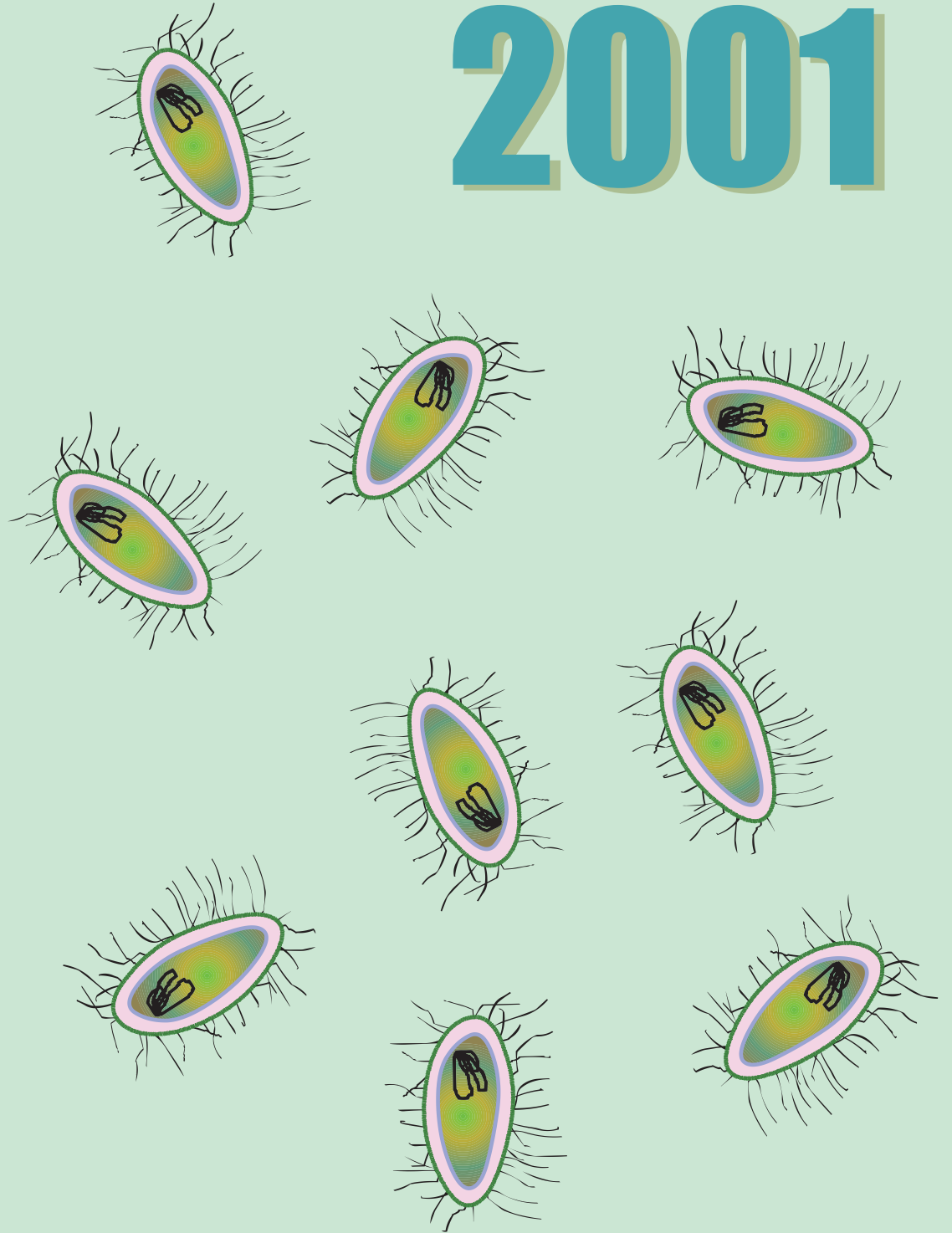


Salmonella

Annual Summary

2001



Department of Health and Human Services
Centers for Disease Control and Prevention
National Center for Infectious Diseases
Division of Bacterial and Mycotic Diseases
Foodborne and Diarrheal Diseases Branch
Atlanta, GA 30333



National *Salmonella* Surveillance System

Annual Summary, 2001

This issue of the Annual Summary of the National *Salmonella* Surveillance System contains surveillance data on reported laboratory-confirmed *Salmonella* isolates in the United States for the year 2001. The National *Salmonella* Surveillance System collects reports of isolates of *Salmonella* from human sources from every state in the United States. This information is reported through the Public Health Laboratory Information System (PHLIS), an electronic reporting system, by the State Public Health Laboratory Directors and State and Territorial Epidemiologists to the Foodborne and Diarrheal Diseases Branch (FDDB) and the Biostatistics and Information Management Branch (BIMB) of the Division of Bacterial and Mycotic Diseases in the National Center for Infectious Diseases.

The National *Salmonella* Surveillance System is based on data collected by state and territorial public health laboratories. *Salmonella* isolates are submitted to the state public health laboratory by clinical diagnostic laboratories. The state and territorial laboratories confirm the isolates as *Salmonella*, perform serotyping according to the modified Kauffmann-White scheme, and submit the data for reporting through PHLIS. Unusual or difficult isolates are forwarded to the National *Salmonella* Reference Laboratory at the Centers for Disease Control and Prevention for further characterization or confirmation. These results are reported back to the state laboratory, where they are reported through PHLIS.

Beginning in 2003, the National *Salmonella* Reference Laboratory will switch from the modified Kauffmann-White serotyping scheme to the standard Kauffmann-White scheme used by the rest of the world. The PHLIS reporting software will reflect this change. This will improve the comparability of United States surveillance data with data from other countries.

The capture of isolates in the National *Salmonella* Surveillance System is considered to be fairly complete. However, some *Salmonella* isolates may not be forwarded to public health laboratories, and therefore are not reported. In addition, irrespective of the surveillance system, many cases of *Salmonella* illness are not reported because the ill person does not seek medical care, the health-care provider does not obtain a specimen for diagnosis, or the laboratory does not perform the necessary diagnostics tests. The results of surveillance reported herein should be considered underestimates.

The National *Salmonella* Surveillance System database is dynamic; the number of isolates reported for previous years may change according to the addition or correction of isolate reports. For example,

the number of human *Salmonella* isolates published in the 2000 Annual Summary for 2000 was 32,022, whereas the number of isolates reported for 2000 in this Annual Summary is 33,310.

The number of isolates reported by geographical area (e.g. state) represents the area where laboratory confirmation and serotyping was performed. In some instances, the reporting area is not the same as the area of residence of the person from whom the isolate was obtained. For *Salmonella* serotype Typhi, only the first isolation in a year for each person is counted. For non-Typhi serotypes, only the first isolation in any two consecutive months for each person is counted, given that the serotype and clinical source (e.g. stool or blood) are the same.

The data presented for *Salmonella* isolates from animals and related sources (i.e. environment and feeds) are gathered from isolates submitted to the U.S. Department of Agriculture, Animal and Plant Health Inspection Services, National Veterinary Services Laboratories (USDA/APHIS/NVSL) for serotyping. These isolates are submitted by animal disease diagnostic laboratories and the USDA, Food Safety and Inspection Service (FSIS) laboratories throughout the United States. Data from other United States laboratories that serotype *Salmonella* from animals and related sources and submit isolates to the NVSL are also included in this report. *Salmonella* serotyping results from clinical cases of animal disease are designated as “clinical” and shown in Table 6. Serotyping results from herd and flock monitoring and surveillance, feed sample testing, environmental testing, research projects, and isolates from USDA, FSIS food testing programs are designated as “nonclinical” (Table 7). Samples from non-human sources are tested for *Salmonella* for a variety of purposes and are obtained in a variety of ways. The sampling is therefore neither complete nor random and undoubtedly has sampling biases. The interpretation of data should consider this limitation.

The Adobe Acrobat (PDF) version of this document can be viewed on the world-wide web at www.cdc.gov/ncidod/dbmd/phlisdata/salmonella.htm. Further information concerning data described in this report can be obtained by contacting the Foodborne and Diarrheal Diseases Branch at telephone number (404) 639-2206. For further information concerning PHLIS please contact the Biostatistics and Information Management Branch at telephone number (404) 639-1364.

The *Salmonella* Outbreak Detection Algorithm (SODA), developed by BIMB and FDDB, is a statistical algorithm based on the National *Salmonella* Surveillance System. It is designed to detect unusual clusters of isolates of *Salmonella* infection. SODA compares current *Salmonella* isolates reported through PHLIS by serotype to a 5-year historical baseline for that serotype and week to detect unusual increases from the baseline. Analyses can be conducted at state, regional, or national levels. Since 1996, SODA

has been implemented at CDC and selected state health departments. If you would like more information on SODA, please call the PHLIS Helpdesk at telephone number (404) 639-3365.

Annual Tabulation Highlights for 2001

Human Sources

A total of 31,675 *Salmonella* isolates were reported from public health laboratories in 50 states in 2001. This represents a 22% decrease compared with 1991 and a 19% decrease from 1996. The national rate of reported *Salmonella* isolates in 2001 was 11.3 per 100,000 population based on 2000 census population figures for the United States.

Similar to other years, *Salmonella* was isolated most frequently from children under 5 years of age, accounting for 26% of isolates. About 10% of isolates came from persons in each of the second through fifth decades of life, with declining numbers thereafter. The distribution of isolates between the sexes was similar.

The twenty most common serotypes of *Salmonella* in 2001 are listed in Table 1. These represent 79% of all *Salmonella* isolates. Of the top twenty serotypes, those with the largest percent decrease in numbers compared with 1991 were *S. Hadar* and *S. Agona*. Both had consistent decreases in the time periods 1991–1996 and 1996–2001. *S. Java* had consistent increases during the same time periods. *S. Newport* and *S. Mississippi* had significant increases in numbers in the later 6 year period 1996–2001. A relatively low number of *S. Berta* isolates were reported in 1996 compared to 1991 and 2001. The two most common serotypes, *S. Typhimurium* and *S. Enteritidis*, had substantial increases in numbers from 1991–1996, then decreased in number by 2001 (Table 8). In 2001, serotypes *S. Java*, *S. Mississippi* and *S. Bareilly* increased in rank to be included in the top twenty serotypes, whereas *S. Reading*, *S. Panama* and *S. Anatum* dropped from the top twenty serotypes compared with 1991.

The three most common serotypes of *Salmonella* in 2001 (*Typhimurium*, *Enteritidis*, and *Newport* respectively) accounted for 50% of isolates. Compared with 1991, the frequency rank of *S. Typhimurium* and *S. Enteritidis* in 2001 remained first and second respectively, though in 1994-1996 their rank was temporarily reversed (1). A large proportion of *S. Typhimurium* isolates were resistant to multiple drugs; in a 2000 national survey, 50% were resistant to one or more drugs and 28% had a five-drug resistance pattern characteristic of a single phage type, DT104 (2). Similarly, *S. Newport* has emerged as a major multidrug-resistant pathogen. In 2001, 33 (26%) of 128 *S. Newport* isolates submitted to the National Antimicrobial Resistance Monitoring System were resistant to at least nine of

17 antimicrobial agents tested, including extended-spectrum cephalosporins (3).

Similar to other years, there were marked regional differences in the frequency of *Salmonella* isolates among serotypes. The rate of isolations by region has been followed closely for *S. Enteritidis* as a means of assessing the impact of egg safety regulations and industry improvements. As indicated in Figure 1, *S. Enteritidis* rates of isolation had been relatively high in New England, Mid Atlantic and Pacific regions, but have shown significant decreases since 1995. The number of *S. Enteritidis* isolates reported has not decreased since 1999 for the United States as a whole, however, some regions (e. g., New England) have seen increases again in the last two years.

Non-human Sources

Data on *Salmonella* isolates obtained from non-human sources can help identify possible sources of human illness. *S. Typhimurium*, the most common serotype in humans, is also the most common serotype from clinical and non-clinical porcine sources and from clinical bovine sources. Similarly, *S. Enteritidis*, the second most common serotype in humans, is the most common serotype from clinical chicken sources. *S. Heidelberg* was the most common serotype found in non-clinical samples from both chicken and turkey sources.

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2. CDC. The National Antimicrobial Resistance Monitoring System: Enteric Bacteria. Available at www.cdc.gov/ncidod/dbmd/na
3. CDC. Outbreak of multidrug-resistant *Salmonella* Newport– United States, January–April 2002. *MMWR* 2002;51:545-8.



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TABLE 1
 THE 20 MOST FREQUENTLY REPORTED SALMONELLA SEROTYPES
 FROM HUMAN SOURCES REPORTED TO CDC IN 2001 AND FROM
 CLINICAL AND NON-CLINICAL NONHUMAN SOURCES REPORTED TO CDC AND NVSL IN 2001

HUMAN 2001				CLINICAL NONHUMAN 2001				NON-CLINICAL NONHUMAN 2001			
RANK	SEROTYPE	NUMBER	PERCENT	RANK	SEROTYPE	NUMBER	PERCENT	RANK	SEROTYPE	NUMBER	PERCENT
1	TYPHIMURIUM *	6999	22.1	1	TYPHIMURIUM *	2043	28.2	1	HEIDELBERG	2455	23.5
2	ENTERITIDIS	5614	17.7	2	NEWPORT	986	13.6	2	TYPHIMURIUM *	1477	14.1
3	NEWPORT	3158	10.0	3	HEIDELBERG	436	6.0	3	MONTEVIDEO	647	6.2
4	HEIDELBERG	1884	5.9	4	AGONA	363	5.0	4	KENTUCKY	615	5.9
5	JAVIANA	1067	3.4	5	SENFENBERG	282	3.9	5	SENFENBERG	597	5.7
6	MONTEVIDEO	626	2.0	6	CHOLERAESUIS **	256	3.5	6	AGONA	410	3.9
7	ORANIENBURG	595	1.9	7	MUENSTER	201	2.8	7	MUENSTER	329	3.1
8	MUENCHEN	583	1.8	8	MONTEVIDEO	191	2.6	8	ENTERITIDIS	273	2.6
9	THOMPSON	514	1.6	9	ENTERITIDIS	159	2.2	9	DERBY	268	2.6
10	SAINTPAUL	469	1.5	10	DUBLIN	146	2.0	10	HADAR	266	2.5
11	JAVA	466	1.5	11	DERBY	144	2.0	11	ANATUM	218	2.1
12	INFANTIS	440	1.4	12	ANATUM	143	2.0	12	NEWPORT	184	1.8
13	BRAENDERUP	388	1.2	13	INFANTIS	135	1.9	13	MBANDAKA	179	1.7
14	AGONA	370	1.2	14	KENTUCKY	109	1.5	14	INFANTIS	175	1.7
15	TYPHI	343	1.1	15	UGANDA	89	1.2	15	SCHWARZENGRUND	156	1.5
16	MISSISSIPPI	336	1.1	16	BREDENEY	81	1.1	16	ORANIENBURG	142	1.4
17	BERTA	330	1.0	17	MUENCHEN	68	0.9	17	BERTA	139	1.3
18	POONA	330	1.0	18	HADAR	64	0.9	18	WORTHINGTON	117	1.1
19	HADAR	307	1.0	19	MBANDAKA	64	0.9	19	CERRO	109	1.0
20	BAREILLY	205	0.6	20	CERRO	63	0.9	20	LIVINGSTONE	102	1.0
	SUB TOTAL	25024	79.0		SUB TOTAL	6023	83.2		SUB TOTAL	8858	84.8
	TOTAL	31675			TOTAL	7243			TOTAL	10451	

* TYPHIMURIUM INCLUDES VAR. COPENHAGEN

** CHOLERAESUIS INCLUDES VAR. KUNZENDORF

TABLE 2
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY AGE AND SEX, 2001

AGEGROUP	Sex			TOTAL
	FEMALE	MALE	UNKNOWN	
< 1 YR	1433	1638	186	3257
1 TO 4 YRS	2199	2431	207	4837
5 TO 9 YRS	1102	1277	108	2487
10 TO 19 YRS	1241	1594	97	2932
20 TO 29 YRS	1511	1361	97	2969
30 TO 39 YRS	1464	1349	99	2912
40 TO 49 YRS	1417	1148	94	2659
50 TO 59 YRS	1170	734	63	1967
60 TO 69 YRS	821	587	55	1463
70 TO 79 YRS	775	487	42	1304
80+ YEARS	536	253	28	817
UNKNOWN AGE	1459	1416	1196	4071
TOTAL	15128	14275	2272	31675

