FoodNet Active Manuscripts

Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
9							
	461	Jones, Timothy F.	Scallan, Elaine, Angulo, Fredrick J.	FoodNet: Overview of a Decade of Achievement	Foodborne Pathogens and Disease	12/13/2006	
	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	4/23/2007	Journal of Food Safety
	465	Scallan, Elaine		Activities, Achievements, and Lessons Learned During the First 10 Years of FoodNet	CID	2/9/2007	Published - March publication
	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	1/31/2007	Published Jan. 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	1/31/2007	Published Jan. 2007
8							
	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		1/22/2007	Accepted to Journal of Food Protection
7							

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
	394	Nelson, Jennifer M.	Nadle, Joelle, Daniels, Allison, Clogher, Paula, Gillespie, Jennifer, Furuno, Jon P., Plantenga, Melissa, Bernarczyk, Robert, Ingram, Amanda	Foods Associated with Listeria monocytogenes Infections Are Common at Long-Term Care Facilities in Eight States, FoodNet 2005		7/11/2006	Submitted to Journal of Food Protection
	325	Shiferaw, Beletshachew		Comparison of Three Surveillance Systems for Hemolytic Uremic Syndrome in Oregon		6/6/2006	Submitted to AJPH.
6							
	124	Dunne, Eileen F.	Griffin, Patricia M., Snider, Cynthia J., 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	Pediatric Hemolytic Uremic Syndrome in the United States, 1997-2002: A Study of 379 Cases			
5							
	22	Crump, John A.	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		9/11/2006	
	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		11/7/2006	
	26	Majowicz, Shannon E.	Scallan, Elaine, Hall, Gillian, Banerjee, Anyana, Kirk, Martyn D., Angulo, Fredrick J.	Respiratory Symptoms Among Persons with Gastrointestinal Illness		11/7/2006	
	459	Voetsch, Andrew C.		Case-Only Manuscript (dissertation)		5/23/2006	
4							

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Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
	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			
	341	Snider, Cynthia J.	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, 2001-2004		4/24/2007	
3							
	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., Barrett, Timothy J.	Is the Incidence of Campylobacter coli Infection Increasing? Speciation by Clinical Diagnostic and Public Health Laboratories in Food Net, 1997-2004		5/2/2007	
	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			
	343	Sharp, Lydia	Tobin-D'Angelo, Melissa, Shuler, Carrie, Voetsch, Andrew C.	Sporadic Salmonella serotype Javiana in Georgia: An Emerging Zoonotic Disease?		4/23/2007	
	360	Voetsch, Andrew C.	Henao, Olga L., Cronquist, Alicia B., Hurd, Sharon, Thomas, Stephanie M., Scheftel, Joni M., McMillian, Marcy, Megginson, Melanie, Hatch, Julie, Angulo, Fredrick J., EIP FoodNet Working Group	Surveillance Trends for Vibrio Infections in FoodNet sites, 1996-2004		11/9/2005	
2							
	103	Ailes, Elizabeth	Nelson, Jennifer M.	Foodborne Diseases Active Surveillance Network Surveillance Summary, 1996-2003			

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Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
	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			
	386	Hurd, Sharon	Demma, Linda, Shin, Sam, Cronquist, Alicia B., Segler, Suzanne D., Kielbauch, Julie, Swanson Laine, Ellen, Smith, Glenda, Hatch, Julie, Hanna, Samir S., Fitzgerald, Collette, EIP FoodNet Working Group	Clinical Laboratory Practices for the Identification of Campylobacter in FoodNet Sites: Do Differences Explain Variation in Incidence Rates?		5/2/2007	
	331	Long, Cherie	Hayes, Tameka, Vugia, Duc J., Ryan, Patricia A., Scheftel, Joni, Shiferaw, Beletshachew, Jones, Timothy F., Demma, Linda, Voetsch, Andrew C., EIP FoodNet Working Group	Yersenia pseudotuberculosis infections in FoodNet, 1996-2005			
	432	Maldonado, George		Blending Project		1/3/2006	
	462	Steinmuller, Nicole	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			
1							
	102	Dunn, John R.		Substantial Decline in the Incidence of Escherichia coli O157:H7 Infections in FoodNet, 2003		6/8/2006	
	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			
	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			

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non-Typhi *Salmonella* Clinical Outcomes Cohort Study Status

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 GOA	1/20	3/7/2006	1010	51	26 (51%)	0 (0%)	0 (0%)	25 (49%)
GA MSA	1/20	3/15/2006	535	25	18 (72%)	0 (0%)	2 (8%)	5 (20%)
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	78	10	2 (20%)	3 (30%)	2 (20%)	3 (30%)
CO	1/10	1/1/2006	79	6	4 (67%)	2 (33%)	0 (0%)	0 (0%)
CT	1/20	1/1/2006	74	5	4 (80%)	0 (0%)	0 (0%)	1 (20%)
GA GOA	1/20	3/7/2006	170	11	5 (45%)	3 (27%)	1 (9%)	2 (18%)
GA MSA	1/20	3/15/2006	108	7	4 (57%)	1 (14%)	1 (14%)	1 (14%)
MD	1/10	5/1/2006	87	11	5 (45%)	5 (45%)	1 (9%)	0 (0%)
MN	1/20	1/1/2006	145	8	2 (25%)	2 (25%)	1 (13%)	3 (38%)
NM	1/5	1/1/2006	49	10	6 (60%)	3 (30%)	0 (0%)	1 (10%)
NY	1/5	1/1/2006	115	16	7 (44%)	6 (38%)	1 (6%)	2 (13%)
OR	1/10	1/1/2006	72	8	3 (38%)	0 (0%)	3 (38%)	2 (25%)
TN	1/10	1/1/2006	83	14	7 (50%)	6 (43%)	0 (0%)	1 (7%)
		Total	1060	106	49 (46%)	31 (29%)	10 (9%)	16 (15%)

Updated 5/26/07

FoodNet News

Objective:
To disseminate FoodNet research findings to the public health community

Sections:
1. Feature
2. Spotlight
3. Article summaries
4. Working group updates
5. Site/partner updates
6. List upcoming conferences
7. List presented abstracts

Audience:
Public health partners, healthcare community

Frequency:
Quarterly (Jan, April, July, Oct)

Dissemination mode:
Electronic via website posting, email lists, partners

Outline for upcoming issue: July 2007
Page 1
1. Feature: Trends (based on recent MMWR)
2. Spotlight: Vision Meeting

Page 2
1. Article summaries:

Page 3
1. Working group updates:
2. Site/partner update:

Page 4
1. Upcoming conferences
2. Recently presented abstracts

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Enrollment Status for Selected *Salmonella* Serotypes Study, as of April 25, 2007

	S. Javiana	*S.* Infantis	*S.* I 4,[5],12:i:-	Total	Interviewed	Pending	Refused	Other Not Enrolled
	# Eligible				# (% of Eligible)			
CA	0	1	4	5	3 (60)	0	0	2 (40)
CO	3	0	0	3	1 (33)	0	0	2 (67)
CT	1	0	3	4	2 (50)	1 (25)	0	1 (25)
GA MSA	3	4	6	13	4 (31)	1 (8)	3 (23)	5 (38)
GA GOA	8	0	4	12	9 (75)	2 (17)	0	1(8)
MD	1	0	3	4	2 (50)	1 (25)	0	1 (25)
MN	0	4	6	10	4 (40)	4 (40)	0	2 (20)
NM	1	0	3	4	1 (25)	1 (25)	0	2 (50)
NY	0	1	4	5	1 (20)	0	0	4 (80)
OR	1	0	5	6	2 (33)	0	3 (50)	1 (17)
TN	1	0	13	14	9 (64)	2 (14)	3 (21)	0
Total (Cases)	19	10	51	80	38 (48)	12 (15)	9 (11)	21 (26)
Controls	-	-	-	-	319	-	-	-

Enrollment Status for Validation Sub-Studies for Selected *Salmonella* Serotypes Study, as of April 25, 2007

	Selection Bias Sub-Study		Misclassification Bias Sub-Study	
	Eligible	Completed Questionnaires Received (% of eligible)	Eligible	Completed Questionnaires Received (% of eligible)
CA	1	0	0	0
CO	1	0	0	0
CT	0	0	0	0
GA MSA	3	2	0	0
GA GOA	1	0	0	0
MD	0	0	0	0
MN	0	0	0	0
NM	1	0	0	0
NY	0	0	0	0
OR	1	0	0	0
TN	3	0	1	0
Total (Cases)	11	2 (18)	1	0
Controls	191	20 (10)	12	3 (25)

E. *coli* O157 Cohort Study Enrollment 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	45	46	34 (74%)	0 (0%)	5 (11%)	7 (15%)
CO	2/1/2006	37	37	24 (65%)	2 (5%)	7 (19%)	4 (11%)
CT	6/1/2006	41	42	30 (71%)	0 (0%)	9 (21%)	3 (7%)
GA GOA	1/22/2007	21	3	2 (67%)	1 (33%)	0 (0%)	0 (0%)
GA MSA	1/22/2007	25	3	0 (0%)	0 (0%)	1 (33%)	2 (67%)
MD	5/1/2006	37	39	23 (59%)	1 (3%)	7 (18%)	8 (21%)
MN	3/1/2006	150	151	92 (61%)	8 (5%)	15 (10%)	36 (24%)
NM	6/1/2006	20	19	10 (53%)	0 (0%)	3 (16%)	6 (32%)
NY	3/1/2006	57	59	26 (44%)	1 (2%)	20 (34%)	12 (20%)
OR	3/1/2006	82	83	67 (81%)	2 (2%)	5 (6%)	9 (11%)
TN	1/1/2006	89	91	59 (65%)	0 (0%)	4 (4%)	28 (31%)
	Total	604	573	367 (64%)	15 (3%)	76 (13%)	115 (20%)

Updated 5/01/07

Public Health Laboratory

E. coli O157 and non-O157 Shiga Toxin-producing *E. coli* (STEC) Testing

Your Contact Information:

Name (required)

Facility (required)

Submitter #/Laboratory ID (optional)

Phone Number (###-###-####)

E-mail address

Your Position:

- Laboratory supervisor
- Microbiology supervisor
- Other: specify

Date form completed:

(dd/mm/yyyy)

1) Does your laboratory test stool specimens on-site using a **culture-based-method** for *E. coli* O157?

- Yes
- No

1a) Does your laboratory refer *E. coli* or STEC **culture-based** testing to a reference or other off-site laboratory? [this should not include sending positive results to your state laboratory for confirmation]

- Yes, (specify reference lab)
- No

2) Does your laboratory test any specimens on-site using a **non-culture-based** method

(including ELISA or other immunoassay or PCR for toxin or toxin genes)? [choose all that apply]

- ☐ *E. coli* O157
- ☐ Other Shiga toxin producing *E. coli* (STEC)
- ☐ Neither of the above

2a) Does your lab refer *E. coli* or STEC **non-culture-based** testing to a reference or other off-site lab? [this should not include sending positive results to your state laboratory for confirmation]

- ○ Yes, (specify reference lab) _____
- ○ No

2b) If your lab does not use a **non-culture-based** method for *E. coli* and/or STEC presently, do you have plans for adding it to your testing schedule in the future? [choose one]

- ○ Yes, in less than six months
- ○ Yes, in more than six months
- ○ We are considering adding the test, but have not made a final decision
- ○ No
- ○ Not applicable (already performing)

If you do not perform on-site testing using culture-based or non-culture-based methods for *E. coli* O157 or STEC scroll to the end of the survey and hit "submit".

3) Does your laboratory routinely set up **culture-based** and **non-culture-based** methods **simultaneously**?

- ○ Yes
- ○ No
- ○ Not applicable - only do one or none of the methods

Culture-based Testing

This section pertains to culture-based methods for *E. coli* O157 and/or STEC testing. If you do not do this testing on-site, please scroll down to next section "Non-culture-based Testing".

4) Does your laboratory use **culture-based** methods for *E. coli* O157 or STEC testing? [choose all that apply]

- ☐ All stool specimens routinely

- ☐ When a physician specifically requests testing for *E. coli* O157
- ☐ When a physician specifically requests testing for STEC
- ☐ When the stool specimen appears bloody
- ☐ When the patient has history of bloody stools
- ☐ When the patient is in a certain age group, (Specify: i.e. <5 years old, etc.) _____
- ☐ During certain seasons, (Specify: spring, summer, fall, winter): _____
- ☐ When the patient has hemolytic uremic syndrome (HUS)
- ☐ Other, specify: _____

5) When a specimen is positive by **culture-based** methods for *E. coli* O157 and/or STEC testing: Does your laboratory routinely send any sort of positive specimens or isolates, etc. to your public health laboratory?

- ○ Yes
- ○ No (Skip to question # 6)

5a) If **Yes**, what type of positive specimens/clinical materials are sent? [choose all that apply]

- ☐ Broth, specify: _____
- ☐ Plate, blood agar
- ☐ Plate, tryptic soy agar
- ☐ MacConkey agar (MAC)
- ☐ Sorbitol-MacConkey agar (SMAC)
- ☐ Slant, tryptic soy
- ☐ Slant, blood agar
- ☐ Stool
- ☐ Swab
- ☐ Other, specify: _____

5b) If **Yes**, what is the timeframe for sending specimens? [choose one]

- ○ In “real time”
- ○ Sent batched

5c) Primary method of shipment used for positive specimens: [choose one]

- ○ US Postal Service
- ○ Private carrier (FedEx, UPS, etc.)
- ○ Courier (hospital-based, etc.)
- ○ Other, specify: _____

5d) Are the positive specimens shipped as **Category A** agents [DOTand IATA regulations, effective October of 2006 state that any shiga toxin-producing *E. coli* in pure culture and or any cultured materials (e.g. broths from immunoassays) suspected to be positive for STEC are to be shipped as Category A agents]:

- ◯ Yes
- ◯ No
- ◯ Unknown

6) If **No** to "sending positive specimens or isolates to your public health laboratory", would your lab routinely report results to your public health department, if you were to isolate *E. coli* O157?

- ◯ Yes
- ◯ No

Non-culture-based Testing

This section pertains to non-culture-based testing methods for *E. coli* O157 and/or STEC testing. If you do not do this testing, please scroll down to the end of survey and "Submit".

7) What year did your lab start using **non-culture-based** methods for testing *E. coli* O157 and/or STEC testing?

Year _____

8) When does your laboratory use **non-culture-based** methods for on-site testing *E. coli* O157 and/or STEC? [choose all that apply]

- ☐ All stool specimens routinely
- ☐ When a physician specifically requests testing for *E. coli* O157
- ☐ When a physician specifically requests testing for STEC
- ☐ When the stool specimen appears bloody
- ☐ When the patient has history of bloody stools
- ☐ When the patient is in a certain age group, (Specify: i.e. <5 years old, etc.) _____
- ☐ During certain seasons (Specify: spring, summer, fall, winter): _____
- ☐ When the patient has hemolytic uremic syndrome (HUS)
- ☐ Other, specify: _____

9) When your laboratory uses **non-culture-based** methods to screen for *E. coli* O157 and/or STEC on-site, which tests are used? [choose all that apply]

- ☐ Premier EHEC (Meridian Biosciences)
- ☐ ProSpecT Shiga toxin microplate assay (Remel)
- ☐ VTEC-RPLA "Seiken" (Denka Seiken)
- ☐ Duopath Verotoxins GLISA test (Merck)
- ☐ Immunocard STAT! E. coli O157 Plus (Meridian Biosciences)
- ☐ Immunocard STAT! EHEC (Meridian Biosciences)
- ☐ Reveal E. coli O157:H7 (Neogen)
- ☐ PCR for Shiga toxin
- ☐ PCR for O157 antigen
- ☐ Other, specify: _____

10) When your laboratory uses a **non-culture-based** method to screen for *E. coli* O157 and/or STEC, which method is used for determining the test result? [choose all that apply]

- ☐ Visual determination (EIA)
- ☐ Spectrophotometric determination (EIA) [Please specify cut-off value]: _____
- ☐ Conventional PCR
- ☐ Real-time PCR
- ☐ Other; specify _____

11) If a specimen is Shiga toxin positive by a **non-culture-based** method, would your lab routinely perform subsequent **culture-based** (e.g., subculture broth to SMAC, etc.) testing to isolate *E. coli* O157?

- ○ Yes
- ○ No

12) When a specimen is Shiga toxin positive by a **non-culture-based** method, does your lab routinely perform subsequent **culture-based (e.g., subculture broth to SMAC, etc.)** testing to isolate sorbitol **positive** colonies for further Shiga toxin testing?

- ○ Yes
- ○ No

13) If a specimen is Shiga toxin positive by a **non-culture-based** method, would your lab routinely send the specimen or a product derived from it to your public health laboratory?

- ○ Yes
- ○ No

14) If you do not send positive specimens to your public health laboratory, would your lab routinely report results to your public health department from:[choose all that apply]

- ☐ Isolation of *E. coli* O157

- ☐ Detection of Shiga toxin in broths
- ☐ None of the above

15) If you do send specimens to your public health laboratory, how do you do so?: [choose all that apply]

- ☐ Send the original specimen routinely without further testing
- ☐ Send the broth routinely without further testing
- ☐ Send the plate routinely without further testing
- ☐ Send any isolates recovered routinely without further testing
- ☐ Send all isolates of *E. coli* O157
- ☐ Send suspect specimens that were negative for *E. coli* O157
- ☐ Send suspect specimens or isolates when non-O157 STEC is suspected
- ☐ Other, specify: _____

15a) If you send specimens to your public health laboratory, what type of positive specimens/clinical materials are sent?: [choose all that apply]

- ☐ Broth, specify: _____
- ☐ Plate, blood agar
- ☐ Plate, tryptic soy agar
- ☐ MacConkey agar (MAC)
- ☐ Sorbitol MacConkey (SMAC)
- ☐ Slant, tryptic soy
- ☐ Slant, blood agar
- ☐ Stool
- ☐ Swab
- ☐ Other, specify: _____

15b) If you send specimens, what is the timeframe for sending? [choose one]

- ○ In “real time”
- ○ Sent batched

15c) Primary method of shipment used for positive specimens?: [choose one]

- ○ US Postal Service
- ○ Private carrier (FedEx, UPS, etc.)
- ○ Courier (hospital-based, etc.)
- ○ Other, specify: _____

15d) Are the positive specimens shipped as **Category A** agents [DOT, IATA, regulations effective October of 2006 state that any shiga toxin-producing *E. coli* in pure culture and or any

cultured materials (e.g. broths from immunoassays) suspected to be positive for STEC are to be shipped as Category A agents]?:

- Yes
- No
- Unknown

Comments:

Comments (for state use only):

For security validation reasons, please type the password STEC in the box below:

Password (required)

Please **print** a copy of this survey for your records, **select print before** clicking "Submit"

If you get a submission error, please e-mail mnlabsystem@health.state.mn.us

Thank You

Submit Survey

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Centers for Disease Control and Prevention
Emerging Infections Program
Foodborne Diseases Active Surveillance Network (FoodNet)

Phone: (404)-639-3343 Fax:(404)-639-3535

Requestor's Name: Joanna Zablotsky, MPH, PhD Student

PhD Advisor: Dr. Thomas A. Burke, Professor, Department of Health Policy and Management, JHSPH

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Requestor's Contact Fax: 410-614-4535

Requestor's Contact E-mail: jzablots@jhsph.edu

Date Analysis/Data Needed By: Spring/Summer 2007

Date Approved by Steering Committee:_____

Description of Data Request:

Research Question/Interest:

The focus of this research is an evaluation of foodborne illness epidemiology in relation to the capacity of local environmental health practitioners to prevent foodborne illness outbreaks in the state of Maryland. This research is part of a larger examination of the nation's environmental health capacity by the Center for Community Environmental Public Health Practice at the Johns Hopkins Bloomberg School of Public Health, an effort that is funded by the Centers for Disease Control and Prevention.

The purpose of this research is to understand the relationships between environmental health capacity at the local level, food protection mandates, and food-borne morbidity and mortality in Maryland. An elucidation and quantification of these relationships will provide the necessary evidence for environmental public health practitioners to advocate for improving local environmental health capacity and will highlight the role of environmental health in protecting the public's health. The research aims for this analysis are as follows:

Aim I. Describe the local environmental health infrastructure and services in Maryland, particularly in regards to food protection services; and identify and describe indicators of local environmental health capacity in Maryland and assess their adequacy.

Aim II. Examine the state-mandated restaurant inspection system and determine whether counties in Maryland have the local EH capacity to meet these requirements.

Aim III. Examine trends in food-borne morbidity and mortality in Maryland and assess the relationship between local EH capacity and food-borne illness outbreak data in the state.

For the purposes of this data request, the third aim is of greatest importance. This research will attempt to link local environmental health capacity in Maryland to conduct food facility inspections (measured as the ability of each county to complete mandated food facility inspections (completed inspection/mandated inspections) to an adverse health outcome: food-borne morbidity and mortality. FoodNet data will be used to quantify the burden of foodborne illness in each county and in the state as a whole, particularly for restaurant-implicated illness and death. It is hypothesized that counties with a low level of capacity to perform food facility inspections will experience higher rates of foodborne illness and death than counties that are categorized as having high capacity.

It is further hypothesized that a formal quantification of existing local EPH capacity to effectively manage food-borne related morbidity and mortality will be a strong and effective policy tool for both state and local practitioners to advocate for greater attention and support from both the Maryland legislature and individual county councils across the state. Based on this evaluation, policy recommendations will be offered for state and national practitioners to manage current food protection issues in Maryland and develop policies to reduce future morbidity and mortality.

Dataset: Active Laboratory Surveillance Database for Maryland
Pathogen(s): *Campylobacter*, *Cryptosporidium*, *Cyclospora*, *Listeria*, *Salmonella*, Shiga toxin-producing *Escherichia coli* (STEC) including STEC O157, *Shigella*, *Vibrio*, and *Yersinia* infections
Year(s): All years in which data was collected in all counties in Maryland
Other Variables of Interest (e.g. sex, race, ethnicity): Race, Sex, Age, Geographic Residence (zip code or census block), Whether or not the illness was restaurant associated, Name of Restaurant Illness was contracted in, Type of Restaurant (Tier 1, Tier 2, Tier 3) illness was contracted in, or Zip Code of restaurant where illness was contracted
Denominator: Maryland population
Additional Request: Any additional information about how or where the individual fell ill

Proposed Publication:
Publication: X Yes □ No
If yes:
Publication Timeline: Preliminary Oral Exam Scheduled for July, Final Defense Anticipated Fall-Winter 2008, Publication would occur after final defense
Proposed Publication: The Impact of Local Environmental Public Health Capacity on Food-borne Morbidity and Mortality in Maryland

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: Joanna Zablotsky Date: 5/4/07

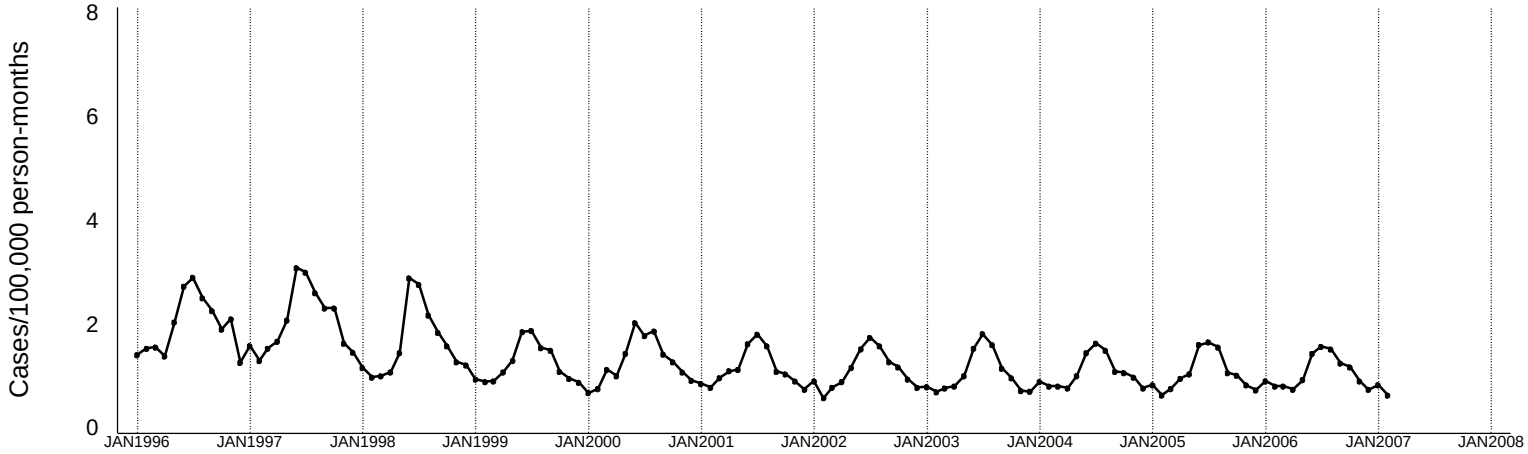
Please fax your completed form to FoodNet at 404-371-5444.

