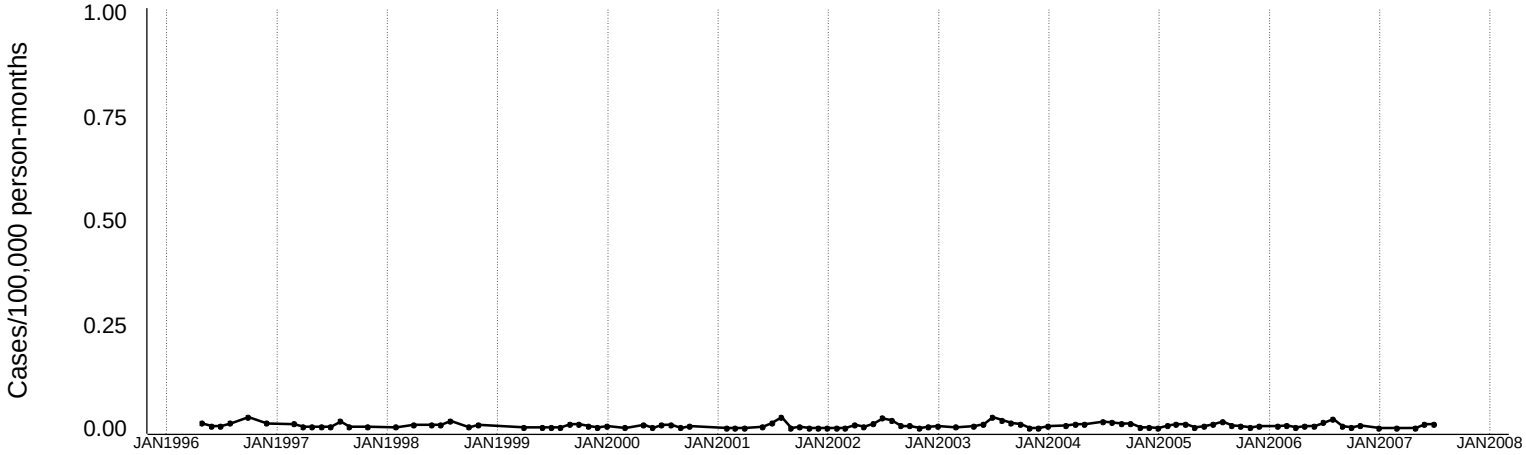


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

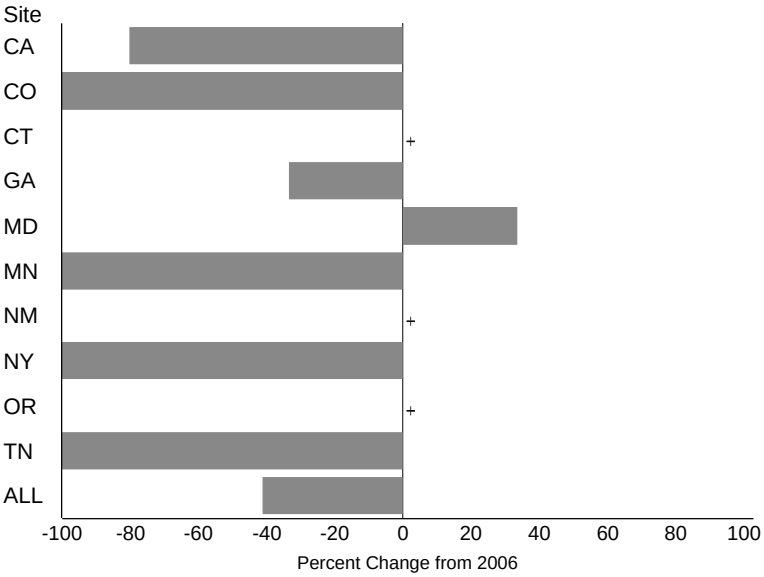
Report date: 26-September-2007

Vibrio, all others

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

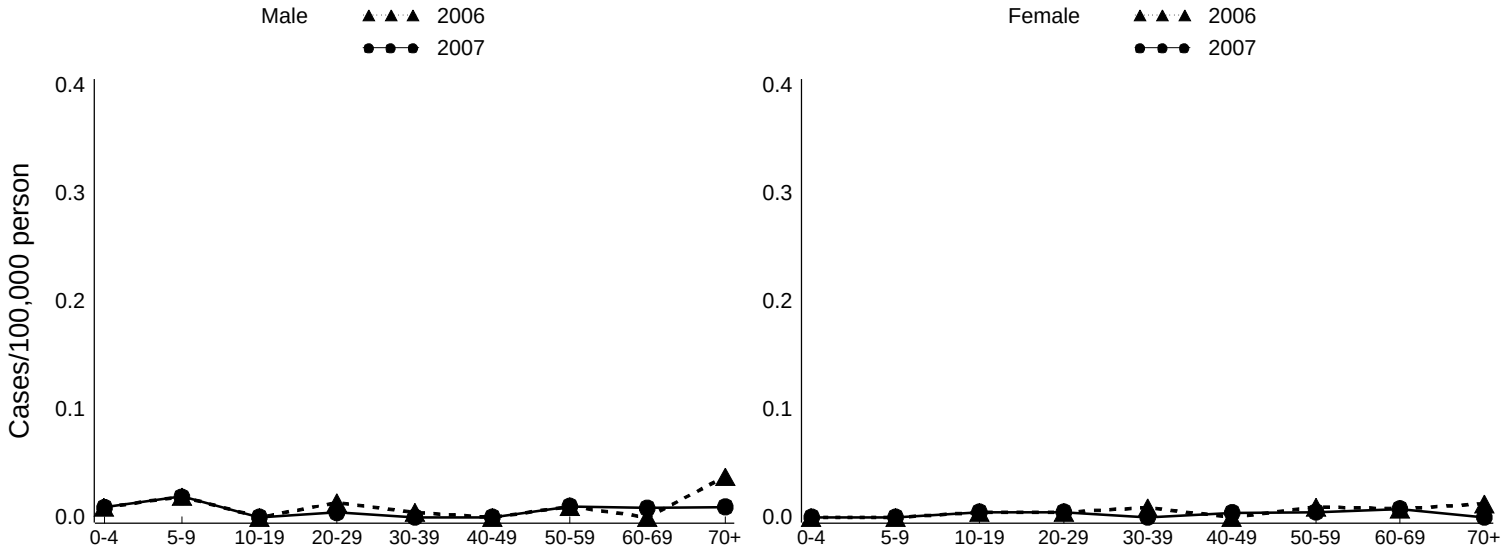


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	1	0.031	5	0.156	3	0.094
CO	0	0.000	1	0.039	1	0.024
CT	2	0.057	0	0.000	2	0.069
GA	6	0.066	9	0.099	8	0.088
MD	4	0.071	3	0.054	4	0.069
MN	0	0.000	1	0.019	2	0.035
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	1	0.023	1	0.031
OR	0	0.000	0	0.000	1	0.039
TN	0	0.000	2	0.034	2	0.044
ALL	13	0.029	22	0.049	24	0.057