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
AARHUS	1	4	13	6		6	16	9	6	7	2	70
ABA	1									4		5
ABAEETUBA	3	1	2	10	10	17	8	7	7	5	4	74
ABERDEEN	3	3	5	1	5	2	3	4	4	13	5	48
ABONY	4	2	3	6	9	2	3	6	4	1	11	51
ABORTUSBOVIS				1								1
ABORTUSEQUI							1					1
ACRES						1						1
ADELAIDE	61	96	74	110	98	88	70	72	95	41	80	885
AEQUATORIA							1		1			2
AFLAO						1			1			2
AFRICANA								2	6			8
AGAMA	1	1		4	3	2	2	2	2	1	1	19
AGBENI	2	3	1	3	5	1	3		1	13	5	37
AGEGE						1						1
AGO					1		1	1		1		4
AGONA	1006	750	651	753	683	606	740	991	528	403	370	7481
AGUEVE		1		2	2	4	3	6	2	2	3	25
AHMADI	1											1
AHUZA						1				2		3
AJIOTO			1				2	2		2		7

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
ALABAMA		3		1	1	2	2	2	4	1	1	17
ALACHUA	16	28	55	70	52	39	18	14	22	20	9	343
ALAMO			2		1			1				4
ALBANY	23	24	30	29	49	26	21	23	17	18	17	277
ALBERT				2	1	1						4
ALBUQUERQUE			1									1
ALLANDALE								1		1	1	3
ALTENDORF	1											1
ALTONA	1			1		1	1		1	4	3	12
AMAGER	1	3	2		6	1	8	3	4	7	1	36
AMERSFOORT		1										1
AMSTERDAM	2	3	3	4	11	2	9	5	6	2	5	52
ANATUM	232	158	194	146	174	271	208	138	157	177	187	2042
ANECHO	1	1	2		2	5	2	2	2	1		18
ANK				1		2						3
ANNEDAL						1					1	2
ANTONIO	1											1
ANTSALOVA				1	2	1		2		3		9
APAPA							2		2	4	8	16
APEYEME									1	1		2
AQUA	1	1	1		3	2	1			2	1	12

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL		
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001			
BANANA	1	1	1			1	1	1				1	1	8
BANCO							2							2
BARDO	11	4	8	8	1	28	10	9	13	18	16			126
BAREILLY	117	94	105	83	109	115	112	153	171	182	205			1446
BARRANQUILLA						1			1		3			5
BASSADJI											1			1
BEAUDESERT										1				1
BELEM	3	1							1					5
BELFAST	1													1
BENFICA					2	1	1	1	1		1			6
BENIN				1		1								2
BERE	3	1	1	2	1	1	8	1			1			19
BERGEN									1	2				3
BERKELEY								1						1
BERLIN			1											1
BERN									2	2				4
BERTA	419	333	401	399	367	118	87	123	143	309	330			3029
BINZA	5	1	1	2	1			1	1		2			14
BIRKENHEAD				2		2	7	4		2	2			19
BISPESBJERG						1	1							2
BLEADON										1				1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
BLEGDAM	5	2	6	6		2	4	3	1	2	2	33
BLIJDORP						1						1
BLOCKLEY	132	86	89	76	55	51	62	61	54	28	33	727
BLUKWA						1	1					2
BOCHUM								5	1		3	9
BOLTON										1		1
BONAIRE		1	1		1	1			1			5
BONAMES										1		1
BONARIENSIS	9	4	6		5	3	3	6	4	3	5	48
BONGOR					1	1				1		3
BONN				7	4	1		1		1	2	16
BORBECK					1					1		2
BORNUM		1								1		2
BOVISMORBIFICANS	36	26	35	40	25	41	47	64	35	53	82	484
BRADFORD	2	54	44	35	12	1	3	1		2	1	155
BRAENDERUP	411	477	381	426	588	531	559	497	529	529	388	5316
BRANCASTER								1				1
BRANDENBURG	161	188	257	259	284	181	167	132	117	84	106	1936
BRAZIL	1		2		1	1	1		2			8
BRAZOS							1		1			2
BRAZZAVILLE	1											1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001					
BREDA			1													1
BREDENY	75	57	49	44	57	47	51	112	44	24	79					639
BREFET			1													1
BREZANY				1											4	5
BRIKAMA			1			1										2
BRISTOL							1									1
BRON				2	2	1									1	6
BRONX				1			2	2							1	6
BROOKLYN								1								1
BROUGHTON					2					1						3
BRUNEI	1															1
BSILLA															1	1
BUDAPEST			1		1											2
BUKAVU							1			1						2
BURGAS	1															1
BURUNDI					1											1
BUTANTAN													1			1
BUZU				1	3		5	4	1							14
CAIRO														1		1
CALABAR								1	1							2
CALIFORNIA	6	2	4	2	1	1	9	3	1		1					30

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001					
CAMBERWELL								1								1
CAMBRIDGE					1								1			2
CANADA						1									1	2
CANNSTATT								1	1						1	4
CANOGA	2	28	1													31
CARACAS							3					1				4
CARMEL					1	1								1	1	12
CARNO												1				1
CARRAU	6	5	9	9	12	30	6	3	12	5	5					102
CARSWELL	1	1														2
CERRO	102	99	57	62	74	55	60	52	56	52	31					700
CEYCO															1	1
CHAILEY	2		1		6	4	12	9	3	3						40
CHAMELEON	2	3	9	9	12	11	7	8	5	12	19					97
CHAMPAIGN				1	1											2
CHANDANS				1												1
CHARITY	1		1											1		3
CHARLOTTENBURG	1					1										2
CHESTER	27	30	23	21	34	26	36	24	29	22	24					296
CHICAGO			1	1				1								3
CHICHIRI															1	1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001					
CHINCOL	1	1	2					1	2							9
CHINGOLA							1								1	2
CHOLERAESUIS	40	35	50	53	50	41	25	23	25	11	8					361
CHOLERAESUIS VAR KUN	42	56	36	18	25	26	24	13	9	9	5					263
CLACKAMAS		1		1	1	1	3		3	1						11
CLAIBORNEI	1							1	1		1					4
CLERKENWELL															1	1
COELN	5	1	4	2	2	7	4	5	2	3	3					38
COLEYPARK		2														2
COLINDALE				5	2	7	1	4	2	3	2					26
COLORADO	1	1	1	1	1	1	1	2	2							11
CONCORD	1			1	4	5	2	2	3		2					20
CORVALLIS	1	1	2		1	1	1	1	1	1						10
COTHAM				1					2	1						4
CREMIEU							1			2	1					4
CUBANA	29	32	32	61	44	34	36	72	42	30	25					437
CULLINGWORTH						1				1						2
CURACAO	1		1	1					1	2	1					7
DAHRA									2	1	1					4
DAYTONA	3	1	5	3	3	4	6	3	4	3	4					39
DECATUR	3		1	1				2			1					8

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
DURBAN	5	2	4	11	3	8	8	10			5	63
DURHAM	5	3	1	5	6	4	2		1	3	3	33
DUVAL		1	2		1		1	1				6
EALING	4	2	2	8	24	26	8	6	6	9	16	111
EASTBOURNE	11	5	8	13	10	13	3	8	7	10	6	94
EBRIE									1	3	2	6
EDINBURG	4		1	3	4			1	6	2	1	22
EILBECK					1							1
EIMSBUETTEL									1			1
EKO	4	2										6
EKPOUI	1		1							1		3
ELOMRANE									2	1	1	4
EMEK	7	7	4	3	6	5	7	7	8	5	2	61
ENSCHEDÉ		1										1
ENTEbbe		1		2		8	4		1			16
ENTERITIDIS	7755	6578	8071	9866	10201	9570	7924	6029	5343	6445	5614	83396
ENUGU					1	1	1					3
EPPENDORF			1	1					2	2		6
ERLANGEN	1								1			2
ESCANABA							3					3
ESSEN	3	3		3		2	3	2	3	4	1	24

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001					
ETTERBEEK							1									1
FALKENSEE	1			1	2											5
FALLOWFIELD								3								3
FARMSEN	1	1		3	2	2	6	4	3						1	23
FAYED					1				6	3					4	14
FISCHERKIEZ								1	1							2
FISCHERSTRASSE										1						1
FLINT	29	20	30	32	39	34	43	55	64	57	13					416
FLORIDA	9		5	3	2	7	11	8	1	2	4					52
FLUNTERN						1		3			2					6
FORTLAMY					2											2
FREEFALLS					2											2
FREETOWN															1	1
FREIBURG			1													1
FREMANTLE					1											1
FRESNO				1	1										3	5
FRIEDENAU								1								1
FRINTROP						1										1
FULICA								1								1
FYRIS	1					2			1							4
GABON									1							2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
GROUP D2		1			1	3	2	1	1	1	1	11
GROUP D3								2		3		5
GROUP E1	13	13	7	29	20	21	13	14	17	47	61	255
GROUP E2	1					2	4	2	1	1		11
GROUP E4	1	2	2	3	2	3	2	3	2	1	1	22
GROUP F	2	7	2	8	3	5	2	6		2	47	84
GROUP G	9	7	22	34	73	42	8	17	15	17	30	274
GROUP H	2	1	3	2	2	4		2	2	6		24
GROUP I	2	3	2	12	5	6	5	44	46	6	7	138
GROUP J			2		1	1			1		9	14
GROUP K	2	6	1	2	3	5	2	4	4	4	4	37
GROUP L		1		3	2		1	1		1	2	11
GROUP M							2				1	3
GROUP N		1	1			1		1			1	5
GROUP O	2			3	2	3	2	1	4	1	6	24
GROUP P	1		11	4	4	1	4	1		3	2	31
GROUP Q					1		1	1	2		1	6
GROUP R		4	2	1	2	3		3	1	10	7	33
GROUP S			3	5	5	5	5	1	1	4	6	35
GROUP T						1	1					2
GROUP U			2	2	3	4	1			2	1	15

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
GROUP V		2	1	6	15	26	33	9	7	7	12	118
GROUP W		2	13	24	15	21	10	3	3	2	6	99
GROUP X		2	1	1	1	10	9	2	4	1	1	32
GROUP Y		6	14	14	15	15	11	4	15	12	22	128
GROUP Z		5	16	18	18	16	13	6	14	20	104	230
GRUMPENSIS	1		3	1	3			1	2	1	1	13
GUILDFORD									1			1
GUINEA						1						1
GUSTAVIA										1	1	2
HAARDT	22	10	13	10	16	6	5	2	3	4	4	95
HADAR	1970	1532	1298	1001	812	658	643	544	516	353	307	9634
HADDON					1							1
HADEJIA									1			1
HAELSINGBORG		1	1									2
HAGENBECK		2			1	1	1		1	3		9
HAIFA	4	2	4	2	2	3	4	3	6	11	4	45
HALLE									1			1
HALMSTAD		1		3		1			2			7
HAMBURG	2				4		1		1		5	13
HANDEN						1						1
HARBURG							1					1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
HVITTINGFOSS	11	22	20	14	15	44	26	28	38	34	30	282
I 4,5, 12:I:-								34	44	119	149	346
IBADAN	21	20	13	24	46	33	42	39	27	17	9	291
IDIKAN	5	6	6	2		11	4	1		2		37
II 50:B:Z6								3			1	4
IIIA 48:G,Z51:-									3	3	2	8
IIIA 53:Z4,Z23,Z32:-									4	2		6
IIIB 38:(K):Z35										1		1
IIIB 38:1,V:Z53										1	1	2
IIIB 48:I:Z									1	3	1	5
IIIB 61:1,V:1,5,7							1	2				3
IIIB 61:K:1,5,7									3		1	4
IIIB 65:K:Z									1			1
ILALA							1					1
ILLINOIS	1					1						2
ILUGUN						3						3
IMO						1						1
INCHPARK				1					1			2
INDIA	1	1				1						3
INDIANA	36	24	18	25	24	28	11	7	14	9	13	209
INFANTIS	580	499	568	520	521	503	651	600	596	609	440	6087

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL		
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001			
INGANDA		1									1		4	6
INPRAW		1												1
INVERNESS	15	32	20	21	37	20	26	32	24	22	23			272
IPSWICH	1				1	1			1					4
IRCHEL					1									1
IRENEA									1					1
IRUMU	1	7	39	45	31	18	13	15	6	5	9			189
ISANGI	2				3	1	1	5	1		3			16
ISLINGTON				1										1
ISRAEL		1												1
ISTANBUL	5	13	12	7	10	9	8	7	25	13	26			135
ITAMI	2			1		1	2	8	7	12	50			83
ITURI		1	5	2	4	2	1	5	3	2	7			32
IV 44:Z4,Z23:-							4	6	14	3	3			30
IV 45:G,Z51:-								2	1	2	2			7
JAFFNA			1	2										3
JAJA							1		1	1				3
JAMAICA	2	2	1	2	6		2	1	2					18
JANGWANI	5	2	6	3	10	7	4	5	6	7	2			57
JAVA	148	156	176	172	268	289	184	248	314	458	466			2879
JAVIANA	786	648	641	540	758	749	675	1167	1197	1203	1067			9431

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL					
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001						
KPEME			1														1
KRALENDYK	4	5	5	3	10	15	4	14	3	14						6	83
KRALINGEN									1	1							2
KREFELD	1	1	9	3	3	2	1		1	1							22
KRISTIANSTAD															1	1	2
KUA		1	1	1	2	1	1	1	2	1						2	13
KUMASI				1													1
KUNDUCHI								1									1
KURU				1													1
LABADI		1		1	2			1									5
LAGOS		3	1	1	2	1	1									1	10
LAMBERHURST												1					2
LAMIN												1					1
LANDAU							1									1	2
LANDWASSER			1							1	2					1	5
LANGENSALZA						1		1									2
LANKA		1	1	3								1	1	1	3		11
LANSING			1										1				2
LAROCHELLE	5	2	3	4	4	4	1	6	4	2							35
LATTENKAMP																1	1
LAWINDALE			1			1											2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MARINA	10	17	30	53	75	81	36	47	44	46	45	484
MARSHALL											1	1
MARYLAND							1	1				2
MATADI	2		6	20	10	27	9	4	2	9	3	92
MATOPENI								2			1	3
MBANDAKA	206	130	167	118	154	223	189	147	231	154	161	1880
MEEKATHARRA											1	1
MELEAGRIDIS	25	8	15	12	30	207	43	39	14	13	19	425
MEMPHIS	1		2			1	1		1			6
MENDEN									1			1
MENDOZA	1	1		1			1	3	1		2	10
MENHADEN	1	5		2	5	14	1					28
MENSTON	2	2					1				2	7
MGULANI						2			2			4
MIAMI	115	70	98	126	74	52	76	99	95	80	68	953
MICHIGAN	1			3	8	1		2	2	1	1	19
MIDWAY	1	1										2
MIKAWASIMA	2	7	2	1	7		2		4	6	3	34
MILWAUKEE											4	4
MINNEAPOLIS	7	4	1			1						13
MINNESOTA	21	19	28	13	36	28	26	17	23	21	18	250