FoodNet Data for February
(data transmitted 4-20-2007)

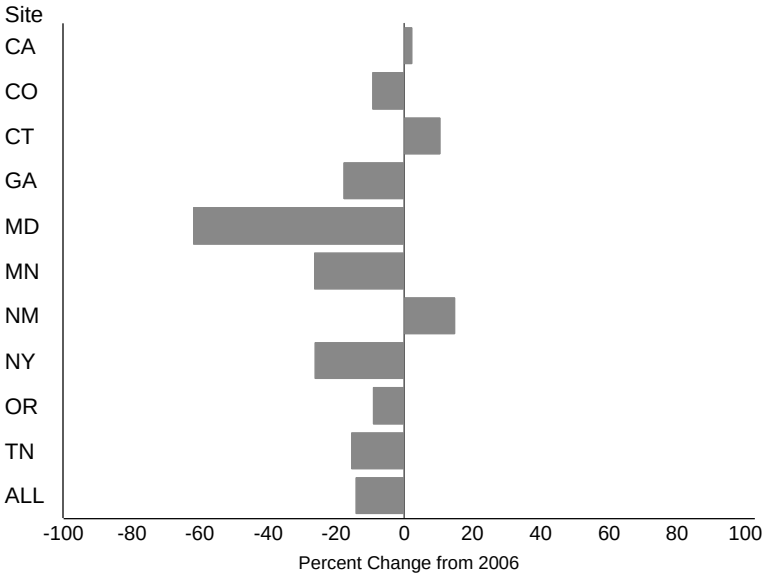
Pathogen	2006		2007		2007 vs 2006	5 year Mean	
	count	rate	count	rate	p-value	count	Rate
Campylobacter	769	1.71	660	1.47	0.0039	688	1.57
Listeria	18	0.04	10	0.02		14	0.03
***Salmonella* , all serotypes**	630	1.40	733	1.63	0.0053	611	1.41
***S. T*yphimurium**	122	0.27	124	0.28		138	0.32
***S.* Enteritidis**	111	0.25	120	0.27		103	0.24
S. Newport	31	0.07	27	0.06		44	0.10
***S.* Heidelberg**	27	0.06	42	0.09		33	0.08
***S.* Javiana**	13	0.03	17	0.04		13	0.03
***Salmonella* , all others**	326	0.73	403	0.90	0.0043	281	0.64
***Shigella* , all species**	269	0.60	311	0.69		356	0.82
Shigella sonnei	184	0.41	228	0.51	0.0303	272	0.63
Shigella flexneri	60	0.13	49	0.11		60	0.14
***Shigella* , all others**	25	0.06	34	0.08		24	0.06
STEC O157	41	0.09	31	0.07		29	0.07
STEC non-O157	19	0.04	10	0.02		9	0.02
***Vibrio* , all species**	5	0.01	1	0.00		5	0.01
Virbio parahaemolyticus	2	0.00	1	0.00		1	0.00
Vibrio vulnificus	0	0.00	0	0.00		0	0.00
***Virbio* , all others**	3	0.01	0	0.00		3	0.01
Yersinia	33	0.07	35	0.08		34	0.08
Cryptosporidium	102	0.23	82	0.18		70	0.16
Cyclospora	0	0.00	0	0.00		1	0.00

Campylobacter

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



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

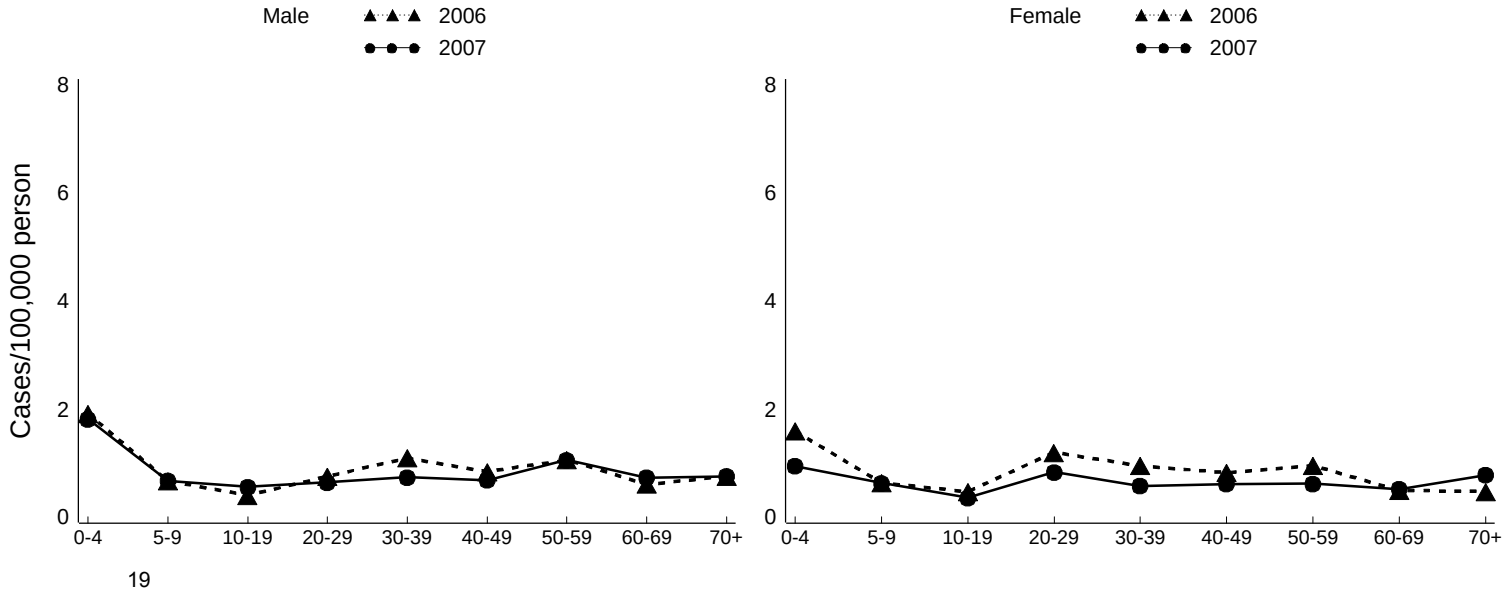


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	141	4.398	138	4.304	144	4.490
CO	59	2.281	65	2.513	52	2.034
CT	64	1.823	58	1.652	62	1.762
GA	70	0.772	85	0.937	71	0.798
MD	21	0.375	55	0.982	44	0.793
MN	92	1.792	125	2.435	101	1.981
NM	31	1.608	27	1.400	34	1.772
NY	48	1.114	65	1.509	53	1.304
OR	90	2.472	99	2.719	85	2.355
TN	44	0.738	52	0.872	44	0.812
ALL	660	1.468	769	1.711	688	1.570

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

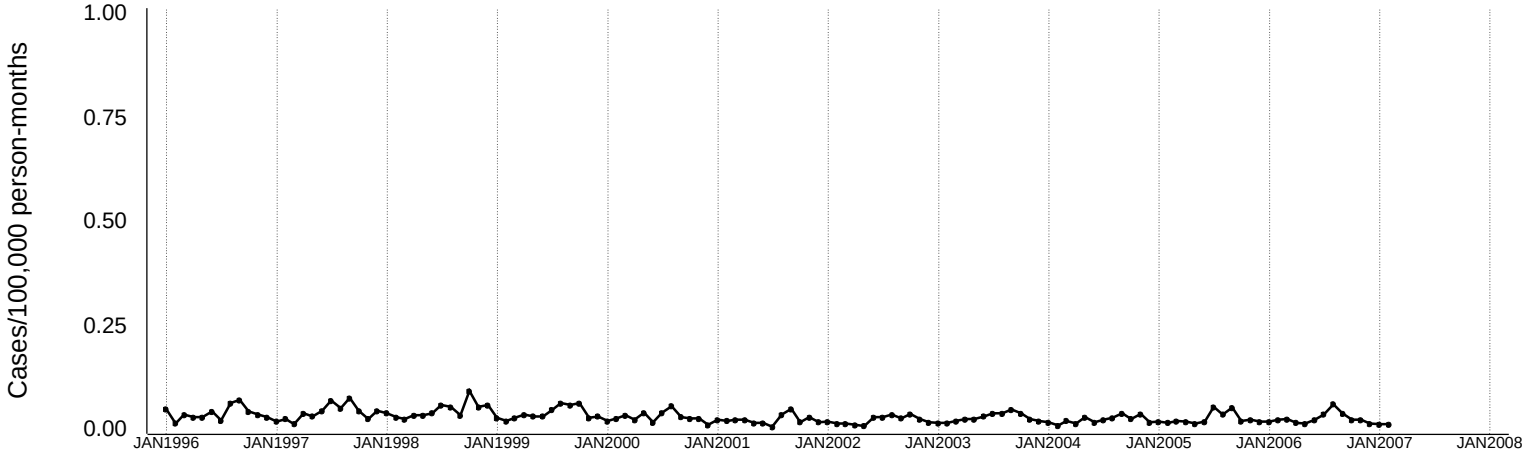
Calendar year through February: Rates for 2006 and 2007 by age group and sex



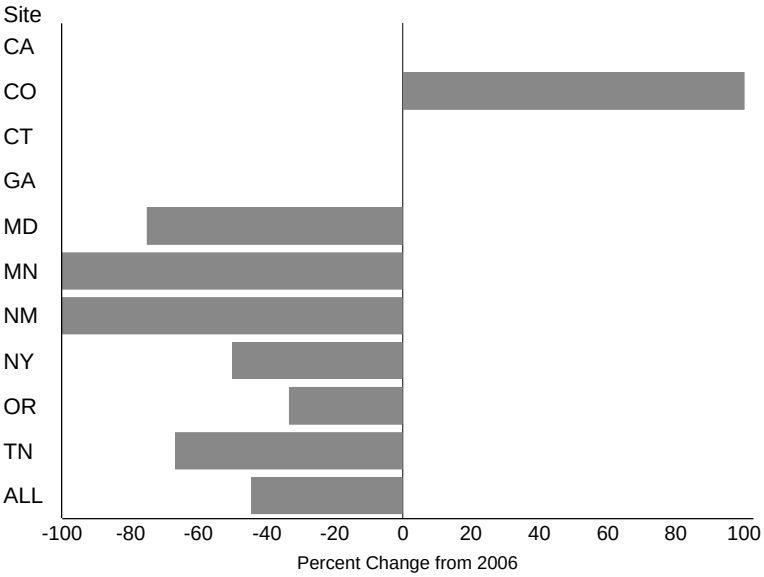
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 30-April-2007

Listeria

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



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

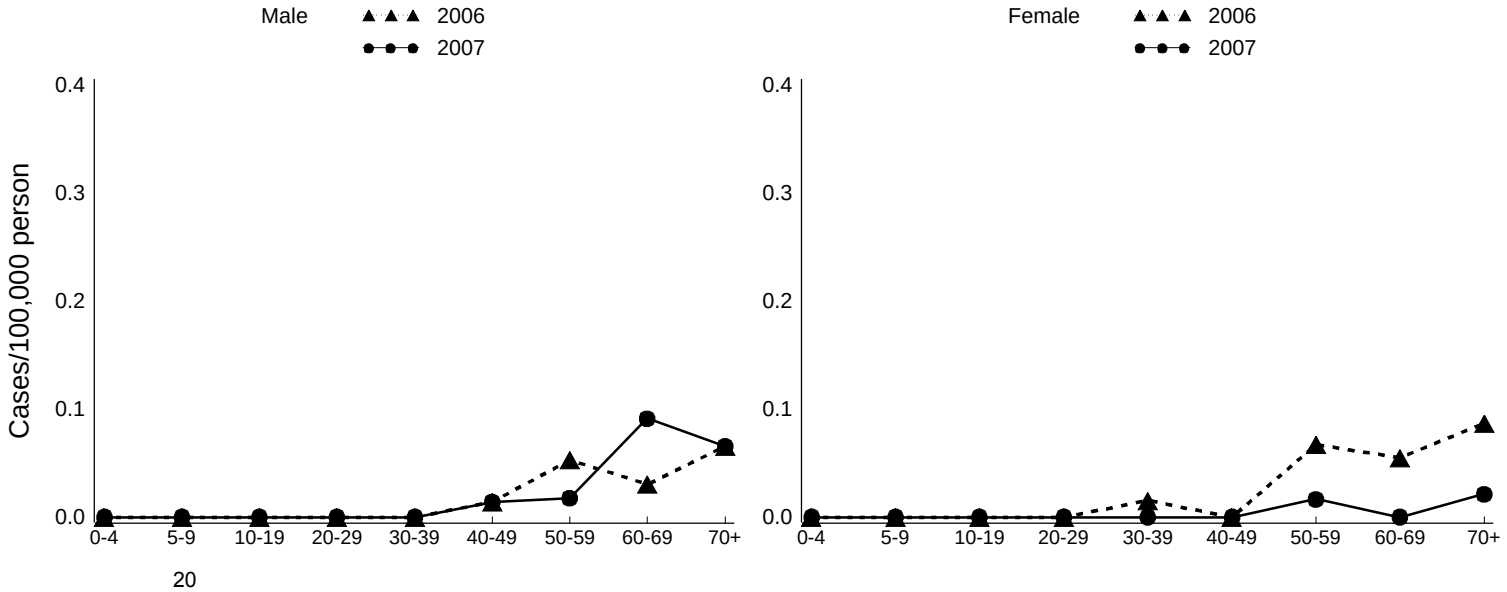


	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	1	0.031	1	0.031	1	0.019
CO	2	0.077	1	0.039	1	0.024
CT	1	0.028	1	0.028	1	0.040
GA	1	0.011	1	0.011	2	0.022
MD	1	0.018	4	0.071	3	0.047
MN	0	0.000	1	0.019	1	0.020
NM	0	0.000	1	0.052	0	0.017
NY	1	0.023	2	0.046	2	0.045
OR	2	0.055	3	0.082	1	0.039
TN	1	0.017	3	0.050	2	0.037
ALL	10	0.022	18	0.040	14	0.032

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

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

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



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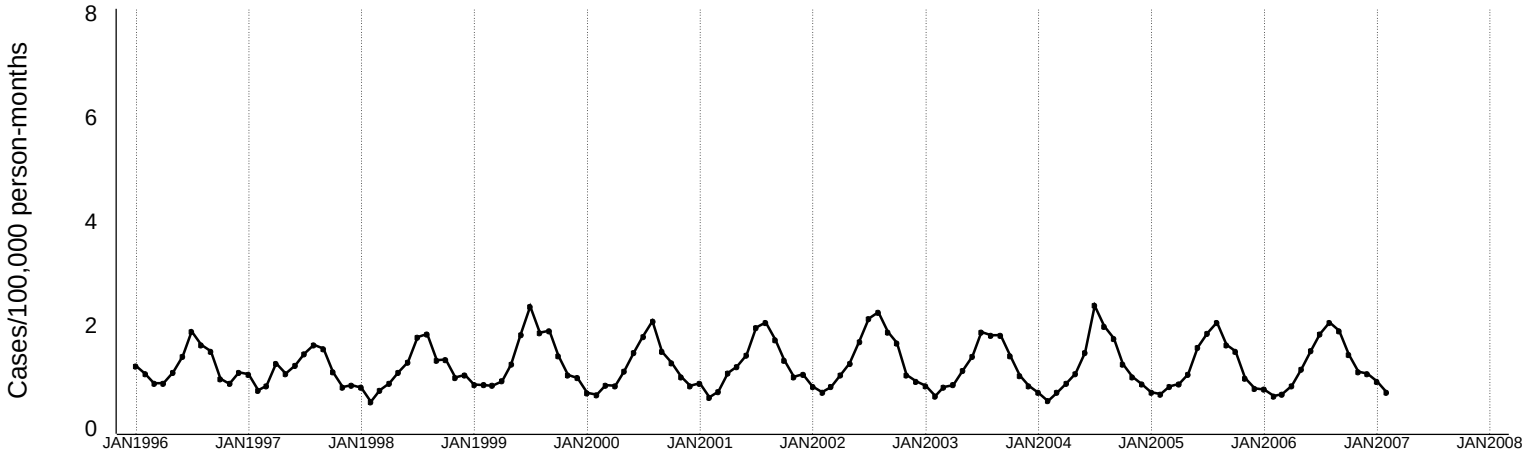
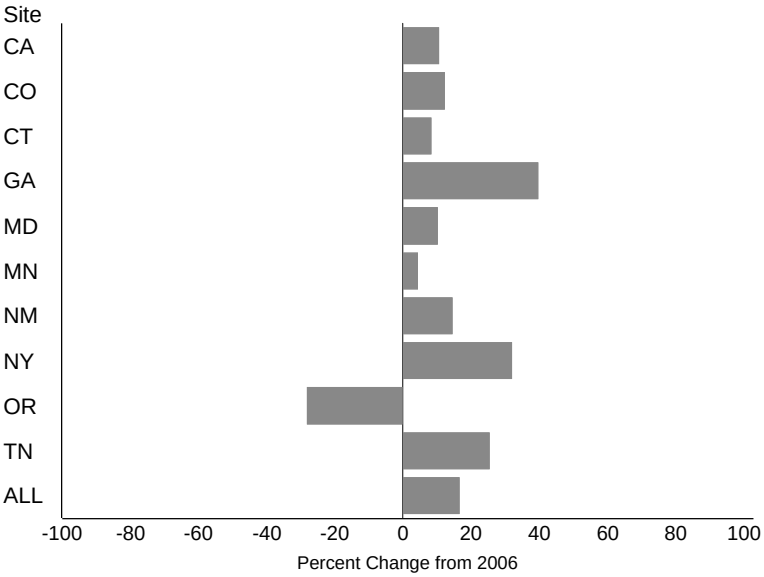
Salmonella, all serotypes

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



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

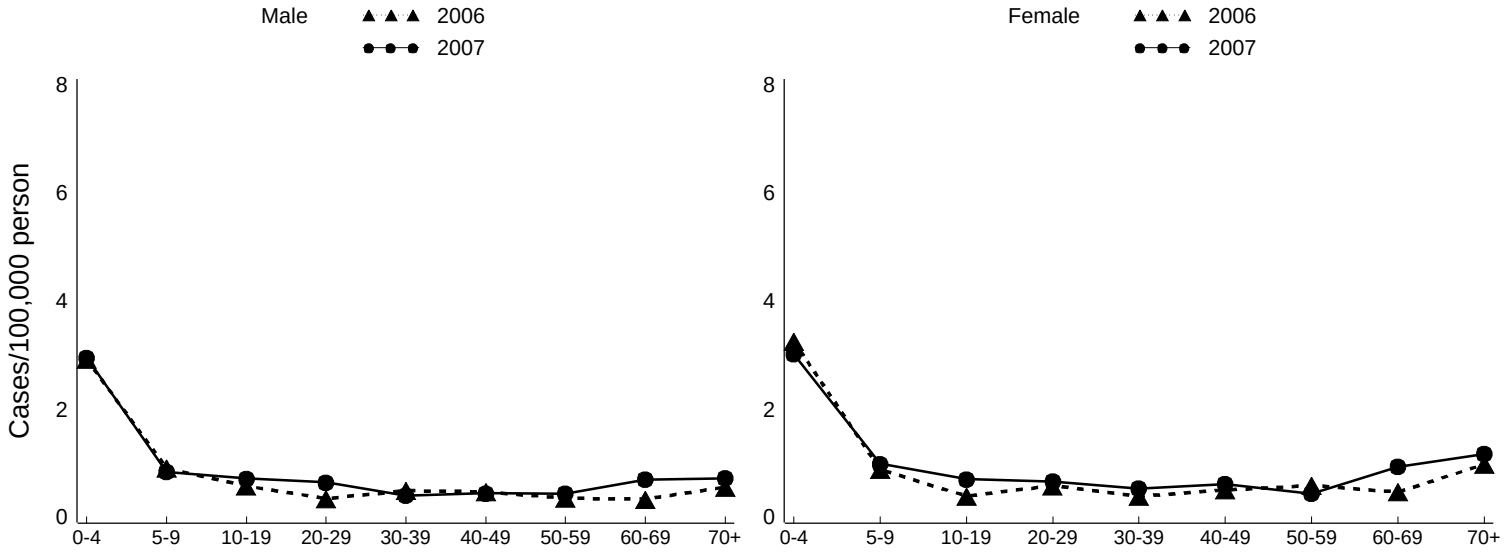


	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	53	1.65	48	1.50	63	1.96
CO	46	1.78	41	1.59	37	1.44
CT	53	1.51	49	1.40	45	1.30
GA	205	2.26	147	1.62	134	1.51
MD	77	1.37	70	1.25	74	1.33
MN	75	1.46	72	1.40	69	1.36
NM	32	1.66	28	1.45	26	1.34
NY	62	1.44	47	1.09	42	1.06
OR	41	1.13	57	1.57	45	1.26
TN	89	1.49	71	1.19	76	1.47
ALL	733	1.63	630	1.40	611	1.41

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

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

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



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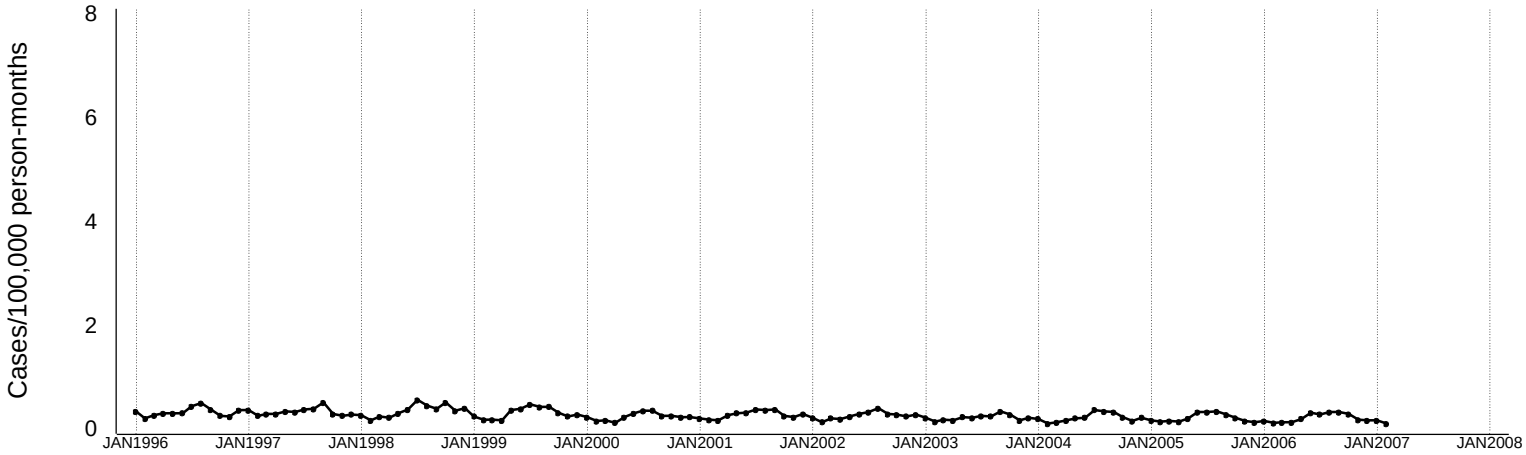
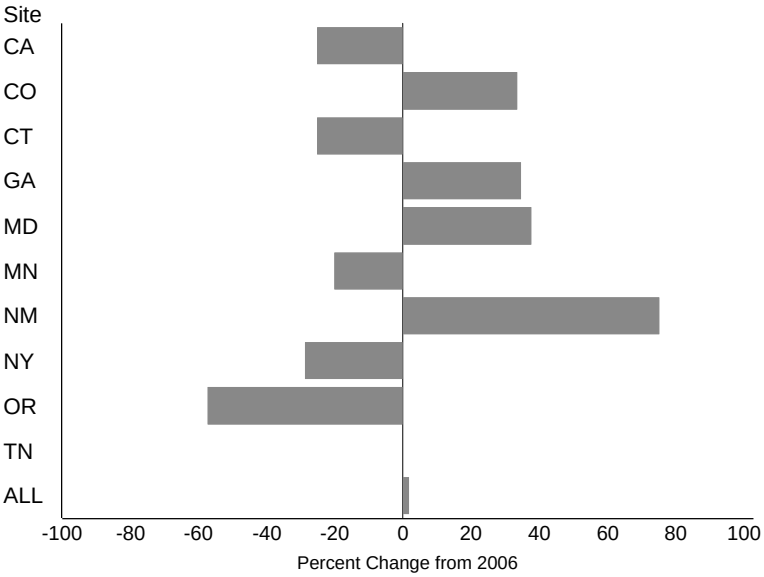
Salmonella Typhimurium