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

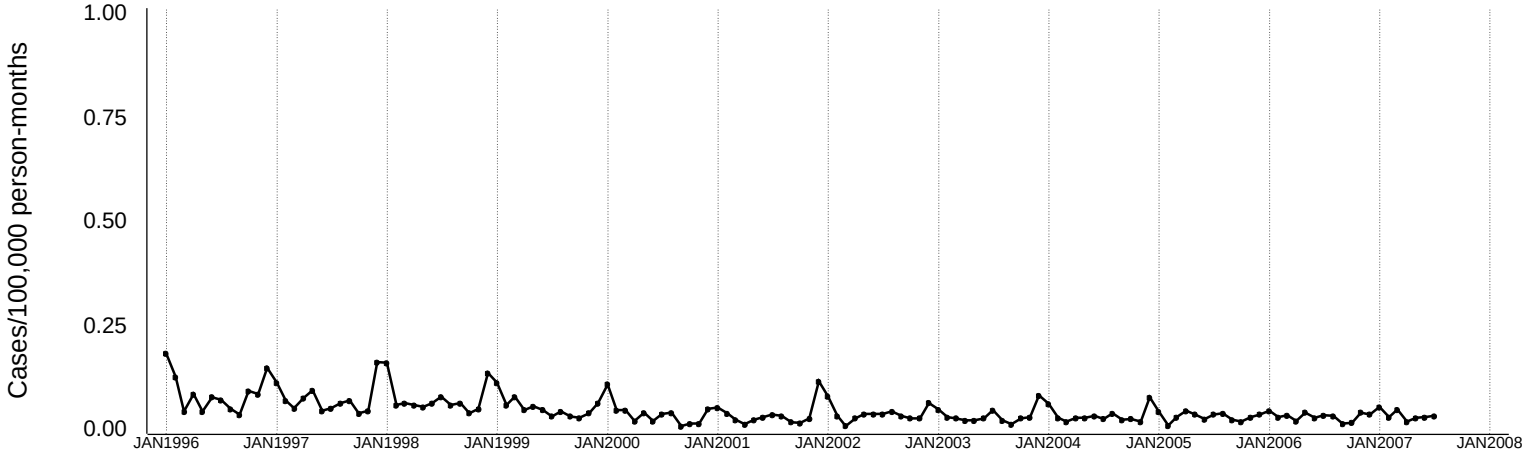


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

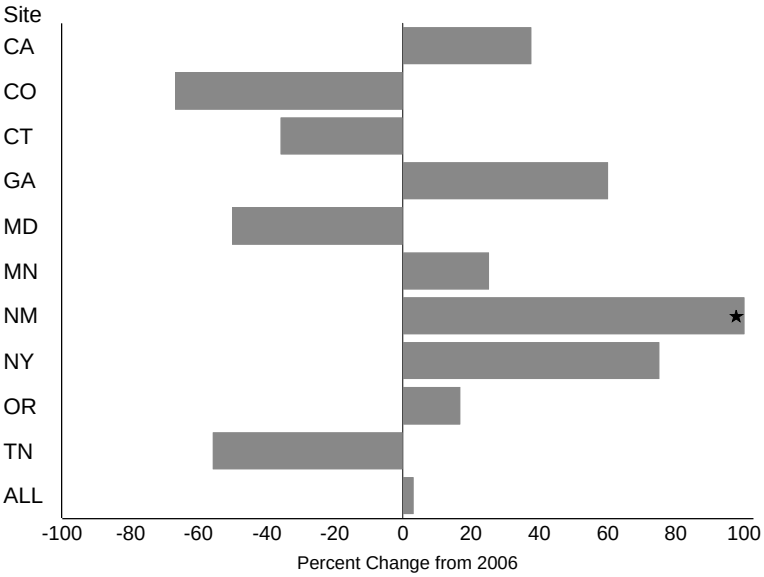
Report date: 26-September-2007

Yersinia

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

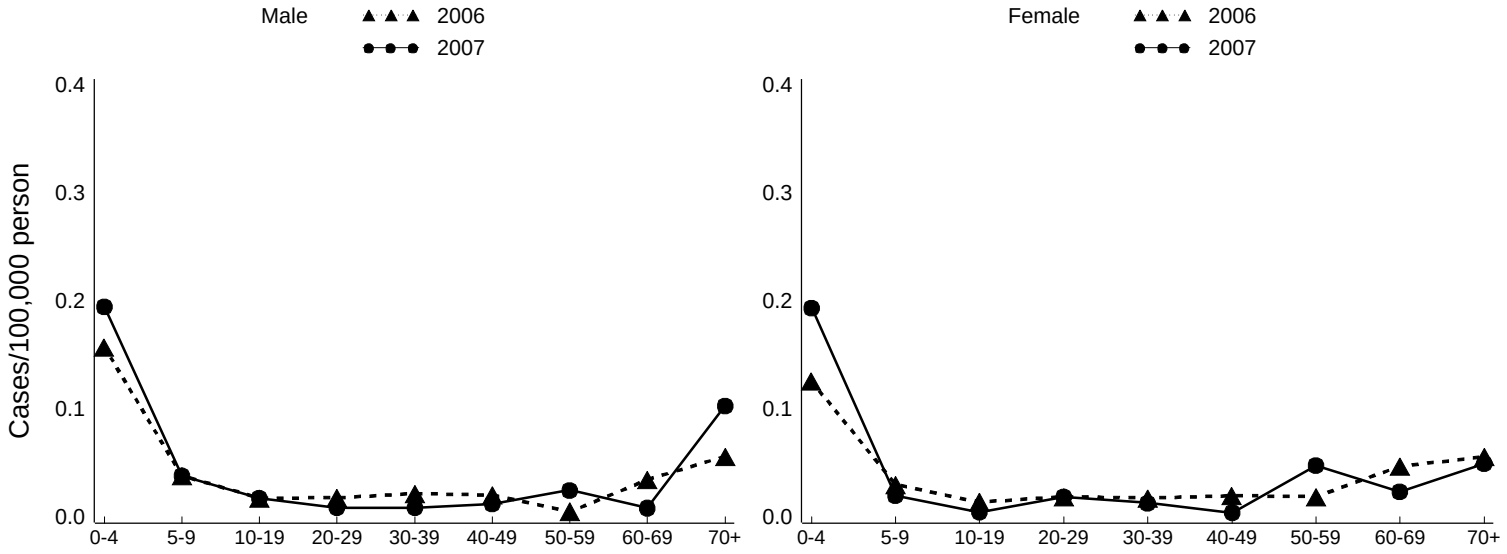


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	11	0.343	8	0.250	12	0.368
CO	1	0.039	3	0.116	3	0.133
CT	9	0.256	14	0.399	10	0.281
GA	32	0.353	20	0.220	22	0.253
MD	5	0.089	10	0.179	6	0.116
MN	15	0.292	12	0.234	11	0.224
NM	3	0.156	1	0.052	1	0.069
NY	7	0.162	4	0.093	9	0.216
OR	14	0.385	12	0.330	9	0.239
TN	8	0.134	18	0.302	14	0.269
ALL	105	0.234	102	0.227	98	0.227