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001					
NAMIBIA						1										1
NAPOLI	1					1								2		6
NARASHINO			1		1	1										4
NCHANGA												1				2
NDOLO			1												1	2
NEGEV				1	1											2
NESSIONA												4			1	7
NEUDORF																1
NEWBRUNSWICK	8	8	5	3	20	22	26	36	23	9	9	9	9	9	9	169
NEWHAW					4	1	1	1								8
NEWINGTON	26	25	15	13	17	16	20	25	23	8	4	4	4	4	4	192
NEWLANDS							1									1
NEWMEXICO			3	2			1			4	2					13
NEWPORT	1818	1481	1487	1673	2566	1985	1584	2272	2618	3061	3158	3158	3158	3158	3158	23703
NEWROCHELLE					2	1	1	1	1							6
NEWYORK						3	4		1							8
NGILI				1												1
NGOR													2			2
NIAKHAR			1													1
NIENSTEDTEN	3		1	2											1	7
NIGERIA						1									1	2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR										TOTAL		
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000		2001	
NIKOLAIFLEET												1	1
NIMA				1	1	4	1	5	1	4		6	23
NITRA						3			1			1	5
NOLA						1	1					1	3
NOORDHOEK					1								1
NORDENHAM									1				1
NORWICH	32	41	59	98	51	52	56	67	74	68	96		694
NOTTINGHAM	2	1	1	3	3	3	5	2		4	2		26
OAKLAND	2	2	3	4	1	4			1	1	1		19
OCHIOGU			1										1
OCHSENZOLL				1			2						3
OERLIKON				1									1
OFFA		2	1										3
OHIO	132	161	132	101	105	67	100	79	77	85	63		1102
OKATIE			1		1	1							3
OLDENBURG			1					1	1				3
ONDERSTEPOORT					1	2			1	2	1		7
ONIREKE				1	1								2
ONTARIO			2						1				3
ORANIENBURG	655	597	522	602	595	690	623	693	616	560	595		6748
ORIENTALIS					2	6		1	2	5			16

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
ORION		4	3	1	1	6	3	1			3	3	25
ORITAMERIN	3	1									1	3	8
OSLO	11	14	19	14	13	31	25	31	28	20	23	23	229
OTHMARSCHEN	6			4	2	6	6	7	20	27	14		92
OUAKAM		2	7	2	4							1	16
ODUWIJK								1				1	2
OVERSCHIE			1		3	4	3	3	2	1	1		18
OYONNAX	1										1		2
PAKISTAN	2		1			2	4		6	3	5		23
PANAMA	236	185	173	163	173	148	144	119	132	156	160		1789
PAPUANA		1			1		1					1	4
PARATYPHI A	76	80	53	79	86	86	72	85	77	93	85		872
PARATYPHI B	101	110	208	228	241	298	159	189	172	120	178		2004
PARATYPHI C	1	2	1	2	2	1	1		1		1		12
PARERA		2	2	4	7	7	2	4	2		2		32
PATIENCE						1							1
PENARTH										1	1		2
PENSACOLA	7		8	3	11	4	7	5	8	10	8		71
PHARR	1								1				2
PHOENIX	1		8	3	9	9	5	4	6	6	2		53
PLANCKENDAEL							1						1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL			
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001				
PLYMOUTH	1	1			1	1									4
POANO		1	2	6	2	5					1				17
POMONA	10	9	7	6	23	29	43	19	28	26	38				238
POONA	788	218	295	376	531	415	293	346	249	334	330				4175
PORTLAND			2												2
PORTSMOUTH	1	1	1	3	1	1	4	2	1						15
POTSDAM	7	8	8	6	5	3	10	6	9	2	6				70
PRAHA	3	2	1	3	1				1	1					12
PRESTON	1		1												2
PULLORUM							1		1						2
PUTTEN	4	1	1	1	8	6	5	9	3	2	9				49
QUEBEC								1							1
QUIMBAMBA					3					2					5
QUINIELA	1	1		2			1	1							6
RAMATGAN				1					1						2
RAUS	2	2		1	2	3		3	3						16
READING	396	430	363	257	197	131	167	81	97	94	53				2266
RECHOVOT														1	1
REDLANDS	1	1				1	1								4
REGENT					2										2
REMO			2		1	2		1	2		3				11

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
RICHMOND	6	4	4	3	7	6	7	4	2	7	6	56
RIDGE									1		3	4
RIGGIL											1	1
RIOGRANDE	1	1			1				1			4
RISSEN		4	6	10	4	5	9	6	6	10	3	63
ROMANBY			1		5	5	4	1	6	5	1	28
ROODEPOORT							1	2	2	1	1	7
ROSENTHAL										1		1
ROSTOCK						1					2	3
ROTTERBERG			1	1	1	2		1		2		8
ROTTNEST									1			1
ROVANIEMI	1											1
RUBISLAW	83	67	58	77	83	71	81	88	97	76	66	847
RUIRU		1							1		1	3
RUZIZI									1			1
SAARBRUECKEN								1				1
SABOYA								1				1
SADA	1											1
SAINTPAUL	439	529	380	479	467	562	436	479	472	545	469	5257
SAKA		3								1		4
SAKARAHA								1				1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001					
SEROTYPE																
SOUMBEDIOUNE				4												4
SOUTHAMPTON		1											1			3
SOUTHBANK						1										1
STACHUS						1				3			2			7
STANLEY	131	136	143	217	481	200	164	193	172	236	170					2243
STANLEYVILLE	7	13	5	5	51	26	23	16	10	32	18					206
STELLINGEN				1	2		3	1								7
STENDAL					1											1
STERRENBOS				1	1											2
STIKLAND				1												1
STOCKHOLM									4	2						6
STRASBOURG						1					1					2
SUAREZ															1	1
SUBERU											1	1				2
SUBSPECIES I		4	2	23	26	32	22	72	81	99	68					429
SUBSPECIES II	12	5	10	9	7	22	8	5	6	8	11					103
SUBSPECIES III					1	3	4	1	3	7	8					27
SUBSPECIES IIIA	2	4	5	21	20	11	7	12	16	14	15					127
SUBSPECIES IIIA/IIIB	47	58	33	60	37	28	17	12	14	25	27					358
SUBSPECIES IIIB	16	9	19	21	26	13	10	7	9	21	13					164
SUBSPECIES IV	7	6	5	13	31	21	22	17	26	24	25					197

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001					
TEXAS						1										1
THIES													1			1
THOMASVILLE		4	1	2	1	1	2	2	4	2	1					20
THOMPSON	716	690	576	549	625	586	695	571	602	606	514					6730
TIENBA								1								1
TILENE				1	4	7	2		1	2						17
TOKOIN		1			3					3						7
TOOWONG							1									1
TORNOW															2	2
TOUCRA				2	3	3				1						9
TRACHAU		1					1									2
TRAVIS							1		1						1	3
TREFOREST															2	2
TRURO	1															1
TSEVIE				1	1	1									2	5
TSHIONGWE	6	2	2	3	2	4								2		21
TUCSON		1	1	2	2	1	3		1							11
TUINDORP			2		1	1	2	1								7
TYGERBERG			1		2	1										4
TYPHI	500	449	472	507	442	440	349	382	352	397	343					4633
TYPHIMURIUM	8780	7720	8436	7972	9147	9002	8289	8100	7125	6469	6047					87087

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
TYPHIMURIUM VAR COPE	215	230	307	393	555	499	827	718	926	899	952	6521
TYPHISUIS							3				1	4
TYRESOE						1						1
UCCLE						1	4	4	1	2		12
UGANDA	21	23	29	19	28	63	51	44	58	55	96	487
UGHELLI										1		1
ULLEVI							1					1
UMHLALI										1		1
UNKNOWN	2947	2136	1649	1469	952	673	382	515	399	663	588	12373
UPHILL						1						1
UPPSALA					1	1		1		1		4
URBANA	15	26	52	63	72	60	57	46	56	38	53	538
UZARAMO		3	1	1	5			3	1	2	1	17
VALDOSTA	1											1
VANCOUVER			1	3	1							5
VEJLE	1				2		2	1	1		1	8
VENEZIANA											1	1
VICTORIA	1	1		3	1	3	2	1			1	13
VIETNAM					1							1
VILVOORDE					1	2	1					4
VIRCHOW	64	72	57	54	60	67	71	64	70	103	80	762

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1991-2001

SEROTYPE	YEAR											TOTAL
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
VIRGINIA	5		2		7	7	2		10	1	5	39
VITKIN											1	1
VOLKSDORF			1	1		2				1		5
VRIDI					1							1
WA						1			1			2
WAGENIA										1		1
WANDSBEK										1	2	3
WANDSWORTH	2	4	1	5	14	6	5		9	12	3	61
WANGATA	1	2	1	1	1		1	1		2		10
WARAL				1	1		1					3
WASHINGTON				1	2	1	3		1			8
WASSENAAR	3	11	16	19	28	18	14	6	11	6	14	146
WAYCROSS	2	4	3	2		4	4	2	2	4	4	31
WAYNE					2	1	1					4
WELIKADE				1			1	1	1		3	7
WELTEVREDEN	71	68	98	86	89	86	106	67	54	58	89	872
WENTWORTH			1									1
WERNIGERODE								3			1	4
WESLACO	1			1	1			2	1			6
WESTERSTEDE									1			1
WESTHAMPTON	5		1	2	3	6	5	3	2		3	30

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=New England -----

Serotype	STATE								TOTAL
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont			
ABONY			1		1				2
ADELAIDE	1		8						9
AGONA	6		15	1	4	1			27
ALBANY			2						2
ANATUM	1		1			1			3
APAPA			1						1
ARECHAVALETA	1								1
AUSTIN			1						1
BARDO						1			1
BAREILLY	3		1	2	1				7
BARRANQUILLA			1						1
BERTA	10	2	21	1	1				35
BINZA		1							1
BLOCKLEY			1						1
BOVISMORBIFICANS	3		3						6
BRAENDERUP	5	2	15	1	4				27
BRANDENBURG	3		1		1				5
BREDENEY		1	5	1	1				8
BRON			1						1
CHESTER			1		1				2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=New England -----

Serotype	STATE							TOTAL
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont		
CHOLERAESUIS VAR KUN	1							1
CONCORD			1					1
CURACAO						1		1
DERBY			10	1				11
DUBLIN			3					3
DURBAN			1					1
ENTERITIDIS	116	67	357	23	29	12		604
FLINT			2					2
FLORIDA			1					1
FLUNTERN			1					1
GAMINARA			1	1				2
GARBA			1					1
GIVE			2					2
GLOSTRUP				1				1
GROUP 60			1					1
GROUP 61	1							1
GROUP B	15	2	39		7	3		66
GROUP C1	1		1					3
GROUP C2								1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=New England -----

Serotype	STATE								TOTAL
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont			
GROUP D1	1			1					2
GROUP E1	1		5					1	7
GROUP G		1	1						2
GROUP I	1								1
GUSTAVIA			1						1
HAARDT	1								1
HADAR	8		20	3	2			2	35
HAIFA			1						1
HARTFORD	3		1						4
HATO		1							1
HEIDELBERG	15	3	114	19	17			1	169
HULL			1						1
HVITTINGFOSS			1						1
IBADAN					1				1
IIIB 61:K:1,5,7			1						1
INFANTIS	8		12	4					24
IRUMU			1						1
ISANGI			1						1
IV 44:Z4,Z23:-			2						2
IV 45:G,Z51:-			1						1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=New England -----

Serotype	STATE										TOTAL
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont					
JAVA		1	13	4	1						19
JAVIANA	1		13	1							15
JOHANNESBURG			1								1
KANDE			1								1
KENTUCKY	2		7								9
KIAMBU	2		1		1						4
KISARAWA			1								1
KONSTANZ					2						2
KOTTBUS	1		3								4
LEXINGTON	1										1
LITCHFIELD	1	2	4	1						1	9
LOMALINDA			1								1
LONDON	1										1
MALSTATT					1						1
MANCHESTER										1	1
MANHATTAN	1		6								7
MARINA			1								1
MBANDAKA	2				1						3
MELEAGRIDIS			3							1	4
MIAMI	1		2							2	5

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=New England -----

Serotype	STATE							TOTAL
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont		
MINNESOTA			1					1
MISSISSIPPI			2					2
MONTEVIDEO	10	3	20	3	2	2		40
MOUALINE			1					1
MUENCHEN	7	1	18		7			33
MUENSTER		1	3			1		5
NEWHAW	1							1
NEWPORT	58	14	62	11	13	12		170
NIMA			1					1
NITRA		1						1
NORWICH			3					3
OHIO	1		5					6
ORANIENBURG	9		23	3	6			41
OSLO			1					1
PAKISTAN			1					1
PANAMA	4		1	1		1		7
PARATYPHI A	1	1	5					7
PARATYPHI B	3	5	15	3				26
POMONA			7					7
POONA	3		10			1		14

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=New England -----

Serotype	STATE								TOTAL
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont			
READING			1						1
REMO			1						1
RICHMOND			1						1
RUIRU			1						1
SAINTPAUL	19	1	30	4	4	4			62
SANDIEGO	4		6	2		1			13
SCHWARZENGRUND	1	1	8	1					11
SENFENBERG			3	1	2				6
SINGAPORE			1						1
SINSTORF					1				1
STANLEY	3		5	2					10
STANLEYVILLE			1						1
SUBSPECIES I	1								1
SUBSPECIES IIIB	2		1	1					4
SUBSPECIES IV				2					2
TALLAHASSEE				1					1
TENNESSEE	2		1		1				4
THOMPSON	12	8	32	17	7				76
TYPHI	4		14	3					21
TYPHIURIUM	105	29	175	26	42	28			405

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=New England -----

Serotype	STATE							TOTAL
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont		
TYPHIMURIUM VAR COPE			100	10				110
UGANDA	2	1	5					8
UNKNOWN	6	2		1	2			11
URBANA			4					4
VIRCHOW			5					5
WASSENAAR	1		1					2
WELTEVREDEN	1							1
TOTAL	478	151	1295	158	163	79		2324

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
ABAETETUBA			2	2
ABERDEEN		4		4
ABONY		1		1
ADELAIDE	4	13	3	20
AGONA	9	26	18	53
AGOUVEVE		1		1
ALACHUA		2		2
ALBANY	1	2	3	6
ANATUM	3	9	18	30
APAPA			1	1
ARECHAVALETA		1		1
BARDO		4		4
BAREILLY	1	11	1	13
BARRANQUILLA			1	1
BENFICA			1	1
BERTA	17	46	10	73
BLEDAM	1			1
BLOCKLEY	1	4	2	7
BONARIENSIS		1		1
BONN			1	1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
BOVISMORBIFICANS	4	4	2	10
BRAENDERUP	8	11	5	24
BRANDENBURG	3	10	2	15
BREDENEY	5	25	1	31
BREZANY			4	4
CARMEL		6		6
CERRO		3		3
CHAMELEON	1		3	4
CHESTER	2	2	3	7
CHOLERAESUJIS			1	1
COELN		1		1
CUBANA		3		3
DENVER	1			1
DERBY	1	12		13
DUBLIN		8	1	9
DURBAN	1	1		2
EALING	1	4		5
EASTBOURNE		1		1
EDINBURG		1		1
EMEK		1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
ENTERITIDIS	196	759	465	1420
FARSEN			1	1
GAMINARA		1	1	2
GATOW		1		1
GATUNI		1	2	3
GEORGIA		1	1	2
GIVE	3	2	2	7
GLASGOW			1	1
GLOSTRUP		1		1
GROUP 53		1		1
GROUP 56			1	1
GROUP 58			1	1
GROUP 60		1		1
GROUP 61			2	2
GROUP B	21	63		84
GROUP C1	3	15		18
GROUP C2	1	2		3
GROUP D1		1	2	3
GROUP E1	1	2	1	4
GROUP I		1	1	2

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
GROUP J			1	1
GROUP Q		1		1
GROUP S			3	3
GROUP V			3	3
GROUP W			2	2
GROUP X			1	1
GROUP Y		2	3	5
GROUP Z		2	3	5
HADAR	13	42	21	76
HAIFA	1			1
HARTFORD	4	10	2	16
HAVANA		1		1
HEIDELBERG	28	191	65	284
HOLCOMB		2		2
HVITTINGFOSS			2	2
I 4,5,12:I:-		15		15
INDIANA	2	5	1	8
INFANTIS	8	25	26	59
INVERNESS		2	1	3
IRUMU		1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
ISTANBUL	2	6		8
JAVA	6	15	10	31
JAVIANA	8	25	14	47
JOHANNESBURG		3		3
KENTUCKY	2	14	1	17
KIAMBU	1	3		4
KINGABWA			1	1
KINGSTON		1		1
KINTAMBO	1			1
KOKOMLEMLE		1		1
KOTTBUS	2	2	1	5
KRALENDYK	1		1	2
LANKA	2			2
LEOPOLDVILLE			1	1
LEXINGTON		1		1
LITCHFIELD	11	12	15	38
LOME		1		1
LOMITA		1		1
LONDON	2	3	3	8
MADELLIA	1			1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
MANHATTAN	2	1	2	5
MARINA	8		4	12
MATADI			1	1
MATOPENI			1	1
MBANDAKA	3	9	2	14
MELEAGRIDIS		1	2	3
MENSTON		2		2
MIAMI	2	2		4
MILWAUKEE			2	2
MISSISSIPPI	2	2	2	6
MONTEVIDEO	11	40	24	75
MOUNTPLEASANT	1			1
MUENCHEN	10	24	19	53
MUENSTER		5	8	13
NEWPORT	47	136	86	269
NIKOLAIFLEET		1		1
NIMA		1		1
NORWICH	1	3	8	12
NOTTINGHAM			1	1
OHIO		9	3	12