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



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

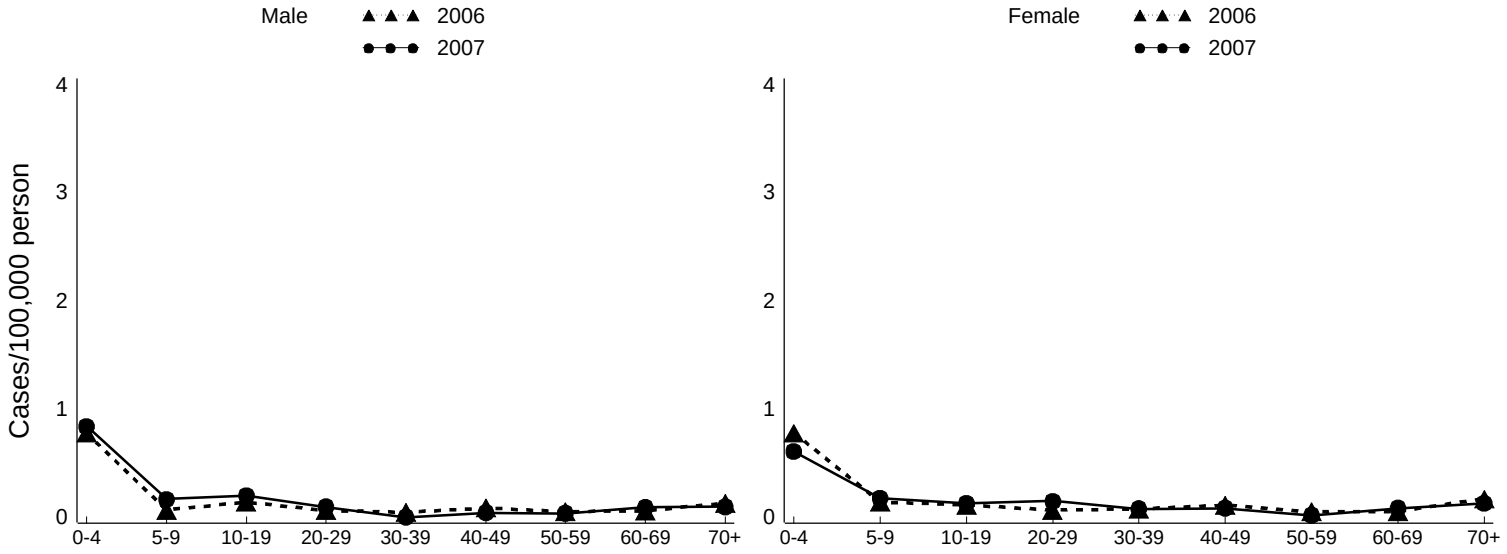


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	6	0.19	8	0.25	13	0.40
CO	12	0.46	9	0.35	8	0.31
CT	9	0.26	12	0.34	10	0.28
GA	43	0.47	32	0.35	34	0.38
MD	11	0.20	8	0.14	11	0.20
MN	12	0.23	15	0.29	14	0.28
NM	7	0.36	4	0.21	4	0.23
NY	5	0.12	7	0.16	8	0.21
OR	6	0.16	14	0.38	11	0.32
TN	13	0.22	13	0.22	24	0.48
ALL	124	0.28	122	0.27	138	0.32

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

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



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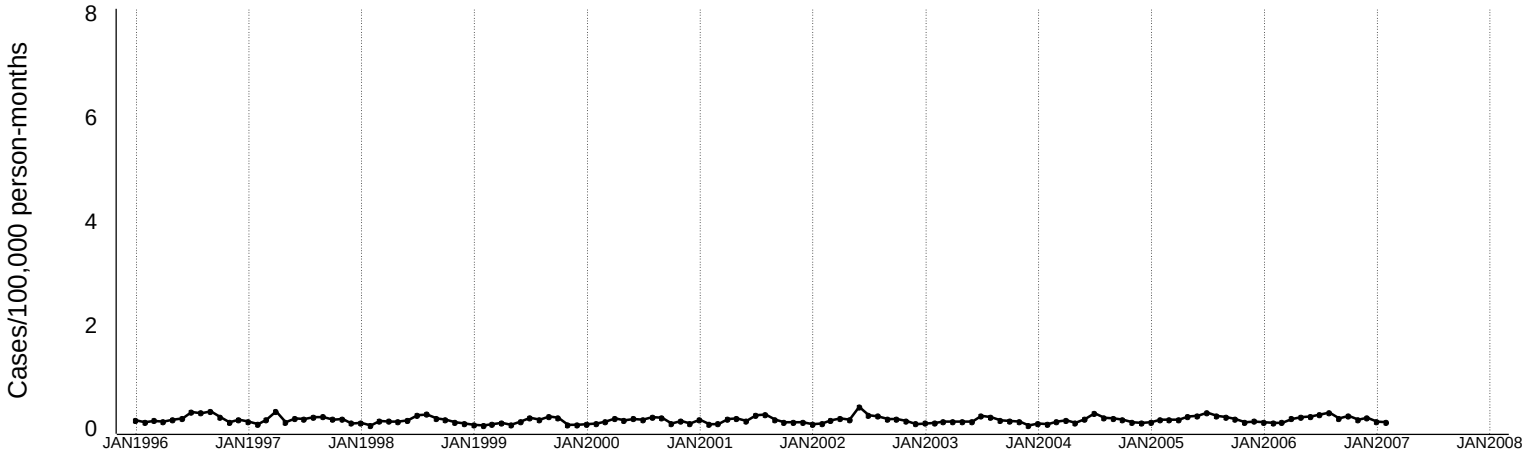
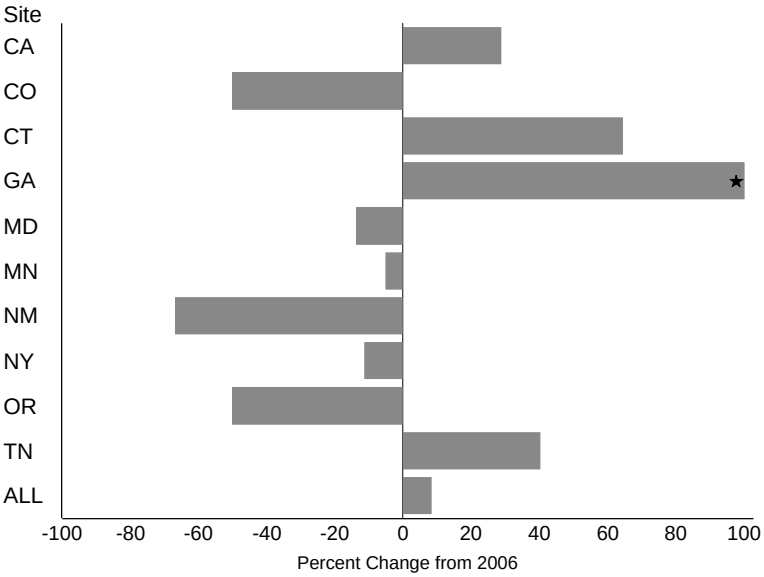
Salmonella Enteritidis

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



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

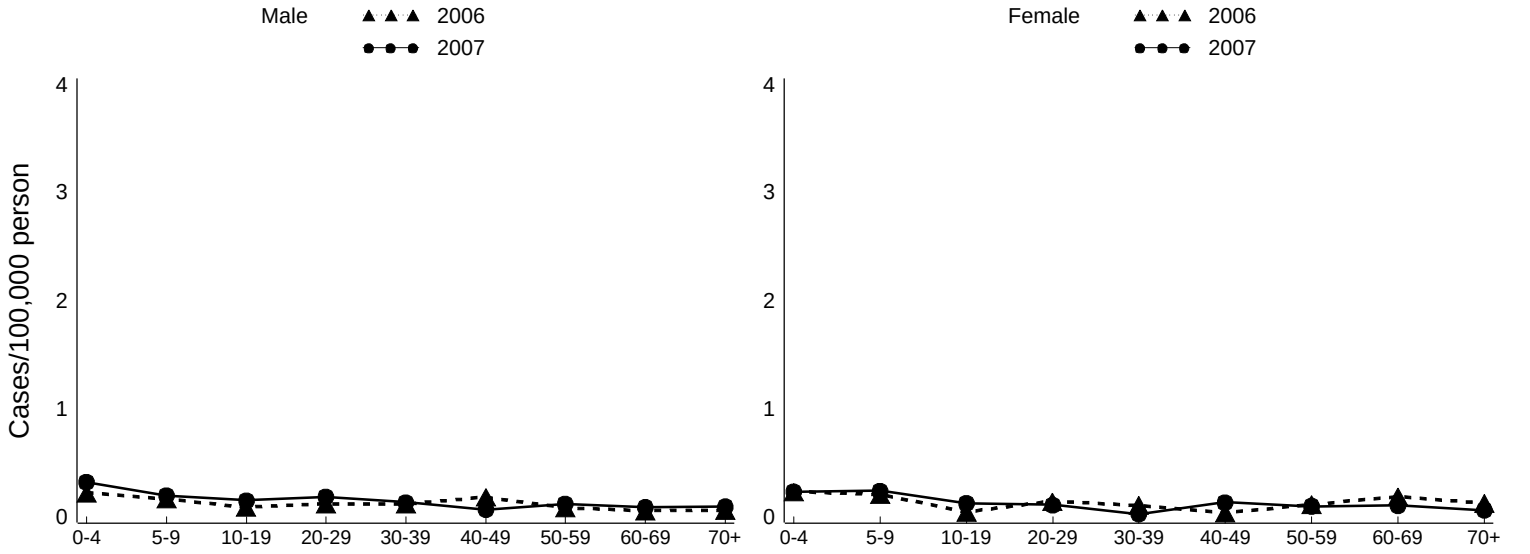


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	9	0.281	7	0.218	9	0.287
CO	5	0.193	10	0.387	8	0.329
CT	23	0.655	14	0.399	12	0.355
GA	23	0.254	9	0.099	8	0.094
MD	19	0.339	22	0.393	23	0.418
MN	19	0.370	20	0.390	14	0.275
NM	1	0.052	3	0.156	2	0.104
NY	8	0.186	9	0.209	8	0.203
OR	6	0.165	12	0.330	7	0.206
TN	7	0.117	5	0.084	10	0.165
ALL	120	0.267	111	0.247	103	0.237

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

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



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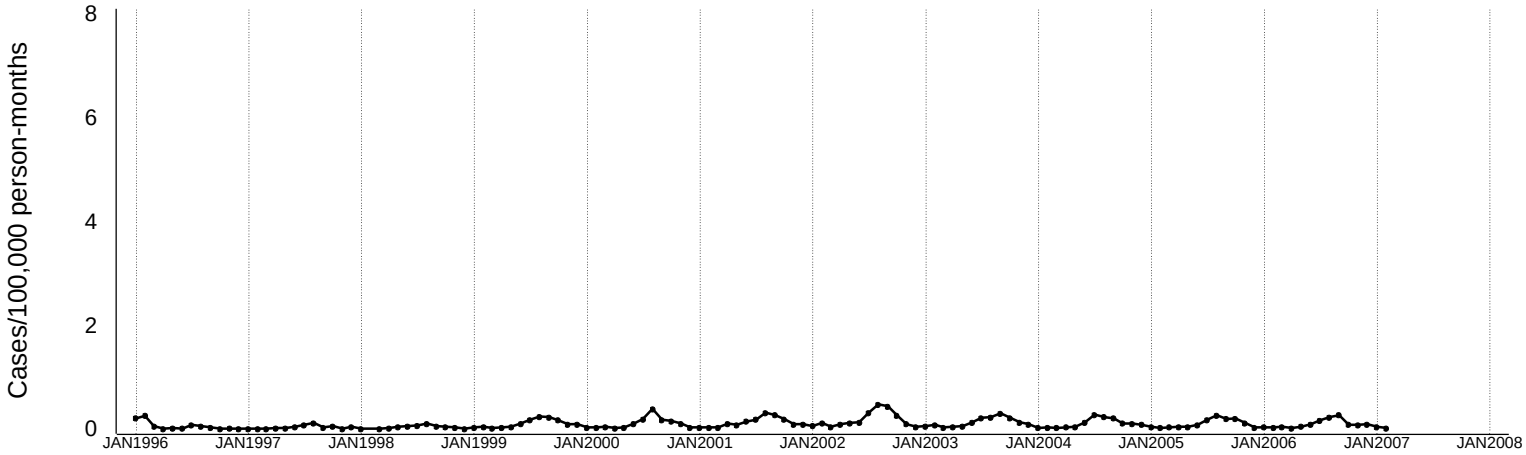
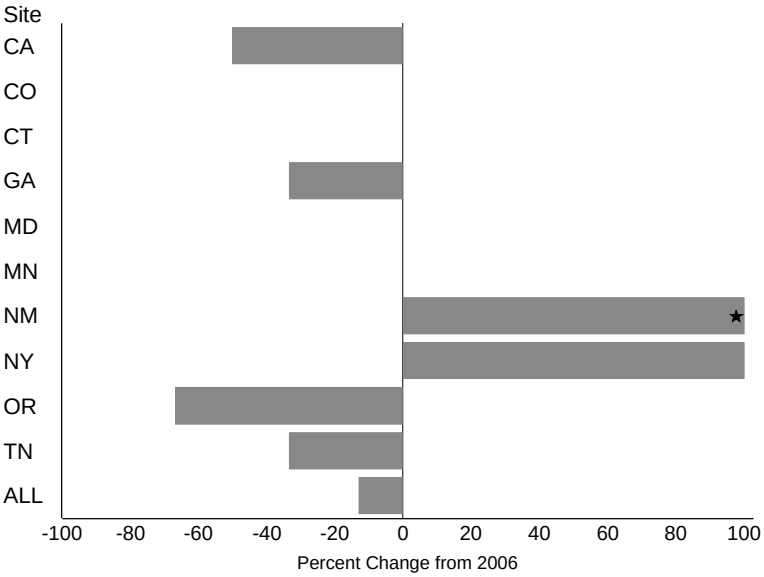
Salmonella Newport

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



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

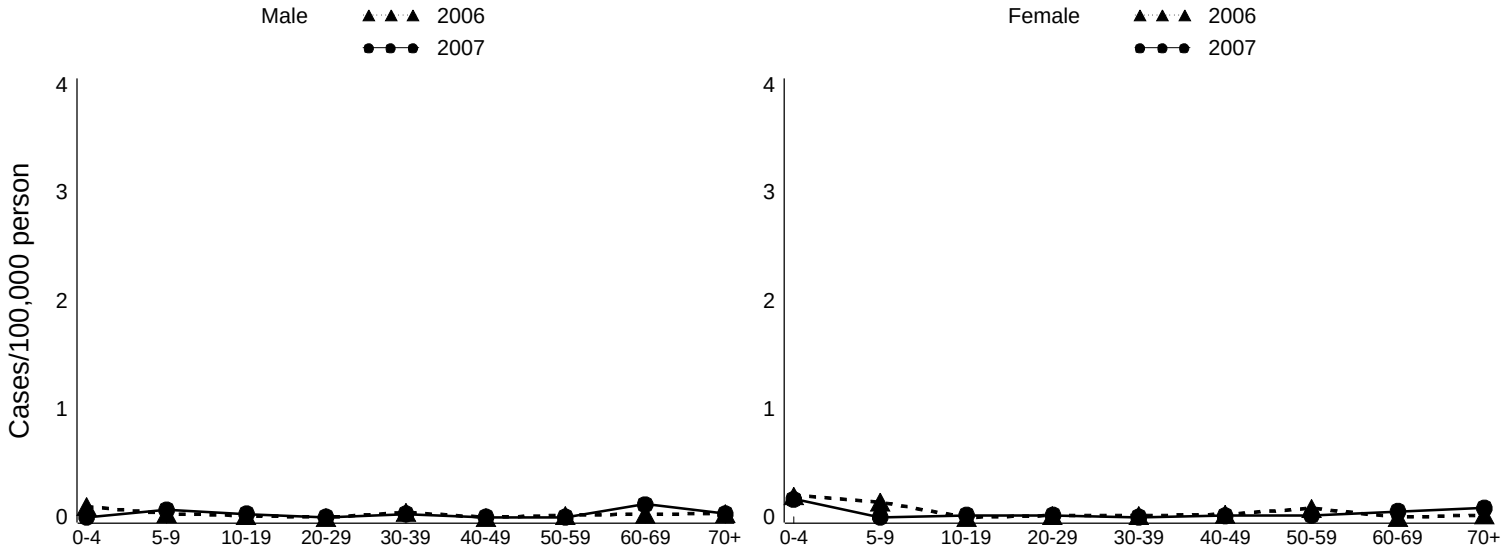


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	1	0.031	2	0.062	4	0.137
CO	2	0.077	2	0.077	3	0.102
CT	2	0.057	2	0.057	3	0.098
GA	8	0.088	12	0.132	12	0.133
MD	1	0.018	1	0.018	3	0.051
MN	3	0.058	3	0.058	5	0.098
NM	5	0.259	2	0.104	3	0.139
NY	2	0.046	1	0.023	6	0.173
OR	1	0.027	3	0.082	4	0.100
TN	2	0.034	3	0.050	2	0.034
ALL	27	0.060	31	0.069	44	0.103

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

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



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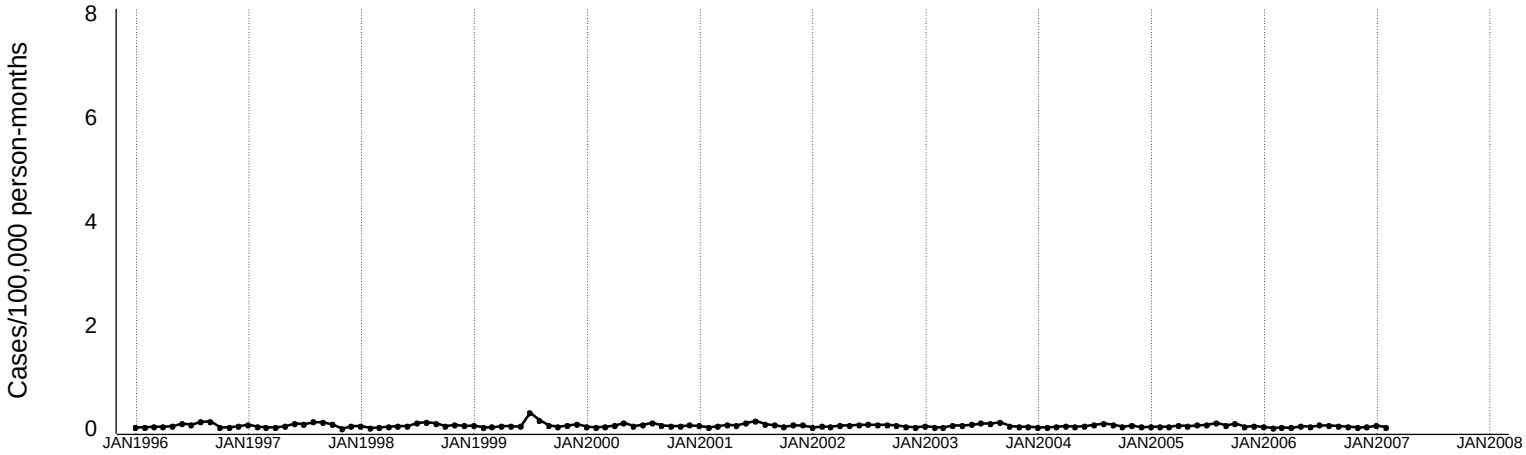
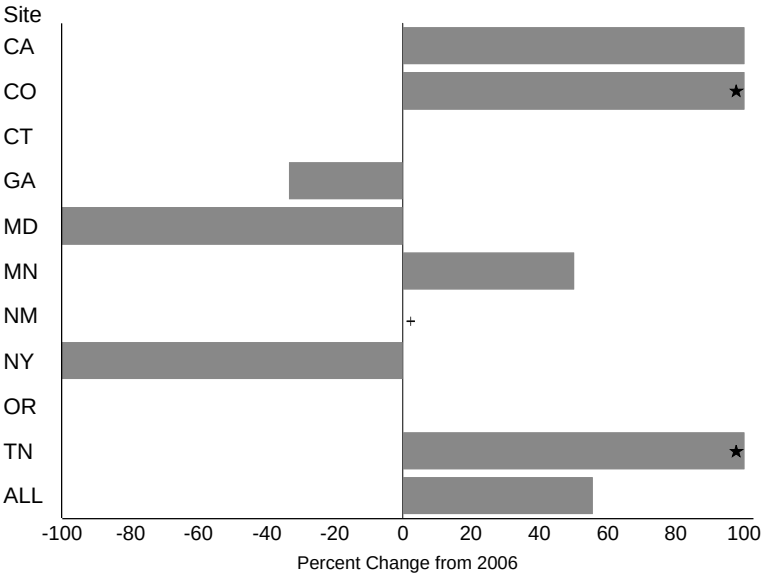
Salmonella Heidelberg

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



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

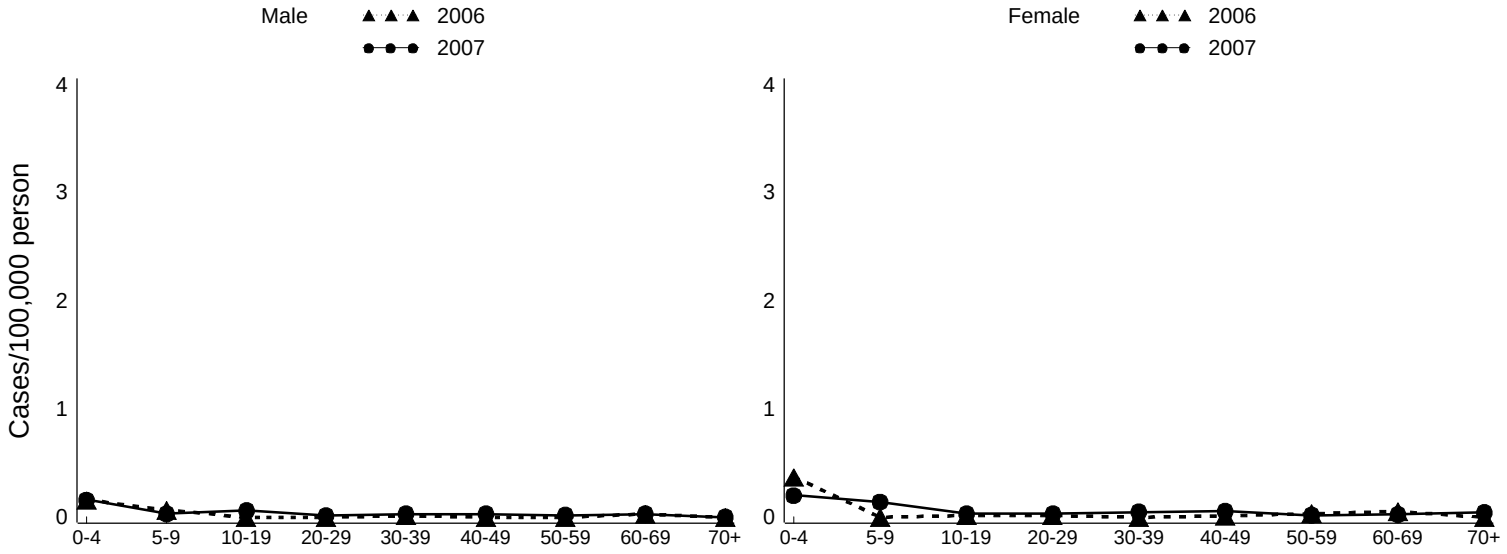


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	2	0.062	1	0.031	6	0.187
CO	3	0.116	1	0.039	1	0.039
CT	1	0.028	1	0.028	2	0.052
GA	8	0.088	12	0.132	9	0.097
MD	0	0.000	1	0.018	3	0.055
MN	3	0.058	2	0.039	3	0.063
NM	1	0.052	0	0.000	0	0.000
NY	0	0.000	4	0.093	2	0.049
OR	2	0.055	2	0.055	3	0.094
TN	22	0.369	3	0.050	4	0.079
ALL	42	0.093	27	0.060	33	0.077