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

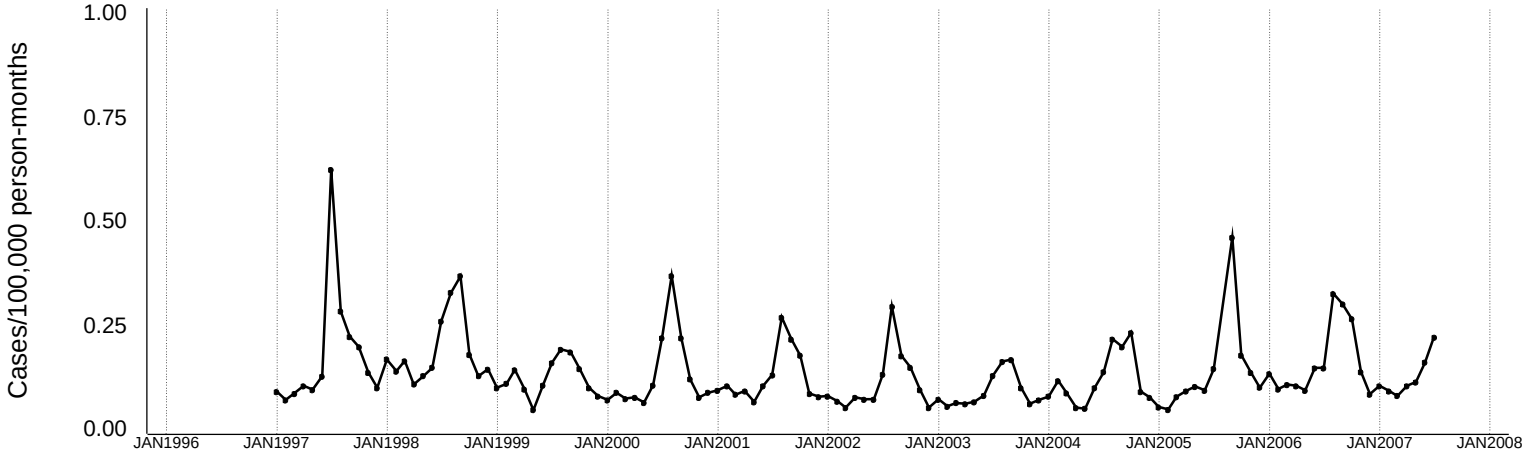


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

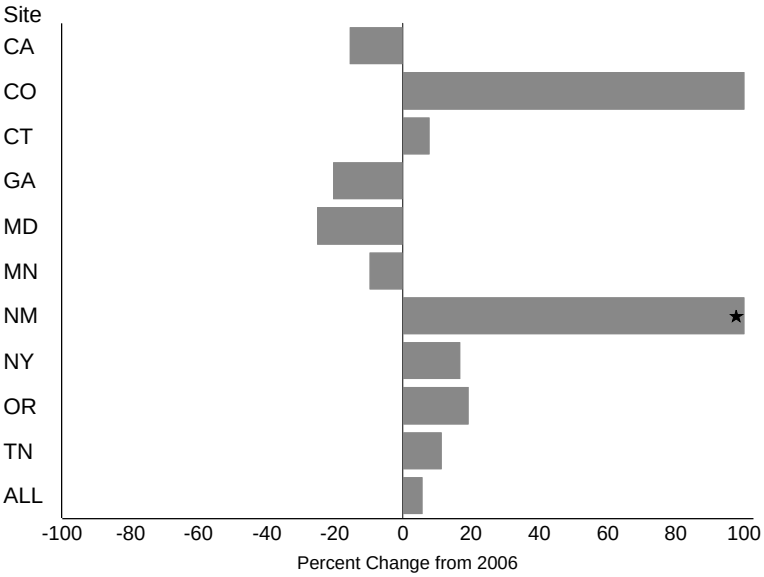
Report date: 26-September-2007

Cryptosporidium

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

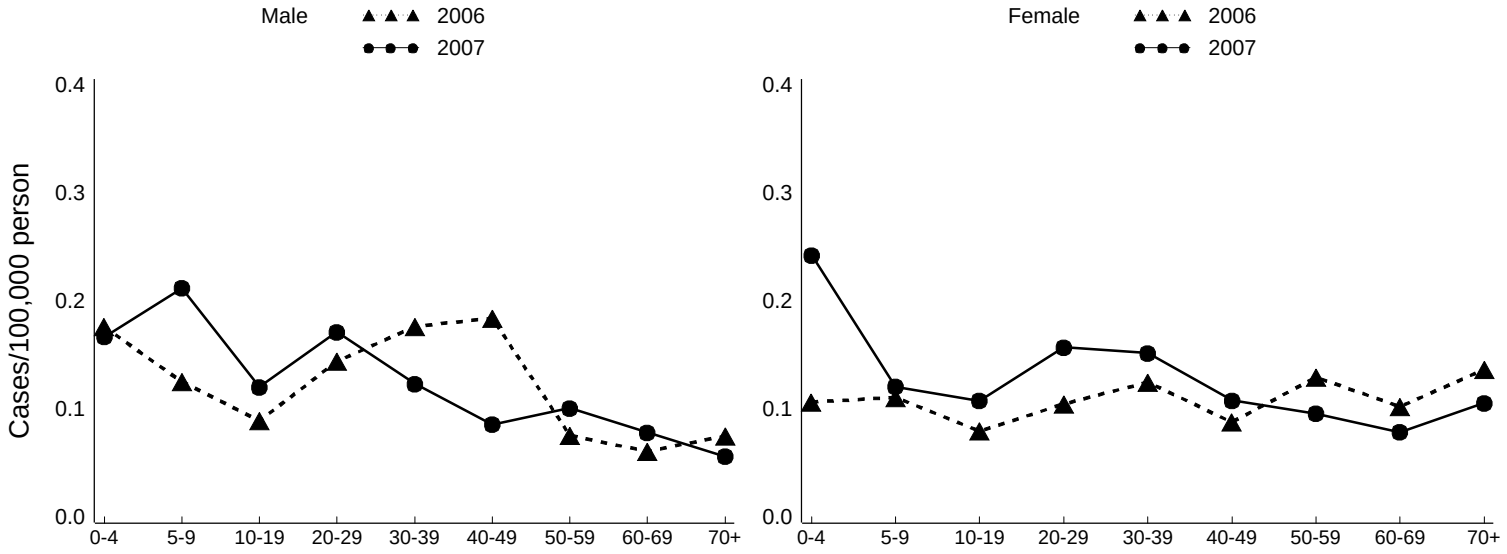


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	22	0.686	26	0.811	25	0.667
CO	20	0.773	10	0.387	11	0.416
CT	14	0.399	13	0.370	11	0.303
GA	86	0.948	108	1.190	74	0.829
MD	9	0.161	12	0.214	11	0.191
MN	94	1.831	104	2.026	73	1.440
NM	50	2.593	15	0.778	10	0.520
NY	28	0.650	24	0.557	19	0.467
OR	50	1.373	42	1.154	27	0.750
TN	20	0.335	18	0.302	19	0.350
ALL	393	0.874	372	0.828	279	0.627