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
ORANIENBURG	8	30	31	69
ORION		1		1
OSLO		2		2
OTHMARSCHEN		9		9
PAKISTAN		1		1
PANAMA	4	6	10	20
PARATYPHI A	11	16	3	30
PARATYPHI B	1	15	13	29
PENARTH	1			1
POMONA	3	8	3	14
POONA	8	29	14	51
POTSDAM		1		1
READING		5	5	10
REMO		1		1
RICHMOND	1	1		2
RUBISLAW		1		1
SAINTPAUL	6	36	15	57
SANDIEGO	2	22	5	29
SANKTGEORG		1		1
SCHWARZENGRUND	6	12	9	27

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
SENFTENBERG	1	3	6	10
SHUBRA		1		1
SINSTORF		2	1	3
SOERENGA	1			1
STANLEY	5	25	12	42
STANLEYVILLE		6	1	7
STRASBOURG		1		1
SUBSPECIES I	22	2	2	26
SUBSPECIES IIIB		1		1
SUBSPECIES IV		1		1
TANGER		1		1
TENNESSEE	1	1		2
THOMPSON	14	52	16	82
TORNOW			1	1
TYPHI	34	65	12	111
TYPHIMURIUM	91	713	438	1242
TYPHIMURIUM VAR COPE	111			111
UGANDA	2	24		26
UNKNOWN		18	1	19

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mid Atlantic

Serotype	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
URBANA	4	3	6	13
VIRCHOW	4	10		14
VITKIN		1		1
WASSENAAR			2	2
WAYCROSS		1		1
WELTEVREDEN		1	1	2
WORTHINGTON		2		2
TOTAL	812	2824	1517	5153

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East North Central -----

Serotype	STATE					TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin	
ABAETETUBA			1			1
ABONY					6	6
ADELAIDE	2		1	2	4	9
AGBENI				4		4
AGONA	13	8	12	12	4	49
AGQUEVE			1			1
ALACHUA		1				1
ALBANY	1					1
ALTONA				2		2
ANATUM	8	2	9	8	4	31
ANNEDAL					1	1
BARDO				1		1
BAREILLY	4	6	2	2		14
BERTA	38	3	14	3		58
BLOCKLEY		1		1		2
BONARIENSIS	1	1				2
BOVISMORBIFICANS	2	7		5	1	15
BRAENDERUP	13	13	5	24	12	67
BRANDENBURG	8	1	3	3	1	16
BREDENEY	3	2			1	6

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East North Central -----

Serotype	STATE					TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin	
BSILLA			1			1
CERRO		2				2
CHAMELEON				3		3
CHESTER	7	1		1		9
CHOLERAESUIS	1					1
CHOLERAESUIS VAR KUN		1				1
CLERKENWELL			1			1
COLINDALE	2					2
CUBANA	2		2		3	7
DECATUR			1			1
DERBY	12	1	1	2	3	19
DESSAU					1	1
DRYPOOL			1			1
DUBLIN		1	4			5
DURBAN			1			1
EALING		2		2	2	6
ENTERITIDIS	216	95	181	293	85	870
FLINT	1			1		2
FLUNTERN				1		1

(continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=East North Central

Serotype	STATE						TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin		
GAMINARA	3	1					4
GIVE				4	1		5
GLOSTRUP				1			1
GROUP 60				1			1
GROUP 61		1		1			2
GROUP B				1	2		3
GROUP C1		1					1
GROUP C2		1		1			2
GROUP D1		1		1			2
GROUP E1				2			2
GROUP I				1			1
GROUP J				1	1		2
GROUP P					1		1
GROUP R				1			1
GROUP S				1			1
GROUP V				1	3		4
GROUP W					1		1
GROUP Y		2		1			3
GROUP Z				1			1
HAARDT	1						1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East North Central -----

Serotype	STATE					TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin	
HADAR	8	7	7	9	2	33
HAIFA			1			1
HAMBURG			5			5
HARTFORD	16	11	9	19	4	59
HAVANA	1		1	2		4
HEIDELBERG	55	37	73	86	21	272
HINDMARSH					1	1
HVITTINGFOSS	1			2		3
I 4,5,12:I:-	48					48
IBADAN			1			1
INFANTIS	34	5	7	21	4	71
INGANDA			1		3	4
INVERNESS				2		2
ITURI		1			1	2
JAVA	20	29	29	41	8	127
JAVIANA	15	4	9	14	13	55
JOHANNESBURG	4	1		3	1	9
KALINA					1	1
KENTUCKY	1		1	2	11	15
KIAMBU	1	2				3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East North Central -----

Serotype	STATE					TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin	
KINTAMBO	1					1
KOTTBUS	1			1		2
KRALENDYK				1		1
LITCFIELD	9	6	3	5	1	24
LIVINGSTONE	1	1	1	1		4
LOMALINDA				1		1
LONDON	2	1				3
MANHATTAN	6			2		8
MARINA	2	3	3	5		13
MATADI			1			1
MBANDAKA	5	2	3	5	25	40
MELEAGRIDIS	1		1	1	1	4
MIAMI	4	1	1	1	4	11
MINNESOTA	3				1	4
MISSISSIPPI	1		1	1	1	4
MONSCHAUI			2	1		3
MONTEVIDEO	11	8	11	13	13	56
MOSCOW			1			1
MUENCHEN	44	13	13	18	3	91
MUENSTER	1	1	2	3	12	19

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East North Central -----

Serotype	STATE						TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin		
NEWPORT	100	40	47	76	29		292
NIMA				1			1
NORWICH	1		1				2
OAKLAND			1				1
OHIO	5	4		1	1	11	11
ORANIENBURG	26	5	20	39	8	98	98
ORION				2		2	2
ORITAMERIN			2			2	2
OSLO	1	1		3		5	5
OTHMARSCHEN					1	1	1
PANAMA	7	1	2	7	6	23	23
PARATYPHI A				1	1	2	2
PARATYPHI B			3	5	1	9	9
POMONA			1	3		4	4
POONA	12	2	7	7	2	30	30
POTSDAM				4		4	4
READING	2		3	2		7	7
REMO		1				1	1
RICHMOND				1		1	1
RIDGE			1			1	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East North Central -----

Serotype	STATE					TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin	
RISSEN	1					1
RUBISLAW	1			1		2
SAINTPAUL	16	9	26	13	4	68
SANDIEGO		1	3	3	3	10
SCHWARZENGRUND	1		1	7	1	10
SENFTEMBERG	11		2	1		14
SHUBRA				2		2
SINSTORF				2		2
STANLEY	2	4	4	5	1	16
SUBSPECIES II					1	1
SUBSPECIES IV		1			2	3
TELELKEBIR			1			1
TENNESSEE	3	2	1			6
THOMASVILLE			1			1
THOMPSON	19	3	16	28	29	95
TYPHI	12	2	11	5	1	31
TYPHIMURIUM	246	114	190	339	116	1005
TYPHIMURIUM VAR COPE		11				11
UGANDA	16				2	18

(continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East North Central -----

Serotype	STATE					TOTAL
	Illinois	Indiana	Michigan	Ohio	Wisconsin	
UNKNOWN	30	17	62	16	7	132
URBANA	2	2	1	7		12
VIRCHOW	1	1	1	5		8
WANDSWORTH				1	1	2
WASSENAAR				1		1
WAYCROSS			2			2
WELTEVREDEN	2			2	2	6
WORTHINGTON		1	1	1		3
TOTAL	1151	510	839	1240	487	4227

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=West North Central

Serotype	STATE							TOTAL
	Iowa	Kansas	Minnesota	Missouri	North Dakota	South Dakota		
ADELAIDE	2		3	1				6
AGONA	2	2	19	18				41
ALACHUA			1					1
ALBANY			1		1			2
AMAGER				1				1
AMSTERDAM		1		1				2
ANATUM	2	1	5	5				13
APAPA		1						1
BAGUIRMI			1					1
BARDO			1					1
BAREILLY		1	4	31				36
BARRANQUILLA		1						1
BERTA		1	6	11	2			20
BINZA			1					1
BLEGDAM	1							1
BLOCKLEY			8	1				9
BOVISMORBIFICANS	1		1	1		1		4
BRAENDERUP	7	5	10	6		3		31
BRANDBURG			1	1				2
BRENENEY			3	3				6

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=West North Central -----

Serotype	STATE							TOTAL
	Iowa	Kansas	Minnesota	Missouri	North Dakota	South Dakota		
BRONX			1					1
CANNSTATT	1							1
CHAMELEON	1							1
CHESTER				1				1
CHOLERAESUJIS VAR KUN	2							2
CUBANA			2					2
DERBY			1	4	1		1	7
DURHAM		1			1			2
ENTERITIDIS	50	23	138	76	6	15		308
ESSEN				1				1
FLINT					1			1
FRESNO			2					2
GIVE			1	2				3
GROUP B	12	8	3	4				27
GROUP C1	2		1	2				5
GROUP D1		1		1				2
GROUP G		1						1
GROUP O				1				1
GROUP R		1						1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=West North Central

Serotype	STATE							TOTAL
	Iowa	Kansas	Minnesota	Missouri	North Dakota	South Dakota		
GROUP V	1				1			2
GROUP Y				5				5
GROUP Z				1				1
HADAR		1	16	6	1	5		29
HAIFA			1					1
HARTFORD	2	2		11		2		17
HEIDELBERG	32	14	55	62	18	23		204
HVITTINGFOSS	2							2
I 4,5,12:I:-				38				38
INFANTIS	5		9	9		2		25
IRUMU		1	1					2
ISTANBUL			2					2
JAVA	8	2	12	56				78
JAVIANA	2		7	36	3	2		50
JERUSALEM	1							1
JOHANNESBURG	2	1		1				4
KENTUCKY	1			2				3
KIAMBU			1					1
KINTAMBO	1				1			2
KOTTBUS		1						1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=West North Central -----

Serotype	STATE							TOTAL
	Iowa	Kansas	Minnesota	Missouri	North Dakota	South Dakota		
LEXINGTON					2			2
LITCHFIELD	1		4	5				10
LIVINGSTONE				1				1
LONDON			1					1
MANHATTAN		1	1	2				4
MARINA	1							1
MBANDAKA	3		9	2	1	2		17
MELEAGRIDIS			1	2				3
MIAMI	1		4	3		1		9
MICHIGAN	1							1
MIKAWASIMA	1							1
MINNESOTA				1				1
MISSISSIPPI				6		1		7
MONTEVIDEO	6	9	10	18	1	2		46
MUENCHEN	5	7	10	15		1		38
MUENSTER	1		1					2
NEWPORT	32	51	52	165	9	5		314
NIMA				1				1
NORWICH		4	3	22				29
OHIO			1	2				3

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=West North Central -----

Serotype	STATE							TOTAL
	Iowa	Kansas	Minnesota	Missouri	North Dakota	South Dakota		
ORANIENBURG	4	8	11	16	1	1	41	
OSLO				1			1	
OTHMARSCHEN					1		1	
PANAMA			5	9	1	2	17	
PARATYPHI A		1	3				4	
PARATYPHI B	1		1		1	4	7	
PARERA	2						2	
POMONA		1					1	
POONA	2	6	7	12	1		28	
PUTTEN		1					1	
READING		1		2			3	
RIDGE	1						1	
RISSEN			1				1	
RUBISLAW		1		3			4	
SAINTPAUL	4	1	12	7		1	25	
SANDIEGO		1	1	1			3	
SCHWARZENGRUND	3			1			4	
SENFTENBERG	1		7	1	1	2	12	
STANLEY	2		1	2	1	2	8	
STANLEYVILLE			1	1			2	

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=West North Central -----

Serotype	STATE						TOTAL
	Iowa	Kansas	Minnesota	Missouri	North Dakota	South Dakota	
SUBSPECIES I			2				2
SUBSPECIES II			2				2
SUBSPECIES IIIA		1	2				3
SUBSPECIES IIIA/IIIB			3				3
SUBSPECIES IIIB			1				1
SUBSPECIES IV	5		1				6
TELELKEBIR			1	2			3
TENNESSEE	1		3	1			5
THOMPSON	6	4	8	18	1	3	40
TYPHI	1		8	8	1		18
TYPHIMURIUM	48	38	211	207	28	49	581
TYPHIMURIUM VAR COPE	36	21					57
UGANDA	1		2				3
UNKNOWN	1		14	2	2		19
URBANA					1		1
VIRCHOW			3	3			6
WANDSWORTH						1	1
WELIKADE			2				2
WELTEVREDEN	1			1			2

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=West North Central -----

	STATE					TOTAL	
	Iowa	Kansas	Minnesota	Missouri	North Dakota		South Dakota
TOTAL	312	227	728	943	88	131	2429

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL	
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia				
ABONY								1			1	1
ADELAIDE			6	1				2			9	
AGBENI				1							1	
AGONA	1		13	4	1	7	12		1		39	
ALACHUA			1								1	
ALBANY							1				1	
ALLANDALE			1								1	
ALTONA				1							1	
AMSTERDAM				1			1				2	
ANATUM		2	5	4	1	1					13	
APAPA				1							1	
AQUA			1								1	
ARECHAVALETA				1							1	
AUGUSTENBORG					1						1	
AUSTRALIA				3							3	
BALL									1		1	
BARDO				1							1	
BAREILLY	1		13	3	19		15		1		52	
BERTA	1	3	5	5	13	2	20		2		51	

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia			
BLOCKLEY			1			1					2
BOVISMORBIFICANS			6	3	9	4					22
BRAENDERUP			23	6	10	7	37	6			89
BRANDENBURG	1		6	1	7		3				18
BREDENEY				1							1
CARMEL			1								1
CARRAU			1		3						4
CERRO			4		1						5
CHAMELEON			2	1			1				4
CHESTER				1							1
CUBANA	1		1								2
DERBY		4	8	2	8		8				30
DUBLIN			1	2			1				4
DUNKWA						1					1
DURBAN				1							1
DURHAM					1						1
EALING				1				1			2
EASTBOURNE								1			1
EMEK			1								1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia			
ENTERITIDIS	30	19	89	252	220	176	375	37			1198
FAYED					2						2
FLINT		1	2		2						5
FLORIDA				1	1						2
GAMINARA			6	3	3	8					20
GIVE		1	1	1		1	4				8
GLOSTRUP							1				1
GROUP 60			1								1
GROUP 61			2								2
GROUP B		96	6	19			37				158
GROUP C1		55	4	2			3				64
GROUP C2		88	4	1			1				94
GROUP D1		147	5	1			1	1			155
GROUP E1		13					1				14
GROUP F		45	1								46
GROUP G		18									18
GROUP I			1								1
GROUP J		6									6
GROUP M		1									1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia			
GROUP N		1									1
GROUP O		3									3
GROUP P					1						1
GROUP R		2									2
GROUP S				1							1
GROUP Y			1	4							5
GROUP Z		76		3							79
GRUMPENSIS			1								1
HADAR	4		10	14	6	1	5				40
HARTFORD			10	4	13	7	2				36
HATO			2								2
HAVANA				1	2		2	1			6
HAYINDOGO						1					1
HEIDELBERG	11		101	31	64	24	53	8			292
HERSTON								1			1
HINDMARSH				2			1				3
HOLCOMB				1							1
HVITTINGFOSS				2			2				4
I 4,5,12:I:-			26								26