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

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



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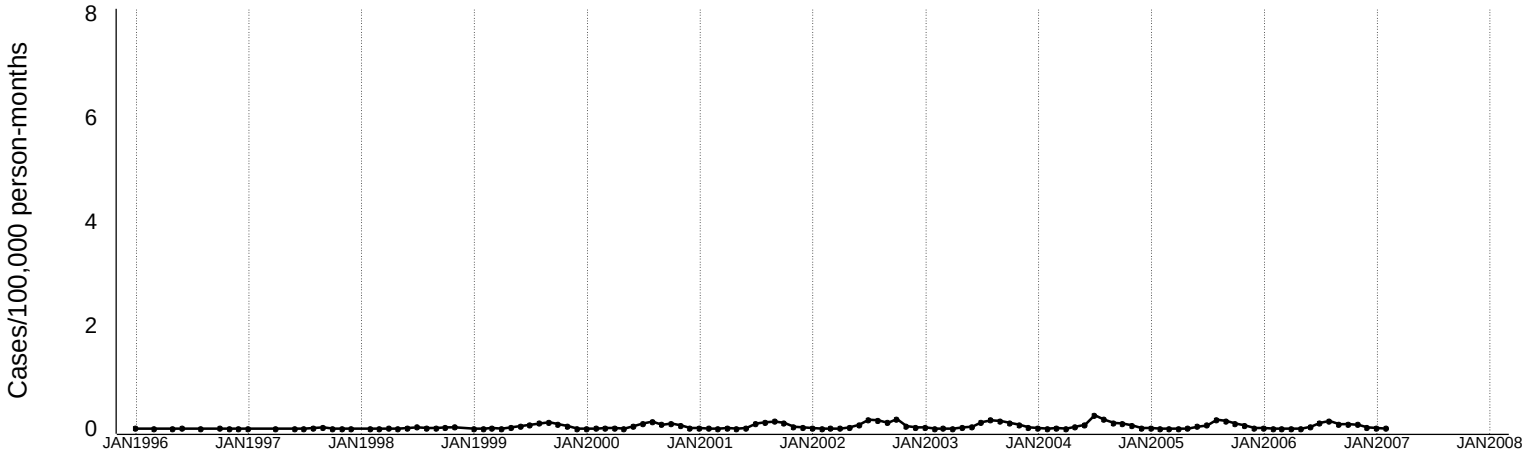
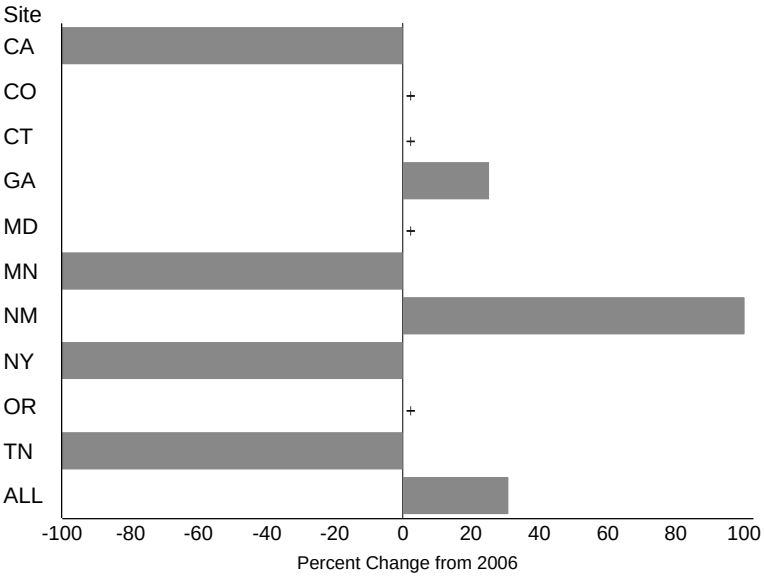
Salmonella Javiana

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



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



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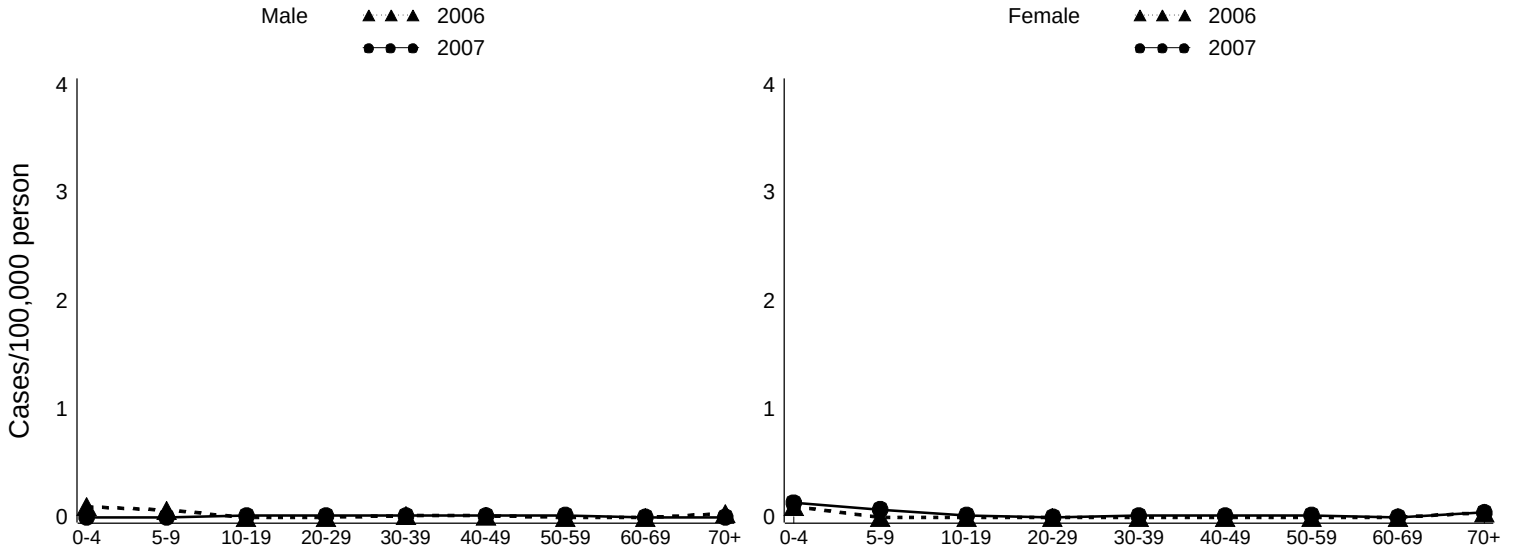
	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	1	0.031	1	0.037
CO	3	0.116	0	0.000	0	0.000
CT	1	0.028	0	0.000	0	0.006
GA	10	0.110	8	0.088	7	0.083
MD	0	0.000	0	0.000	0	0.004
MN	0	0.000	1	0.019	1	0.016
NM	2	0.104	1	0.052	2	0.087
NY	0	0.000	1	0.023	0	0.005
OR	1	0.027	0	0.000	0	0.000
TN	0	0.000	1	0.017	1	0.031
ALL	17	0.038	13	0.029	13	0.029

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

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



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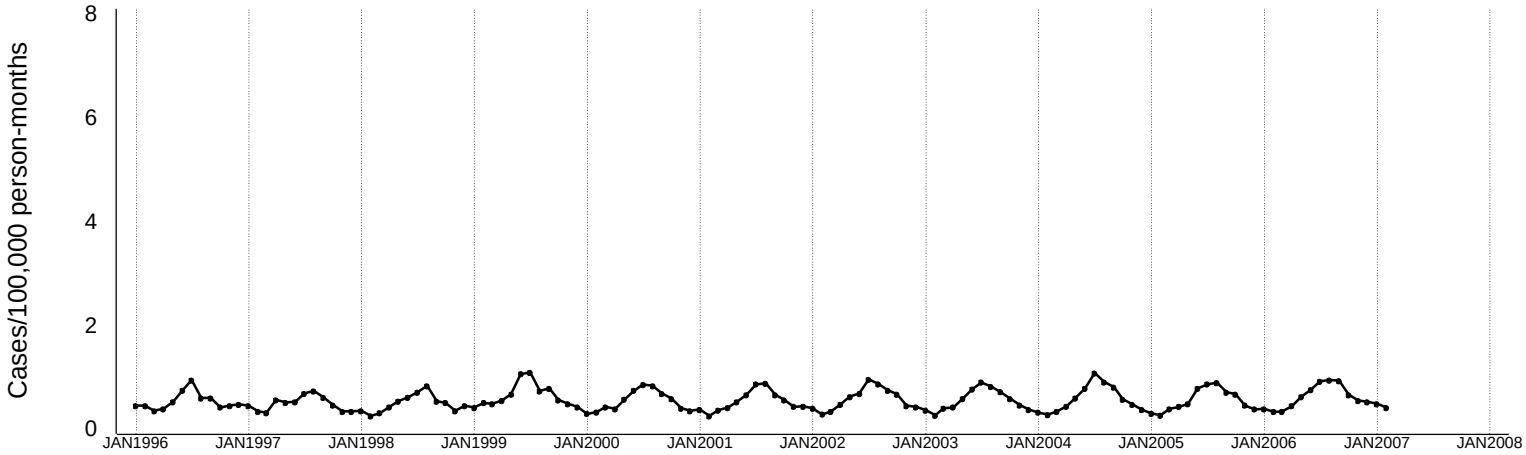
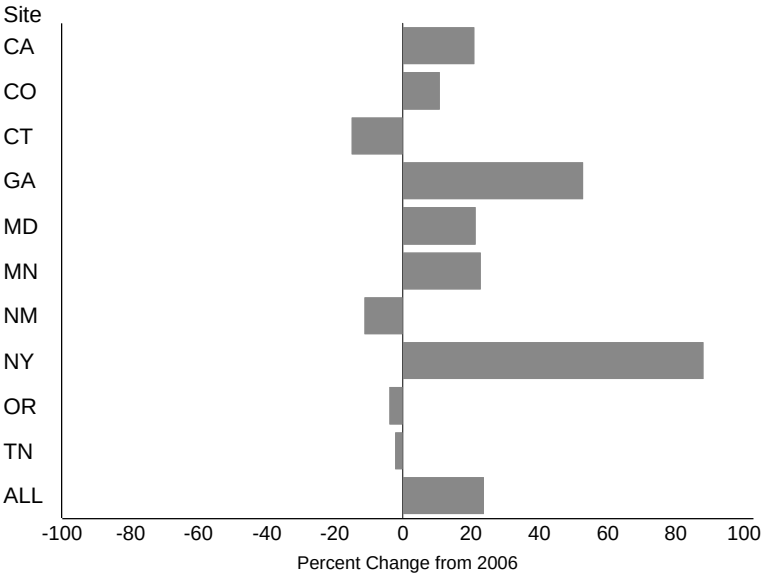
Salmonella, all others

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



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

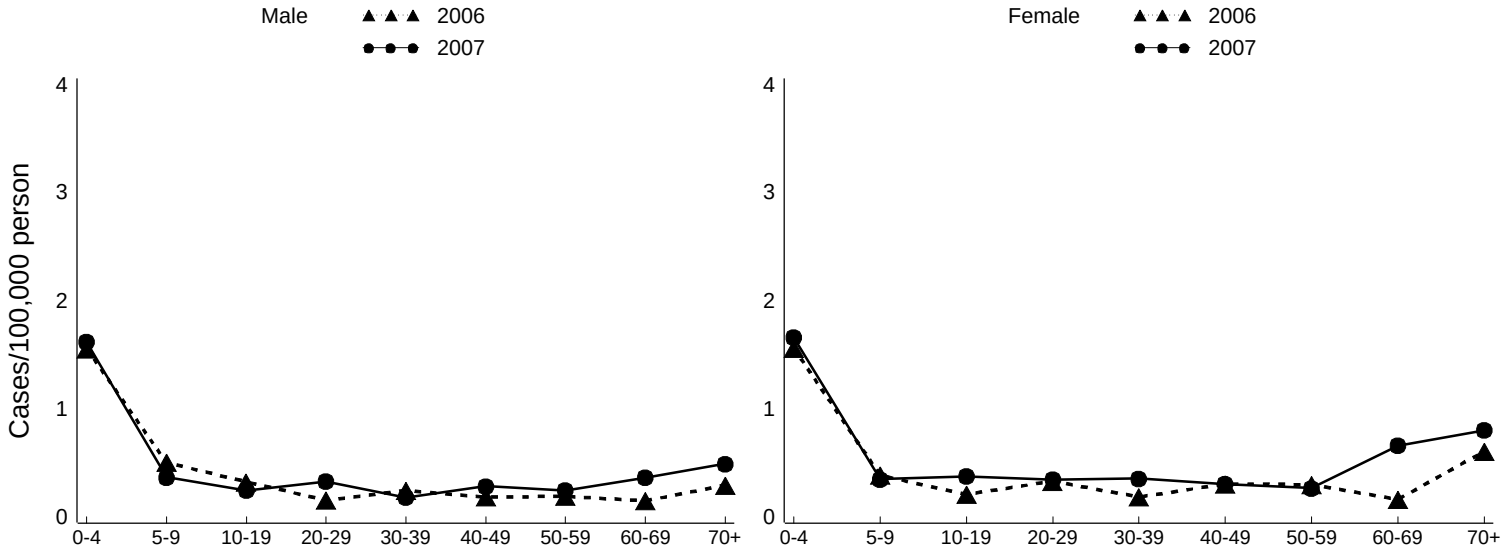


	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	35	1.09	29	0.90	29	0.92
CO	21	0.81	19	0.73	17	0.66
CT	17	0.48	20	0.57	18	0.51
GA	113	1.25	74	0.82	64	0.72
MD	46	0.82	38	0.68	34	0.61
MN	38	0.74	31	0.60	32	0.62
NM	16	0.83	18	0.93	15	0.78
NY	47	1.09	25	0.58	17	0.42
OR	25	0.69	26	0.71	20	0.55
TN	45	0.75	46	0.77	36	0.68
ALL	403	0.90	326	0.73	281	0.64

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

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

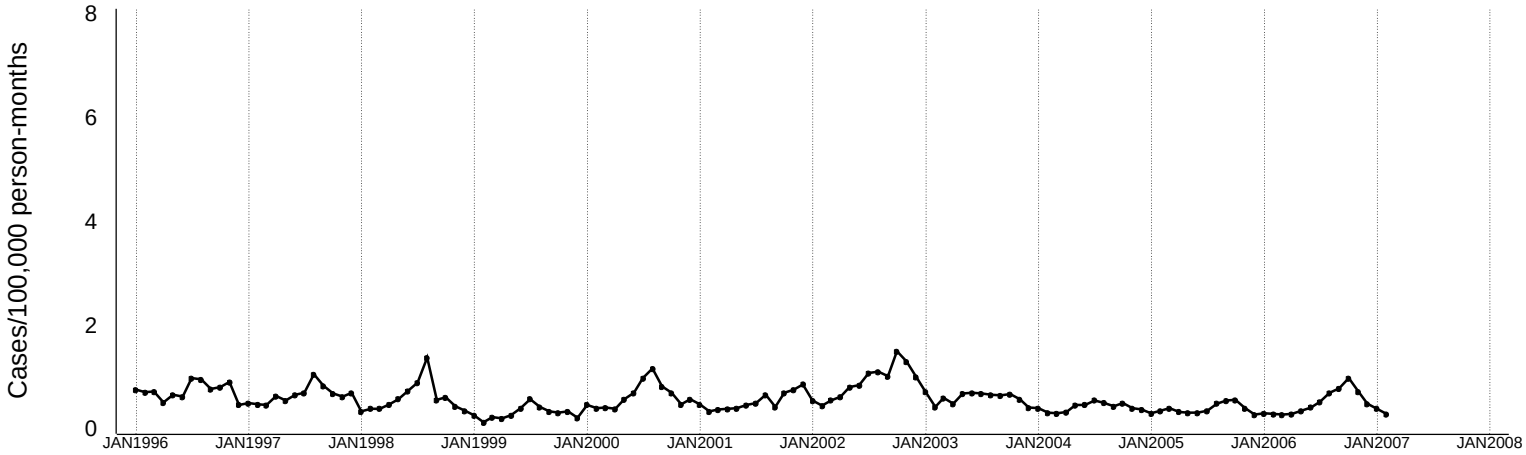
Calendar year through February: Rates for 2006 and 2007 by age group and sex



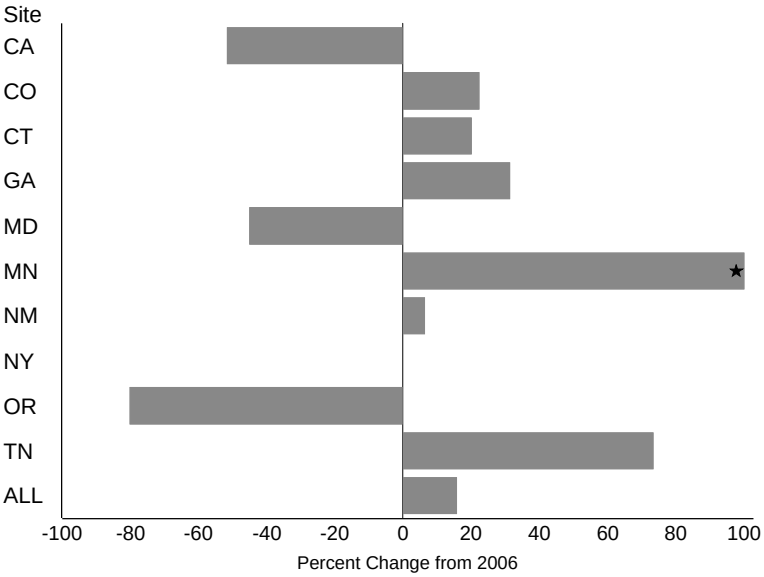
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 30-April-2007

Shigella, all species

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



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

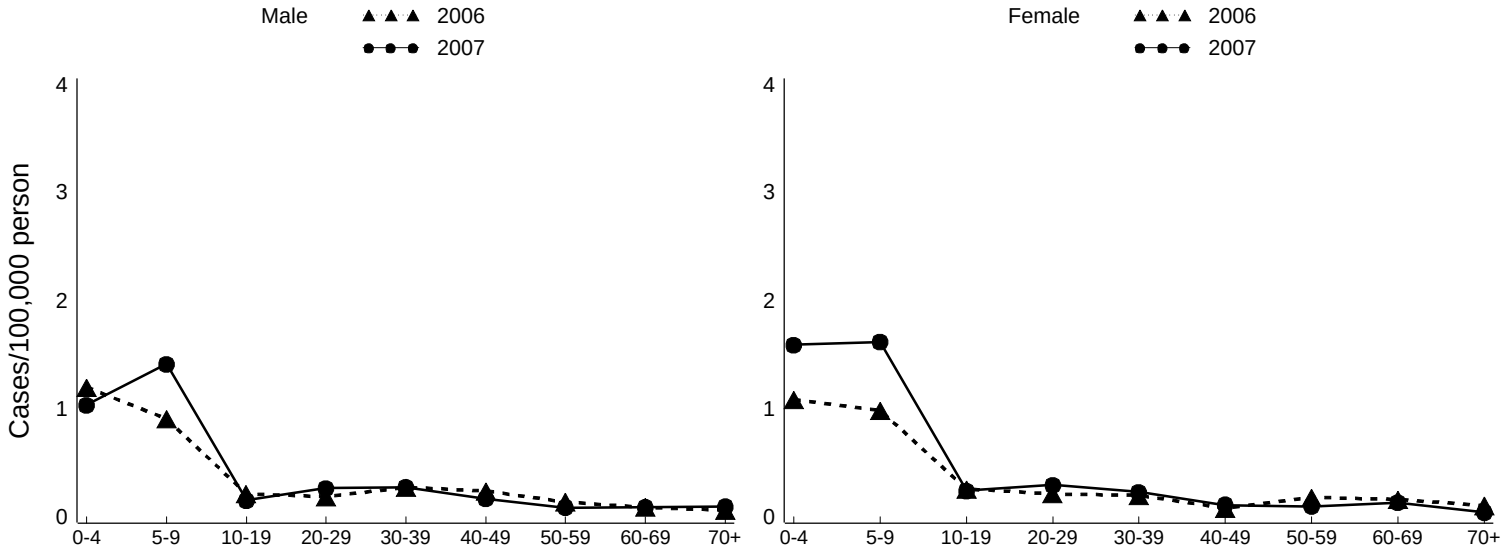


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	16	0.50	33	1.03	40	1.25
CO	11	0.43	9	0.35	11	0.42
CT	6	0.17	5	0.14	9	0.25
GA	155	1.71	118	1.30	137	1.56
MD	11	0.20	20	0.36	39	0.71
MN	58	1.13	18	0.35	14	0.28
NM	17	0.88	16	0.83	21	1.11
NY	5	0.12	5	0.12	12	0.30
OR	6	0.16	30	0.82	17	0.48
TN	26	0.44	15	0.25	55	0.96
ALL	311	0.69	269	0.60	356	0.82

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

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



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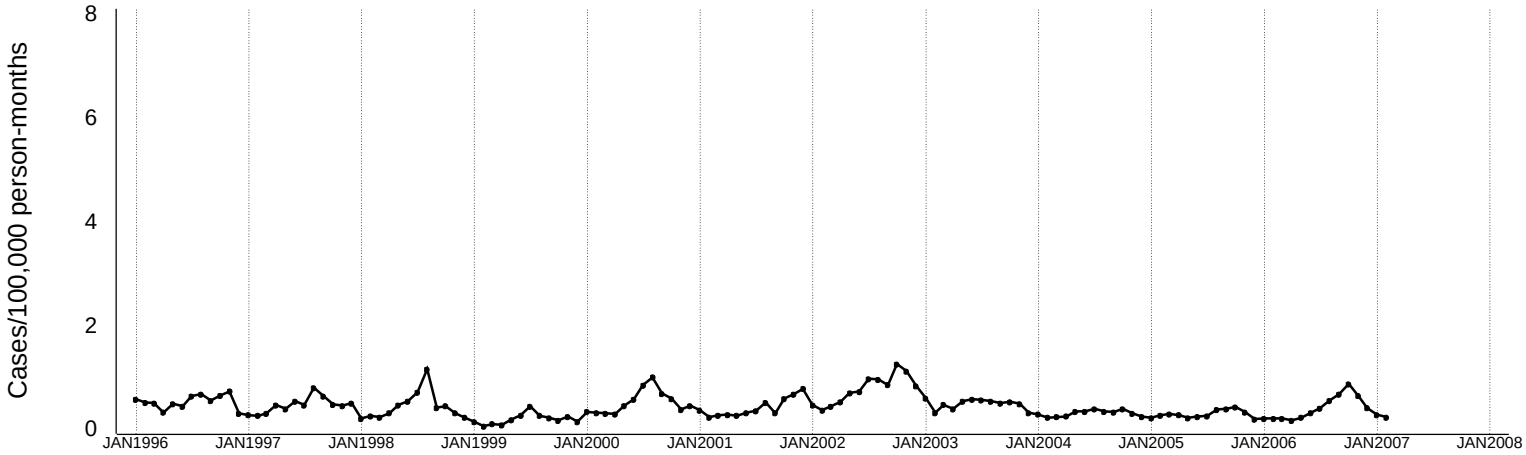
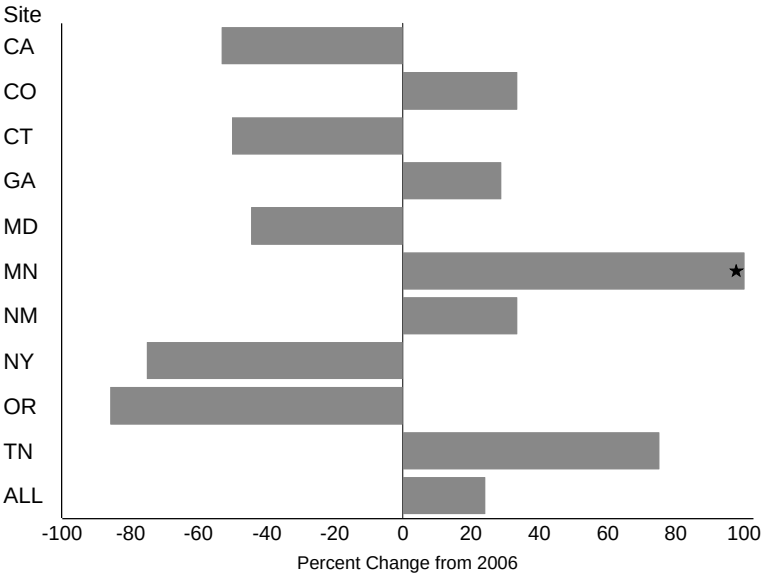
Shigella sonnei