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex

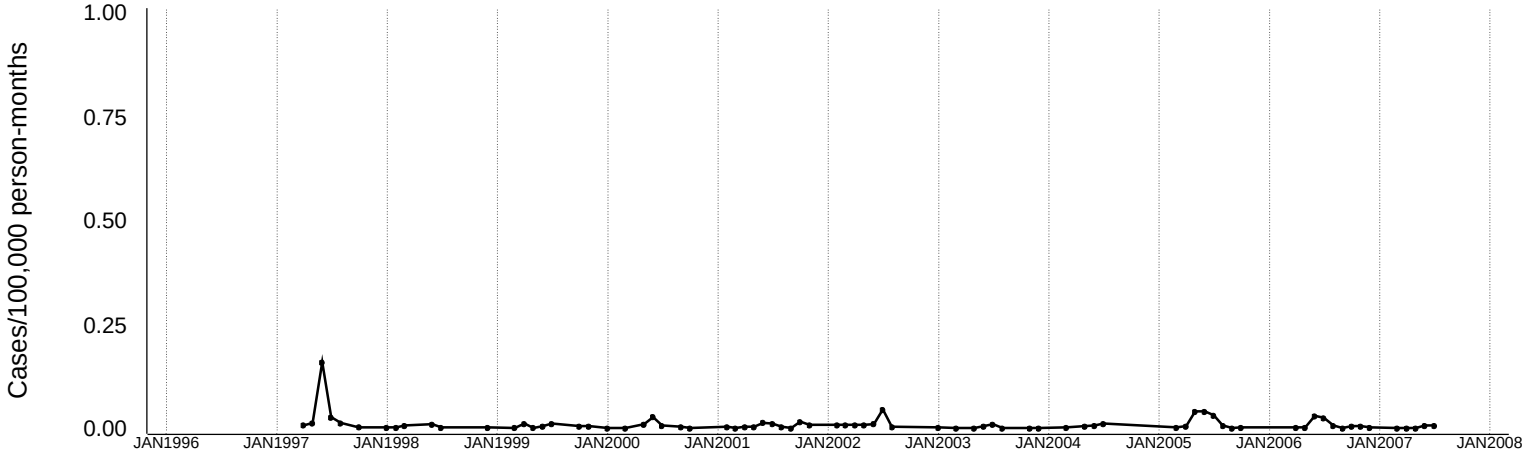


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

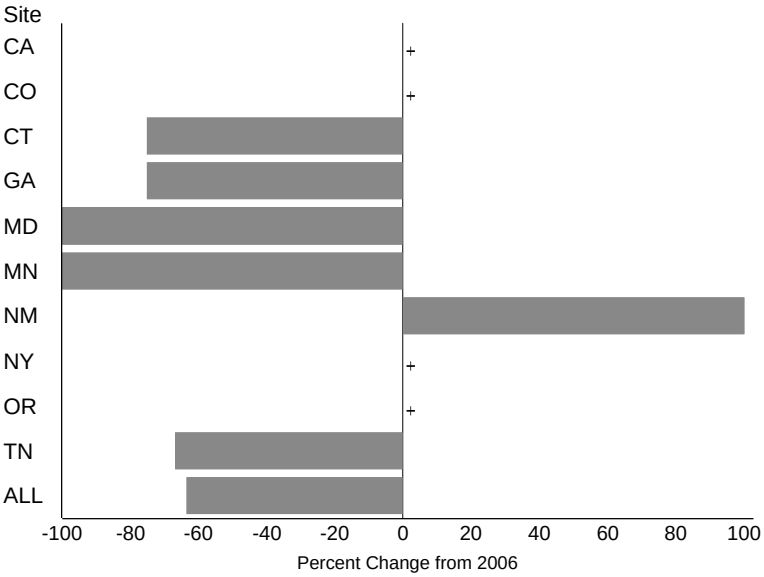
Report date: 26-September-2007

Cyclospora

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-July 2007



Calendar year through July: Percent change in rates between 2006 and 2007 by site

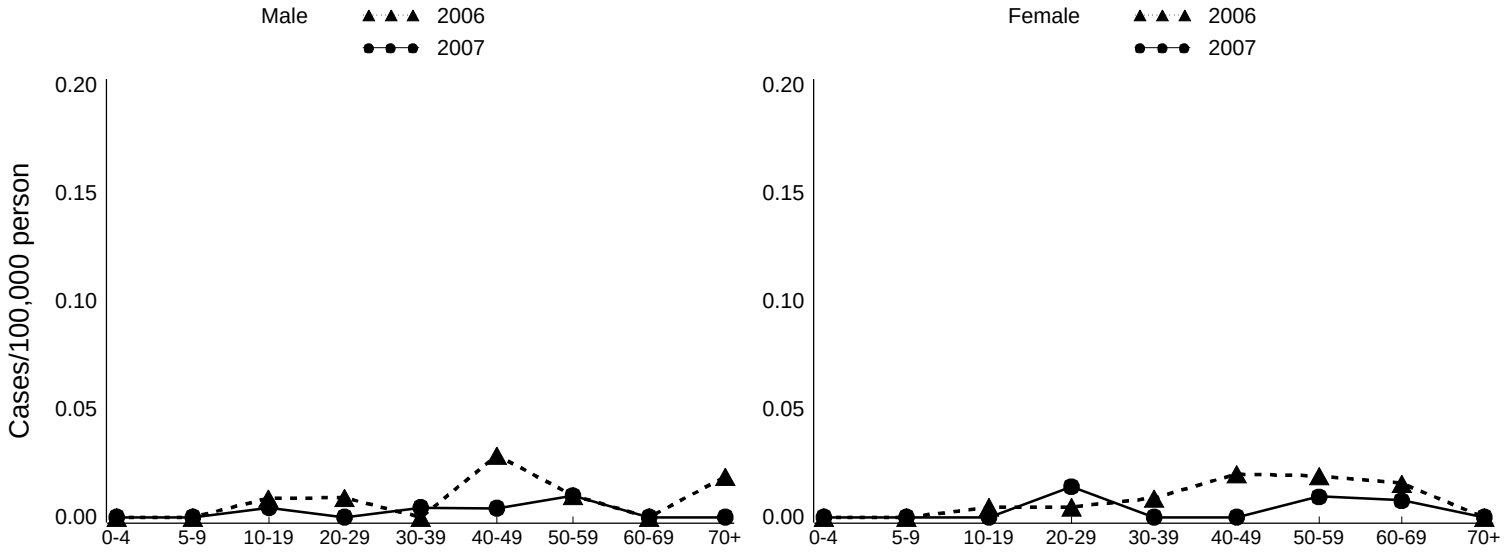


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	1	0.031	0	0.000	1	0.017
CO	0	0.000	0	0.000	1	0.024
CT	2	0.057	8	0.228	12	0.337
GA	3	0.033	12	0.132	10	0.118
MD	0	0.000	2	0.036	2	0.029
MN	0	0.000	4	0.078	1	0.016
NM	2	0.104	1	0.052	2	0.086
NY	2	0.046	0	0.000	2	0.052
OR	0	0.000	0	0.000	1	0.022
TN	1	0.017	3	0.050	1	0.027
ALL	11	0.024	30	0.067	32	0.071

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through July: Rates for 2006 and 2007 by age group and sex



Data source: Preliminary FoodNet data, subject to change, not for public distribution.