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL	
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia				
IBADAN					1							1
IIIA 48:G,Z51:-			2									2
IIIB 38:1,V:Z53			1									1
INDIANA				2								2
INFANTIS	3	1	17	4	19	2	17					63
INVERNESS			2		14							16
IRUMU			2		1							3
ISANGI					1							1
ISTANBUL			1									1
ITURI			1	3								4
JAVA	3		20	9	15	3	20	4				74
JAVIANA	6	10	210	25	124	88	20					483
JOHANNESBURG			3		4	1	1					9
KAAPSTAD			1									1
KALAMU					1							1
KEDOUGOU			1									1
KENTUCKY			7				1					8
KIAMBU							1					1
KINGSTON				1								1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia			
KINSHASA								1			1
KOKOMLEMLE			1								1
KOTTBUS			2		5						7
KRALENDYK			1								1
KRISTIANSTAD		1									1
KUA					2						2
LANDAU					1						1
LANDWASSER				1							1
LEEUWARDEN			2								2
LINDENBURG										1	1
LITCHFIELD			7	1	1	2		3		1	15
LOANDA					1						1
LOMITA								1			1
LONDON				1	2			1			4
LOUBOMO				1							1
LUCIANA			1								1
MADELIA						1					1
MANHATTAN		1			3			1		1	6
MARINA			1	2	1			1			5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL	
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia				
MBANDAKA			9	8	5	3					3	28
MEEKATHARRA					1							1
MENDOZA											2	2
MIAMI			14		12	7	1					34
MINNESOTA				2								2
MISSISSIPPI		3	68		32	26	3					132
MONTEVIDEO	5	3	44	7	12	15	14	7				107
MUENCHEN		2	70	10	21	25	16	1				145
MUENSTER	1		1	1	3		2					8
NEWRUNSWICK					1							1
NEWPORT	19	14	314	69	212	109	94	7				838
NORWICH			7				1	1				9
OHIO			3		3							6
ORANIENBURG	2		18	15	14	14	16					79
ORITAMERIN		1										1
OSLO			1					1				2
OTHMARSCHEN											1	1
PAKISTAN				3								3
PANAMA			3	1		1	4					9

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia			
PARATYPHI A		1	1	1	2			3		1	9
PARATYPHI B				3	1	5				5	14
PENSACOLA			2								2
POMONA			2								2
POONA	1	1	15	5	2	2		2			28
READING			1	2	1			1			5
RIDGE								1			1
ROMANBY					1						1
ROSTOCK				2							2
RUBISLAW		6	10	4	1	5		1			27
SAINTPAUL	1	6	26	4	16	8		19		2	82
SANDIEGO				6	4	5		2			17
SCHOENEBERG					1						1
SCHWARZENGRUND			5	3	4			1			13
SENFTEMBERG		14	4			1		2			21
SEREMBAN				1							1
SOERENGA			1								1
STANLEY		2	7	8	4	2		1		1	25
STANLEYVILLE			2	2	1						5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia			
SUBSPECIES I		4	3					2			9
SUBSPECIES II								1			1
SUBSPECIES IIIA			1					8			9
SUBSPECIES IIIB					7	6			1		14
SUBSPECIES IV	1							1			2
SUNDSVALL	1				1			2			4
TELELKEBIR					1						1
TENNESSEE			2						2		4
THOMPSON	1		16	6	15	5		2			47
TORNOW			1								1
TREFOREST				2							2
TYPHI	2	14	10	11	3	1		9			50
TYPHIMURIUM	25	14	183	92	300	112		247	48		1021
TYPHIMURIUM VAR COPE	1		188	79							268
UGANDA				2	3			5			10
UNKNOWN			1	2	3	29		2			37
URBANA	1			3				3			7

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=South Atlantic

Serotype	STATE										TOTAL
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia			
UZARAMO			1		1						1
VENEZIANA			1								1
VIRCHOW			1	4			2				7
VIRGINIA			2				1				3
WASSENAAR	1		1				1				3
WELTEVREDEN	1				1		1				3
WIEN							2				2
WORTHINGTON			1	1	11		1				14
TOTAL	125	679	1696	797	1283	720	1138	149			6587

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=East South Central

Serotype	STATE				TOTAL
	Alabama	Kentucky	Mississippi	Tennessee	
AARHUS			1		1
ADELAIDE				1	1
AGONA	4	2		3	9
ALABAMA	1				1
ALACHUA	1				1
ANATUM	4	3		5	12
BAILDON		1		1	2
BARDO			3		3
BAREILLY	3	10	4	27	44
BERTA		2	1	3	6
BLOCKLEY			1	4	5
BOVISMORBIFICANS	4				4
BRADFORD				1	1
BRAENDERUP	4	3	2	5	14
BRANDENBURG	3	1		2	6
BREDENEY		1		1	2
CERRO				1	1
CHAMELEON				1	1
CHESTER		1			1
CHICHIRI		1			1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=East South Central

Serotype	STATE				TOTAL
	Alabama	Kentucky	Mississippi	Tennessee	
CHINGOLA			1		1
CHOLERAESUIS VAR KUN		1			1
DERBY	3	1	1	4	9
DUBLIN	1			1	2
EALING				1	1
EASTBOURNE				1	1
ENTERITIDIS	52	33	8	65	158
FAYED		1			1
FLINT				2	2
FLORIDA				1	1
GAMINARA	6		1	1	8
GIVE	3		2		5
GROUP 51				1	1
GROUP 61				1	1
GROUP A				1	1
GROUP B	14		2	1	17
GROUP C1			1		1
GROUP C2				2	2
GROUP D1	4			4	8

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=East South Central

Serotype	STATE				TOTAL
	Alabama	Kentucky	Mississippi	Tennessee	
GROUP D2			1		1
GROUP O				1	1
GROUP V				1	1
GROUP W	1				1
HADAR	6	2		3	11
HARTFORD	2	2	1	5	10
HAVANA	1				1
HEIDELBERG	43	20	7	41	111
HOUTEN	4				4
I 4,5,12:I:-				17	17
INFANTIS	7	2	2	9	20
INVERNESS			1		1
ITAMI			47		47
ITURI				1	1
IV 44:Z4,Z23:-				1	1
JAVA	1		11	18	30
JAVIANA	70	7	28	47	152
JOHANNESBURG	1				1
KENTUCKY				1	1
KIAMBU	1				1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=East South Central

Serotype	STATE				TOTAL
	Alabama	Kentucky	Mississippi	Tennessee	
KINTAMBO				1	1
LAGOS			1		1
LINDENBURG	1				1
LITCHFIELD	3	1	1	5	10
LONDON	2			1	3
MANHATTAN	5			2	7
MARINA		1			1
MBANDAKA	10			5	15
MIAMI	1	1		1	3
MINNESOTA				1	1
MISSISSIPPI	22	3	37	28	90
MONO	2				2
MONTEVIDEO	25	2	2	7	36
MUENCHEN	34	1	11	10	56
MUENSTER				3	3
NESSZIONA			2		2
NEWBRUNSWICK	2				2
NEWPORT	70	29	79	134	312
NIENSTEDTEN				1	1
NOLA			1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=East South Central

Serotype	STATE				TOTAL
	Alabama	Kentucky	Mississippi	Tennessee	
NORWICH	3	3	5	14	25
OHIO	1				1
ORANIENBURG	13	3		14	30
OSLO		1			1
ODWIJK	1				1
PANAMA	5	4			9
PARATYPHI A	1				1
PARATYPHI B	8	3			11
PENSACOLA	4			1	5
POMONA				1	1
POONA	3	4		5	12
PUTTEN	5	1			6
READING		2	1		4
RODEPOORT	1				1
RUBISLAW	1		3	1	5
SAINTPAUL	9	1		3	13
SANDIEGO	1	1		6	8
SCHLEISSHEIM	4				4
SCHWARZENGRUND		4	1		9
SINSTORF	1				1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=East South Central -----

Serotype	STATE				TOTAL
	Alabama	Kentucky	Mississippi	Tennessee	
STANLEY	2	1		4	7
STANLEYVILLE				1	1
SUBSPECIES I	3			5	8
SUBSPECIES IIIA	1				1
SUBSPECIES IV	2	1			3
TELELKEBIR		1			1
TENNESSEE		1			1
THOMPSON	10	5		17	32
TYPHI	2			1	3
TYPHIMURIUM	145	48	40	116	349
TYPHIMURIUM VAR COPE		22	5	104	131
UGANDA		1		3	4
UNKNOWN	4	6	5	68	83
URBANA		2			2
VIRCHOW				1	1
WELTEVREDEN	1	1			2
WORTHINGTON				1	1
TOTAL	652	248	320	856	2076

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=West South Central

Serotype	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
ADELAIDE		1		2	3
AGONA		8	7	20	35
ANATUM	1	14	1	13	29
BAREILLY	1	19	5	3	28
BERTA	1	5	39	6	51
BOVISMORBIFICANS		1		3	4
BRAENDERUP	2	14	8	28	52
BRANDENBURG		2		3	5
BREDENEY		1	6	8	15
CERRO		3		3	6
CHAMELEON		1	1		2
COELN			1		1
CUBANA		2	1	1	4
DERBY				4	4
DRYPOOL				1	1
DUBLIN				1	1
DUESSELDORF				2	2
EASTBOURNE		1		1	2
ENTERITIDIS	4	27	24	62	117
GALIL				2	2

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=West South Central

Serotype	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
GAMINARA		14		1	15
GIVE		19	1	9	29
GLOSTRUP	1				1
GROUP 51				1	1
GROUP B		32	13	15	60
GROUP C1			5	6	11
GROUP C2			1	1	2
GROUP D1		6	1	2	9
GROUP E1		1	1	3	5
GROUP E4			1		1
GROUP G				1	1
GROUP I		1		1	2
GROUP O				1	1
HADAR		4	2	2	8
HARTFORD		4	2		6
HAVANA				1	1
HEIDELBERG	9	47	12	31	99
HVITTINGFOSS		8		1	9
IBADAN				5	5
INFANTIS		6	12	37	55

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=West South Central

Serotype	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
INVERNESS		1			1
JAVA		5	4	25	34
JAVIANA	5	109	2	70	186
JOHANNESBURG			1		1
KENTUCKY				2	2
KIAMBU				2	2
LINDENBURG			1		1
LITCHFIELD		7	3	4	14
MADELIA				1	1
MANHATTAN		2	1		3
MARINA				1	1
MARSHALL				1	1
MBANDAKA		4	2	3	9
MELEAGRIDIS		1			1
MIAMI		1			1
MINNESOTA		1		2	3
MISSISSIPPI	2	70	3	19	94
MONSCHAUI		1			1
MONTEVIDEO	3	29	8	25	65
MUENCHEN		28	10	15	53

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=West South Central

Serotype	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
MUENSTER				1	1
NEWPORT	17	159	88	118	382
NIMA				1	1
NORWICH	4	3	5	1	13
OHIO		2			2
ORANIENBURG		12	15	41	68
OSLO				1	1
PANAMA		1	1	20	22
PAPUANA	1				1
PARATYPHI A				7	7
PARATYPHI B		6	13	2	21
PARATYPHI C			1		1
PENSACOLA	1				1
PHOENIX				2	2
POMONA				1	1
POONA	1	1	2	11	15
PUTTEN				1	1
READING		1	1		2
RECHOVOT			1		1
RISSEN			1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=West South Central

Serotype	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
RUBISLAW	1	12	5	2	20
SAINTPAUL		9	3	14	26
SANDIEGO		1		5	6
SAPHRA		2		5	7
SCHWARZENGRUND		2	1	3	6
SENFTEMBERG	1	3	1	5	10
SOMONE				1	1
STANLEY			1	2	3
STANLEYVILLE				2	2
SUBSPECIES II			5		5
SUBSPECIES III			2		2
SUBSPECIES IIIA/IIIB				5	5
SUBSPECIES IV		1			1
SUNDSVALL		2			2
TELELKEBIR		1			1
TENNESSEE				1	1
THOMPSON		12	5	6	23
TSEVIE				2	2
TYPHI				13	13

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=West South Central -----

Serotype	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
TYPHIMURIUM	30	104	96	121	351
UGANDA			5	2	7
UNKNOWN	6			35	41
URBANA		3	1	1	5
VIRCHOW		2	1		3
WASSENAAR				1	1
WELTEVREDEN		1		1	2
WORTHINGTON		2	1	1	4
TOTAL	91	842	434	886	2253

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mountain

Serotype	STATE										TOTAL	
	Arizona	Colorado	Idaho	Nevada	New Mexico	Utah	Wyoming					
ADELAIDE	2	3		1	1	1						8
AGONA	8	7		4	3	2						24
AGQUEVE	1											1
ALACHUA						2						2
ALBANY	1			1								2
AMSTERDAM	1											1
ANATUM	10		3	1	11	1						26
APAPA				1								1
BANALIA					1							1
BANANA		1										1
BARDO				1	1							2
BAREILLY	1				1	1						3
BASSADJI		1										1
BERTA	2	3			1							6
BLOCKLEY	1				1	1						3
BOCHUM				3								3
BONARIENSIS				1						1		2
BOVISMORBIFICANS	1	4										5
BRAENDERUP	7	6	2	9	1	2				1		28
BRANDENBURG		1	1	5								7

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mountain

Serotype	STATE										TOTAL	
	Arizona	Colorado	Idaho	Nevada	New Mexico	Utah	Wyoming					
BREDENEY	1	1			2							4
CALIFORNIA	1											1
CERRO	4											4
CHAMELEON	1	2			1							4
CHESTER	1											1
CREMIEU				1								1
CUBANA	1			1								2
DAHRA				1								1
DERBY	5				1				1			7
DRYPOOL	1											1
DUBLIN	9	1		2	2	1						15
ENTERITIDIS	67	64	27	41	19	43	5					266
FAYED				1								1
GALLINARUM	1											1
GAMINARA	1											1
GEORGIA	2											2
GIVE	2											2
GROENEKAN		1										1
GROUP 53	1											1
GROUP 58	1											1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mountain

Serotype	STATE										TOTAL	
	Arizona	Colorado	Idaho	Nevada	New Mexico	Utah	Wyoming					
GROUP B	1	1	3		6							11
GROUP C1					2							2
GROUP D1	1											1
GROUP E1			1		1							2
GROUP G					1							1
GROUP K					1							1
GROUP R	1											1
GROUP W			1									1
GROUP Y	3											3
GROUP Z	1											1
HADAR	5	6	1	2	3	2						19
HARTFORD	1	1										2
HEIDELBERG	25	38	10	11	10	7	3					104
HVITTINGFOSS		1			1	1						3
I 4,5,12:I:-	5											5
II 50:B:Z6	1											1
INFANTIS	10	5	4	4	1	2						26
IV 45:G,Z51:-			1									1
JANGWANI		2										2
JAVA	2	3	3	1	1	1	1					11

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mountain

Serotype	STATE										TOTAL
	Arizona	Colorado	Idaho	Nevada	New Mexico	Utah	Wyoming				
JAVIANA	20	5		2	13	5					45
JOHANNESBURG										4	4
KENTUCKY	1	1			3					1	6
KIAMBU	2			2						1	5
KOTTBUS	10	2		3	2						17
KRALENDYK		1									1
LITCHFIELD	1			2	3	1				1	8
LIVINGSTONE	1				1						2
LOMALINDA	1										1
LOMITA	1										1
LONDON	1										1
MANHATTAN		1			1						2
MARINA	1		2			1					4
MBANDAKA	2	5		3	6	7					23
MELEAGRIDIS				1							1
MIKAWASIMA				1							1
MINNESOTA										2	2
MONTEVIDEO	18	9	5	6	11	6					55
MUENCHEN	20	5	4	1	8	1					39
MUENSTER					1						1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mountain

Serotype	STATE										TOTAL	
	Arizona	Colorado	Idaho	Nevada	New Mexico	Utah	Wyoming					
NDOLO		1										1
NEWINGTON	3	1										4
NEWMEXICO	1				1							2
NEWPORT	83	31	9	15	47	22	2					209
NORWICH	1			2								3
OHIO	3	3										6
ORANIENBURG	43	22	3	1	15	7						91
OSLO						1						1
OTHMARSCHEN				1								1
OUAKAM	1											1
PANAMA	22	3			2	1						29
PARATYPHI A	3	4	1									8
PARATYPHI B	3	7	1	7								18
POMONA				1								1
POONA	47	1	4	9	7	3						71
READING	3	1		1								5
RICHMOND	1											1
RIGGIL				1								1
RUBISLAW	2											4
SAINTPAUL	14	4	1	1	4	5	1					30

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

..... REGION=Mountain

Serotype	STATE										TOTAL	
	Arizona	Colorado	Idaho	Nevada	New Mexico	Utah	Wyoming					
SANDIEGO	6	2	1		2	5						16
SCHWARZENGRUND	3				1							4
SENFTEMBERG	12	16		4	4	3						39
STANLEY		3	2	2		1				1		9
SUBSPECIES I	2	1	1	1								5
SUBSPECIES II	1		1									2
SUBSPECIES III				1								1
SUBSPECIES IIIA/IIIB					4					1		5
SUBSPECIES IIIB	1	1	1									3
SUBSPECIES IV	1				1							2
TALLAHASSEE	1											1
TENNESSEE	1	1										2
THOMPSON	10	1	2	7	6							26
TRAVIS	1											1
TYPHI	1			4		2						7
TYPHIMURIUM	113	101	10	21	13	60	19					337
TYPHIMURIUM VAR COPE	1	14	9	11	14		4					53
TYPHISUIS		1										1
UGANDA						1						1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=Mountain

Serotype	STATE										TOTAL	
	Arizona	Colorado	Idaho	Nevada	New Mexico	Utah	Wyoming					
UNKNOWN	1	200	2			9	5					217
URBANA			1			1						2
VEJLE				1								1
VICTORIA				1								1
VIRCHOW	2		1	1		8						12
WANDSBEK	1											1
WASSENAAR	1											1
WAYCROSS			1									1
WELTEVREDEN						1						1
WERNIGERODE		1										1
WORTHINGTON						1						1
TOTAL	658	601	119	206	242	222	54					2102

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE						TOTAL
	Alaska	California	Hawaii	Oregon	Washington		
AARHUS					1		1
ABAEETETUBA		1					1
ABERDEEN			1				1
ABONY		1					1
ADELAIDE		13		1			15
AGAMA		1					1
AGONA		66	23	1		3	93
ALACHUA				1			1
ALBANY		2				1	3
ANATUM		18	3	1		8	30
APAPA		1				2	3
BARDO		3					3
BAREILLY		7				1	8
BERE		1					1
BERTA		29		1			30
BIRKENHEAD			2				2
BLOCKLEY		2		2			4
BONN		1					1
BOVISMORBIFICANS		9	2			1	12
BRAENDERUP	1	42		7		6	56

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

REGION=Pacific

Serotype	STATE					TOTAL
	Alaska	California	Hawaii	Oregon	Washington	
BRANDENBURG		29			3	32
BREDENEY		4			2	6
CARMEL				1		1
CARRAU		1				1
CERRO		5	1	2	2	10
CEYCO				1		1
CHESTER		1		1		2
CHOLERAESUIS		6				6
CLAIBORNEI		1				1
COELN					1	1
CONCORD		1				1
CUBANA		4			1	5
DAYTONA					4	4
DERBY		18	2	1		21
DRYPOOL		2				2
DUBLIN	1	27	3	1	5	37
EALING		2				2
EASTBOURNE		1				1
EBRIE		2				2
ELOMBRANE		1				1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE						TOTAL
	Alaska	California	Hawaii	Oregon	Washington		
ENTERITIDIS	4	470	48	31	120		673
FLINT					1		1
FREETOWN		1					1
FRESNO		1					1
GAMINARA		4	2				6
GIVE		6	2	2	4		14
GLOSTRUP		1					1
GROUP 61		2					2
GROUP 65		1					1
GROUP B		74	5	2	1		82
GROUP C1		5	1	5			11
GROUP C2		1		1			2
GROUP D1		2		1			3
GROUP E1		20		7			27
GROUP F		1					1
GROUP G		5		2			7
GROUP K		3					3
GROUP L		2					2
GROUP R		2					2
GROUP S				1			1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE					TOTAL
	Alaska	California	Hawaii	Oregon	Washington	
GROUP U					1	1
GROUP V				2		2
GROUP W		1				1
GROUP Y		1				1
GROUP Z		17				17
HAARDT		2				2
HADAR		44	7	1	4	56
HARTFORD		5			2	7
HAVANA		6				6
HEIDELBERG	10	241	14	29	55	349
HOUTEN		1				1
HVITTINGFOSS		5			1	6
IBADAN	1					1
IIIB 48:I:Z					1	1
INDIANA		1			2	3
INFANTIS	1	74	3	6	13	97
IRUMU		2				2
ISANGI		1				1
ISTANBUL		15				15
ITAMI					3	3

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE						TOTAL
	Alaska	California	Hawaii	Oregon	Washington		
JAVA	1	53		8			62
JAVIANA		21	3	6	4		34
JOHANNESBURG		1					1
KENTUCKY		3					3
KIAMBU		5		1			6
KINGABWA		1			1		2
KOKOMLEMLE		2					2
KOTTBUS		33		2	1		36
KRALENDYK		1					1
LANKA				1			1
LATTENKAMP		1					1
LEXINGTON		1					1
LIMETE		1					1
LITCHFIELD		12					12
LIVINGSTONE					1		1
LOMALINDA		2					2
LOME		1					1
LOMITA					1		1
LONDON		3					3
LUCIANA					1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE						TOTAL
	Alaska	California	Hawaii	Oregon	Washington		
MANHATTAN		6		1			7
MARINA		4	1	1			7
MATADI					1		1
MBANDAKA		10	1			1	12
MELEAGRIDIS		3					3
MIAMI		1					1
MIKAWASIMA		1					1
MILWAUKEE		1				1	2
MINNESOTA	1	3					4
MISSISSIPPI		1					1
MONSCHAUI		1				2	3
MONTEVIDEO	2	101	8	14		21	146
MUENCHEN		40	14	9		12	75
MUENSTER		12					12
NEWBRUNSWICK		5	1				6
NEWPORT		279	25	20		48	372
NIMA		1					1
NOTTINGHAM						1	1
OHIO		16					16
ONDERSTEPOORT				1			1

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE						TOTAL
	Alaska	California	Hawaii	Oregon	Washington		
ORANIENBURG		53		10	15		78
OSLO		2	4	2	1		9
OTHMARSCHEN		1					1
OVERSCHIE		1					1
PANAMA		19	2		3		24
PARATYPHI A		12	2		3		17
PARATYPHI B		9	7	1	26		43
POMONA		4			3		7
POONA	2	61		3	15		81
POTSDAM		1					1
PUTTEN		1					1
READING		14	1		1		16
RICHMOND		1					1
RUBISLAW		3					3
SAINTPAUL	2	33	2	6	63		106
SALINATIS		2					2
SANDIEGO		9			3		12
SAPHRA		3			1		4
SCHWARZENGRUND		10	3	6	1		20
SENEGAL					2		2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE						TOTAL
	Alaska	California	Hawaii	Oregon	Washington		
SENFTENBERG		25	5			1	31
SOERENGA		1					1
STANLEY	1	31	4	6	8		50
SUBSPECIES I	1				16		17
SUBSPECIES III					5		5
SUBSPECIES IIIA					2		2
SUBSPECIES IIIB			1		1		2
SUBSPECIES IV					3		3
SUNDSVALL		1					1
TENNESSEE		5	1			2	8
THOMPSON		69		4	20		93
TYPHI	2	69	1	8	9		89
TYPHIMURIUM	13	356	116	92	179		756
TYPHIMURIUM VAR COPE		211					211
UGANDA		19					19
UNKNOWN		27		2			29
URBANA		6		1			7
VIRCHOW	2	13		2	7		24
VIRGINIA			2				2

(Continued)

TABLE 4
 SALMONELLA ISOLATIONS FROM HUMAN SOURCES
 BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 2001

----- REGION=Pacific -----

Serotype	STATE					TOTAL
	Alaska	California	Hawaii	Oregon	Washington	
WANDSBEK					1	1
WASSENAAR		4				4
WELIKADE		1				1
WELTEVREDEN		16	49	1	4	70
WESTHAMPTON					3	3
WIEN					1	1
WORTHINGTON		2		1	1	4
TOTAL	45	3040	373	319	747	4524

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL	
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
AARHUS						1					1	2
ABAETETUBA		2	1								1	4
ABERDEEN		4									1	5
ABONY	2	1	6		1						1	11
ADELAIDE	9	20	9	6	9	1	3	8	15			80
AGAMA											1	1
AGBENI			4		1							5
AGONA	27	53	49	41	39	9	35	24	93			370
AGOUEVE		1	1					1				3
ALABAMA						1						1
ALACHUA		2	1	1	1	1		2	1			9
ALBANY	2	6	1	2	1			2	3			17
ALLANDALE					1							1
ALTONA			2		1							3
AMAGER				1								1
AMSTERDAM				2	2			1				5
ANATUM	3	30	31	13	13	12	29	26	30			187
ANNEDAL			1									1
APAPA	1	1		1	1			1	3			8
AQUA					1							1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
ARECHAVALETA	1	1			1						3
AUGUSTENBORG					1						1
AUSTIN	1										1
AUSTRALIA					3						3
BAGUIRMI				1							1
BAILDON						2					2
BALL					1						1
BANALIA							1				1
BANANA							1				1
BARDO	1	4	1	1	1	3		2	3		16
BAREILLY	7	13	14	36	52	44	28	3	8		205
BARRANQUILLA	1	1		1							3
BASSADJI								1			1
BENFICA		1									1
BERE									1		1
BERTA	35	73	58	20	51	6	51	6	30		330
BINZA	1			1							2
BIRKENHEAD									2		2
BLEGDAM		1		1							2
BLOCKLEY	1	7	2	9	2	5		3	4		33

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION											TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
BOCHUM									3			3
BONARIENSIS		1	2						2			5
BONN		1								1		2
BOVISMORBIFICANS	6	10	15	4	22	4	4	5	12			82
BRADFORD						1						1
BRAENDERUP	27	24	67	31	89	14	52	28	56			388
BRANDENBURG	5	15	16	2	18	6	5	7	32			106
BREDAENEY	8	31	6	6	1	2	15	4	6			79
BREZANY		4										4
BRON	1											1
BRONX				1								1
BSILLA			1									1
CALIFORNIA								1				1
CANNSTATT				1								1
CARMEL		6			1					1		8
CARRAU					4					1		5
CERRO		3	2		5	1	6	4	10			31
CEYCO										1		1
CHAMELEON		4	3	1	4	1	2	4				19
CHESTER	2	7	9	1	1	1		1	2			24

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL	
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
CHICHIRI						1					1	
CHINGOLA						1						1
CHOLERAESUIS		1	1								6	8
CHOLERAESUIS VAR KUN	1		1	2		1						5
CLAIBORNEI											1	1
CLERKENWELL			1									1
COELN		1						1			1	3
COLINDALE			2									2
CONCORD	1										1	2
CREMIEU										1		1
CUBANA		3	7	2	2	2		4	2	5		25
CURACAO	1											1
DAHRA									1			1
DAYTONA										4		4
DECATUR			1									1
DENVER		1										1
DERBY	11	13	19	7	30	9	4	7	21			121
DESSAU			1									1
DRYPOOL			1				1	1	2			5
DUBLIN	3	9	5		4	2	1	15	37			76

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL	
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
DUESSELDORF							2					2
DUNKWA					1							1
DURBAN	1	2	1		1							5
DURHAM				2	1							3
EALING		5	6		2		1				2	16
EASTBOURNE		1			1		1				2	6
EBRIE											2	2
EDINBURG		1										1
ELOMRANE											1	1
EMEK		1						1				2
ENTERITIDIS	604	1420	870	308	1198	158	117	266	673			5614
ESSEN				1								1
FARMSEN		1										1
FAYED					2	1				1		4
FLINT	2		2	1	5	2					1	13
FLORIDA	1				2	1						4
FLUNTERN	1		1									2
FREETOWN											1	1
FRESNO				2							1	3
GALIL										2		2

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
GALLINARUM								1			1
GAMINARA	2	2	4		20	8	15	1			58
GARBA	1										1
GATOW		1									1
GATUNI		3									3
GEORGIA		2						2			4
GIVE	2	7	5	3	8	5	29	2	14		75
GLASGOW		1									1
GLOSTRUP	1	1	1		1		1		1		6
GROENEKAN								1			1
GROUP 51						1	1				2
GROUP 53		1						1			2
GROUP 56		1									1
GROUP 58		1						1			2
GROUP 60	1	1	1		1						4
GROUP 61	1	2	2		2	1			2		10
GROUP 65										1	1
GROUP A						1					1
GROUP B	66	84	3	27	158	17	60	11	82		508
GROUP C1	3	18	1	5	64	1	11	2	11		116

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL	
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
GROUP C2	1	3	2		94	2	2		2		2	106
GROUP D1	2	3	2	2	155	8	9	1	3		3	185
GROUP D2						1						1
GROUP E1	7	4	2		14		5	2	27		27	61
GROUP E4							1					1
GROUP F					46				1		1	47
GROUP G	2			1	18		1	1	7		7	30
GROUP I	1	2	1		1		2					7
GROUP J		1	2		6							9
GROUP K								1	3		3	4
GROUP L									2		2	2
GROUP M					1							1
GROUP N					1							1
GROUP O				1	3	1	1					6
GROUP P			1		1							2
GROUP Q		1										1
GROUP R			1	1	2			1	2		2	7
GROUP S		3	1		1				1		1	6
GROUP U											1	1
GROUP V		3	4	2		1					2	12

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
GROUP W		2	1			1			1		6
GROUP X		1									1
GROUP Y		5	3	5				3	1		22
GROUP Z		5	1	1	79			1	17		104
GRUMPENSIS					1						1
GUSTAVIA	1										1
HAARDT	1		1						2		4
HADAR	35	76	33	29	40	11	8	19	56		307
HAIFA	1	1	1	1							4
HAMBURG			5								5
HARTFORD	4	16	59	17	36	10	6	2	7		157
HATO	1				2						3
HAVANA		1	4		6	1	1		6		19
HAYINDOGO					1						1
HEIDELBERG	169	284	272	204	292	111	99	104	349		1884
HERSTON					1						1
HINDMARSH			1		3						4
HOLCOMB		2			1						3
HOUTEN						4			1		5
HULL	1										1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION											TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
HVITTINGFOSS	1	2	3	2	4	17	9	3	6			30
I 4,5,12:I:-		15	48	38	26	1	5	5				149
IBADAN	1		1		1		5		1			9
II 50:B:Z6								1				1
IIIA 48:G,Z51:-					2							2
IIIB 38:1,V:Z53					1							1
IIIB 48:I:Z									1			1
IIIB 61:K:1,5,7	1											1
INDIANA		8			2				3			13
INFANTIS	24	59	71	25	63	20	55	26	97			440
INGANDA			4									4
INVERNESS		3	2		16	1	1					23
IRUMU	1	1		2	3				2			9
ISANGI	1				1				1			3
ISTANBUL		8		2	1				15			26
ITAMI						47			3			50
ITURI			2		4	1						7
IV 44:Z4,Z23:-	2					1						3
IV 45:G,Z51:-	1							1				2
JANGWANI								2				2

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
JAVA	19	31	127	78	74	30	34	11	62	466	
JAVIANA	15	47	55	50	483	152	186	45	34	1067	
JERUSALEM				1						1	
JOHANNESBURG	1	3	9	4	9	1	1	4	1	33	
KAAPSTAD					1					1	
KALAMU					1					1	
KALINA			1							1	
KANDE	1									1	
KEDOUGOU					1					1	
KENTUCKY	9	17	15	3	8	1	2	6	3	64	
KIAMBU	4	4	3	1	1	1	2	5	6	27	
KINGABWA		1							2	3	
KINGSTON		1			1					2	
KINSHASA					1					1	
KINTAMBO		1	1	2		1				5	
KISARAWA	1									1	
KOKOMLEMLE		1			1				2	4	
KONSTANZ	2									2	
KOTTBUS	4	5	2	1	7			17	36	72	
KRALENDYK		2	1		1			1	1	6	

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
KRISTIANSTAD					1						1
KUA					2						2
LAGOS						1					1
LANDAU					1						1
LANDWASSER					1						1
LANKA		2								1	3
LATTENKAMP										1	1
LEEWARDEN					2						2
LEOPOLDVILLE		1									1
LEXINGTON	1	1		2						1	5
LIMETE										1	1
LINDENBURG					1	1	1				3
LITCHFIELD	9	38	24	10	15	10	14	8	12		140
LIVINGSTONE			4	1				2	1		8
LOANDA					1						1
LOMALINDA	1		1					1	2		5
LOME		1								1	2
LOMITA		1			1			1	1		4
LONDON	1	8	3	1	4	3		1	3		24
LOUBOMO					1						1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL	
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
LUCIANA					1						1	2
MADELIA		1			1					1		3
MALSTATT	1											1
MANCHESTER	1											1
MANHATTAN	7	5	8	4	6	7	3	2			7	49
MARINA	1	12	13	1	5	1	1	4			7	45
MARSHALL							1					1
MATADI		1	1								1	3
MATOPENI		1										1
MBANDAKA	3	14	40	17	28	15	9	23			12	161
MEEKATHARRA					1							1
MELEAGRIDIS	4	3	4	3			1	1			3	19
MENDOZA					2							2
MENSTON		2										2
MIAMI	5	4	11	9	34	3	1				1	68
MICHIGAN				1								1
MIKAWASIMA				1				1			1	3
MILWAUKEE		2									2	4
MINNESOTA	1		4	1	2	1	3	2			4	18
MISSISSIPPI	2	6	4	7	132	90	94				1	336

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
MONO						2					2
MONSCHAUI			3				1		3		7
MONTEVIDEO	40	75	56	46	107	36	65	55	146		626
MOSCOW			1								1
MOUALINE	1										1
MOUNTPLEASANT		1									1
MUENCHEN	33	53	91	38	145	56	53	39	75		583
MUENSTER	5	13	19	2	8	3	1	1	12		64
NDOLO								1			1
NESSZIONA						2					2
NEWBRUNSWICK					1	2			6		9
NEWHAW	1										1
NEWINGTON								4			4
NEWMEXICO								2			2
NEWPORT	170	269	292	314	838	312	382	209	372		3158
NIENSTEDTEN							1				1
NIKOLAIFLEET		1									1
NIMA	1	1	1	1			1		1		6
NITRA	1										1
NOLA										1	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION											TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
NORWICH	3	12	2	29	9	25	13	3				96
NOTTINGHAM		1							1			2
OAKLAND			1									1
OHIO	6	12	11	3	6	1	2	6	16			63
ONDERSTEPOORT											1	1
ORANIENBURG	41	69	98	41	79	30	68	91	78			595
ORION		1	2									3
ORITAMERIN			2		1							3
OSLO	1	2	5	1	2	1	1	1	9			23
OTHMARSCHEN		9	1	1	1			1	1			14
OUAKAM								1				1
OUDWIJK						1						1
OVERSCHIE										1		1
PAKISTAN	1	1			3							5
PANAMA	7	20	23	17	9	9	22	29	24			160
PAPUANA							1					1
PARATYPHI A	7	30	2	4	9	1	7	8	17			85
PARATYPHI B	26	29	9	7	14	11	21	18	43			178
PARATYPHI C							1					1
PARERA				2								2

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION											TOTAL			
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific						
PENARTH		1													1
PENSACOLA					2	5	1								8
PHOENIX							2								2
POMONA	7	14	4	1	2	1	1	1				1		7	38
POONA	14	51	30	28	28	12	15	71				81			330
POTSDAM		1	4											1	6
PUTTEN				1		6	1							1	9
READING	1	10	7	3	5	4	2	5				16			53
RECHOVOT							1								1
REMO	1	1	1												3
RICHMOND	1	2	1									1		1	6
RIDGE			1	1	1										3
RIGGIL												1			1
RISSEN			1	1			1								3
ROMANBY					1										1
ROODEPOORT										1					1
ROSTOCK					2										2
RUBISLAW		1	2	4	27	5	20	4				3			66
RUIRU	1														1
SAINTPAUL	62	57	68	25	82	13	26	30				106			469

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION											TOTAL	
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific				
SALINATIS												2	2
SANDIEGO	13	29	10	3	17	8	6	16	12				114
SANKTGEORG		1											1
SAPHRA							7					4	11
SCHLEISSHEIM						4							4
SCHOENEBERG					1								1
SCHWARZENGRUND	11	27	10	4	13	9	6	4	20				104
SENEGAL												2	2
SENFENBERG	6	10	14	12	21		10	39	31				143
SEREMBAN					1								1
SHUBRA		1	2										3
SINGAPORE	1												1
SINSTORF	1	3	2			1							7
SOERENGA		1			1							1	3
SOMONE							1						1
STANLEY	10	42	16	8	25	7	3	9	50				170
STANLEYVILLE	1	7		2	5	1	2						18
STRASBOURG		1											1
SUBSPECIES I	1	26		2	9	8		5	17				68
SUBSPECIES II			1	2	1		5	2					11

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
SUBSPECIES III						2	1	5		8	
SUBSPECIES IIIA				3	9	1		2		15	
SUBSPECIES IIIB	4	1		1	2		3	2		13	
SUBSPECIES IIIA/IIIB				3	14		5			27	
SUBSPECIES IV	2	1	3	6	4	3	2	3		25	
SUNDSVALL					1			1		4	
TALLAHASSEE	1						1			2	
TANGER		1								1	
TELELKEBIR			1	3	4	1				10	
TENNESSEE	4	2	6	5	3	1	2	8		32	
THOMASVILLE			1							1	
THOMPSON	76	82	95	40	47	32	26	93		514	
TORNOW		1			1					2	
TRAVIS							1			1	
TREFOREST					2					2	
TSEVIE									2	2	
TYPHI	21	111	31	18	50	3	7	89		343	
TYPHIMURIUM	405	1242	1005	581	1021	349	337	756		6047	
TYPHIMURIUM VAR COPE	110	111	11	57	268	131	53	211		952	

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL	
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific			
TYPHISUIS									1		1	1
UGANDA	8	26	18	3	10	4	7	1	19		96	
UNKNOWN	11	19	132	19	37	83	41	217	29		588	
URBANA	4	13	12	1	7	2	5	2	7		53	
UZARAMO					1						1	
VEJLE								1			1	
VENEZIANA					1						1	
VICTORIA								1			1	
VIRCHOW	5	14	8	6	7	1	3	12	24		80	
VIRGINIA					3				2		5	
VITKIN		1									1	
WANDSBEK								1	1		2	
WANDSWORTH			2	1							3	
WASSENAAR	2	2	1		3		1	1	4		14	
WAYCROSS		1	2					1			4	
WELIKADE				2					1		3	
WELTEVREDEN	1	2	6	2	3	2	2	1	70		89	
WERNIGERODE								1			1	
WESTHAMPTON									3		3	
WIEN					2				1		3	

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 2001

Serotype	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL	
WORTHINGTON		2	3		14	1	4	1	4	29	
TOTAL	2324	5153	4227	2429	6587	2076	2253	2102	4524	31675	

TABLE 6
 CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
 REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE										TOTAL	
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER			
ADELAIDE	1	.	5	.	.	2	.	2	.	2	.	10
AGO	1	.	1
AGONA	5	37	75	56	170	7	11	.	2	.	363	
ALACHUA	.	.	8	.	.	.	.	.	.	.	8
ALBANY	.	1	.	4	.	.	.	.	.	.	5
AMAGER	.	.	.	1	.	.	.	.	.	.	1
AMSTERDAM	.	.	.	1	.	.	.	.	.	.	1
ANATUM	1	2	39	55	28	6	8	.	4	.	143	
ARECHAVALETA	.	.	.	.	.	.	.	1	.	.	1
BANANA	.	.	.	1	.	1	.	.	.	.	2
BARDO	.	.	.	26	2	.	.	2	.	.	30	
BAREILLY	.	.	.	1	5	2	1	1	.	.	10	
BEAUDESERT	.	.	.	.	.	.	1	.	.	.	1
BERTA	2	7	1	3	3	.	.	.	1	.	17	
BINZA	.	.	.	.	.	1	.	.	.	.	1
BOVISMORBIFICANS	.	.	2	2	1	.	.	.	.	.	5
BRAENDERUP	2	.	1	13	15	1	2	4	.	.	38	
BRANDENBURG	.	3	21	2	.	.	3	2	1	.	32	
BRENENEY	.	54	12	2	13	.	.	.	.	.	81
CAMBRIDGE	.	.	.	1	.	.	.	.	.	.	1
CARRAU	.	.	.	1	1	1	.	.	.	.	3

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE										TOTAL	
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER			
CERRO	3	.	1	57	1	.	1	.	.	1	.	63
CHAMELEON	.	.	.	.	.	.	.	.	2	.	.	2
CHOLERAESUIS	.	.	1	.	.	.	.	.	.	.	.	1
CHOLERAESUIS VAR KUN	.	.	253	.	.	.	.	.	.	1	.	255
CLIFTON	.	.	.	.	.	.	.	.	1	.	.	1
CUBANA	1	7	.	2	.	.	.	.	1	.	1	12
DERBY	1	3	125	6	5	2	1	.	.	1	1	144
DIBRA	.	.	.	.	.	.	1	.	.	.	.	1
DRYPOOL	1	.	.	2	.	.	.	.	.	.	.	3
DUBLIN	.	.	2	141	.	.	3	.	.	.	.	146
EALING	.	.	.	.	.	.	.	.	1	.	.	1
ENTERITIDIS	93	32	5	13	3	1	11	1	1	.	.	159
FLUNTERN	.	.	.	.	.	.	.	.	2	.	.	2
FRESNO	.	.	.	.	.	.	.	.	1	.	.	1
GAMINARA	.	.	.	1	.	.	.	.	2	.	.	3
GIVE	.	.	3	13	1	.	.	.	.	1	.	18
GROUP 51	.	.	.	.	.	.	.	.	1	.	.	1
GROUP 52	.	.	.	.	.	.	.	.	1	.	.	1
GROUP 53	.	.	.	.	.	.	.	.	4	.	1	5
GROUP 56	.	.	.	.	.	.	1	.	10	.	.	11
GROUP 57	.	.	.	.	.	.	.	.	2	.	.	2

(Continued)

TABLE 6
 CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
 REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE											TOTAL
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER			
GROUP 58	4	.	.	4
GROUP 60	1	.	.	.	2	.	.	3
GROUP 61	.	.	2	1	.	27	.	.	9	.	.	39
GROUP 62	6	.	6
GROUP 65	3	.	.	3
GROUP B	4	3	18	38	16	7	15	1	1	.	.	102
GROUP C1	.	2	9	4	2	.	.	.	3	.	.	20
GROUP C2	.	.	.	5	.	.	1	1	1	.	.	7
GROUP D1	.	.	.	30	.	.	1	.	.	.	.	31
GROUP E1	.	.	.	2	2	.	.	.	.	.	.	4
GROUP E3	.	.	.	3	.	.	1	.	.	.	.	4
GROUP E4	.	1	.	.	.	.	.	.	.	.	.	1
GROUP F	2	.	1	.	.	.	.	3
GROUP G	.	.	1	.	.	.	.	.	.	.	.	1
GROUP H	2	.	.	2
GROUP I	2	.	.	2
GROUP J	1	.	.	.	1	.	3	5
GROUP K	.	2	.	.	.	.	2	.	2	.	2	8
GROUP L	1	.	.	1
GROUP N	1	.	.	1
GROUP O	1	.	1	.	1	2

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE										TOTAL
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER		
GROUP P	8	1	9
GROUP R	1	.	1	4	.	.	6
GROUP S	1	2	4	.	.	7
GROUP T	1	.	1	.	.	2
GROUP V	5	2	.	7
GROUP W	1	3	.	.	4
GROUP X	2	8	.	.	10
GROUP Y	2	1	15	.	.	18
GROUP Z	2	.	2	11	.	.	15
HADAR	6	43	.	2	3	1	3	.	6	.	64
HAGENBECK	1	.	.	1
HARMELEN	1	.	.	1
HARTFORD	.	1	2	1	2	1	1	.	2	.	10
HAVANA	1	.	5	4	5	1	2	1	.	.	19
HEIDELBERG	79	169	93	27	12	30	15	.	11	.	436
HOLCOMB	3	.	.	.	.	.	3
HOUTEN	.	.	.	2	.	.	1	1	.	.	4
IBADAN	1	.	.	1
INDIANA	3	.	.	.	3
INFANTIS	4	1	54	27	20	11	16	1	1	1	135
INVERNESS	1	.	1

(Continued)

TABLE 6
 CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
 REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE											TOTAL		
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER					
ISTANBUL	.	2	2
JAVA	.	.	.	7	12	3	1	1	2	26				
JAVIANA	.	1	.	2	6	8	4	.	.	21				
JOHANNESBURG	.	.	4	.	.	1	.	.	.	5				
KENTUCKY	26	5	.	65	3	7	3	.	.	109				
KIAMBU	.	.	.	5	.	2	2	.	.	9				
KINSHASA	.	.	.	1	.	.	.	.	.	1
KISARAWA	.	.	.	.	.	.	.	2	.	2
KREFELD	.	.	4	.	.	.	.	.	.	4
LEXINGTON	.	.	.	1	.	.	.	.	.	1
LILLE	2	1	.	1	.	.	.	.	.	4
LITCHFIELD	2	2	1	2	2	.	3	.	.	12				
LIVINGSTONE	3	.	2	4	.	.	.	.	.	9
LOHBRUEGGE	.	.	.	.	.	.	.	1	.	1
LONDON	.	.	7	4	1	.	1	.	.	13				
MADELIA	.	.	.	.	.	1	.	.	.	1
MANHATTAN	.	.	6	.	.	.	.	.	.	6
MANILA	.	.	.	1	.	.	3	.	.	4				
MARINA	.	.	.	.	.	.	.	3	.	3
MBANDAKA	4	1	11	17	16	4	2	6	3	64				
MELEAGRIDIS	.	.	2	46	6	1	2	.	.	57				

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE											TOTAL	
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER				
MENHADEN	1	.	.	.	.	.	.	.	1
MIAMI	6	.	.	.	1	.	.	.	8
MIDWAY	1	.	.	.	.	1
MINNEAPOLIS	.	.	.	1	1	.	.	.	.	.	.	.	2
MINNESOTA	1	7	.	3	3	1	.	.	1	.	.	1	17
MISSISSIPPI	2	.	.	.	.	.	.	.	2
MONTEVIDEO	2	47	4	110	12	9	4	2	2	1	.	.	191
MOWANJUM	1	.	.	.	.	1
MUENCHEN	2	.	24	17	15	2	5	3	.	.	.	.	68
MUENSTER	.	67	13	78	25	4	2	3	3	9	.	.	201
NEWBRUNSWICK	.	.	1	17	.	.	.	3	.	.	.	.	21
NEWINGTON	.	.	3	8	20	2	.	.	.	.	.	.	33
NEWPORT	.	10	25	643	202	77	17	8	4	.	.	.	986
NORWICH	.	.	2	.	1	1	2	.	.	.	.	.	6
OHIO	.	.	12	4	2	.	.	.	.	.	.	.	18
ONDERSTEPOORT	1	.	.	.	.	1
ORANIENBURG	2	.	2	24	18	5	2	5	.	.	.	.	58
ORION	.	.	8	2	.	1	.	.	.	.	.	.	11
OTHMARSCHEN	1	1	.	.	.	.	.	.	2
PANAMA	.	.	.	2	.	.	.	4	.	.	.	.	6
PENSACOLA	2	.	.	.	.	2

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE										TOTAL
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL	
TYPHIMURIUM	21	74	106	403	135	35	78	2	8	862	
TYPHIMURIUM VAR COPE	5	53	454	492	52	67	41	5	12	1181	
UGANDA	.	.	9	76	2	2	.	.	.	89	
URBANA	.	.	.	1	.	.	.	1	.	2	
VIRCHOW	.	.	.	.	.	.	.	1	.	1
VIRGINIA	.	1	.	1	.	1	.	.	.	3	
WANDSBEK	.	.	.	.	.	.	.	1	.	1
WELTEVREDEN	.	.	.	.	.	.	.	2	.	2
WESTHAMPTON	.	.	.	.	.	.	1	.	.	1
WORTHINGTON	.	1	24	3	5	.	2	.	1	36	
TOTAL	298	914	1486	2670	908	364	303	207	93	7243	

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE											TOTAL		
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER				
CAMBRIDGE	1	1
CANNSTATT	3	2	5
CERRO	20	1	16	36	.	17	.	.	.	.	.	19	109
CHOLERAESUIS VAR KUN	.	3	1	.	.	.	.	.	.	.	.	2	6
CUBANA	3	4	.	7	.	.	.	.	.	.	.	6	20
DERBY	3	24	133	.	.	.	1	14	.	.	.	93	268	
DRYPOOL	.	1	.	.	.	.	.	.	1	.	.	1	3
DUBLIN	.	.	.	5	.	.	.	.	.	.	.	8	13
DURBAN	.	.	.	.	.	.	.	.	.	.	.	1	1
ENTERITIDIS	158	16	5	.	.	17	1	4	.	.	.	72	273	
FRESNO	.	.	.	.	.	.	.	.	.	.	.	6	6
GAMINARA	1	.	.	.	.	.	.	.	.	.	.	.	1
GIVE	2	.	1	.	.	7	.	1	.	.	.	19	30	
GLOSTRUP	.	.	.	.	.	.	.	.	.	.	.	2	2
GROUP 51	1	.	.	.	.	.	.	.	.	.	.	.	1
GROUP 56	.	.	.	.	.	.	.	.	.	.	.	1	1
GROUP 58	.	.	.	.	.	.	.	1	.	.	.	4	6
GROUP 60	.	.	.	.	.	.	.	.	.	.	.	24	24
GROUP 61	.	.	.	.	.	.	.	.	.	.	.	1	1
GROUP 62	.	.	.	.	.	1	.	.	.	.	.	.	1
GROUP 65	.	.	.	.	.	.	.	.	.	.	.	1	1

(Continued)

TABLE 7
 NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
 REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE											TOTAL
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER		
GROUP B	27	15	39	.	1	8	1	1	.	19	111	
GROUP C1	9	4	.	1	.	.	.	1	.	6	21	
GROUP C2	2	.	.	1	.	.	.	1	.	9	13	
GROUP D1	.	.	.	4	.	.	.	.	.	1	5
GROUP E1	1	2	.	11	.	1	.	.	.	7	22	
GROUP E3	.	1	.	.	.	.	.	.	.	.	1
GROUP E4	.	1	.	.	.	.	.	.	.	.	1
GROUP H	.	.	.	.	.	.	.	.	1	.	1
GROUP I	.	.	.	.	.	.	.	.	1	.	1
GROUP K	.	14	.	.	.	.	.	.	.	10	24
GROUP P	.	.	.	.	.	.	.	.	6	.	6
GROUP T	.	.	1	.	.	.	.	.	1	1	3
GROUP U	.	.	.	.	.	.	.	1	1	.	2
GROUP W	.	.	.	.	.	.	.	.	1	.	1
GROUP X	.	.	.	.	.	.	.	1	1	.	2
GROUP Y	.	.	.	.	.	.	.	1	1	.	2
GROUP Z	.	.	.	.	.	.	.	.	3	.	3
HAARDT	2	.	.	.	.	.	.	.	.	.	2
HADAR	2	220	.	.	.	.	.	.	.	44	266
HALLE	.	.	.	.	.	.	.	.	5	.	5
HARTFORD	1	.	12	.	.	.	1	4	.	6	24	

(Continued)

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE											TOTAL
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER		
HAVANA	1	4	8	4	.	.	.	1	.	.	5	23
HEIDELBERG	1636	536	34	3	.	78	1	4	.	163	2455	
HOUTEN	.	.	.	.	.	.	.	.	.	1	1
ILLINOIS	.	.	.	.	.	.	1	.	.	.	1
INFANTIS	56	7	48	.	.	6	4	12	.	42	175	
ISTANBUL	1	41	.	.	.	.	.	.	.	6	48
JAVA	.	.	11	7	.	2	.	5	3	5	33	
JAVIANA	1	33	4	.	.	3	.	1	.	4	46	
JOHANNESBURG	52	16	.	.	.	.	2	.	.	22	92
KENTUCKY	220	72	3	121	.	5	1	7	.	186	615	
KIAMBU	1	.	.	.	.	.	.	.	.	4	5
KINSHASA	.	.	1	.	.	.	.	.	.	.	1
KREFELD	.	.	.	.	.	.	.	.	.	1	1
LEXINGTON	.	1	.	.	.	.	.	.	.	.	1
LILLE	48	7	.	.	.	.	2	.	.	.	57
LITCHFIELD	1	.	.	.	.	.	.	.	.	2	3
LIVERPOOL	.	3	.	.	.	.	.	.	.	.	3
LIVINGSTONE	85	1	11	.	.	.	3	.	.	2	102	
LOHBRUEGGE	.	.	.	.	.	.	.	.	2	.	2
LOMALINDA	.	1	.	.	.	.	.	.	.	.	1
LONDON	.	.	2	.	.	.	2	.	.	6	10	

(Continued)

TABLE 7
 NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
 REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 2001

SEROTYPE	NONHUMAN SOURCE											TOTAL
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER		
URBANA	•	2	•	•	•	•	•	•	1	•	3	
VIRGINIA	•	1	•	•	•	•	•	•	•	1	2	
WELTEVREDEN	•	•	•	•	•	•	•	•	•	2	2	
WIDEMARSH	•	1	•	•	•	•	•	•	•	•	1	
WORTHINGTON	6	28	65	•	•	•	•	•	•	18	117	
TOTAL	3146	2455	1011	977	40	303	65	181	44	2229	10451	

TABLE 8
PERCENT CHANGE IN SALMONELLA ISOLATIONS, TOP 20 SEROTYPES

2001 Rank	Serotype	# Isolates			# Isolates		%	
		1991	1996	2001	1991-1996	1996-2001	Change	%
1	S. Typhimurium*	8,995	9,501	6,999	6			-26
2	S. Enteritidis	7,755	9,570	5,614	23			-41
3	S. Newport	1,818	1,985	3,158	9			59
4	S. Heidelberg	2,972	1,998	1,884	-33			-6
5	S. Javiana	786	749	1,067	-5			42
6	S. Montevideo	868	1,227	626	41			-49
7	S. Oranienburg	655	690	595	5			-14
8	S. Muenchen	506	595	583	18			-2
9	S. Thompson	716	586	514	-18			-12
10	S. Saintpaul	439	562	469	28			-17
11	S. Java	148	268	466	81			74
12	S. Infantis	580	503	440	-13			-27
13	S. Braenderup	411	531	388	29			-27
14	S. Agona	1,006	606	370	-40			-39
15	S. Typhi	500	440	343	-12			-22
16	S. Mississippi	170	180	336	6			87
17	S. Berta	419	118	330	-72			180
18	S. Poona	788	415	330	-47			-20
19	S. Hadar	1,970	658	307	-67			-53
20	S. Bareilly	117	115	205	-2			78
	All	40,443	39,035	31,675	-3			-19

* Typhimurium includes var. Copenhagen

Figure 1
Isolation rates per 100,000 population by region: 1970-2001

S. Enteritidis

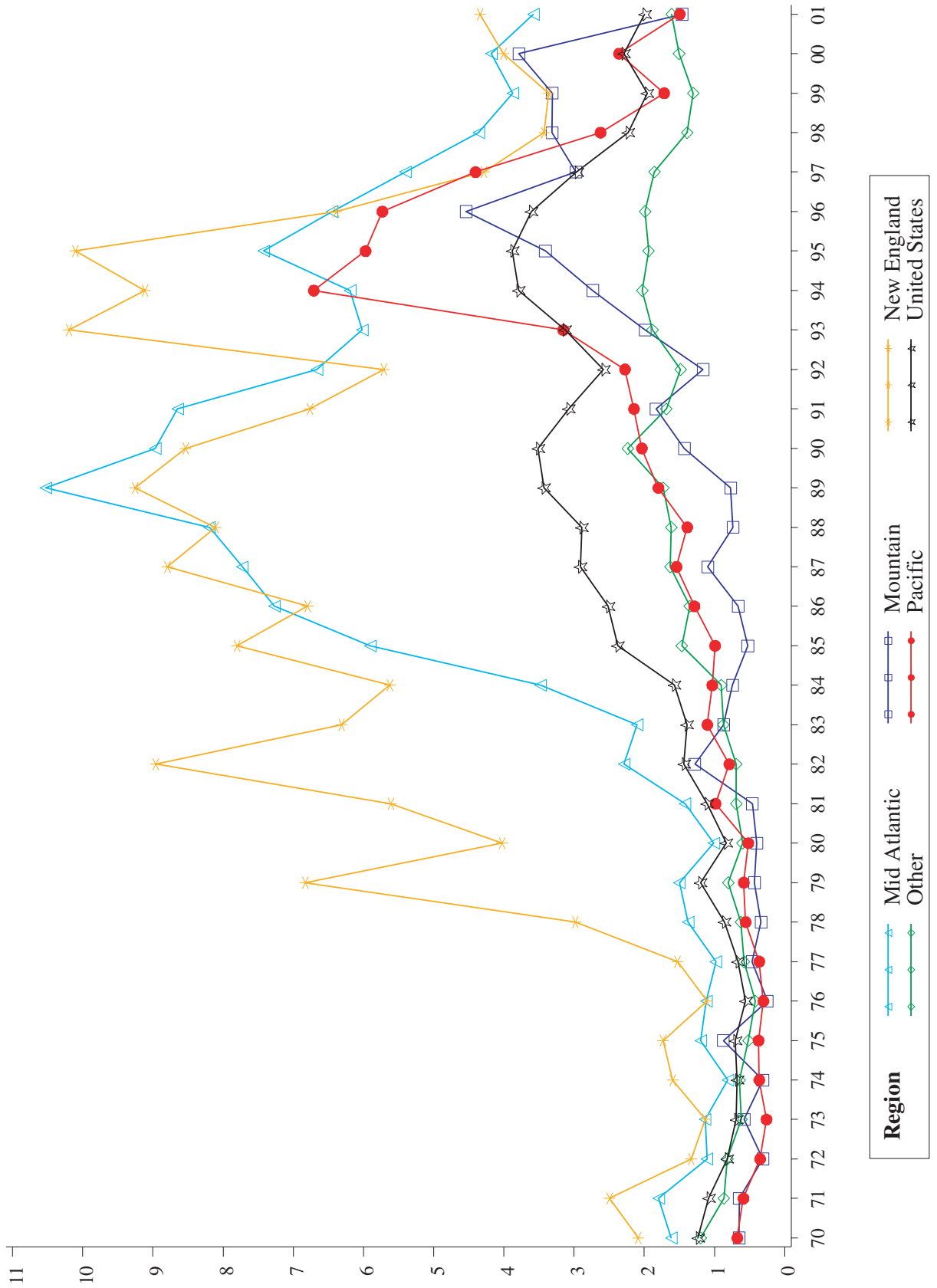
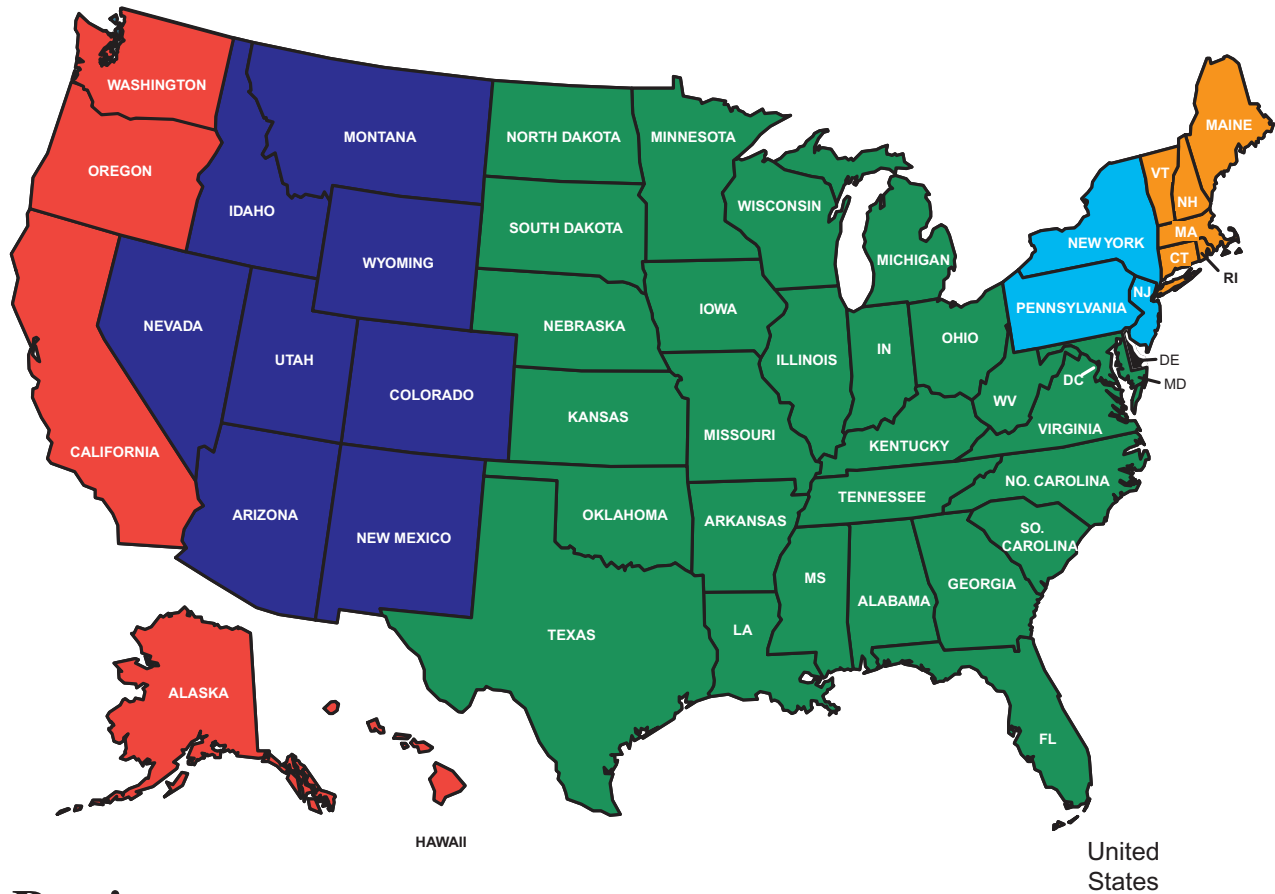


Figure 2

Region Map for *Salmonella* Enteritidis isolation rates per 100,000 population: 1970-2001



Regions

New England

Connecticut
 Massachusetts
 Maine
 New Hampshire
 Rhode Island
 Vermont

Mid Atlantic

New Jersey
 New York
 Pennsylvania

Mountain

Arizona
 Colorado
 Idaho
 Montana
 New Mexico
 Nevada
 Utah
 Wyoming

Pacific

Alaska
 California
 Hawaii
 Oregon
 Washington

Other

Alabama
 Arkansas
 District of Columbia
 Delaware
 Florida
 Georgia
 Illinois
 Indiana
 Iowa
 Kansas
 Kentucky
 Louisiana
 Maryland
 Michigan
 Minnesota
 Mississippi
 Missouri
 Nebraska
 North Carolina
 North Dakota
 Ohio
 Oklahoma
 South Carolina
 South Dakota
 Tennessee
 Texas
 Virginia
 West Virginia
 Wisconsin

Figure 3
Top 4 Salmonella Serotypes in the United States
Isolation rates per 100,000 population: 1970-2001