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



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

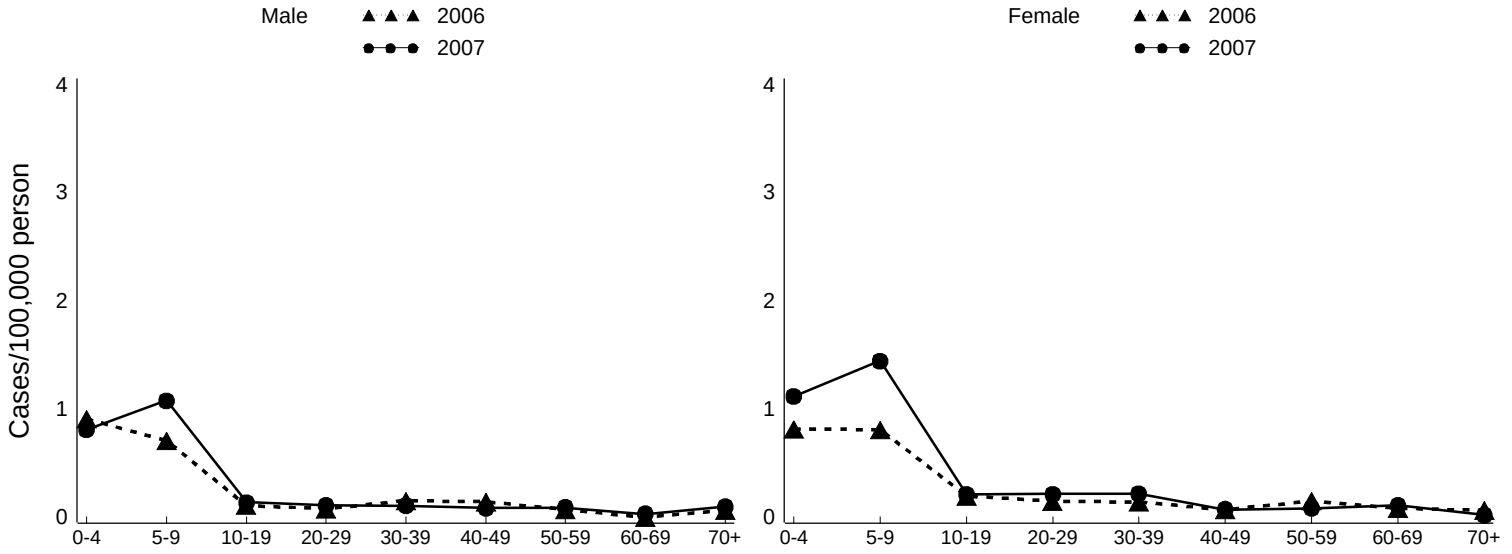


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	8	0.250	17	0.530	19	0.580
CO	8	0.309	6	0.232	7	0.260
CT	2	0.057	4	0.114	7	0.189
GA	117	1.290	91	1.003	111	1.262
MD	5	0.089	9	0.161	33	0.594
MN	54	1.052	12	0.234	10	0.201
NM	16	0.830	12	0.622	17	0.888
NY	1	0.023	4	0.093	11	0.256
OR	3	0.082	21	0.577	11	0.306
TN	14	0.235	8	0.134	48	0.824
ALL	228	0.507	184	0.409	272	0.630

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

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



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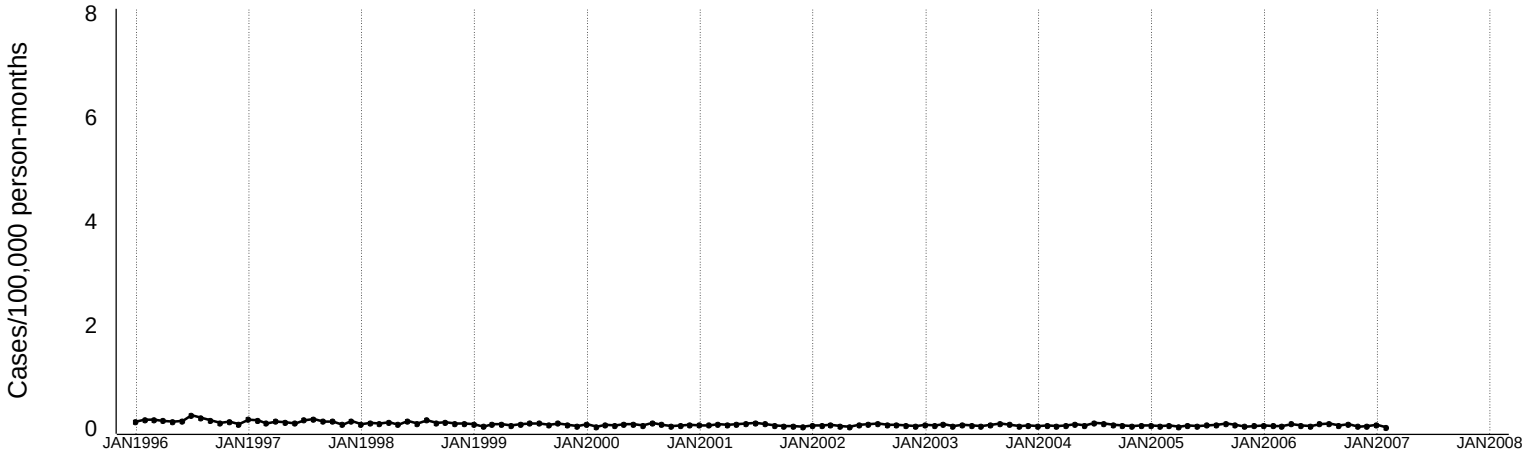
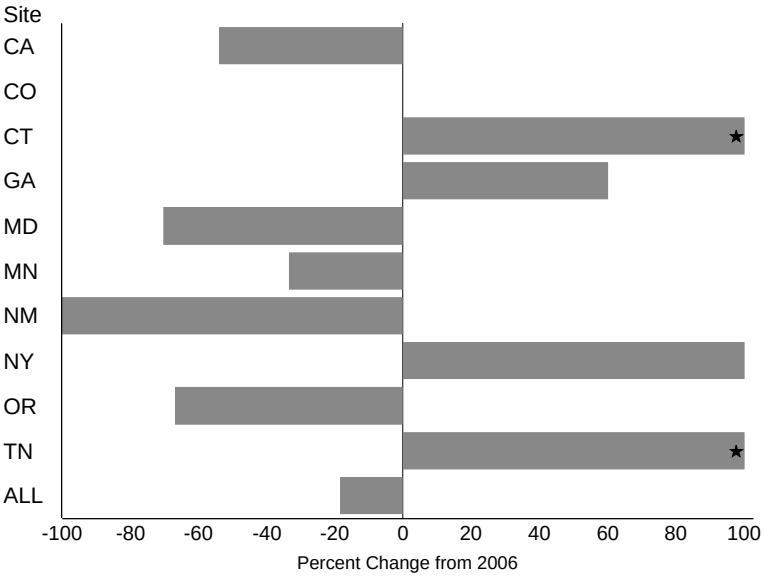
Shigella flexneri

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



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

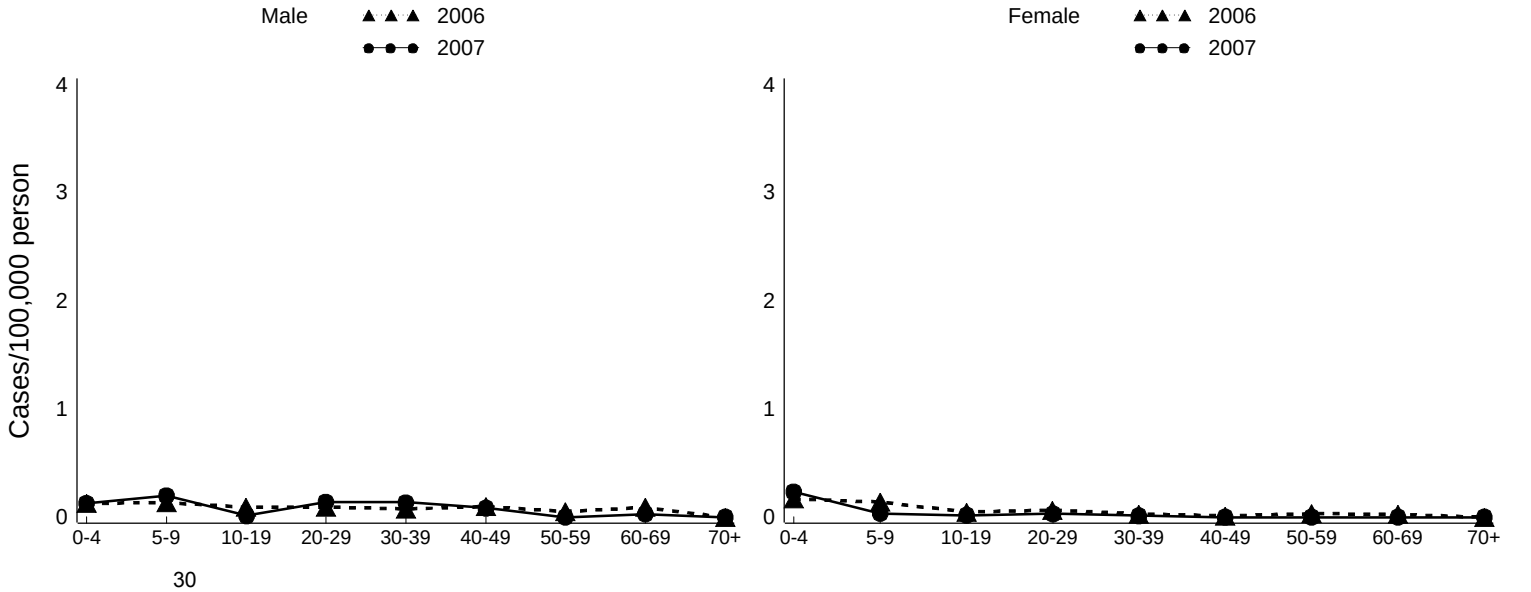


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	6	0.187	13	0.405	18	0.561
CO	3	0.116	3	0.116	4	0.157
CT	4	0.114	1	0.028	1	0.040
GA	16	0.176	10	0.110	13	0.142
MD	3	0.054	10	0.179	6	0.101
MN	4	0.078	6	0.117	4	0.078
NM	0	0.000	4	0.207	4	0.208
NY	2	0.046	1	0.023	2	0.041
OR	3	0.082	9	0.247	6	0.178
TN	8	0.134	3	0.050	2	0.048
ALL	49	0.109	60	0.133	60	0.136

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

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



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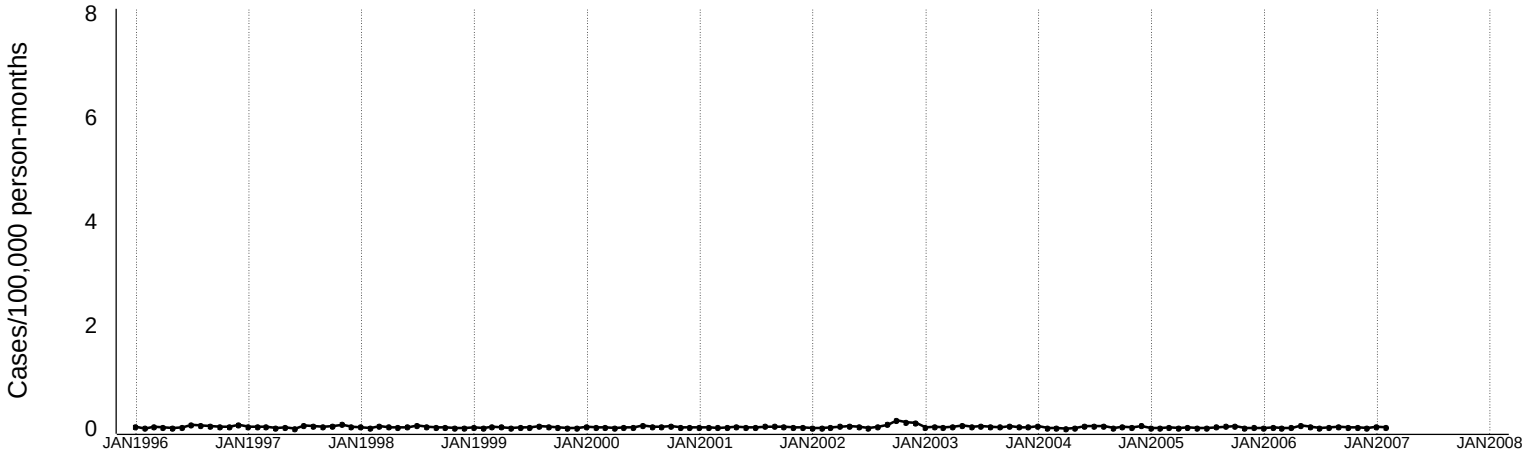
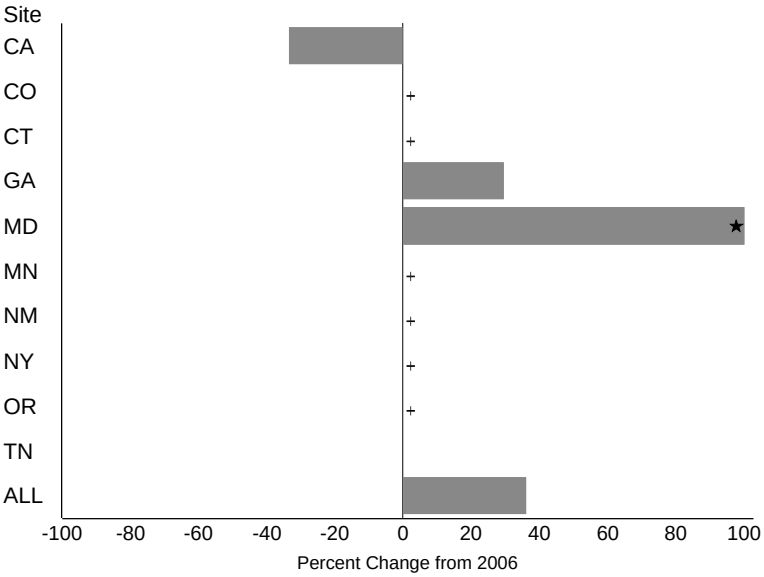
Shigella, all others

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



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

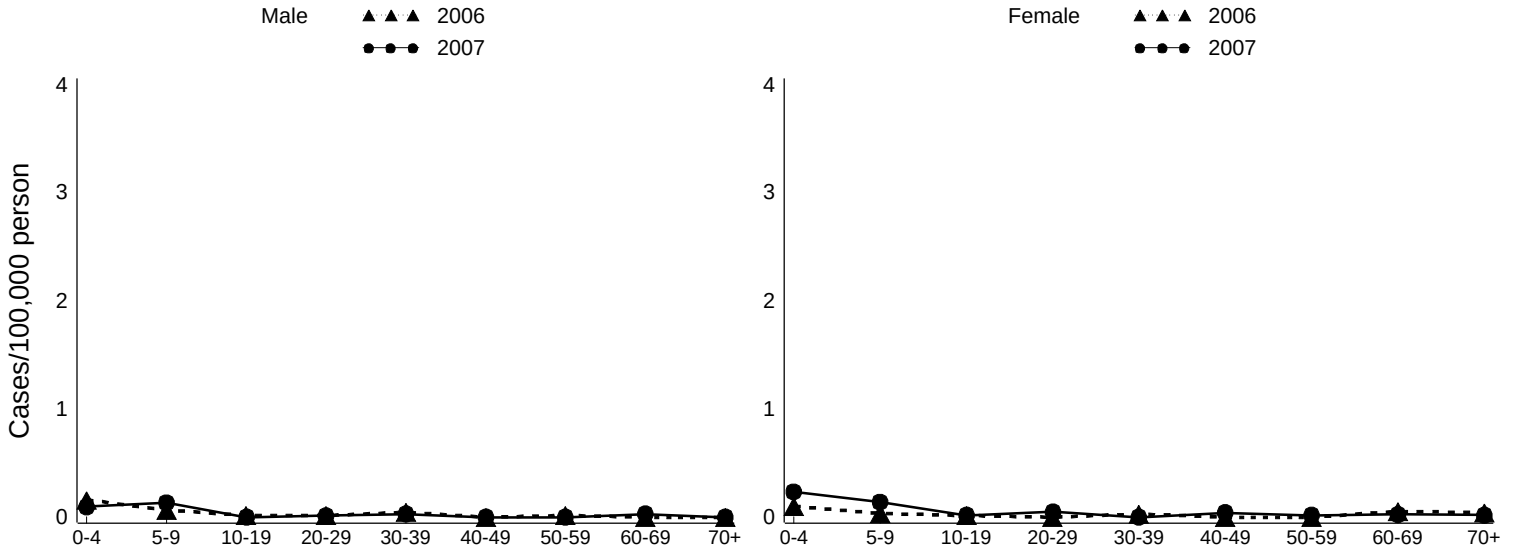


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	2	0.062	3	0.094	4	0.112
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	0	0.000	1	0.023
GA	22	0.242	17	0.187	14	0.153
MD	3	0.054	1	0.018	1	0.011
MN	0	0.000	0	0.000	0	0.004
NM	1	0.052	0	0.000	0	0.018
NY	2	0.046	0	0.000	0	0.000
OR	0	0.000	0	0.000	0	0.000
TN	4	0.067	4	0.067	5	0.089
ALL	34	0.076	25	0.056	24	0.055

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

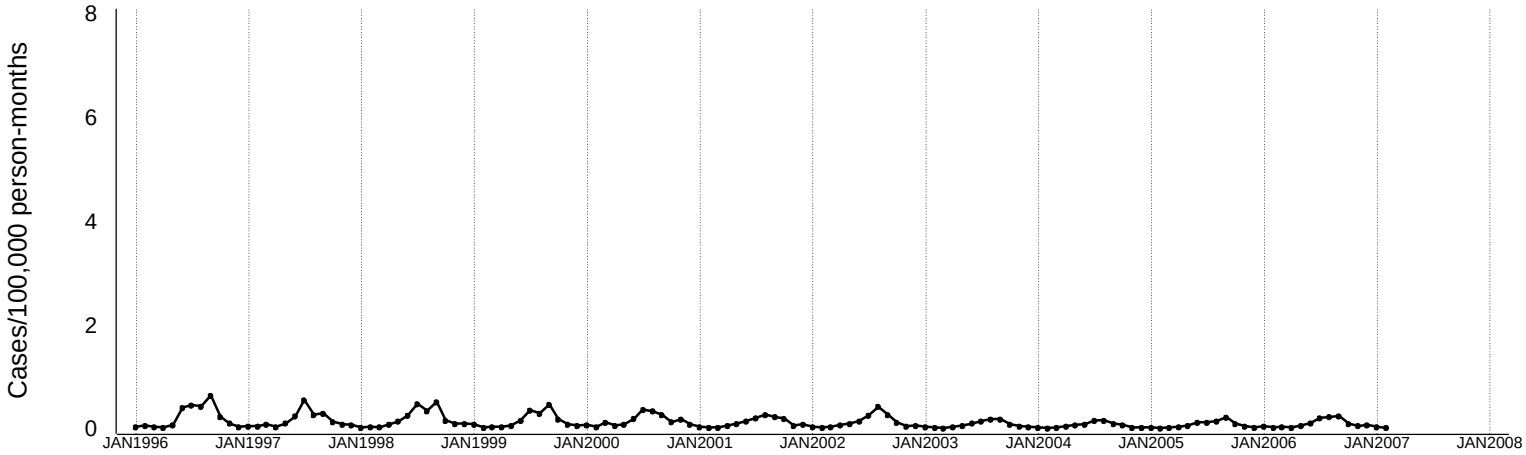
Calendar year through February: Rates for 2006 and 2007 by age group and sex



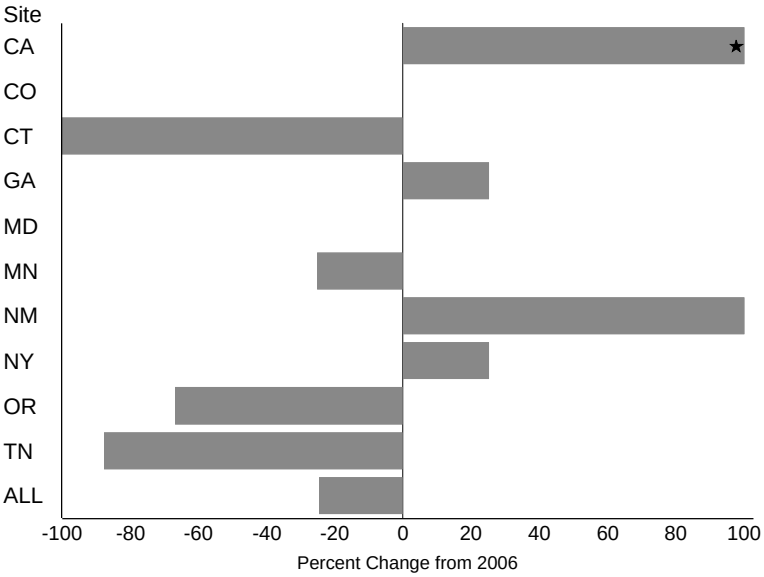
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 30-April-2007

STEC O157

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



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

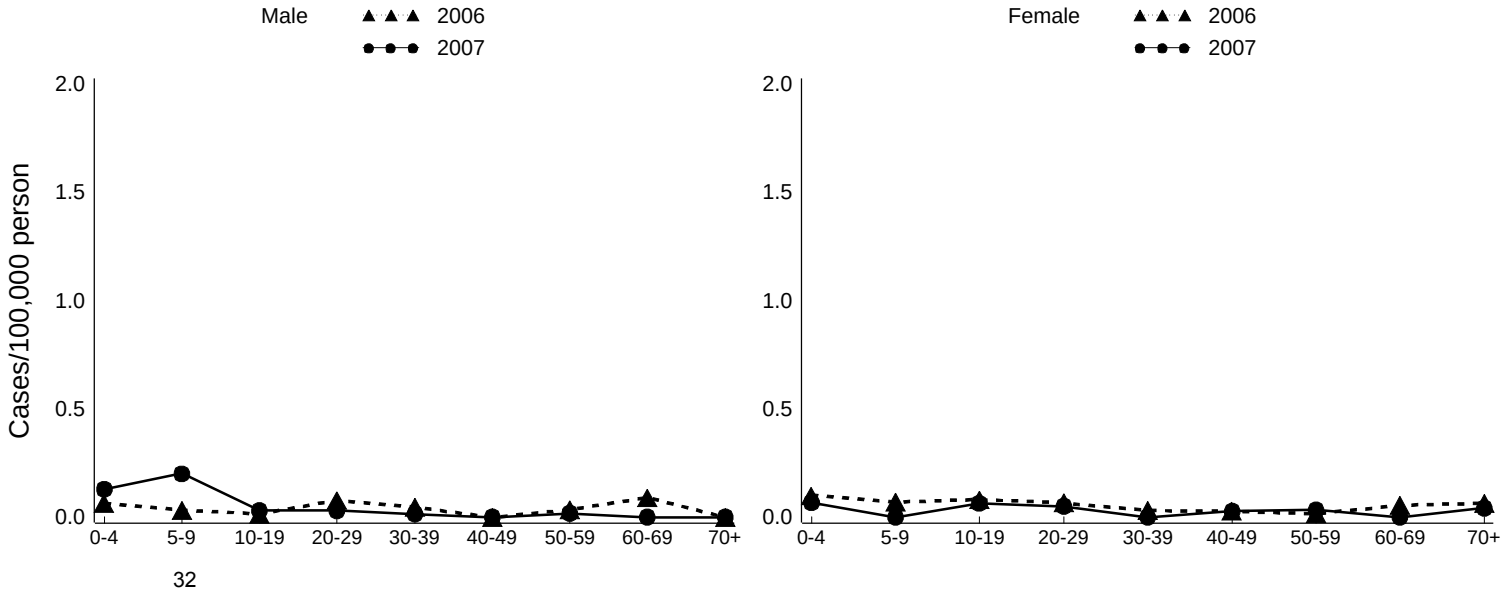


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	4	0.125	1	0.031	1	0.037
CO	2	0.077	2	0.077	2	0.086
CT	0	0.000	2	0.057	4	0.120
GA	5	0.055	4	0.044	4	0.041
MD	1	0.018	1	0.018	1	0.011
MN	9	0.175	12	0.234	8	0.153
NM	2	0.104	1	0.052	0	0.017
NY	5	0.116	4	0.093	4	0.091
OR	2	0.055	6	0.165	2	0.050
TN	1	0.017	8	0.134	4	0.075
ALL	31	0.069	41	0.091	29	0.068

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

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



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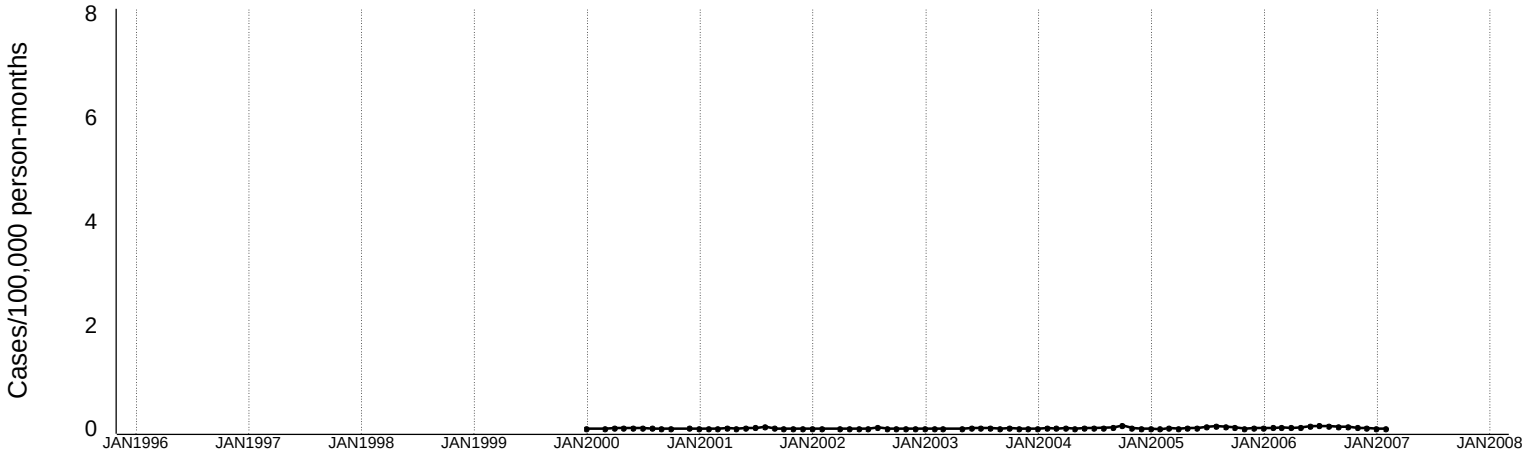
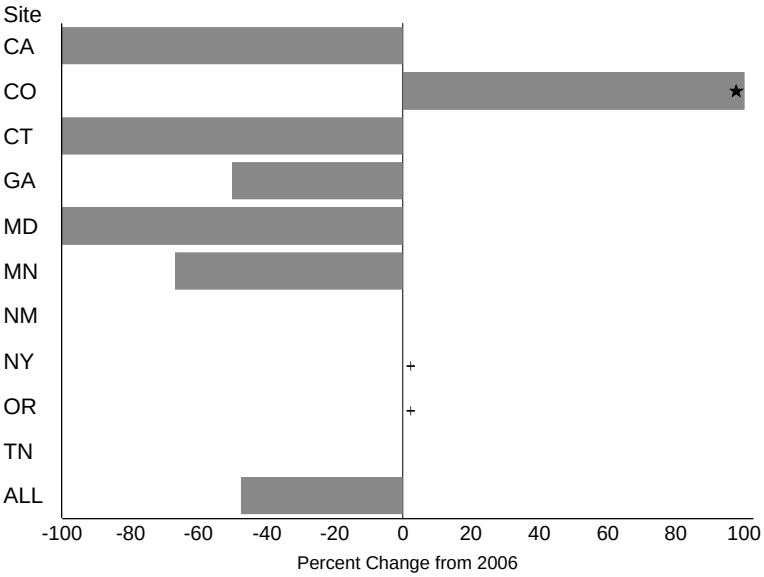
STEC Non-O157

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



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

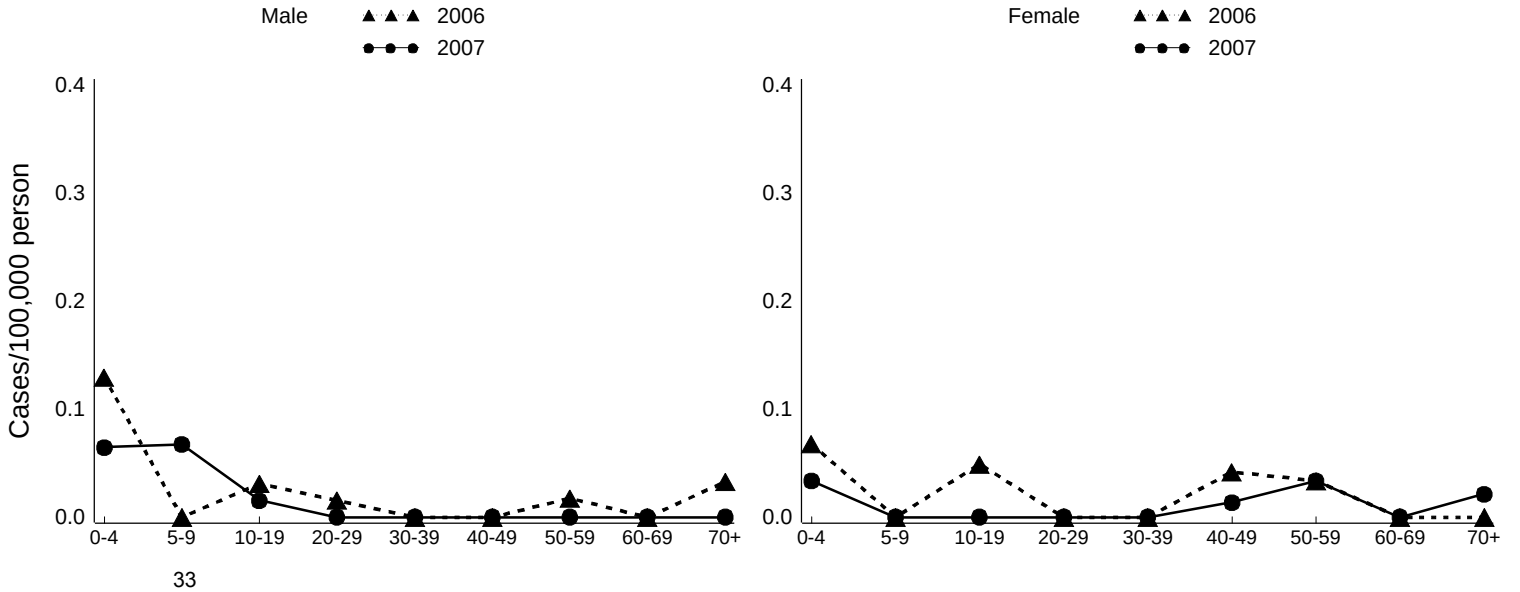


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	1	0.031	0	0.006
CO	4	0.155	1	0.039	0	0.016
CT	0	0.000	4	0.114	2	0.063
GA	1	0.011	2	0.022	1	0.011
MD	0	0.000	3	0.054	1	0.014
MN	2	0.039	6	0.117	2	0.035
NM	1	0.052	1	0.052	1	0.069
NY	1	0.023	0	0.000	0	0.010
OR	0	0.000	0	0.000	0	0.011
TN	1	0.017	1	0.017	0	0.003
ALL	10	0.022	19	0.042	9	0.019

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

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

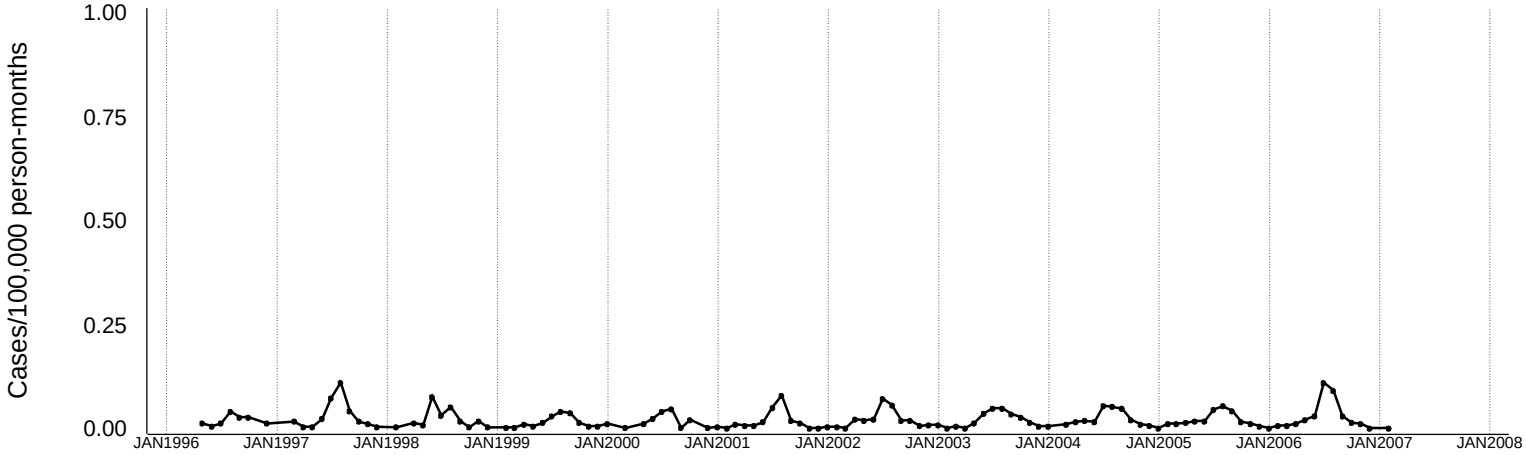


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

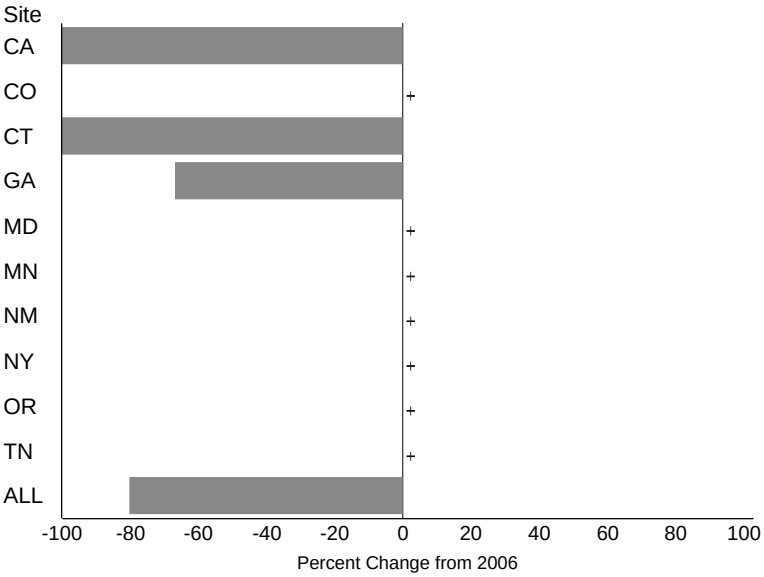
Report date: 30-April-2007

Vibrio, all species

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



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

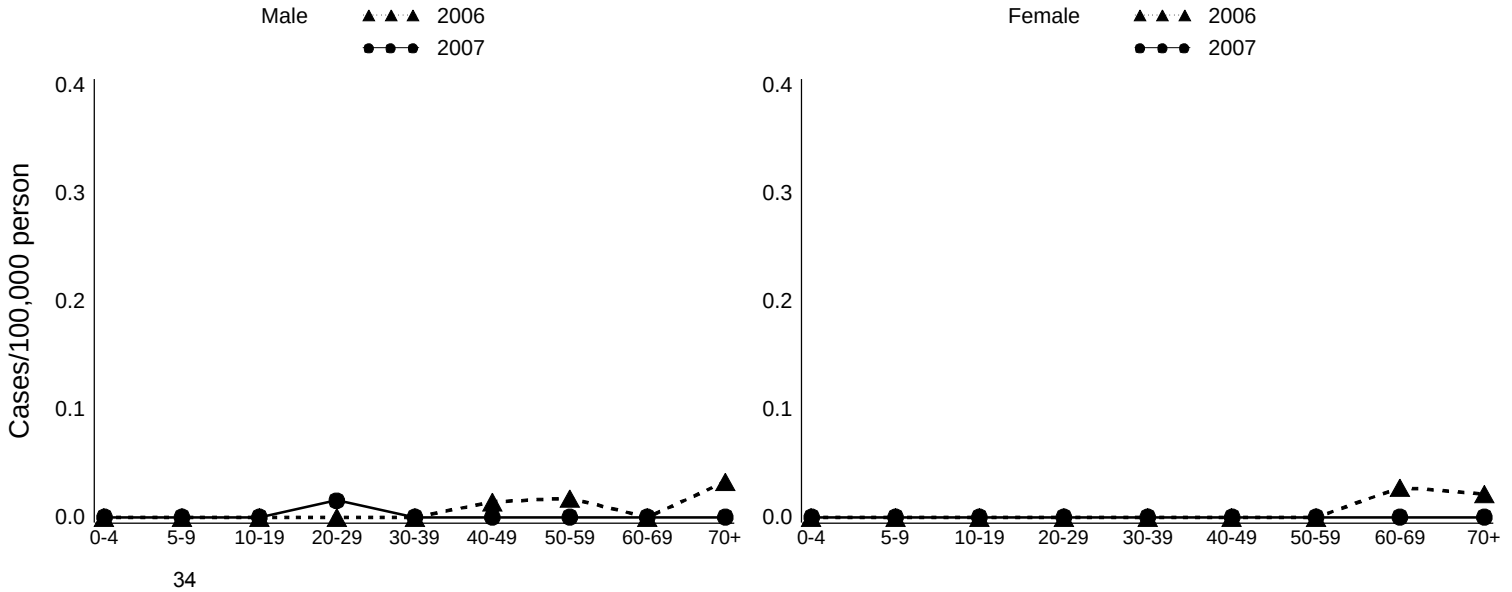


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	1	0.031	1	0.031
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	1	0.028	1	0.017
GA	1	0.011	3	0.033	1	0.016
MD	0	0.000	0	0.000	0	0.004
MN	0	0.000	0	0.000	0	0.008
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	0	0.000	0	0.011
OR	0	0.000	0	0.000	0	0.011
TN	0	0.000	0	0.000	0	0.007
ALL	1	0.002	5	0.011	5	0.011

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

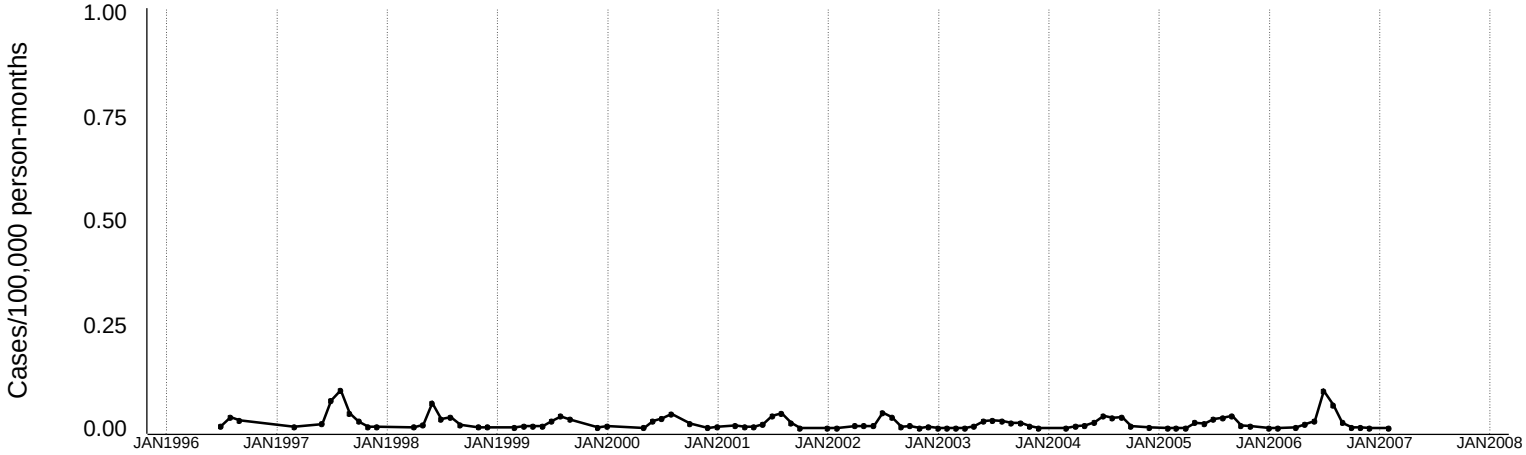
Calendar year through February: Rates for 2006 and 2007 by age group and sex



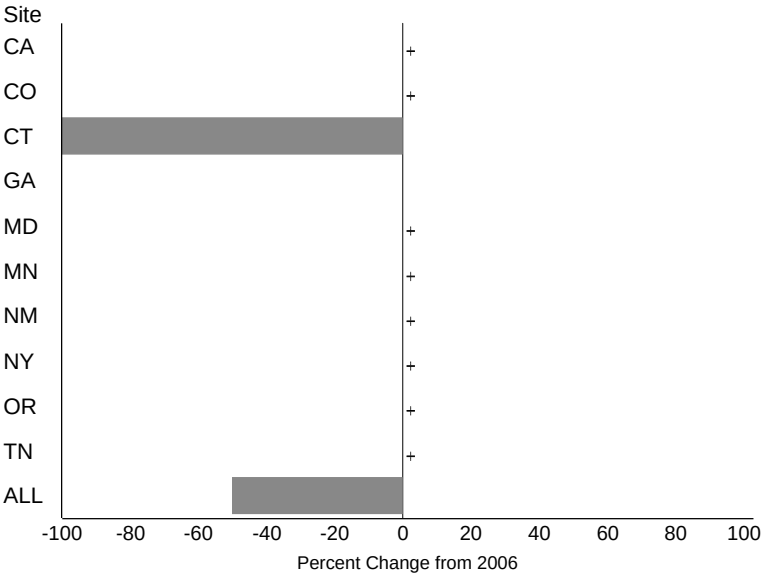
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 30-April-2007

Vibrio parahaemolyticus

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



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

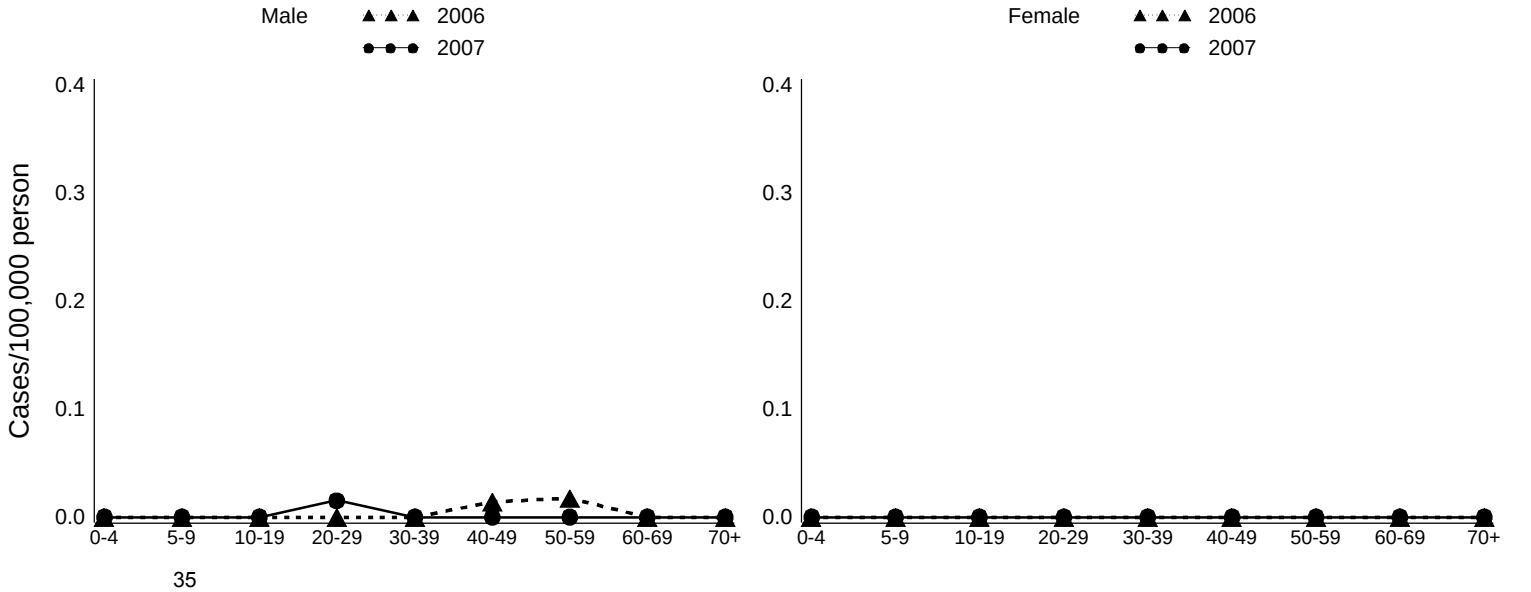


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	0	0.000	0	0.012
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	1	0.028	0	0.006
GA	1	0.011	1	0.011	0	0.002
MD	0	0.000	0	0.000	0	0.000
MN	0	0.000	0	0.000	0	0.004
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	0	0.000	0	0.005
OR	0	0.000	0	0.000	0	0.006
TN	0	0.000	0	0.000	0	0.000
ALL	1	0.002	2	0.004	1	0.003

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

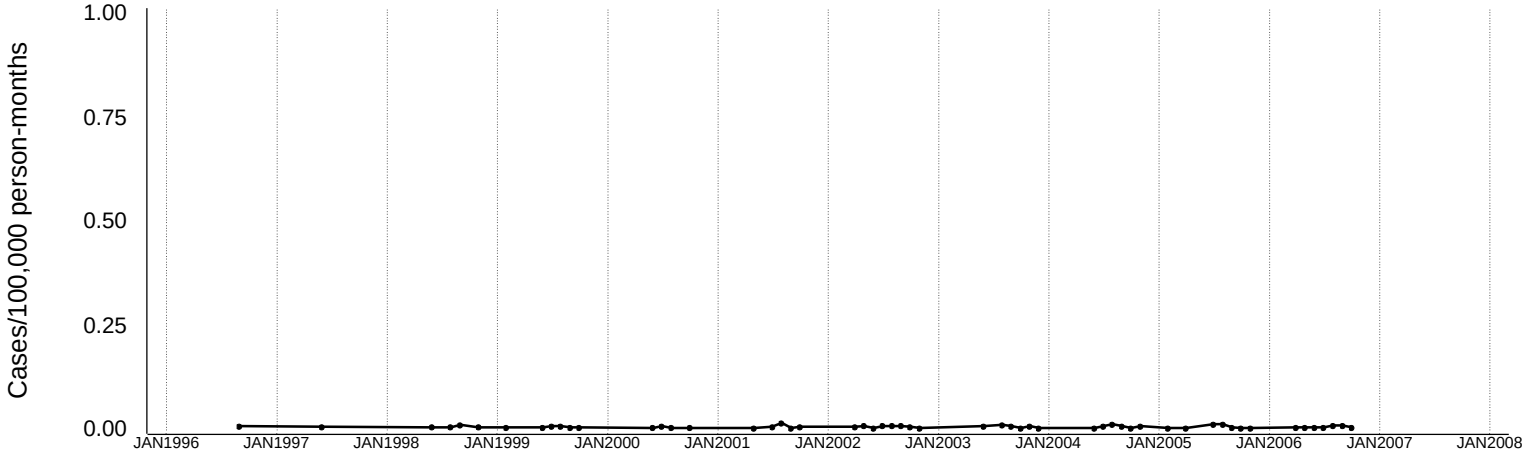
Calendar year through February: Rates for 2006 and 2007 by age group and sex



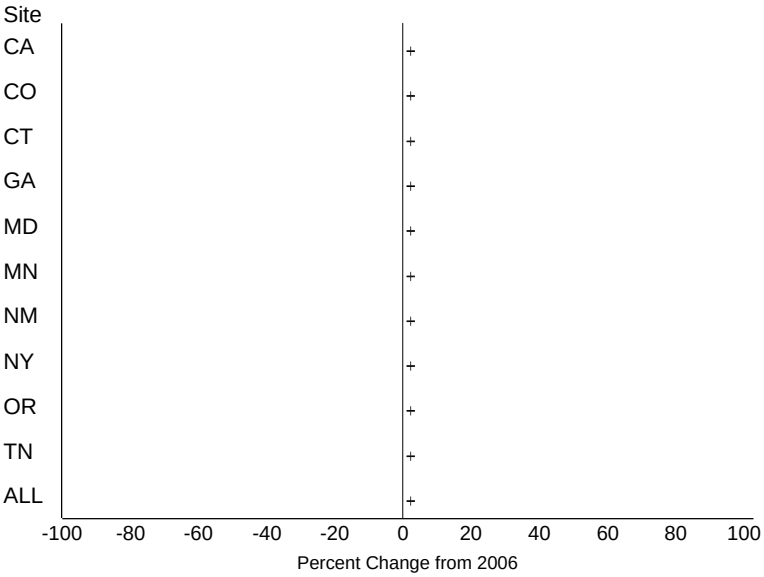
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 30-April-2007

Vibrio vulnificus

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



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

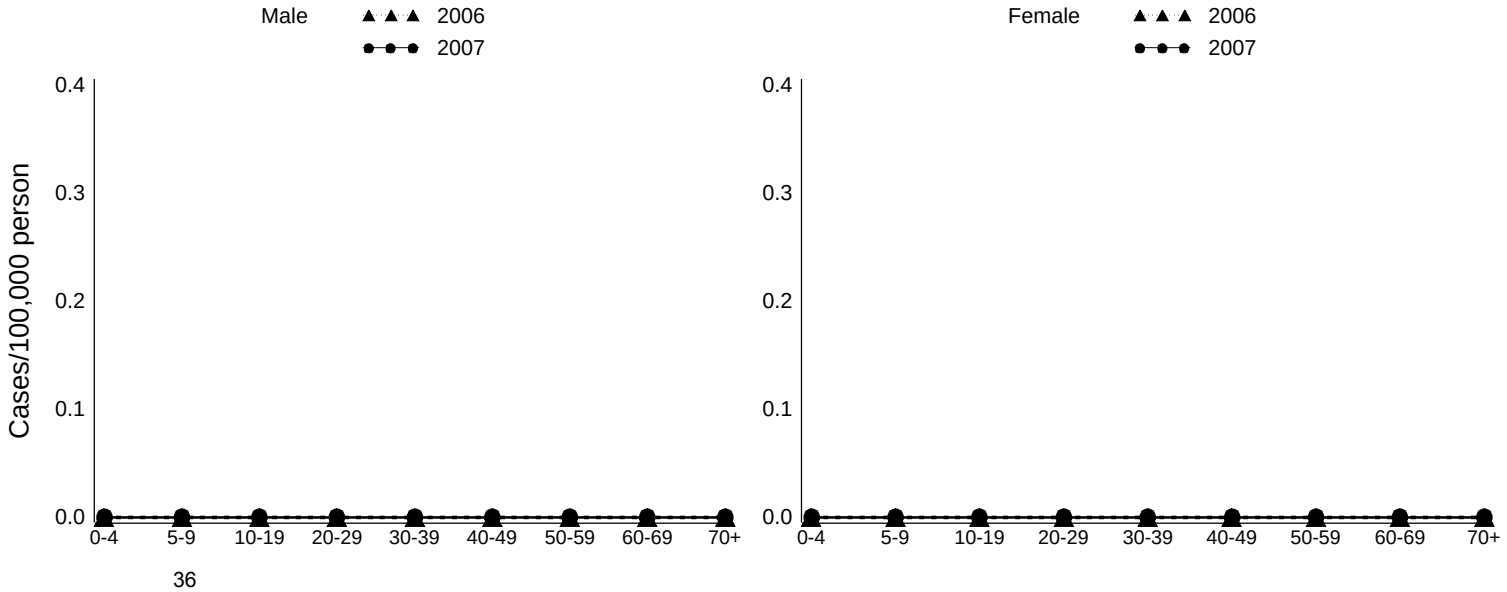


	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	0	0.000	0	0.000	0	0.000
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	0	0.000	0	0.000
GA	0	0.000	0	0.000	0	0.000
MD	0	0.000	0	0.000	0	0.000
MN	0	0.000	0	0.000	0	0.004
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	0	0.000	0	0.000
OR	0	0.000	0	0.000	0	0.000
TN	0	0.000	0	0.000	0	0.000
ALL	0	0.000	0	0.000	0	0.000

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

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

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



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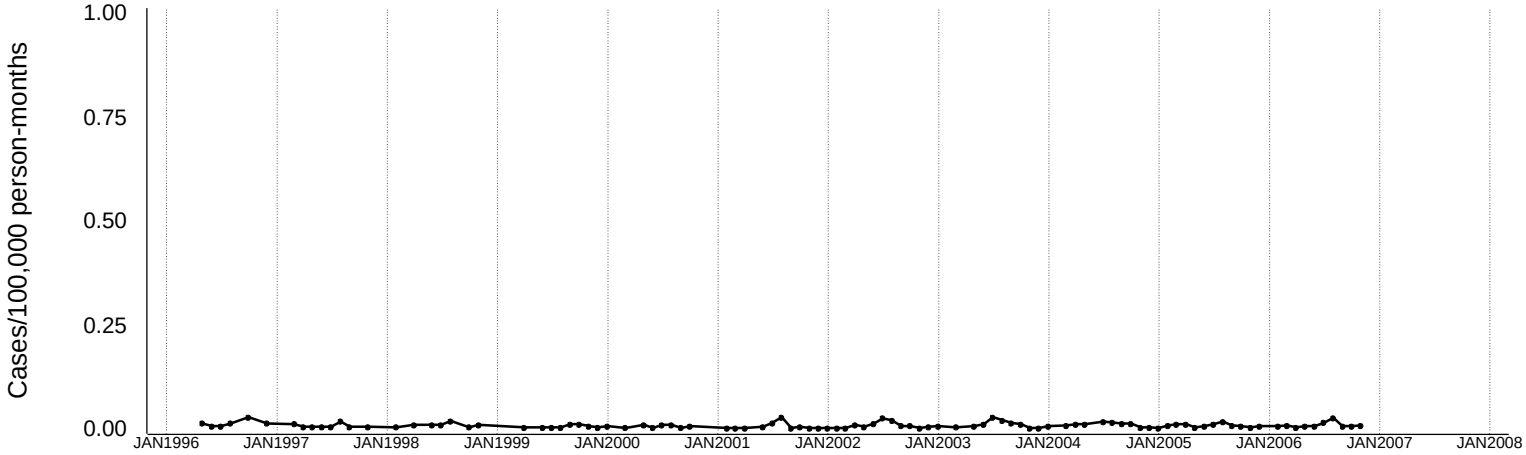
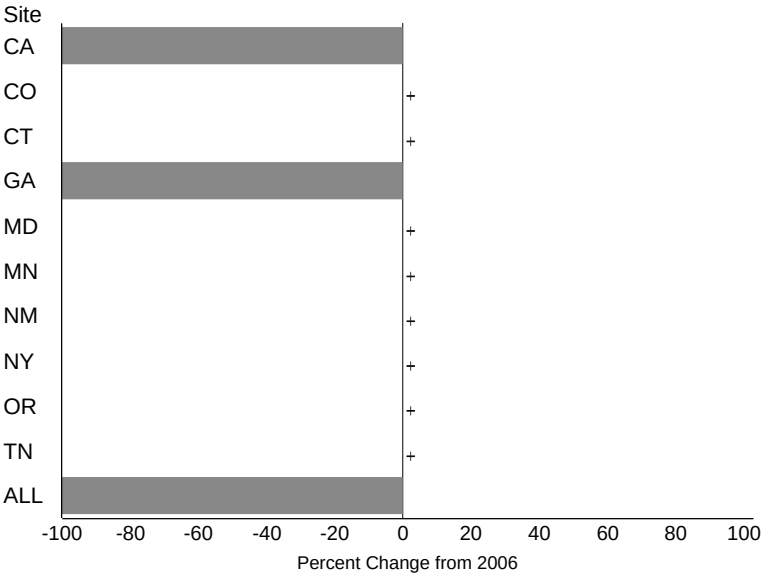
Vibrio, all others

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



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

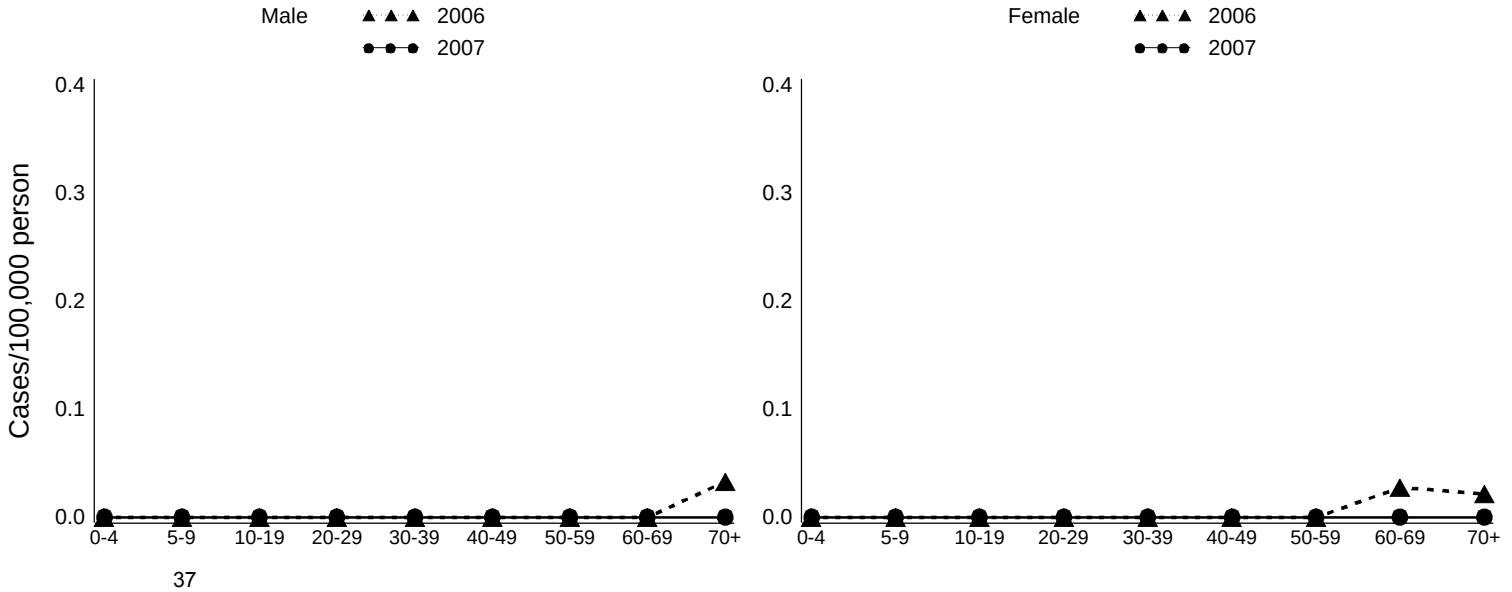


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	0	0.000	1	0.031	1	0.019
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	0	0.000	0	0.011
GA	0	0.000	2	0.022	1	0.013
MD	0	0.000	0	0.000	0	0.004
MN	0	0.000	0	0.000	0	0.000
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	0	0.000	0	0.006
OR	0	0.000	0	0.000	0	0.006
TN	0	0.000	0	0.000	0	0.007
ALL	0	0.000	3	0.007	3	0.007

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

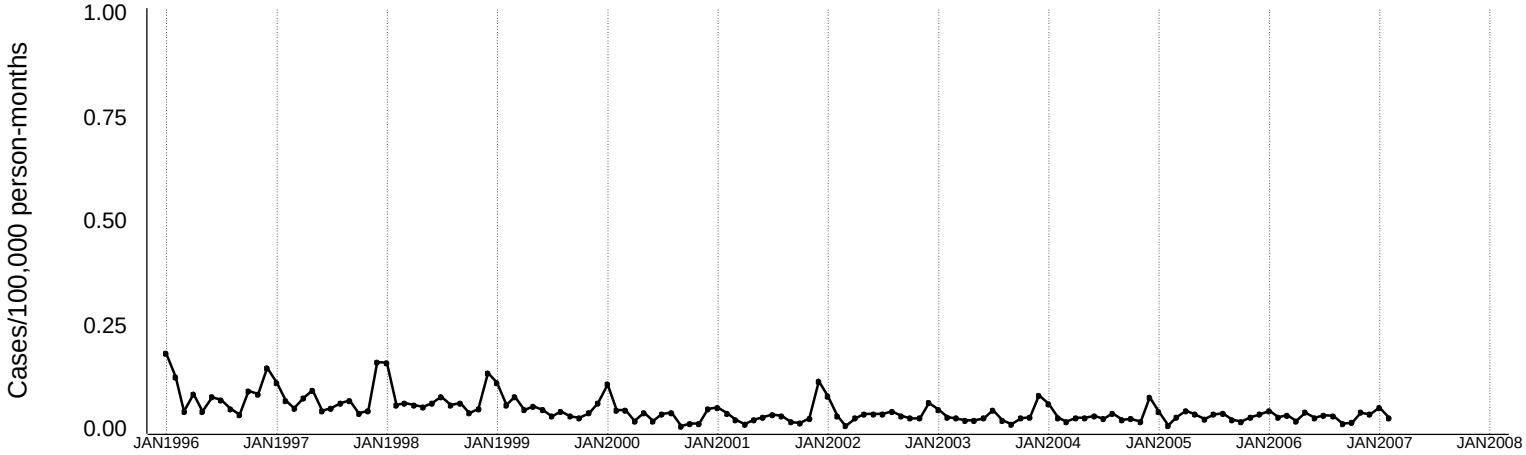
Calendar year through February: Rates for 2006 and 2007 by age group and sex



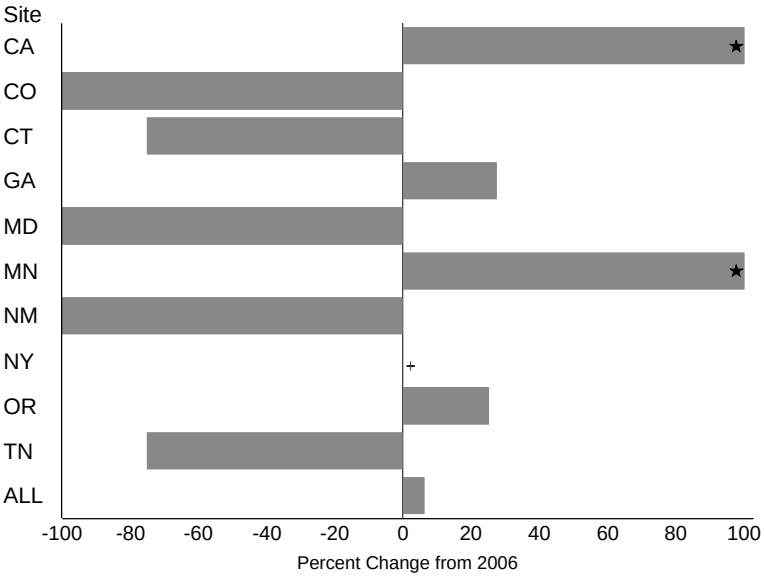
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 30-April-2007

Yersinia

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



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

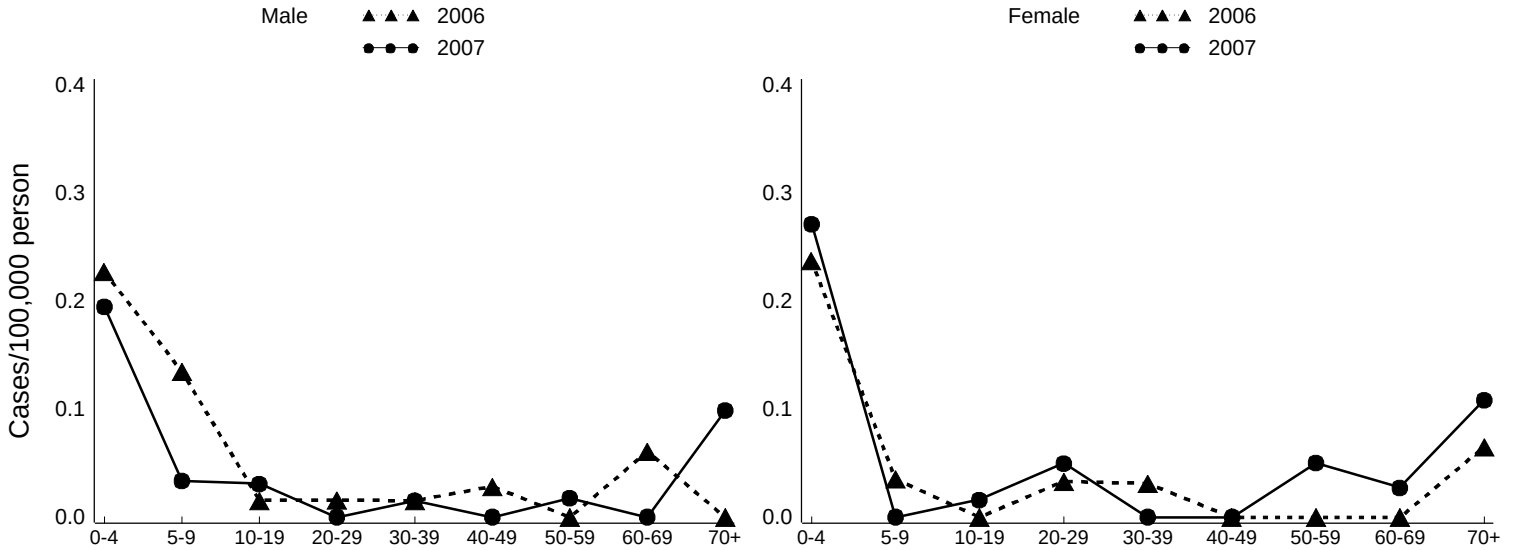


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	5	0.156	1	0.031	4	0.118
CO	0	0.000	2	0.077	1	0.031
CT	1	0.028	4	0.114	2	0.051
GA	14	0.154	11	0.121	13	0.152
MD	0	0.000	3	0.054	2	0.033
MN	7	0.136	3	0.058	2	0.047
NM	0	0.000	1	0.052	0	0.017
NY	2	0.046	0	0.000	2	0.049
OR	5	0.137	4	0.110	2	0.066
TN	1	0.017	4	0.067	5	0.117
ALL	35	0.078	33	0.073	34	0.080

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

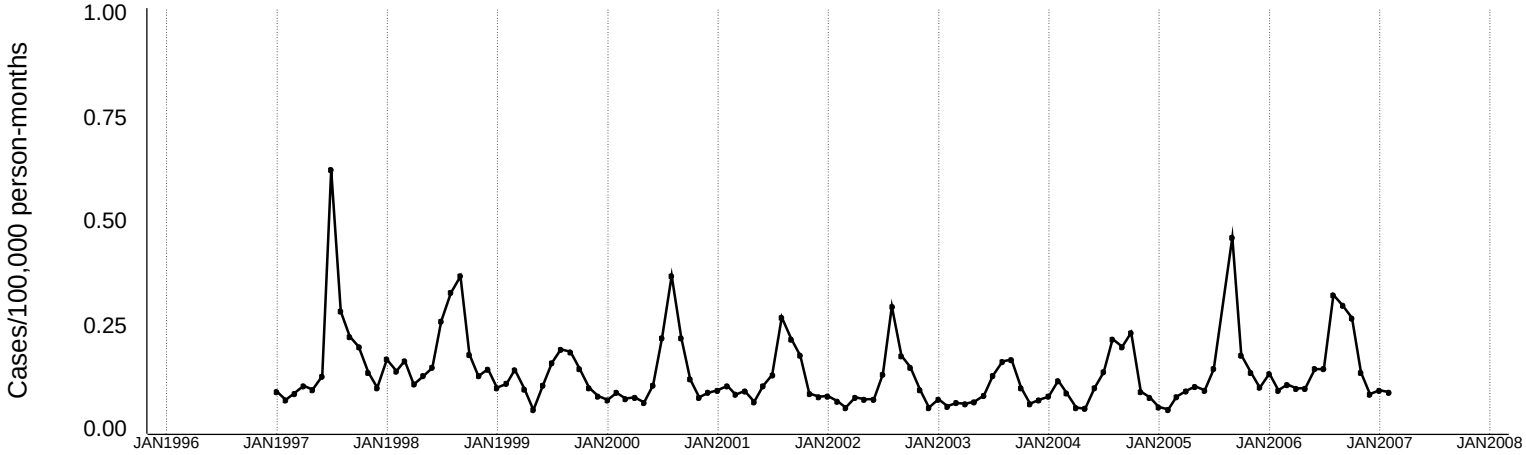
Calendar year through February: Rates for 2006 and 2007 by age group and sex



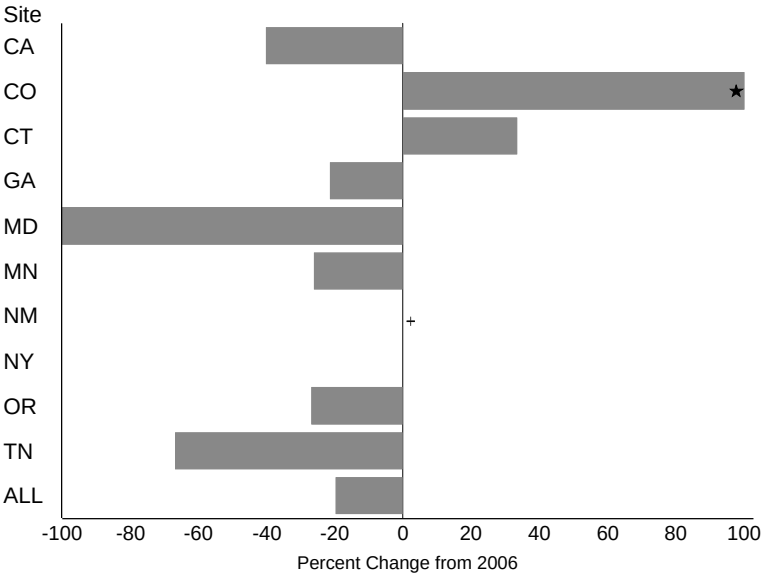
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 30-April-2007

Cryptosporidium

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



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

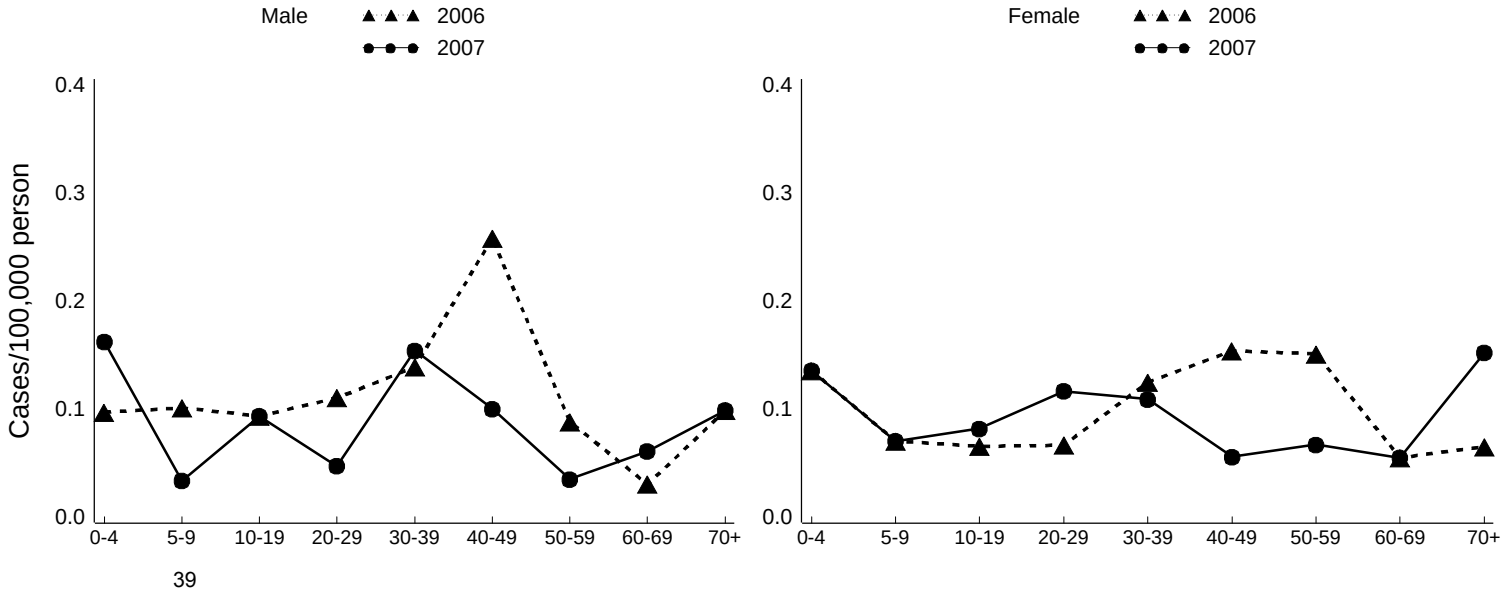


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	6	0.187	10	0.312	8	0.217
CO	3	0.116	1	0.039	2	0.071
CT	4	0.114	3	0.085	3	0.080
GA	26	0.287	33	0.364	22	0.250
MD	0	0.000	7	0.125	4	0.065
MN	20	0.390	27	0.526	15	0.294
NM	8	0.415	0	0.000	1	0.052
NY	3	0.070	3	0.070	4	0.089
OR	11	0.302	15	0.412	6	0.178
TN	1	0.017	3	0.050	5	0.103
ALL	82	0.182	102	0.227	70	0.159

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

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

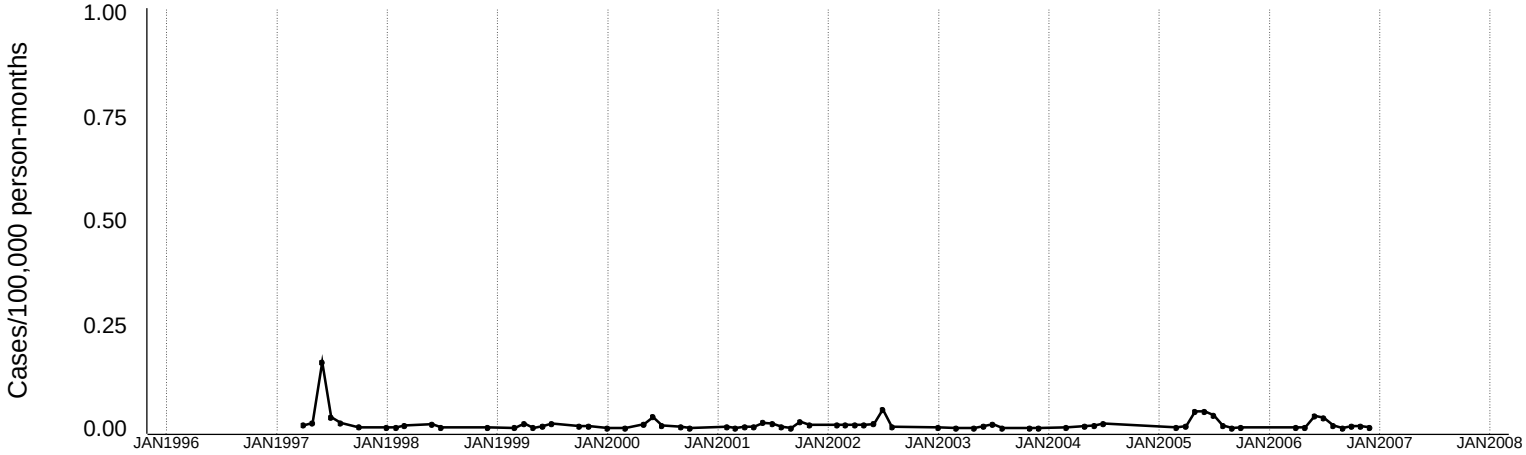


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

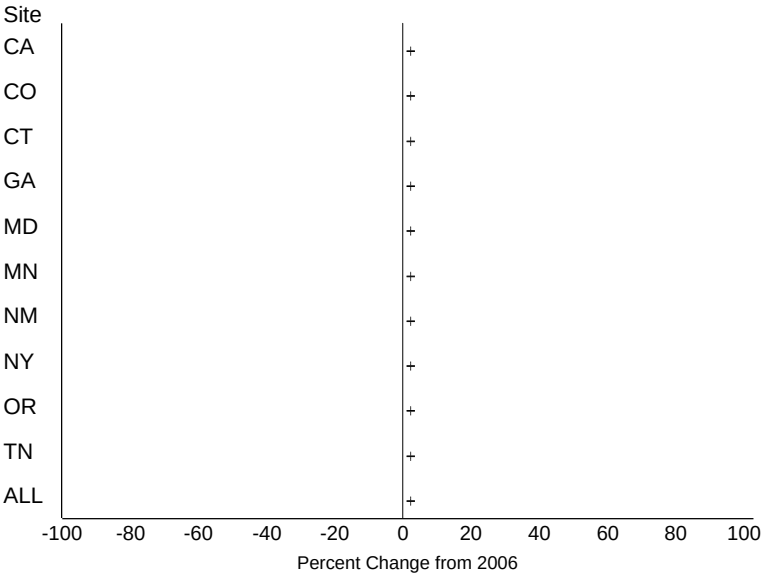
Report date: 30-April-2007

Cyclospora

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



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



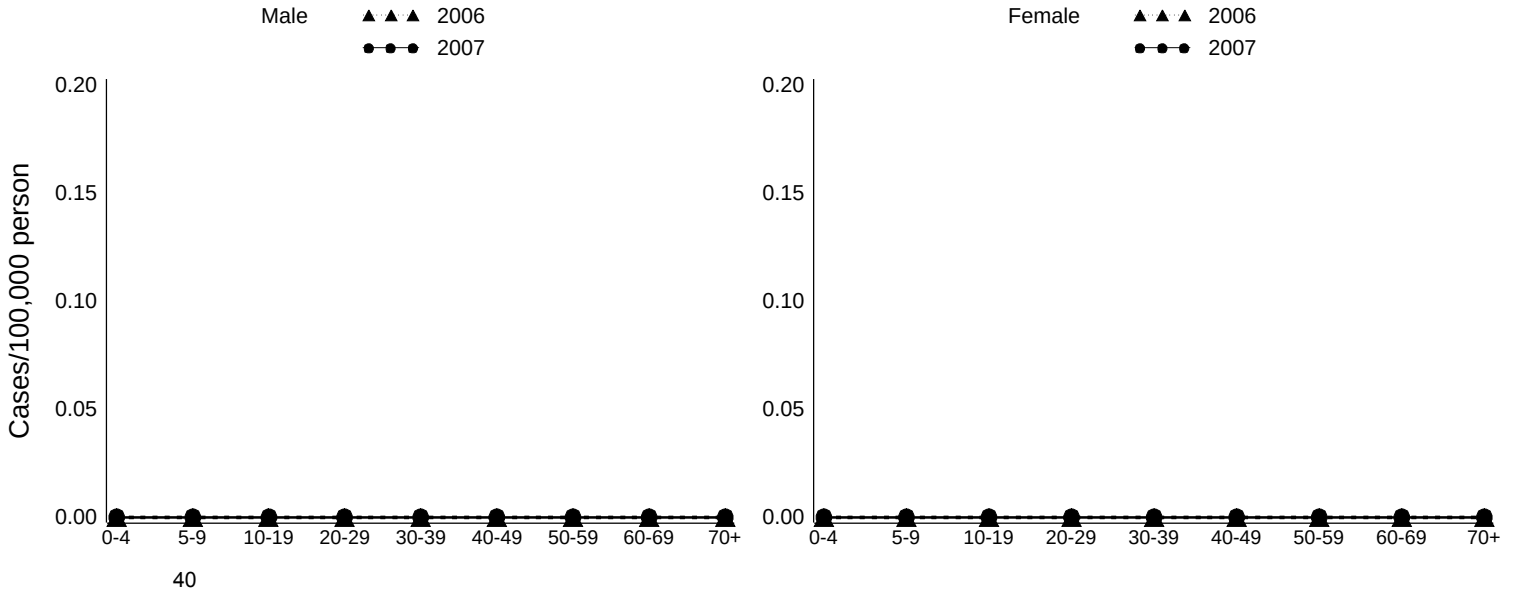
	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	0	0.000	0	0.000	0	0.000
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	0	0.000	0	0.000
GA	0	0.000	0	0.000	1	0.014
MD	0	0.000	0	0.000	0	0.000
MN	0	0.000	0	0.000	0	0.000
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	0	0.000	0	0.000
OR	0	0.000	0	0.000	0	0.000
TN	0	0.000	0	0.000	0	0.000
ALL	0	0.000	0	0.000	1	0.003

*year 2002-2006 except for NM (2004-2006)

^cases/100,000 person

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

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



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

Report date: 30-April-2007

Table 1. Summary of Foodborne Outbreaks with ≥ 2 ill, by FoodNet Site, 2006

(Data accessed may 2nd, 2007 (eFORS 2) PRELIMINARY DATA)

	Outbreaks reported	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Etiology (confirmed and suspected)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
CA	16	4.99	15	13 (81)	Norovirus (6), *Salmonella* (1), Chemical(1) Other Bacterial(1), *Bacillus* (1), Scrombroid (1) *V. parahaemolyticus*(1), *C. perfringens* (1)	7 (44)	10 (63)
CO	29	11.21	13	26 (90)	*Campylobacter* (3) ,Norovirus (18) *Salmonella* (2), Scrombroid (2), *Staph. aureus* (1)	13 (45)	15 (52)
CT	19	5.41	15	18 (95)	Norovirus (12), *C. perfringens* (1) *Salmonella* (4), STEC O157:H7 (1)	14 (74)	12 (63)
GA	23	2.54	19	20 (87)	Norovirus (8), *Staph. aureus* (3) *Bacillus* (1), *C. perfringens* (2) *Salmonella* (4) *Cyclospora* (1) C. botulinum (1)	13 (57)	14 (61)
MD	33	5.89	11	15 (45)	*Salmonella* (4), *Staph. aureus* (1), Norovirus (9), STEC O157:H7 (1)	16 (48)	20 (61)
MN	83	16.17	15	78 (94)	*C. perfringens* (4), Norovirus (53) Scrombroid (5), Salmonella (9), STEC O157:H7 (3), *Cyclospora* (1) *Staph.* aureus(1), *Listeria* (1) *Shigella* (1)	46 (55)	64 (77)
NM	2	1.04	85	2 (100)	Norovirus (1), E. coli O157:H7 (1)	1 (50)	0 (-)
NY	25	5.80	15	21 (84)	*Salmonella* (8), Norovirus(4), *Staph. aureus* (1), STEC O157:H7 (3), *C. perfringens* (3), Scromboid toxin (1), *V.* parahaemolyticus(1),	16 (64)	15 (60)
OR	27	7.42	13	26 (96)	Norovirus (18), *Shigella sonnei* (1) *Salmonella* (3), *Listeria* (1) *V. parahaemolyticus*(1), STEC O157:H7 (1) *Campylobacter* (1)	11 (41)	16 (59)
TN	33	5.53	16	24 (72)	Norovirus (13), *Salmonella* (6) E. coli O157:H7 (2) *Staph.* aureus (1), Scrombroid (1), Bacillus cereus (1)	13 (39)	21 (66)
Total	**290**	**6.45**	**22**	**243 (84)**		**153(53)**	**187 (65)**

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

*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

Table 2. Summary of Foodborne Outbreaks with ≥10 ill, by FoodNet Site, 2006

*** Data accessed May 2nd 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	10	3,206,118	3.12	22	7 (70)	4 (40)	5 (50)
CO	14	2,586,568	5.41	22	13 (93)	6 (43)	10 (71)
CT	9	3,510,297	2.56	25	8 (89)	7 (78)	6 (67)
GA	12	9,072,576	1.32	34	11 (92)	6(50)	6 (50)
MD	11	5,600,388	1.96	23	6 (55)	5 (45)	5 (45)
MN	40	5,132,799	7.79	25	38 (95)	27 (68)	26 (65)
NM	1	1,928,384	0.52	164	1 (100)	0 (-)	0 (-)
NY	14	4,307,911	3.25	22	10(71)	12 (88)	7 (50)
OR	14	3,641,056	3.85	20	14 (100)	7 (50)	9 (64)
TN	18	5,962,959	3.02	26	16 (89)	8 (44)	8 (44)
2006 Total	**143**	**44,949,056**	**3.18**	**38**	**124 (87)**	**82 (57)**	**82 (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

Table 1. Summary of Foodborne Outbreaks with ≥ 2 ill, by FoodNet Site, 2007

(Data accessed May 2nd, 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	1	3,206,118	0.31	8	1 (100)	Bacillus Cerus/ Clostridium perfringens(1)	1 (100)	1(100)
CO	3	2,586,568	1.16	12	2 (100)	Norovirus(2)	1 (33)	2 (67)
CT	5	3,510,297	1.42	11	4 (80)	Norovirus (4)	4 (80)	5(100)
GA	7	9,072,576	0.77	26	5 (71)	Clostridium perfringens(1), Norovirus(3), *Salmonella*(1)	5(71)	2 (29)
MD	8	5,600,388	1.43	22	1 (38)	Norovirus(3)	5(63)	4 (50)
MN	9	5,132,799	1.75	11	7 (77)	Hep A(1), Norovirus(4), Clostridium perfringens(1), *Salmonella*(1)	1 (11)	6 (67)
NM	0	1,928,384	0.00	-	- (-)		- (-)	-(-)
NY	4	4,307,911	0.93	16	1(25)	Norovirus(1)	4 (100)	1 (25)
OR	4	3,641,056	1.10	37	4 (100)	Clostridium perfringens (1), Norovirus (3)	- (-)	1(25)
TN	13	5,962,959	2.18	11	12 (92)	Norovirus (8) *Salmonella*(3), Bacillus Cerus(1)	6 (46)	10 (77)
Total	**54**	**44,949,056**	**1.20**	**17**	**40 (75)**		**27 (50)**	**32 (59)**

*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

*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

HUS Surveillance, 2006 Table A

as of 5/1/07

	All cases (N=127)												In catchment (N=99)											
	<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	
Site	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	0	--	15	1 (7)	5	0 (0)	1	0 (0)	2	1 (50)	0	--	0	0.0	5	2.9	2	1.0	0	0.0	2	0.1	0	0.0
CO	4	1(25)	10	0 (0)	1	0 (0)	1	0 (0)	0	--	0	--	0	0.0	5	3.1	0	0.0	0	0.0	0	0.0	0	0.0
CT	0	--	3	0 (0)	1	0 (0)	1	0 (0)	0	--	0	--	0	0.0	3	1.8	1	0.4	1	0.4	0	0.0	0	0.0
GA	1	0 (0)	6	0 (0)	1	0(0)	0	--	2	0 (0)	0	--	1	0.7	6	1.1	1	0.2	0	0.0	2	0.0	0	0.0
MD	0	--	3	0 (0)	0	--	0	--	0	--	1	1 (100)	0	0.0	3	1.0	0	0.0	0	0.0	0	0.0	1	0.1
MN	0	--	9	0(0)	3	0 (0)	1	--	3	0 (0)	3	1 (50)	0	0.0	9	3.4	3	0.9	1	0.3	3	0.1	3	0.4
NM	0	--	4	0 (0)	0	--	1	--	0	--	0	--	0	0.0	4	3.7	0	0.0	1	0.7	0	0.0	0	0.0
NY	0	--	0	--	1	0 (0)	1	0 (0)	2	1 (50)	1	--	0	0.0	0	0.0	1	0.4	1	0.3	2	0.1	1	0.1
OR	0	--	5	0 (0)	0	--	2	0 (0)	3	0 (0)	0	0 (0)	0	0.0	5	2.8	0	0.0	2	0.8	3	0.1	0	0.0
TN	2	0(0)	19	0(0)	4	0(0)	3	0 (0)	2	0 (0)	0	--	1	1.3	19	6.2	3	0.8	3	0.8	1	0.0	0	0.0
Total	**7**	**1(14)**	**74**	**1 (1)**	**16**	**0 (0)**	**11**	**0 (0)**	**14**	**2 (14)**	**5**	**2 (40)**	**2**	0.30	**59**	2.45	**11**	0.38	**9**	0.29	**13**	0.05	**5**	0.1

*per 100,000 persons

Results of microbiologic testing for STEC infection among HUS cases, 2006

as of 5/1/07

	Site																							
	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Diarrhea in 3 weeks before HUS diag./ Total patients	21/23	(91)	9/16	(56)	5/5	(100)	10/10	(100)	4/4	(100)	18/19	(95)	4/5	(80)	4/5	(80)	10/10	(100)	30/30	(100)	**115/127**	(91)
Stool specimen obtained/ Patients with diarrhea	21/21	(100)	4/9	(44)	5/5	(100)	10/10	(100)	3/4	(75)	18/18	(100)	4/4	(100)	4/4	(100)	10/10	(100)	27/30	(90)	**106/115**	(92)
E. coli O157 Isolation																						
Stool cultured for E. coli O157/ Patients with stool specimens obtained	21/21	(100)	4/4	(100)	3/5	(60)	10/10	(100)	3/3	(100)	18/18	(100)	4/4	(100)	4/4	(100)	10/10	(100)	26/27	(96)	**103/106**	(97)
E. coli O157 isolated from stool/ Patients with stool cultured for O157	16/21	(76)	1/4	(25)	3/3	(100)	6/10	(60)	1/3	(33)	15/18	(83)	3/4	(75)	3/4	(75)	7/10	(70)	17/26	(65)	**72/103**	(70)
Shiga toxin + Questions																						
Stool tested for Shiga toxin/ Patients with stool specimen obtained	17/21	(81)	1/4	(25)	3/5	(60)	10/10	(100)	1/3	(33)	18/18	(100)	4/4	(100)	0/4	(0)	3/10	(30)	9/27	(33)	**66/106**	(62)
Stool Shiga toxin-positive/ Patients with stool tested for Shiga toxin	15/17	(88)	1/1	(100)	1/3	(33)	5/10	(50)	1/1	(100)	14/18	(78)	3/4	(75)	0/0	--	1/3	(33)	9/9	(100)	**50/66**	(76)
Non-O157 Isolation																						
Stool tested for non-O157 STEC/ Patients with stool tested for Shiga toxin	0/17	(0)	1/1	(100)	1/3	(33)	7/10	(70)	1/1	(100)	3/18	(17)	1/4	(25)	0/0	--	0/3	(0)	0/9	(0)	**14/66**	(21)
Non-O157* STEC isolated from stool/ Stool tested for non-O157 STEC	0/0	--	1/1	(100)	0/1	(0)	0/7	(0)	0/1	(0)	1/3	(33)	0/1	(0)	0/0	--	0/0	--	0/0	--	**2/14**	(14)
Serum																						
Serum Tested/ Serum Collected	3/3	(100)	3/3	(100)	3/3	(100)	3/4	(75)	0/0	--	5/5	(100)	1/1	(100)	0/1	(0)	6/7	(86)	13/13	(100)	**37/40**	(93)
O157/Tested	3/3	(100)	3/3	(100)	2/3	--	1/3	(33)	0/0	--	2/5	(40)	0/1	--	0/0	--	6/6	(100)	11/13	(85)	**28/37**	(76)
Non-O157**/Tested	0/3	(0)	0/3	(0)	0/3	(0)	0/3	(0)	0/0	--	0/5	(0)	0/1	(0)	0/0	--	0/6	(0)	0/13	(0)	**0/37**	(0)
Total Stool																						
O157, non-O157 STEC, Shiga toxin +/ Total stool specimens tested	21/21	(100)	4/4	(100)	5/5	(100)	10/10	(100)	3/3	(100)	18/18	(100)	5/5	(100)	5/5	(100)	10/10	(100)	28/29	(97)	**109/110**	(99)

Non-O157 identified:

*Culture:O121 (1), O145 (1)

**Serum

HUS Surveillance, 2007 Table A

as of 5/1/07

	All cases (N=17)												In catchment (N=15)											
	<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	
Site	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	3	0 (0)	1	0 (0)	0	--	0	--	0	--	0	--	2	4.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CO	0	--	0	--	0	--	0	--	0	--	0	--	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CT	0	--	0	--	0	--	0	--	0	--	0	--	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
GA	0	--	0	--	0	--	1	0 (0)	0	--	0	--	0	0.0	0	0.0	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	--	0	--	1	0 (0)	0	--	0	--	1	0 (0)	0	0.0	0	0.0	1	0.3	0	0.0	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)	0	--	0	--	0	--	0	--	1	0 (0)	2	4.3	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
OR	0	--	4	0 (0)	0	--	0	--	1	0 (0)	0	--	0	0.0	4	2.2	0	0.0	0	0.0	1	0.0	0	0.0
TN	0	--	2	0 (0)	0	--	0	--	0	--	0	--	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Total	**5**	**0 (0)**	**7**	**0 (0)**	**1**	**0 (0)**	**1**	**0 (0)**	**1**	**0 (0)**	**2**	**0 (0)**	**4**	0.66	**6**	0.25	**1**	0.03	**1**	0.03	**1**	0.00	**2**	0.03

*per 100,000 persons

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

as of 5/1/07

	Site																							
	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Diarrhea in 3 weeks before HUS diag./	3	(75)	0	--	0	--	1	(100)	0	--	2	(100)	0	--	3	(100)	5	(100)	2	(100)	**16**	(94)
Total patients	4		0		0		1		0		2		0		3		5		2		**17**	
Stool specimen obtained/	3	(100)	0	--	0	--	1	(100)	0	--	2	(100)	0	--	3	(100)	1	(20)	2	(100)	**12**	(75)
Patients with diarrhea	3		0		0		1		0		2		0		3		5		2		**16**	
E. coli O157 Isolation																						
Stool cultured for E. coli O157/	3	(100)	0	--	0	--	1	(100)	0	--	2	(100)	0	--	3	(100)	1	(100)	2	(100)	**12**	(100)
Patients with stool specimens obtained	3		0		0		1		0		2		0		3		1		2		**12**	
E. coli O157 isolated from stool/	1	(33)	0	--	0	--	1	(100)	0	--	0	(0)	0	--	1	(33)	1	(100)	0	(0)	**4**	(33)
Patients with stool cultured for O157	3		0		0		1		0		2		0		3		1		2		**12**	
Shiga toxin + Questions																						
Stool tested for Shiga toxin/	2	(67)	0	--	0	--	1	(100)	0	--	2	(100)	0	--	2	(67)	0	(0)	1	(50)	**8**	(67)
Patients with stool specimen obtained	3		0		0		1		0		2		0		3		1		2		**12**	
Stool Shiga toxin-positive/	1	(50)	0	--	0	--	1	(100)	0	--	0	(0)	0	--	0	(0)	0	--	0	(0)	**2**	(25)
Patients with stool tested for Shiga toxin	2		0		0		1		0		2		0		2		0		1		**8**	
Non-O157 Isolation																						
Stool tested for non-O157 STEC/	0	(0)	0	--	0	--	1	(100)	0	--	0	(0)	0	--	2	(100)	0	--	0	(0)	**3**	(38)
Patients with stool tested for Shiga toxin	2		0		0		1		0		2		0		2		0		1		**8**	
Non-O157* STEC isolated from stool/	0	--	0	--	0	--	0	(0)	0	--	0	--	0	--	0	(0)	0	--	0	--	**0**	(0)
Stool tested for non-O157 STEC	0		0		0		1		0		0		0		2		0		0		**3**	
Serum																						
Serum Tested/	2	(100)	0	--	0	--	0	--	0	--	1	(100)	0	--	0	--	0	--	0	--	**3**	(100)
Serum Collected	2		0		0		0		0		1		0		0		0		0		**3**	
O157/Tested	0	(0)	0	--	0	--	0	--	0	--	1	(100)	0	--	0	--	0	--	0	--	**1**	(33)
	2		0		0		0		0		1		0		0		0		0		**3**	
Non-O157**/Tested	0	(0)	0	--	0	--	0	--	0	--	0	(0)	0	--	0	--	0	--	0	--	**0**	(0)
	2		0		0		0		0		1		0		0		0		0		**3**	
Total Stool																						
O157, non-O157 STEC, Shiga toxin +/	4	(100)	0	--	0	--	1	(100)	0	--	2	(100)	0	--	3	(100)	1	(100)	2	(100)	**13**	(100)
Total stool specimens tested	4		0		0		1		0		2		0		3		1		2		**13**	

Non-O157 identified:

*Culture:

**Serum