Report date: 26-September-2007

Table 1. Summary of Foodborne Outbreaks with ≥ 2 ill, by FoodNet Site, 2007
(Data accessed August 30th , 2007 (eFORS 2) PRELIMINARY DATA)

State	Outbreaks reported	2005 population	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Etiology (confirmed and suspected)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
CA	5	3,206,118	1.56	17	3 (60)	Bacillus Cerus/ Clostridium perfringens(1) *Campylobacter*(1), Norovirus(1)	2 (40)	4(67)
CO	11	2,586,568	4.25	9	10 (91)	Norovirus(8), *Salmonella*(1), STEC O157 (1)	6 (55)	8 (73)
CT	10	3,510,297	2.85	14	7 (70)	Norovirus (6) STEC O157 (1)	9 (90)	7 (70)
GA	15	9,072,576	1.65	19	13 (87)	Norovirus(5), *Campylobacter*(1) Clostridium perfringens(3) *Salmonella*(4)	7(45)	6 (40)
MD	16	5,600,388	2.86	20	8 (50)	Norovirus(5), *Campylobacter*(1) Clostridium perfringens(1) *Salmonella*(1)	11(69)	7 (44)
MN	28	5,132,799	5.46	10	21 (75)	Hep A(2), Norovirus(7), Clostridium perfringens(3), *Salmonella*(5), STEC O157 (2) Scromboid toxin(1) *Vibrio*(1)	10 (36)	18 (64)
NM	1	1,928,384	0.52	48	1 (100)	*Campylobacter*(1)	1 (100)	-(-)
NY	6	4,307,911	1.39	18	2(33)	Norovirus(1), STEC O157 (1)	6(100)	0 (-)
OR	16	3,641,056	4.39	17	11 (69)	Clostridium perfringens (1), Norovirus (9) STEC O157 (1)	5 (31)	6 (38)
TN	14	5,962,959	2.35	11	13 (93)	Norovirus (8) *Salmonella*(2), Bacillus Cerus(1) Staph aureus(2)	5 (36)	13 (93)
Total	**122**	**44,949,056**	**2.71**	**18**	**89 (73)**		**62 (51)**	**53 (57)**

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

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Table 2. Summary of Foodborne Outbreaks with ≥10 ill, by FoodNet Site, 2007

*** Data accessed October 4, 2007 (eFORS 2)**
*** Preliminary data**

State	Outbreaks reported	2005 population	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
CA	2	3,206,118	0.62	34	2 (100)	1 (50)	1 (50)
CO	5	2,586,568	1.93	18	5 (100)	3 (60)	3 (60)
CT	5	3,510,297	1.42	23	3 (60)	5 (100)	3 (60)
GA	6	9,072,576	0.66	39	5 (83)	3 (50)	1 (17)
MD	7	5,600,388	1.25	41	5 (71)	5 (71)	4(57)
MN	11	5,132,799	2.14	22	6 (55)	6 (55)	4 (36)
NM	1	1,928,384	0.52	48	1 (100)	1 (100)	-(-)
NY	4	4,307,911	0.93	25	1 (25)	4 (100)	- (-)
OR	10	3,641,056	2.75	34	10 (100)	3 (30)	3 (30)
TN	6	5,962,959	1.01	20	6 (100)	1 (17)	5 (83)
2007 Total	**57**	**44,949,056**	**1.27**	**30**	**44 (77)**	**32 (56)**	**24 (42)**

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

Site	In catchment (N=53)												In catchment (N=53)											
	<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo		<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo	
	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
CA	2	0 (0)	2	0 (0)	0	--	0	--	0	--	0	--	2	4.7	2	1.2	0	0.0	0	0.0	0	0.0	0	0.0
CO	0	--	1	0 (0)	0	--	0	--	0	--	0	--	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
CT	0	--	1	0 (0)	2	0 (0)	2	0 (0)	0	--	2	0 (0)	0	0.0	1	0.6	2	0.9	2	0.8	0	0.0	2	0.3
GA	0	--	6	0 (0)	0	--	1	0 (0)	0	--	0	--	0	0.0	6	1.1	0	0.0	1	0.2	0	0.0	0	0.0
MD	0	--	0	--	0	--	0	--	0	--	0	--	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MN	0	--	4	--	2	0 (0)	1	0 (0)	0	--	1	0 (0)	0	0.0	4	1.5	2	0.6	1	0.3	0	0.0	1	0.1
NM	0	--	0	--	0	--	0	--	0	--	0	--	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NY	2	0 (0)	2	0 (0)	0	--	0	--	1	0 (0)	3	0 (0)	2	4.3	2	1.1	0	0.0	0	0.0	1	0.0	3	0.4
OR	0	--	5	0 (0)	2	0 (0)	0	--	1	0 (0)	0	--	0	0.0	5	2.8	2	0.9	0	0.0	1	0.0	0	0.0
TN	0	--	8	0 (0)	1	0 (0)	1	0 (0)	0	--	0	--	0	0.0	8	2.6	1	0.3	1	0.3	0	0.0	0	0.0
Total	**4**	**0 (0)**	**29**	**0 (0)**	**7**	**0 (0)**	**5**	**0 (0)**	**2**	**0 (0)**	**6**	**0 (0)**	**4**	0.66	**29**	1.20	**7**	0.24	**5**	0.16	**2**	0.01	**6**	0.08

*per 100,000 persons

For cases with Diarrhea in 3 wks before HUS dx																								
	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Cases with O157 + Only/ Cases O157 positive	0/2	(0)	0/0	--	2/2	(100)	0/4	(0)	0/0	--	0/4	(0)	0/0	--	3/4	(75)	2/2	(100)	2/4	(50)	**9/22**	**(41)**
Cases with non-O157 + Only/ Cases non-O157 +	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	**0/0**	--
Cases positive for shiga-toxin only/ Cases shiga-toxin positive	0/2	(0)	0/0	--	3/3	--	0/4	(0)	0/0	--	0/4	(0)	0/0	--	1/2	(50)	0/0	--	0/2	(0)	**4/17**	**(24)**
Cases not positive for O157, Stx or non-O157*/ Total Stool Specimens	2/4	(50)	0/0	--	0/5	(0)	3/7	(43)	0/0	--	4/8	(50)	0/0	--	2/7	(29)	0/2	(0)	3/7	(43)	**14/40**	**(35)**
Cases positive for Stx and O157 or Stx and non-O157/ Total Stool Specimens	2/4	(50)	0/0	--	0/5	(0)	4/7	(57)	0/0	--	4/8	(50)	0/0	--	1/7	(14)	0/2	(0)	2/7	(29)	**13/40**	**(33)**

*not positive or not tested

Results of microbiologic testing for STEC infection among HUS cases, 2007

as of 9/25/07

	Site										
	CA	CO	CT	GA	MD	MN	NM	NY	OR	TN	**TOTAL**
	# %	# %	# %	# %	# %	# %	# %	# %	# %	# %	**# %**
Diarrhea in 3 weeks before HUS diag./ Total patients	4/4 (100)	1/1 (100)	6/7 (86)	7/7 (100)	0/0 --	8/8 (100)	0/0 --	7/8 (88)	8/8 (100)	9/10 (90)	**50/53** (94)
Stool specimen obtained/ Patients with diarrhea	4/4 (100)	0/1 (0)	5/6 (83)	7/7 (100)	0/0 --	8/8 (100)	0/0 --	7/7 (100)	2/8 (25)	7/9 (78)	**40/50** (80)
E. coli O157 Isolation											
Stool cultured for E. coli O157/ Patients with stool specimens obtained	4/4 (100)	0/0 --	4/5 (80)	6/7 (86)	0/0 --	6/8 (75)	0/0 --	7/7 (100)	2/2 (100)	6/7 (86)	**35/40** (88)
E. coli O157 isolated from stool/ Patients with stool cultured for O157	2/4 (50)	0/0 --	2/4 (50)	4/6 (67)	0/0 --	4/6 (67)	0/0 --	4/7 (57)	2/2 (100)	4/6 (67)	**22/35** (63)
Shiga toxin + Questions											
Stool tested for Shiga toxin/ Patients with stool specimen obtained	3/4 (75)	0/0 --	3/5 (60)	4/7 (57)	0/0 --	6/8 (75)	0/0 --	4/7 (57)	0/2 (0)	4/7 (57)	**24/40** (60)
Stool Shiga toxin-positive/ Patients with stool tested for Shiga toxin	2/3 (67)	0/0 --	3/3 (100)	4/4 (100)	0/0 --	4/6 (67)	0/0 --	2/4 (50)	0/0 --	2/4 (50)	**17/24** (71)
Non-O157 Isolation											
Stool tested for non-O157 STEC/ Patients with stool tested for Shiga toxin	0/3 (0)	0/0 --	2/3 (0)	4/4 (100)	0/0 --	1/6 (17)	0/0 --	2/4 (50)	0/0 --	0/4 (0)	**9/24** (38)
Non-O157* STEC isolated from stool/ Stool tested for non-O157 STEC	0/0 --	0/0 --	0/2 (0)	0/4 (0)	0/0 --	0/1 (0)	0/0 --	0/2 (0)	0/0 --	0/0 --	**0/9** (0)
Serum											
Serum Tested/ Serum Collected	2/2 (100)	0/0 --	0/0 --	0/2 (0)	0/0 --	2/3 (67)	0/0 --	0/0 --	0/1 (0)	0/2 (0)	**4/10** (40)
O157/Tested	0/2 (0)	0/0 --	0/0 --	0/0 --	0/0 --	2/2 (100)	0/0 --	0/0 --	0/0 --	0/0 --	**2/4** (50)
Total Stool											
O157, non-O157 STEC, Shiga toxin +/ Total stool specimens obtained	2/4 (50)	0/0 --	5/5 (100)	4/7 (57)	0/0 --	4/8 (50)	0/0 --	5/7 (71)	2/2 (100)	4/7 (57)	**26/40** (65)

Non-O157 identified:

*Culture: