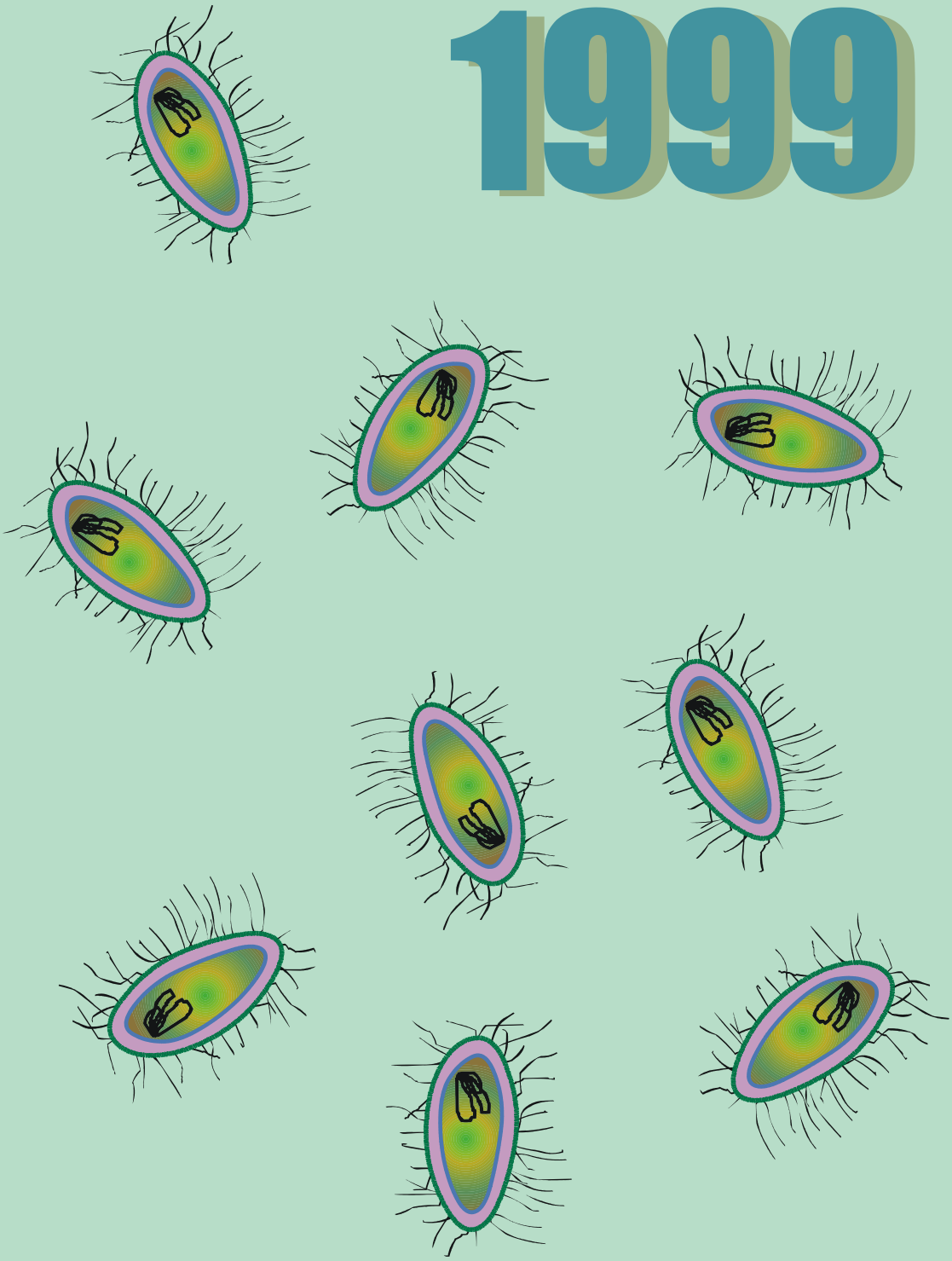
Salmonella

Annual Summary

1999



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

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Laboratory Confirmed *Salmonella* Surveillance Annual Summary, 1999

The Annual Summary contains surveillance data on reported laboratory-confirmed *Salmonella* isolates in the United States for 1999. 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 and the Biostatistics and Information Management Branch of the Division of Bacterial and Mycotic Diseases in the National Center for Infectious Diseases.

The number of isolates reported by geographical area (e.g. state) represents the state where laboratory confirmation was performed; in some instances the reporting state is not the same as the state 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 the Annual Summary, duplicate records are deleted.

The data presented for Salmonella serotypes from animals and related sources are gathered from isolates submitted to the U.S. Department of Agriculture (USDA), Animal and Plant Health Inspection Service, Veterinary Services, National Veterinary Services Laboratories (NVSL) for serotyping. These isolates are submitted by animal disease diagnostic laboratories and the USDA, Food Safety and Inspection Service (FSIS) laboratories throughout the U.S. Data from U.S. laboratories serotyping *Salmonella* from animals and related sources are also included in this report. Salmonella serotyping results from clinical cases of animal disease are designated in Table 6 as "clinical". Serotyping results from herd and flock monitoring and surveillance, feed samples, environmental testing, research projects, and isolates from USDA, FSIS food testing programs are designated as "nonclinical" (Table 6A).

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

The *Salmonella* Outbreak Detection Algorithm (SODA), developed by BIMB and FDDB, is a statistical algorithm 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 (404) 639-3365.

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THE 20 MOST FREQUENTLY REPORTED SALMONELLA SEROTYPES
FROM HUMAN SOURCES REPORTED TO CDC IN 1999 AND FROM
CLINICAL AND NON-CLINICAL NONHUMAN SOURCES REPORTED TO CDC AND NVSL IN 1999

HUMAN 1999				CLINICAL NONHUMAN 1999				NON-CLINICAL NONHUMAN 1999			
RANK	SEROTYPE	NUMBER	PERCENT	RANK	SEROTYPE	NUMBER	PERCENT	RANK	SEROTYPE	NUMBER	PERCENT
1	TYPHIMURIUM *	8051	24.6	1	TYPHIMURIUM *	1865	34.9	1	TYPHIMURIUM *	2334	19.6
2	ENTERITIDIS	5343	16.3	2	HEIDELBERG	330	6.2	2	HEIDELBERG	1860	15.6
3	NEWPORT	2618	8.0	3	AGONA	233	4.4	3	KENTUCKY	942	7.9
4	HEIDELBERG	1816	5.5	4	CHOLERAESUIS **	207	3.9	4	ENTERITIDIS	568	4.8
5	MUENCHEN	1332	4.1	5	NEWPORT	183	3.4	5	MONTEVIDEO	533	4.5
6	JAVIANA	1197	3.7	6	ANATUM	178	3.3	6	DERBY	471	3.9
7	MONTEVIDEO	851	2.6	7	DERBY	174	3.3	7	SENFTENBERG	466	3.9
8	ORANIENBURG	616	1.9	8	SENFTENBERG	159	3.0	8	HADAR	453	3.8
9	THOMPSON	602	1.8	9	MUENSTER	154	2.9	9	MUENSTER	295	2.5
10	INFANTIS	596	1.8	10	MONTEVIDEO	144	2.7	10	ANATUM	263	2.2
11	BRAENDERUP	529	1.6	11	DUBLIN	129	2.4	11	INFANTIS	243	2.0
12	AGONA	528	1.6	12	KENTUCKY	86	1.6	12	AGONA	202	1.7
13	HADAR	516	1.6	13	MBANDAKA	76	1.4	13	THOMPSON	198	1.7
14	SAINTPAUL	472	1.4	14	BREDENEY	72	1.3	14	CHOLERAESUIS **	189	1.6
15	TYPHI	352	1.1	15	INFANTIS	67	1.3	15	OHIO	185	1.6
16	JAVA	314	1.0	16	CERRO	64	1.2	16	READING	168	1.4
17	POONA	249	0.8	17	MUENCHEN	61	1.1	17	BRANDENBURG	163	1.4
18	MISSISSIPPI	248	0.8	18	THOMPSON	55	1.0	18	MUENCHEN	150	1.3
19	MBANDAKA	231	0.7	19	MELEAGRIDIS	53	1.0	19	MBANDAKA	144	1.2
20	DERBY	174	0.5	20	ORANIENBURG	49	0.9	20	ORION	124	1.0
	SUB TOTAL	26635	81.2		SUB TOTAL	4339	81.3		SUB TOTAL	9951	83.4
	TOTAL	32782			TOTAL	5337			TOTAL	11931	

* TYPHIMURIUM INCLUDES VAR. COPENHAGEN
** CHOLERAESUIS INCLUDES VAR. KUNZENDORF

TABLE 2
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY AGE AND SEX, 1999

	Sex			
	FEMALE	MALE	UNKNOWN	TOTAL
AGEGROUP				
< 1 YR	1577	1627	252	3456
1 TO 4 YRS	2277	2535	219	5031
5 TO 9 YRS	1185	1366	110	2661
10 TO 19 YRS	1220	1482	100	2802
20 TO 29 YRS	1601	1369	122	3092
30 TO 39 YRS	1584	1290	84	2958
40 TO 49 YRS	1391	1058	90	2539
50 TO 59 YRS	1087	705	65	1857
60 TO 69 YRS	798	587	42	1427
70 TO 79 YRS	733	460	48	1241
80+ YEARS	524	263	31	818
UNKNOWN AGE	2021	1833	1046	4900
TOTAL	15998	14575	2209	32782

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
AARHUS			1	4	13	6		6	16	9	6	61
ABA			1									1
ABAETETUBA	2	5	3	1	2	10	10	17	8	7	7	72
ABERDEEN	5	2	3	3	5	1	5	2	3	4	4	37
ABONY	12	3	4	2	3	6	9	2	3	6	4	54
ABORTUSBOVIS						1						1
ABORTUSEQUI									1			1
ACRES								1				1
ADELAIDE	62	64	61	96	74	110	98	88	70	72	95	890
AEQUATORIA									1		1	2
AFLAO								1			1	2
AFRICANA										2	6	8
AGAMA		1	1	1		4	3	2	2	2	2	18
AGBENI		1	2	3	1	3	5	1	3		1	20
AGEGE	1							1				2
AGO							1		1	1		3
AGONA	925	980	1006	750	651	753	683	606	740	991	528	8613
AGOUEVE	1			1		2	2	4	3	6	2	21
AHMADI			1									1
AHUZA								1				1
AJIOBO					1				2	2		5

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
ALABAMA	2	1		3		1	1	2	2	2	4	18
ALACHUA	47	48	16	28	55	70	52	39	18	14	22	409
ALAGBON	1											1
ALAMO					2		1			1		4
ALBANY	56	42	23	24	30	29	49	26	21	23	17	340
ALBERT		1				2	1	1				5
ALBUQUERQUE	1				1							2
ALLANDALE										1		1
ALTENDORF			1									1
ALTONA			1			1		1	1		1	5
AMAGER	1	1	1	3	2		6	1	8	3	4	30
AMERSFOORT				1								1
AMSTERDAM	15	4	2	3	3	4	11	2	9	5	6	64
ANATUM	228	285	232	158	194	146	174	271	208	138	157	2191
ANECHO	2	5	1	1	2		2	5	2	2	2	24
ANK						1		2				3
ANNEDAL								1				1
ANTONIO		1	1									2
ANTSALOVA						1	2	1		2		6
APAPA									2		2	4
APEYEME											1	1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
AQUA			1	1	1		3	2	1			9
ARAGUA								1	1	1		3
ARECHAVALETA	1		5	4	1	4	6	6	9	4	3	43
ARGENTINA				1								1
ARKANSAS	6	12	6	1					1	2	4	32
ASHANTI			1									1
ASSEN	1	2									1	4
ASSINIE					1							1
ATHINAI										1		1
AUGUSTENBORG	1	2	2		1				2			8
AVIGNON		1				1						2
AZTECA	1	1			1						1	4
BABELSBERG		1										1
BAGUIDA					1							1
BAHATI								1				1
BAHRENFELD					1				1			2
BAILDON	2		1	1	1	1	14	5	5	73	77	180
BALL		1						2				3
BANANA			1	1	1			1	1	1		6
BANCO										2		2
BARDO	24	33	11	4	8	8	1	28	10	9	13	149

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
BAREILLY	148	111	117	94	105	83	109	115	112	153	171	1318
BARRANQUILLA								1			1	2
BELEM			3	1							1	5
BELFAST			1									1
BENFICA		1					2	1		1	1	6
BENIN						1		1				2
BERE			3	1	1	2	1	1	8	1		18
BERGEN											1	1
BERKELEY										1		1
BERLIN					1							1
BERN											2	2
BERTA	653	487	419	333	401	399	367	118	87	123	143	3530
BINZA		2	5	1	1	2	1			1	1	14
BIRKENHEAD						2		2	7	4		15
BISPEBJERG								1	1			2
BLEGDAM	1	2	5	2	6	6		2	4	3	1	32
BLIJDORP								1				1
BLOCKLEY	262	147	132	86	89	76	55	51	62	61	54	1075
BLUKWA								1	1			2
BOCHUM										5	1	6
BONAIRE	1	1		1	1		1	1			1	7

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
BONAMES		2										2
BONARIENSIS	4		9	4	6		5	3	3	6	4	44
BONGOR							1	1				2
BONN	2	2				7	4	1		1		17
BORBECK							1					1
BORNUM				1								1
BOVISMORBIFICANS	73	40	36	26	35	40	25	41	47	64	35	462
BRADFORD	2	1	2	54	44	35	12	1	3	1		155
BRAENDERUP	745	758	411	477	381	426	588	531	559	497	529	5902
BRANCASTER										1		1
BRANDENBURG	195	176	161	188	257	259	284	181	167	132	117	2117
BRAZIL			1		2		1	1	1		2	8
BRAZOS									1		1	2
BRAZZAVILLE			1									1
BREDA					1							1
BREDENEY	99	87	75	57	49	44	57	47	51	112	44	722
BREFET					1							1
BREZANY						1						1
BRIKAMA					1			1				2
BRISTOL									1			1
BRON						2	2	1				5

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
BRONX						1			2	2		5
BROOKLYN										1		1
BROUGHTON							2				1	3
BRUNEI		1	1									2
BUDAPEST					1		1					2
BUKAVU									1			1
BURGAS			1									1
BURUNDI							1					1
BUTANTAN											1	1
BUZU						1	3		5	4	1	14
CALABAR										1	1	2
CALIFORNIA		1	6	2	4	2	1	1	9	3	1	30
CAMBERWELL										1		1
CAMBRIDGE	1						1				1	3
CANADA	1							1				2
CANASTEL		1										1
CANNSTATT									1	1		2
CANOGA		1	2	28	1							32
CARACAS									3		1	4
CARMEL							1	1			1	3
CARNO		1									1	2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
CARRAU	1	9	6	5	9	9	12	30	6	3	12	102
CARSWELL			1	1								2
CERRO	117	115	102	99	57	62	74	55	60	52	56	849
CHAILEY	2	4	2		1		6	4	12	9	3	43
CHAMELEON	1	1	2	3	9	9	12	11	7	8	5	68
CHAMPAIGN		1				1	1					3
CHANDANS						1						1
CHARITY		1	1		1							3
CHARLOTTENBURG			1					1				2
CHESTER	22	369	27	30	23	21	34	26	36	24	29	641
CHICAGO					1	1				1		3
CHINCOL		1	1	1	2					1	2	8
CHINGOLA									1			1
CHITTAGONG	2											2
CHOLERAESUIS	50	39	40	35	50	53	50	41	25	23	25	431
CHOLERAESUIS VAR KUN	42	34	42	56	36	18	25	26	24	13	9	325
CLACKAMAS		3		1		1	1	1	3		3	13
CLAIBORNEI			1							1	1	3
CLERKENWELL		1										1
COELN	2	3	5	1	4	2	2	7	4	5	2	37
COLEYPARK	2	1		2								5

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
COLINDALE		1				5	2	7	1	4	2	22
COLORADO			1	1	1	1	1	1	1	2	2	11
CONCORD	1	1	1			1	4	5	2	2	3	20
CORVALLIS	1	1	1	1	2		1	1	1	1	1	11
COTHAM						1					2	3
CREMIEU									1			1
CUBANA	20	21	29	32	32	61	44	34	36	72	42	423
CULLINGWORTH								1				1
CURACAO	1		1		1	1					1	5
DAHRA											2	2
DAYTONA	2	2	3	1	5	3	3	4	6	3	4	36
DECATUR		1	3		1	1				2		8
DEGANIA							1				1	2
DENVER	6	2	4	1	9	2	5	2	3	1	1	36
DERBY	289	268	184	199	170	144	213	143	152	171	174	2107
DESSAU	2	2							1			5
DIGUEL								4	2	1		7
DJAKARTA					2							2
DJELFA											1	1
DJUGU	1	2	3	2		4	1	2	2	1	1	19
DOBA						1	1					2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
DOEL								2				2
DOULASSAME			1						1	1		3
DROGANA				3		1	3					7
DRYPOOL	8	5	7		4	4	8	5	7	4	5	57
DUBLIN	121	103	106	100	90	65	81	85	61	78	66	956
DUESSELDORF	13	14	10	6	19	12	13	6	6	15	5	119
DUGBE						1						1
DUISBURG	1	1	1	1			2					6
DUMFRIES		1										1
DURBAN	7		5	2	4	11	3	8	8	10	3	61
DURHAM	2		5	3	1	5	6	4	2		1	29
DUVAL				1	2		1		1	1		6
EALING			4	2	2	8	24	26	8	6	6	86
EASTBOURNE	11	2	11	5	8	13	10	13	3	8	7	91
EBRIE											1	1
EDINBURG	14	1	4		1	3	4			1	6	34
EDMONTON		1										1
EILBECK							1					1
EIMSBUETTEL	2										1	3
EKO		1	4	2								7
EKPOUI			1		1							2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
ELOMRANE											2	2
EMEK	2	4	7	7	4	3	6	5	7	7	8	60
ENSCHEDE				1								1
ENTEBBE				1		2		8	4		1	16
ENTERITIDIS	8466	8734	7755	6578	8071	9866	10201	9570	7924	6029	5343	88537
ENUGU							1	1	1			3
EPPENDORF		1			1	1					2	5
ERLANGEN			1								1	2
ESCANABA									3			3
ESSEN	1	1	3	3		3		2	3	2	3	21
ETTERBEEK									1			1
FALKENSEE		1	1			1	2		1			6
FALLOWFIELD									3			3
FARMSEN			1	1		3	2	2	6	4	3	22
FAYED							1				6	7
FERRUCH	1											1
FINKENWERDER		1										1
FISCHERKIETZ		1								1	1	3
FLINT		5	29	20	30	32	39	34	43	55	64	351
FLORIDA	2	3	9		5	3	2	7	11	8	1	51
FLUNTERN								1		3		4

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
FORTLAMY							2					2
FREEFALLS							2					2
FREIBURG					1							1
FREMANTLE							1					1
FRESNO						1	1					2
FRIEDENAU									1			1
FRINTROP								1				1
FULICA									1			1
FYRIS	2	3	1					2		1		9
GABON										1	1	2
GALIEMA	1		3									4
GALIL							1		1			2
GALLINARUM	1	1	1					2		1		6
GAMABA										1		1
GAMBIA							1		2			3
GAMINARA	43	41	50	38	37	38	45	44	47	61	52	496
GARBA			1					1				2
GAROLI			1		1							2
GATESHEAD					3							3
GATOW	1	2	1	2	1		1			2		10
GATUNI	4	6	3	2	6	3	1	2		1	1	29

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
GEORGIA		2				1	2			2		7
GERA			1	1								2
GIVE	86	94	143	123	101	95	101	114	118	92	97	1164
GLIDJI								1				1
GLOSTRUP	16	26	17	78	42	13	31	13	5	10	7	258
GLOUCESTER					2	3	2	2	2			11
GODESBERG		1			1		1	1				4
GOETEBORG									1			1
GOETTINGEN		1	2	2	1				1	1	1	9
GOLDCOAST		1					1		1	1	1	5
GOMBE		1										1
GOODWOOD		1										1
GROUP 51				1				1	1	2	1	6
GROUP 52								2				2
GROUP 53						2	1	5	3	2	2	15
GROUP 54							1					1
GROUP 56								3	1			4
GROUP 57										1		1
GROUP 58					3		3		3	2	1	12
GROUP 59					1	2			1			4
GROUP 60						3	2	6	3	2	2	18

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
GROUP 61				2	9	11	17	17	6	5	5	72
GROUP 62											1	1
GROUP 63											1	1
GROUP 64					1							1
GROUP 65						1	2	2	6			11
GROUP A	4	13	6	1	1	7	4	3	1	2	3	45
GROUP B	434	495	370	475	539	563	601	582	507	532	438	5536
GROUP C1	151	168	112	124	110	137	108	123	103	85	138	1359
GROUP C2	116	99	60	107	163	201	111	108	64	51	48	1128
GROUP D1	211	209	155	202	280	257	182	186	116	113	80	1991
GROUP D2		1		1			1	3	2	1	1	10
GROUP D3										2		2
GROUP E1	18	20	13	13	7	29	20	21	13	14	17	185
GROUP E2	1		1					2	4	2	1	11
GROUP E4	3	2	1	2	2	3	2	3	2	3	2	25
GROUP F	1		2	7	2	8	3	5	2	6		36
GROUP G	23	17	9	7	22	34	73	42	8	17	15	267
GROUP H	2	1	2	1	3	2	2	4		2	2	21
GROUP I		1	2	3	2	12	5	6	5	44	46	126
GROUP J					2		1	1			1	5
GROUP K			2	6	1	2	3	5	2	4	4	29

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
GROUP L				1		3	2		1	1		8
GROUP M									2			2
GROUP N				1	1			1		1		4
GROUP O	1	1	2			3	2	3	2	1	4	19
GROUP P			1		11	4	4	1	4	1		26
GROUP Q							1		1	1	2	5
GROUP R				4	2	1	2	3		3	1	16
GROUP S					3	5	5	5	5	1	1	25
GROUP T								1	1			2
GROUP U					2	2	3	4	1			12
GROUP V				2	1	6	15	26	33	9	7	99
GROUP W				2	13	24	15	21	10	3	3	91
GROUP X				2	1	1	1	10	9	2	4	30
GROUP Y				6	14	14	15	15	11	4	15	94
GROUP Z				5	16	18	18	16	13	6	14	106
GRUMPENSIS	1	2	1		3	1	3			1	2	14
GUARAPIRANGA		1										1
GUILDFORD											1	1
GUINEA								1				1
HAARDT	75	49	22	10	13	10	16	6	5	2	3	211
HADAR	2007	1837	1970	1532	1298	1001	812	658	643	544	516	12818

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
HADDON							1					1
HADEJIA											1	1
HAELSINGBORG				1	1							2
HAGENBECK				2			1	1	1		1	6
HAIFA	3	8	4	2	4	2	2	3	4	3	6	41
HALLE											1	1
HALMSTAD		1		1		3		1			2	8
HAMBURG	16	7	2				4		1		1	31
HANDEN								1				1
HARBURG									1			1
HARLEYSTREET										1		1
HARRISONBURG		1										1
HARTFORD	49	56	130	71	100	90	164	89	110	175	140	1174
HATFIELD									1		1	2
HATO	2	15				1	1				1	20
HAVANA	80	57	56	49	53	38	57	59	47	77	46	619
HAYINDOGO										1		1
HEERLEN						1						1
HEIDELBERG	4722	3955	2972	2528	2457	1825	2095	1998	2104	1900	1816	28372
HEILBRON				3	1					1		5
HERON									1			1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
HERSTON				1	1							2
HEVES											1	1
HIDALGO	2				1	1			1			5
HIDUDDIFY			4			1				3	1	9
HILLINGDON								1				1
HINDMARSH		3	1	1	1		2	1	1	3		13
HOLCOMB		2	1					1	2		1	7
HOMOSASSA								1		2		3
HORSHAM		1	1	1				2			3	8
HOUTEN	4	3	2	5	3	7	3	21	1	6	10	65
HULL		1			1	1	3					6
HVITTINGFOSS	10	10	11	22	20	14	15	44	26	28	38	238
HYDRA		1										1
I 4,5,12:I:-										34	44	78
IBADAN	7	19	21	20	13	24	46	33	42	39	27	291
IDIKAN			5	6	6	2		11	4	1		35
II 50:B:Z6										3		3
IIIA 48:G,Z51:-											3	3
IIIA 53:Z4,Z23,Z32:-											4	4
IIIB 48:I:Z											1	1
IIIB 61:1,V:1,5,7										1	2	3

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
IIIB 61:K:1,5,7											3	3
IIIB 65:K:Z											1	1
ILALA									1			1
ILLINOIS	1		1					1				3
ILUGUN								3				3
IMO								1				1
INCHPARK						1					1	2
INDIA			1	1				1				3
INDIANA	78	48	36	24	18	25	24	28	11	7	14	313
INFANTIS	908	753	580	499	568	520	521	503	651	600	596	6699
INGANDA				1								1
INPRAW				1								1
INVERNESS	25	16	15	32	20	21	37	20	26	32	24	268
IPSWICH			1				1	1			1	4
IRCHEL							1					1
IRENEA											1	1
IRUMU	6	2	1	7	39	45	31	18	13	15	6	183
ISANGI	5	1	2				3	1	1	5	1	19
ISLINGTON						1						1
ISRAEL				1								1
ISTANBUL	26	21	5	13	12	7	10	9	8	7	25	143

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
ITAMI	2		2			1		1	2	8	7	23
ITURI				1	5	2	4	2	1	5	3	23
IV 44:Z4,Z23:-									4	6	14	24
IV 45:G,Z51:-										2	1	3
JACKSONVILLE	3											3
JAFFNA					1	2						3
JAJA									1		1	2
JAMAICA			2	2	1	2	6		2	1	2	18
JANGWANI			5	2	6	3	10	7	4	5	6	48
JAVA	193	120	148	156	176	172	268	289	184	248	314	2268
JAVIANA	578	703	786	648	641	540	758	749	675	1167	1197	8442
JEDBURGH				1					1			2
JERICHO		1										1
JERUSALEM		1		1								2
JOAL								1				1
JODHPUR										1		1
JOHANNESBURG	61	78	108	53	63	48	74	44	44	32	44	649
JOS											1	1
JUBILEE									1			1
JUKESTOWN				1								1
KAAPSTAD		4	8	3				1				16

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
KADUNA					1	1						2
KALAMU				1								1
KAMBOLE										1		1
KAMPALA		1										1
KANIFING	1		5		3				1			10
KAOLACK								1				1
KEDOUGOU			1				4			1	2	8
KENTUCKY	56	47	46	31	46	42	80	78	60	58	71	615
KIAMBU	13	21	11	4	7	6	14	17	14	13	40	160
KIBI					1							1
KIBUSI		1						3				4
KILWA						11	4	2		1	3	21
KIMBERLEY		1										1
KIMUENZA			3			2						5
KINGABWA				1	1	1	1		2		2	8
KINGSTON	2		4	1	1	1			3	1		13
KINONDONI				1				1	1	1	1	5
KINSHASA	1					2	4	7	6	1	3	24
KINTAMBO	2	3	1	2	17	19	21	19	14	20	8	126
KIRKEE									1		1	2
KISANGANI	1			1			2					4

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
KISARAWE					1				2	2		5
KISII			1									1
KITENGE							1					1
KIVU											2	2
KODJOVI			2			1						3
KOESSEN								1				1
KOKETIME								1				1
KOKOLI										1		1
KOKOMLEMLE	5	2	2	1	2	2	2	2	3	1	1	23
KONSTANZ		1										1
KORTRIJK			1									1
KOTTBUS	7	18	21	42	27	22	49	9	11	2	5	213
KPEME					1							1
KRALENDYK		1	4	5	5	3	10	15	4	14	3	64
KRALINGEN											1	1
KREFELD	2	1	1	1	9	3	3	2	1		1	24
KUA				1	1	1	2	1	1	1	2	10
KUILSRIVIER		2										2
KUMASI						1						1
KUNDUCHI										1		1
KURU						1						1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
LABADI				1		1	2			1		5
LAGOS	3			3	1	1	2	1	1			12
LAMBERHURST										1		1
LAMIN										1		1
LANDAU									1			1
LANDWASSER					1					1	2	4
LANGENSALZA								1		1		2
LANKA	8	6		1	1	3				1	1	21
LANSING		1			1						1	3
LAROCHELLE	5	2	5	2	3	4	4	4	1	6	4	40
LAWNDALE					1			1				2
LAWRA				1								1
LEOBEN				1								1
LEOPOLDVILLE		1										1
LEXINGTON	2	5	1	3	5	3	1	2	1			23
LICHTENBERG				1							1	2
LILLE	1	4	2	4	3	1			3		1	19
LIMBE					1		1		1			3
LIMETE			1	1				1	6	1		10
LINDENBURG	12	12	12	8	11	6	9	5	3	10	5	93
LINDI								1				1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
LITCHFIELD	117	80	94	92	116	93	115	158	105	119	135	1224
LIVERPOOL	2	3	6	6	1		2	3	3		2	28
LIVINGSTONE	52	35	22	27	12	16	13	18	6	5	4	210
LOANDA			7	3	3				1			14
LOCKLEAZE				1		3	2			1	1	8
LOHBRUEGGE	1						2	4			2	9
LOMALINDA	8	5	6	10	14	15	15	24	12	16	8	133
LOME					1	2		2	2			7
LOMITA	5	5	3	1	5	1	2	5	3	3		33
LOMNAVA			2									2
LONDON	52	40	19	21	14	15	36	23	33	28	41	322
LOSANGELES								1				1
LOVELACE						1				1		2
LUANSHYA											1	1
LUCIANA		4	2	1		4		1	3	3	6	24
LUKE						2						2
MAARSSEN					1							1
MADELIA	5	12	8	10	3	5	8	21	7	12	12	103
MAGWA									1	1		2
MAIDUGURI									1			1
MAKUMIRA						1						1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
MALSTATT	1							2				3
MAMPEZA								1				1
MANCHESTER	2	1									1	4
MANGO			1								1	2
MANHATTAN	69	50	36	49	130	92	72	101	99	73	78	849
MANILA	1	1				1					1	4
MAPO				1	1		1					3
MARACAIBO	2											2
MARICOPA				1								1
MARINA	2	5	10	17	30	53	75	81	36	47	44	400
MARYLAND									1	1		2
MATADI		1	2		6	20	10	27	9	4	2	81
MATOPENI										2		2
MBANDAKA	190	135	206	130	167	118	154	223	189	147	231	1890
MELEAGRIDIS	6	18	25	8	15	12	30	207	43	39	14	417
MEMPHIS			1		2			1	1		1	6
MENDEN		1									1	2
MENDOZA			1	1		1			1	3	1	8
MENHADEN	2	4	1	5		2	5	14	1			34
MENSTON			2	2					1			5
MGULANI								2			2	4

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
MIAMI	41	28	115	70	98	126	74	52	76	99	95	874
MICHIGAN	1	1	1			3	8	1		2	2	19
MIDWAY			1	1								2
MIKAWASIMA	5	8	2	7	2	1	7		2		4	38
MINNEAPOLIS	18	6	7	4	1			1				37
MINNESOTA	12	22	21	19	28	13	36	28	26	17	23	245
MISSION						1					1	2
MISSISSIPPI	136	175	170	137	156	152	199	180	205	314	248	2072
MOERO							2					2
MOLADE		1	1	1	1	1			1	1		7
MONO						1	1			2		4
MONS		2	1					2				5
MONSCHAUI	5	6	2	9	8	9	9	11	10	3	5	77
MONTEVIDEO	794	928	868	559	789	631	685	1227	718	828	851	8878
MOREHEAD				1	1	1	2					5
MOROTAI		1										1
MOSCOW		2	1	15				1		4		23
MOUNDOU											1	1
MOUNTPLEASANT							1		1	1		3
MOWANJUM						1		2				3
MPOUTO						1			1			2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
MUENCHEN	451	464	506	449	657	559	754	595	543	639	1332	6949
MUENSTER	51	86	68	47	69	100	87	96	73	68	65	810
MUNDSBURG			1									1
NACHSHONIM								1				1
NAGOYA						1			1			2
NAMIBIA		1						1				2
NAPOLI			1					1			2	4
NARASHINO					1		1	1	1			4
NCHANGA										1		1
NDOLO					1							1
NEGEV						1	1					2
NESSZIONA									4			4
NEUDORF					1							1
NEWBRUNSWICK	17	22	8	8	5	3	20	22	26	36	23	190
NEWHAW	2						4	1	1	1		9
NEWINGTON	21	14	26	25	15	13	17	16	20	25	23	215
NEWLANDS								1				1
NEWMEXICO	2	1		1	3	2			1			10
NEWPORT	2111	1802	1818	1481	1487	1673	2566	1985	1584	2272	2618	21397
NEWROCHELLE							2	1	1	1	1	6
NEWYORK								3	4		1	8

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
NGILI						1						1
NGOR											2	2
NIAKHAR				1								1
NIENSTEDTEN	1		3		1	2						7
NIGERIA								1				1
NIMA		1				1	1	4	1	5	1	14
NITRA	1							3			1	5
NOLA								1	1			2
NOORDHOEK							1					1
NORDENHAM											1	1
NORWICH	49	58	32	41	59	98	51	52	56	67	74	637
NOTTINGHAM			2	1	1	3	3	3	5	2		20
OAKLAND	2	3	2	2	3	4	1	4			1	22
OCHIOGU					1							1
OCHSENZOLL						1			2			3
OERLIKON						1						1
OFFA				2	1							3
OHIO	153	166	132	161	132	101	105	67	100	79	77	1273
OKATIE					1		1	1				3
OLDENBURG					1					1	1	3
ONDERSTEPOORT	1						1	2			1	5

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
ONIREKE		1				1	1					3
ONTARIO					2						1	3
ORANIENBURG	572	501	655	597	522	602	595	690	623	693	616	6666
ORIENTALIS							2	6		1	2	11
ORION	5	1		4	3	1	1	6	3	1		25
ORITAMERIN		1	3	1								5
OSLO	8	16	11	14	19	14	13	31	25	31	28	210
OTHMARSCHEN	4		6			4	2	6	6	7	20	55
OUAKAM	1			2	7	2	4					16
OUDWIJK										1		1
OVERSCHIE					1		3	4	3	3	2	16
OYONNAX			1									1
PAKISTAN	5	1	2		1			2	4		6	21
PANAMA	266	304	236	185	173	163	173	148	144	119	132	2043
PAPUANA				1			1		1			3
PARATYPHI A	69	69	76	80	53	79	86	86	72	85	77	832
PARATYPHI B	114	89	101	110	208	228	241	298	159	189	172	1909
PARATYPHI C	5	2	1	2	1	2	2	1	1		1	18
PARERA				2	2	4	7	7	2	4	2	30
PARIS		1										1
PATIENCE								1				1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
PENSACOLA	4	4	7		8	3	11	4	7	5	8	61
PHARR		1	1								1	3
PHOENIX	8	5	1		8	3	9	9	5	4	6	58
PLANCKENDAEL									1			1
PLYMOUTH			1	1			1	1				4
POANO				1	2	6	2	5				16
POMONA	6	4	10	9	7	6	23	29	43	19	28	184
POONA	199	126	788	218	295	376	531	415	293	346	249	3836
PORTLAND	1	1			2							4
PORTSMOUTH	2	6	1	1	1	3	1	1	4	2	1	23
POTSDAM	14	6	7	8	8	6	5	3	10	6	9	82
PRAHA			3	2	1	3	1				1	11
PRESTON			1		1							2
PULLORUM	1	1							1		1	4
PUTTEN		1	4	1	1	1	8	6	5	9	3	39
QUEBEC										1		1
QUIMBAMBA							3					3
QUINIELA	1	1	1	1		2			1	1		8
RAMATGAN	1					1					1	3
RAUS		1	2	2		1	2	3		3	3	17
READING	231	397	396	430	363	257	197	131	167	81	97	2747

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
REDLANDS			1	1				1	1			4
REGENT							2					2
REMO	1				2		1	2		1	2	9
RHODESIENSE	1	2										3
RHONE		1										1
RICHMOND	6	4	6	4	4	3	7	6	7	4	2	53
RIDGE											1	1
RIOGRANDE	1		1	1			1				1	5
RISSEN				4	6	10	4	5	9	6	6	50
ROMANBY					1		5	5	4	1	6	22
ROODEPOORT									1	2	2	5
ROSTOCK	2							1				3
ROTERBERG	2				1	1	1	2		1		8
ROTTNEST											1	1
ROVANIEMI			1									1
RUBISLAW	58	65	83	67	58	77	83	71	81	88	97	828
RUIRU				1							1	2
RUZIZI											1	1
SAARBRUECKEN										1		1
SABOYA										1		1
SADA			1									1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
SAINTPAUL	509	558	439	529	380	479	467	562	436	479	472	5310
SAKA				3								3
SAKARAHA										1		1
SALINATIS	3		2	2		1	3	3			1	15
SANDIEGO	71	88	105	100	92	82	117	56	59	55	104	929
SANDOW				3	1	2						6
SANGALKAM	1		1									2
SANGERA						2	1					3
SANJUAN	2	1									2	5
SANTIAGO				2			1	1			1	5
SAO								1				1
SAPHRA	15	8	10	7	1	6	11	11	41	16	13	139
SARAJANE										1		1
SCHLEISSHEIM	5	2	3	3		1	5	9	6	8	6	48
SCHOENEBERG									1			1
SCHWARZENGRUND	137	110	108	145	169	167	162	157	144	123	155	1577
SCHWERIN								1				1
SCULCOATES										1		1
SELANDIA				1								1
SEMINOLE							1					1
SENDAI					3		1			2	1	7

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
SENEGAL		1										1
SENFTENBERG	119	131	140	150	126	130	91	167	180	142	120	1496
SEREMBAN					2			1	1			4
SERREKUNDA										1		1
SETUBAL								1				1
SHAMBA									1			1
SHANGANI								1				1
SHARON							1					1
SHIPLEY		2										2
SHOMRON								1				1
SHUBRA		6	5	2	3	3	9	2	3	4	7	44
SIMI							2					2
SIMSBURY				1								1
SINGAPORE	10	4	5	6	4	4	4	12	3	12	4	68
SINSTORF	1	2	1	1	2	1	9	4	8	1	3	33
SKANSEN	1						1			1		3
SOAHANINA		2		1	1	1	1		1			7
SOERENGA					2	1		6	1		2	12
SOESTERBERG					1							1
SOFIA										1		1
SOMONE	1		2		1	1		5	3	1	1	15

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
SOUMBEDIOUNE						4						4
SOUTHAMPTON				1							1	2
SOUTHBANK								1				1
STACHUS								1	3		2	6
STANLEY	93	109	131	136	143	217	481	200	164	193	172	2039
STANLEYVILLE	12	13	7	13	5	5	51	26	23	16	10	181
STELLINGEN						1	2		3	1		7
STENDAL							1					1
STERRENBOS						1	1					2
STEVENAGE		1										1
STIKLAND						1						1
STOCKHOLM											4	4
STRASBOURG								1				1
SUBERU									1	1		2
SUBSPECIES I		1		4	2	23	26	32	22	72	81	263
SUBSPECIES II	2	1	12	5	10	9	7	22	8	5	6	87
SUBSPECIES III							1	3	4	1	3	12
SUBSPECIES IIIA	9	9	2	4	5	21	20	11	7	12	16	116
SUBSPECIES IIIA/IIIB	53	88	47	58	33	60	37	28	17	12	14	447
SUBSPECIES IIIB	6	15	16	9	19	21	26	13	10	7	9	151
SUBSPECIES IV		4	7	6	5	13	31	21	22	17	26	152

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SEROTYPE												
SUBSPECIES V						1	1					2
SUBSPECIES VI							1	1				2
SUELLDORF											1	1
SUNDSVALL	1	3	2	3	3	5	17	25	47	7	4	117
SUNNYCOVE				1								1
SYDNEY							1	4	1			6
TAFO											1	1
TAKORADI		1	3	2	2		1	4	5	4	4	26
TAKSONY	1		1		2			5	1			10
TALLAHASSEE	1	5	6	3	8	2	6	5	18	8	5	67
TAMALE						1		2				3
TAMBACOUNDA					2		3		1	1	1	8
TAMBERMA					1							1
TAMPICO											2	2
TANANARIVE							1					1
TANGER							1					1
TARSHYNE	2											2
TEDDINGTON		1	1									2
TEKO										1		1
TELAVIV							1			1		2
TELELKEBIR	6	2	1	5	5	8	4	13	12	26	15	97

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
TENNESSEE	295	158	113	98	133	156	112	96	31	63	29	1284
TEXAS								1				1
THIELALLEE	1											1
THIES											1	1
THOMASVILLE	1			4	1	2	1	1	2	2	4	18
THOMPSON	925	750	716	690	576	549	625	586	695	571	602	7285
TIENBA										1		1
TILENE						1	4	7	2		1	15
TOKOIN				1			3					4
TOOWONG									1			1
TOUCRA						2	3	3				8
TRACHAU				1					1			2
TRAVIS	2								1		1	4
TRURO			1									1
TSEVIE		1				1	1	1				4
TSHIONGWE	2	2	6	2	2	3	2	4				23
TUCSON	3	2		1	1	2	2	1	3		1	16
TUDU		1										1
TUINDORP		2			2		1	1	2	1		9
TYGERBERG					1		2	1				4
TYPHI	544	579	500	449	472	507	442	440	349	382	352	5016

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
TYPHIMURIUM	8630	8510	8780	7720	8436	7972	9147	9002	8289	8100	7125	91711
TYPHIMURIUM VAR COPE	276	307	215	230	307	393	555	499	827	718	926	5253
TYPHISUIS	1								3			4
TYRESOE	1							1				2
UCCLE								1	4	4	1	10
UGANDA	14	11	21	23	29	19	28	63	51	44	58	361
ULLEVI									1			1
UMBILO	1											1
UNKNOWN	2365	2566	2947	2136	1649	1469	952	673	382	515	399	16053
UPHILL								1				1
UPPSALA	1						1	1		1		4
URBANA	15	18	15	26	52	63	72	60	57	46	56	480
UZARAMO	1	1		3	1	1	5			3	1	16
VALDOSTA			1									1
VANCOUVER					1	3	1					5
VEJLE	3	1	1				2		2	1	1	11
VICTORIA			1	1		3	1	3	2	1		12
VIETNAM							1					1
VILVOORDE							1	2	1			4
VIRCHOW	96	97	64	72	57	54	60	67	71	64	70	772
VIRGINIA	28	14	5		2		7	7	2		10	75

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
VOLKSDORF					1	1		2				4
VOLKSMARSDORF	1											1
VRIDI							1					1
WA								1			1	2
WANDSWORTH	2	1	2	4	1	5	14	6	5		9	49
WANGATA	1	1	1	2	1	1	1		1	1		10
WARAL						1	1		1			3
WASHINGTON						1	2	1	3		1	8
WASSENAAR	1	3	3	11	16	19	28	18	14	6	11	130
WAYCROSS		1	2	4	3	2		4	4	2	2	24
WAYNE		1					2	1	1			5
WELIKADE	1					1			1	1	1	5
WELTEVREDEN	89	65	71	68	98	86	89	86	106	67	54	879
WENTWORTH		1			1							2
WERNIGERODE										3		3
WESLACO			1			1	1			2	1	6
WESTERSTEDE											1	1
WESTHAMPTON	2		5		1	2	3	6	5	3	2	29
WESTON			1									1
WESTPHALIA						1						1
WICHITA						1						1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1989-1999

	YEAR											TOTAL
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SEROTYPE												
WIDEMARSH		3	1					3	2		1	10
WIEN			2	3	4	3	1				1	14
WIL								1			1	2
WILLEMSTAD		1			1		1		1			4
WINNEBA											1	1
WIPPRA			1			2						3
WISBECH								2				2
WORTHINGTON	76	66	61	56	41	44	50	58	48	38	28	566
YARRABAH								1				1
YEERONGPILLY								1				1
YORUBA										1		1
YOVOKOME											1	1
ZAIMAN							1					1
ZANZIBAR			1		1	3	2	2	2	1	1	13
ZERIFIN		1										1
ZONGO			1									1
TOTAL	43321	42338	40443	34688	36917	37522	41222	39035	34608	33971	32782	416847

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
Serotype							
AARHUS	.	.	.	1	1	.	2
ABAETETUBA	.	.	1	.	.	.	1
ABERDEEN	.	1	.	.	.	.	1
ABONY	.	.	1	.	.	.	1
ADELAIDE	.	.	2	.	.	.	2
AEQUATORIA	.	.	.	1	.	.	1
AGONA	9	.	30	3	3	5	50
ALACHUA	.	.	3	.	.	.	3
AMSTERDAM	.	.	.	1	.	.	1
ANATUM	2	.	6	.	2	.	10
APAPA	.	.	1	.	.	.	1
ARECHAVALETA	1	.	1	.	.	.	2
BAREILLY	.	.	4	1	1	.	6
BERTA	1	.	5	2	.	.	8
BLOCKLEY	.	1	.	.	.	.	1
BONARIENSIS	1	.	.	.	.	.	1
BRAENDERUP	8	.	14	.	1	.	23
BRANDENBURG	.	.	8	.	.	.	8
BREDENEY	.	.	.	1	.	.	1
BUZU	.	.	1	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
Serotype							
CARRAU	.	.	1	.	.	.	1
CERRO	.	.	1	.	.	.	1
CHAMELEON	.	.	1	.	.	.	1
CHINCOL	.	.	.	.	.	2	2
CHOLERAESUIS	.	.	5	.	.	.	5
CUBANA	.	.	3	.	1	.	4
CURACAO	.	.	1	.	.	.	1
DERBY	.	2	3	.	.	.	5
DUBLIN	.	.	2	.	.	.	2
DUESSELDORF	.	1	1	.	.	.	2
EDINBURG	.	1	.	.	.	.	1
EMEK	.	.	1	.	.	.	1
ENTERITIDIS	108	8	281	29	19	9	454
FARMSEN	.	.	.	1	.	.	1
GAMINARA	.	.	1	.	.	.	1
GIVE	2	1	.	.	.	.	3
GLOSTRUP	.	.	1	.	.	.	1
GROUP 51	.	.	1	.	.	.	1
GROUP 61	.	.	1	.	.	.	1
GROUP A	.	.	.	.	.	1	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
Serotype							
GROUP B	1	3	15	.	1	1	21
GROUP C1	.	.	.	.	1	3	4
GROUP C2	.	.	1	.	1	.	2
GROUP E1	.	.	.	.	.	1	1
GROUP E4	.	.	.	.	1	.	1
GROUP G	.	.	2	.	.	.	2
GROUP I	.	.	.	.	.	1	1
GROUP W	.	.	.	.	1	.	1
GROUP X	.	.	1	.	.	.	1
GROUP Y	.	.	.	.	3	.	3
GROUP Z	.	.	1	.	.	.	1
HADAR	9	2	19	.	8	3	41
HARTFORD	3	.	6	.	2	.	11
HAVANA	.	.	1	.	.	.	1
HEIDELBERG	33	9	69	8	5	3	127
HVITTINGFOSS	.	.	2	.	1	.	3
IBADAN	.	.	1	.	.	.	1
IIIB 61:K:1,5,7	.	.	2	.	.	.	2
INFANTIS	16	1	14	1	3	1	36
IV 44:Z4,Z23:-	.	.	1	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
Serotype							
JANGWANI	.	.	2	.	.	.	2
JAVA	4	.	1	1	2	1	9
JAVIANA	14	1	27	2	6	.	50
JOHANNESBURG	.	.	.	1	.	.	1
KENTUCKY	.	.	2	.	3	.	5
KIAMBU	1	.	4	.	.	.	5
KINTAMBO	.	.	1	.	.	.	1
LILLE	.	.	1	.	.	.	1
LITCHFIELD	4	.	6	2	1	.	13
LOMALINDA	.	.	2	.	.	.	2
LONDON	1	.	4	.	.	.	5
MADELIA	.	.	.	1	.	.	1
MANHATTAN	1	.	4	.	.	.	5
MARINA	.	.	10	1	2	.	13
MBANDAKA	.	.	5	.	1	.	6
MELEAGRIDIS	.	1	1	.	1	.	3
MIAMI	14	.	3	1	.	1	19
MISSISSIPPI	1	.	4	.	.	2	7
MONTEVIDEO	8	1	34	5	8	.	56
MUENCHEN	9	2	30	5	3	.	49

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
Serotype							
MUENSTER	2	.	4	3	1	.	10
NEWPORT	26	9	48	5	9	4	101
OHIO	3	.	6	.	.	.	9
ORANIENBURG	12	.	23	3	7	4	49
ORIENTALIS	.	.	1	1	.	.	2
OSLO	2	.	1	.	.	.	3
OVERSCHIE	.	.	1	.	.	.	1
PANAMA	1	.	.	.	.	.	1
PARATYPHI A	2	.	4	.	.	.	6
PARATYPHI B	2	.	3	1	.	.	6
PARERA	.	.	1	.	.	.	1
POMONA	.	.	3	.	.	.	3
POONA	2	3	8	.	1	.	14
POTSDAM	.	.	1	.	.	.	1
READING	4	.	8	.	2	.	14
RICHMOND	.	.	1	.	.	.	1
RUBISLAW	.	.	.	.	.	1	1
SAINTPAUL	2	1	19	.	.	2	24
SANDIEGO	2	.	2	.	.	.	4
SCHWARZENGRUND	2	2	6	.	2	.	12

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
Serotype							
SENFTENBERG	.	.	3	.	2	.	5
STANLEY	.	1	8	1	1	.	11
SUBSPECIES I	2	.	.	.	.	.	2
SUBSPECIES III	1	.	.	.	.	.	1
SUBSPECIES IV	4	.	.	1	.	.	5
TALLAHASSEE	.	.	.	.	1	.	1
THOMASVILLE	.	.	1	.	.	.	1
THOMPSON	15	2	26	4	3	.	50
TYPHI	7	.	17	.	4	1	29
TYPHIMURIUM	160	51	230	37	52	36	566
TYPHIMURIUM VAR COPE	.	.	143	10	.	.	153
UGANDA	1	.	.	.	.	.	1
UNKNOWN	22	.	.	1	2	.	25
URBANA	3	.	.	1	.	.	4
VIRCHOW	1	.	3	.	.	.	4
VIRGINIA	.	.	.	1	.	.	1
WELTEVREDEN	.	.	1	.	.	.	1
TOTAL	529	104	1229	137	169	82	2250

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
Serotype				
AARHUS	.	2	.	2
ADELAIDE	2	22	3	27
AGONA	17	59	23	99
AGOUEVE	.	1	1	2
ALACHUA	.	4	.	4
ALBANY	.	1	.	1
AMAGER	.	1	.	1
AMSTERDAM	.	4	.	4
ANATUM	4	10	5	19
BAILDON	.	1	.	1
BARDO	1	.	.	1
BAREILLY	2	12	5	19
BERN	2	.	.	2
BERTA	12	17	5	34
BLOCKLEY	1	7	1	9
BOVISMORBIFICANS	3	1	.	4
BRAENDERUP	17	40	20	77
BRANDENBURG	12	8	3	23
BREDENEY	2	10	.	12
CARNO	1	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=Mid Atlantic ----------

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
Serotype				
CARRAU	.	1	.	1
CERRO	.	.	2	2
CHAMELEON	.	1	.	1
CHESTER	3	1	.	4
CHOLERAESUIS	.	2	.	2
CONCORD	1	.	.	1
CUBANA	1	2	4	7
DERBY	2	14	.	16
DJELFA	.	1	.	1
DUBLIN	1	7	.	8
DUESSELDORF	.	2	.	2
DURBAN	.	3	.	3
EALING	.	1	.	1
EASTBOURNE	1	.	.	1
EBRIE	.	1	.	1
EDINBURG	.	4	.	4
EMEK	1	.	.	1
ENTERITIDIS	348	793	343	1484
ESSEN	.	2	.	2
FARMSEN	1	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
Serotype				
FLINT	.	.	1	1
GAMINARA	1	2	.	3
GIVE	.	4	1	5
GROUP B	17	43	.	60
GROUP C1	3	17	.	20
GROUP C2	1	1	.	2
GROUP D1	.	5	.	5
GROUP O	.	1	.	1
GROUP Q	1	.	.	1
GROUP V	2	1	.	3
GROUP W	.	2	.	2
GROUP X	1	.	.	1
GROUP Z	1	.	.	1
HADAR	32	80	22	134
HARTFORD	1	10	4	15
HAVANA	1	5	.	6
HEIDELBERG	82	230	75	387
HOLCOMB	.	.	1	1
HVITTINGFOSS	.	1	1	2
I 4,5,12:I:-	.	1	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
Serotype				
IBADAN	2	.	.	2
INDIANA	.	1	.	1
INFANTIS	8	40	19	67
INVERNESS	.	2	1	3
IRENEA	.	1	.	1
IRUMU	.	1	1	2
ISTANBUL	1	9	.	10
IV 44:Z4,Z23:-	.	3	.	3
IV 45:G,Z51:-	1	.	.	1
JANGWANI	.	1	.	1
JAVA	11	9	16	36
JAVIANA	17	29	22	68
JOHANNESBURG	1	3	1	5
KENTUCKY	6	18	1	25
KIAMBU	1	.	1	2
KINTAMBO	.	1	.	1
KOKOMLEMLE	1	.	.	1
LICHTENBERG	.	1	.	1
LINDENBURG	.	1	.	1
LITCHFIELD	6	12	9	27

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
Serotype				
LIVINGSTONE	.	1	.	1
LOCKLEAZE	1	.	.	1
LOHBRUEGGE	.	.	1	1
LONDON	3	4	2	9
LUCIANA	.	1	.	1
MANHATTAN	1	3	3	7
MARINA	1	3	4	8
MBANDAKA	1	6	6	13
MELEAGRIDIS	.	.	1	1
MEMPHIS	.	1	.	1
MENDEN	.	1	.	1
MGULANI	2	.	.	2
MIAMI	2	3	3	8
MISSISSIPPI	1	5	5	11
MONTEVIDEO	23	78	28	129
MOUNDOU	.	.	1	1
MUENCHEN	13	37	22	72
MUENSTER	2	9	3	14
NEWPORT	41	95	67	203
NORWICH	.	2	3	5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
Serotype				
OHIO	1	7	2	10
ONTARIO	.	1	.	1
ORANIENBURG	12	20	12	44
OSLO	2	3	.	5
OTHMARSCHEN	.	12	.	12
OVERSCHIE	.	.	1	1
PANAMA	7	14	2	23
PARATYPHI A	5	9	1	15
PARATYPHI B	4	13	3	20
PHARR	.	1	.	1
POMONA	4	6	1	11
POONA	6	16	13	35
PORTSMOUTH	.	.	1	1
POTSDAM	.	.	1	1
READING	5	15	5	25
REMO	.	1	.	1
RICHMOND	.	.	1	1
RISSEN	1	1	.	2
RUBISLAW	.	1	.	1
SAINTPAUL	25	44	15	84

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=Mid Atlantic ----------

	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
Serotype				
SANDIEGO	10	17	6	33
SCHWARZENGRUND	5	11	4	20
SENFTENBERG	3	5	8	16
SHUBRA	.	1	.	1
STACHUS	.	1	.	1
STANLEY	5	16	13	34
STANLEYVILLE	3	5	.	8
SUBSPECIES I	15	1	.	16
SUBSPECIES III	1	.	.	1
SUBSPECIES IIIA	.	1	.	1
SUELLDORF	.	.	1	1
TALLAHASSEE	.	1	.	1
TAMBACOUNDA	.	1	.	1
TELELKEBIR	1	.	.	1
TENNESSEE	.	3	1	4
THOMPSON	15	49	11	75
TUCSON	.	1	.	1
TYPHI	24	63	3	90
TYPHIMURIUM	112	669	415	1196

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=Mid Atlantic ----------

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
Serotype				
TYPHIMURIUM VAR COPE	116	.	.	116
UGANDA	4	5	2	11
UNKNOWN	.	31	2	33
URBANA	.	5	2	7
VIRCHOW	4	6	.	10
VIRGINIA	.	3	.	3
WANDSWORTH	.	4	.	4
WASHINGTON	.	.	1	1
WASSENAAR	1	1	.	2
WAYCROSS	.	1	.	1
WELTEVREDEN	2	3	.	5
WESLACO	1	.	.	1
WESTERSTEDE	.	1	.	1
WIL	.	.	1	1
WINNEBA	.	1	.	1
WORTHINGTON	1	1	3	5
TOTAL	1119	2890	1271	5280

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
ABAETETUBA	.	.	.	1	.	1
ADELAIDE	3	.	2	17	.	22
AGBENI	.	.	1	.	.	1
AGONA	54	3	14	11	15	97
ALACHUA	.	.	2	.	.	2
ALBANY	3	.	.	1	.	4
AMSTERDAM	1	.	.	.	.	1
ANATUM	7	4	3	6	6	26
BAILDON	3	.	.	.	.	3
BARDO	.	.	.	.	1	1
BAREILLY	6	1	3	1	1	12
BENFICA	.	.	.	.	1	1
BERTA	6	3	7	2	1	19
BLOCKLEY	4	1	7	3	2	17
BONARIENSIS	1	.	.	.	.	1
BOVISMORBIFICANS	5	2	3	2	.	12
BRAENDERUP	29	6	10	15	5	65
BRANDENBURG	4	1	6	5	1	17
BREDENEY	.	.	1	1	2	4
CALABAR	.	.	.	.	1	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
CARRAU	.	.	.	1	.	1
CERRO	.	.	1	2	8	11
CHAILEY	.	.	.	.	1	1
CHAMELEON	1	.	.	.	.	1
CHESTER	3	.	4	2	.	9
CHOLERAESUIS	8	.	1	1	1	11
CUBANA	.	1	.	.	.	1
DERBY	14	3	9	4	1	31
DUBLIN	.	2	1	2	.	5
EALING	1	.	1	.	.	2
EASTBOURNE	1	.	.	1	.	2
EIMSBUETTEL	.	1	.	.	.	1
ELOMRANE	.	.	.	1	.	1
EMEK	2	.	.	.	.	2
ENTEBBE	.	1	.	.	.	1
ENTERITIDIS	271	64	188	195	142	860
ERLANGEN	.	.	.	1	.	1
FARMSEN	.	.	.	1	.	1
FLINT	3	.	.	.	.	3
GAMINARA	1	.	1	.	.	2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
GIVE	4	2	.	2	6	14
GLOSTRUP	2	.	.	1	1	4
GOLDCOAST	.	.	.	1	.	1
GROUP 61	1	.	.	.	1	2
GROUP 63	.	.	.	1	.	1
GROUP B	19	8	.	6	11	44
GROUP C1	3	4	.	1	.	8
GROUP D1	2	.	.	.	2	4
GROUP E1	.	.	.	.	1	1
GROUP G	2	.	.	.	.	2
GROUP H	.	.	.	.	1	1
GROUP J	.	.	.	.	1	1
GROUP V	1	.	.	.	.	1
GROUP X	.	.	.	2	.	2
GROUP Y	1	1	.	4	.	6
GROUP Z	.	.	.	1	1	2
GRUMPENSIS	.	.	1	.	.	1
HAARDT	.	1	2	.	.	3
HADAR	16	4	7	13	3	43
HAGENBECK	.	.	.	1	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
HAIFA	.	.	1	.	.	1
HARTFORD	14	7	11	10	6	48
HAVANA	1	1	.	.	.	2
HEIDELBERG	106	48	63	74	19	310
HOUTEN	.	.	.	.	6	6
HVITTINGFOSS	1	.	1	4	1	7
I 4,5,12:I:-	36	.	.	.	.	36
IBADAN	.	2	.	.	.	2
IIIB 48:I:Z	.	.	.	1	.	1
IIIB 61:1,V:1,5,7	.	1	.	.	.	1
IIIB 61:K:1,5,7	1	.	.	.	.	1
INDIANA	1	.	.	.	.	1
INFANTIS	56	9	37	22	9	133
INVERNESS	1	.	.	.	.	1
IPSWICH	1	.	.	.	.	1
IRUMU	.	.	1	.	.	1
ISANGI	1	.	.	.	.	1
IV 44:Z4,Z23:-	.	1	.	2	.	3
JANGWANI	.	.	.	1	.	1
JAVA	36	22	19	26	5	108

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
JAVIANA	29	7	15	13	1	65
JOHANNESBURG	4	1	.	1	.	6
KENTUCKY	3	.	2	3	2	10
KIAMBU	4	1	1	1	2	9
KINSHASA	1	.	.	.	.	1
KINTAMBO	.	.	2	.	.	2
KIVU	2	.	.	.	.	2
KOTTBUS	.	.	.	1	.	1
KRALENDYK	.	1	.	1	.	2
KUA	.	.	.	1	.	1
LANDWASSER	.	.	.	.	1	1
LANKA	.	1	.	.	.	1
LITCHFIELD	11	1	3	4	1	20
LIVERPOOL	2	.	.	.	.	2
LONDON	4	.	.	1	1	6
MADELIA	.	.	.	2	.	2
MANHATTAN	10	.	2	2	.	14
MARINA	1	2	1	3	1	8
MBANDAKA	8	5	3	4	4	24
MIAMI	3	2	.	.	.	5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
MINNESOTA	.	.	.	.	1	1
MISSISSIPPI	3	.	1	1	.	5
MONSCHAUI	.	.	2	1	.	3
MONTEVIDEO	64	13	23	25	15	140
MUENCHEN	38	16	52	16	73	195
MUENSTER	1	2	3	2	.	8
NEWBRUNSWICK	1	1	1	.	.	3
NEWINGTON	3	.	.	.	.	3
NEWPORT	57	38	39	65	14	213
NEWYORK	.	.	.	1	.	1
NORWICH	1	1	1	.	2	5
OAKLAND	.	.	.	.	1	1
OHIO	3	1	2	3	.	9
OLDENBURG	.	.	.	.	1	1
ORANIENBURG	25	2	23	27	18	95
OSLO	5	.	.	.	2	7
PAKISTAN	.	.	1	.	.	1
PANAMA	4	1	5	3	4	17
PARATYPHI A	2	.	2	.	.	4
PARATYPHI B	1	.	13	22	.	36

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
PARERA	.	.	1	.	.	1
POONA	21	3	5	5	11	45
POTSDAM	1	.	.	.	.	1
RAUS	.	.	.	3	.	3
READING	2	1	3	2	.	8
ROMANBY	1	.	1	.	.	2
RUBISLAW	.	.	1	3	.	4
SAINTPAUL	21	9	15	16	1	62
SANDIEGO	4	3	4	1	1	13
SANJUAN	.	.	.	1	.	1
SCHWARZENGRUND	9	.	1	4	1	15
SENFTENBERG	11	1	4	.	2	18
SHUBRA	.	.	.	1	.	1
STANLEY	13	2	6	15	2	38
STANLEYVILLE	1	.	.	.	.	1
SUBSPECIES I	.	2	.	.	.	2
SUBSPECIES III	.	.	.	1	.	1
TELELKEBIR	1	.	1	1	.	3
TENNESSEE	3	.	.	2	.	5
THOMPSON	29	4	35	15	10	93

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
Serotype						
TYPHI	19	5	10	7	.	41
TYPHIMURIUM	371	90	236	348	141	1186
TYPHIMURIUM VAR COPE	1	40	.	.	.	41
UGANDA	5	1	1	.	.	7
UNKNOWN	10	14	32	9	6	71
URBANA	8	1	2	1	.	12
VIRCHOW	7	.	2	1	.	10
WANDSWORTH	.	.	.	1	.	1
WASSENAAR	.	2	3	1	.	6
WELTEVREDEN	2	1	.	1	.	4
WORTHINGTON	1	.	.	2	.	3
TOTAL	1568	479	968	1093	582	4690

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
Serotype								
ADELAIDE	.	2	.	2	.	.	.	4
AGONA	6	.	13	17	.	.	.	36
ALACHUA	.	.	1	.	.	.	.	1
ALBANY	.	.	.	1	.	.	.	1
AMAGER	.	.	1	.	.	.	.	1
ANATUM	1	1	2	2	.	2	.	8
ANECHO	1	.	.	.	.	.	.	1
APAPA	.	1	.	.	.	.	.	1
AZTECA	.	.	.	.	.	.	1	1
BARDO	.	1	1	.	.	.	.	2
BAREILLY	1	.	2	19	.	.	.	22
BERTA	.	.	.	5	.	.	.	5
BLEGDAM	.	.	.	.	.	1	.	1
BLOCKLEY	1	.	3	.	.	.	.	4
BOVISMORBIFICANS	.	.	1	1	.	.	1	3
BRAENDERUP	6	6	20	11	.	1	3	47
BRANDENBURG	2	.	5	6	.	.	.	13
BREDENEY	.	.	1	.	.	.	1	2
CARRAU	.	.	2	1	.	1	.	4
CERRO	.	.	2	4	.	.	.	6

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=West North Central

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
Serotype								
CHOLERAESUIS	.	.	2	1	.	.	.	3
CHOLERAESUIS VAR KUN	2	.	.	.	.	.	.	2
COLINDALE	.	.	.	1	.	.	.	1
CONCORD	.	.	1	.	.	.	.	1
CUBANA	.	.	1	2	.	.	.	3
DERBY	1	2	2	1	.	.	1	7
EMEK	.	.	2	.	.	.	.	2
ENTERITIDIS	36	19	72	85	.	7	12	231
FLORIDA	.	.	.	1	.	.	.	1
GABON	.	.	.	.	.	.	1	1
GAMINARA	.	2	1	.	.	.	.	3
GIVE	.	.	4	4	.	1	.	9
GROUP 61	.	.	.	1	.	.	.	1
GROUP A	.	.	.	.	1	.	.	1
GROUP B	14	8	4	41	61	.	.	128
GROUP C1	.	.	.	.	57	.	.	57
GROUP C2	.	1	1	.	23	.	.	25
GROUP D1	2	1	.	1	18	.	.	22
GROUP E1	.	.	.	.	7	.	.	7

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
Serotype								
GROUP E4	1	.	.	.	.	.	.	1
GROUP G	.	.	.	.	1	.	.	1
GROUP I	.	1	.	2	.	.	.	3
GROUP Z	.	.	.	2	.	.	.	2
HADAR	4	2	6	8	.	1	1	22
HAMBURG	1	.	.	.	.	.	.	1
HARTFORD	3	1	5	7	.	.	.	16
HAVANA	.	.	.	2	.	.	.	2
HEIDELBERG	8	13	95	37	.	12	8	173
HOUTEN	.	.	1	.	.	.	.	1
HVITTINGFOSS	1	.	1	.	.	.	1	3
I 4,5,12:I:-	.	.	.	2	.	.	.	2
INDIANA	.	.	.	1	.	.	.	1
INFANTIS	5	4	22	11	.	2	.	44
INVERNESS	.	.	1	.	.	.	.	1
ISTANBUL	.	.	1	.	.	.	.	1
IV 44:Z4,Z23:-	.	.	.	3	.	.	.	3
JAJA	.	.	1	.	.	.	.	1
JAVA	4	8	16	18	.	.	.	46
JAVIANA	4	9	7	36	.	.	.	56

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
Serotype								
JOHANNESBURG	1	.	.	1	.	.	.	2
KENTUCKY	2	1	.	4	.	.	.	7
KIAMBU	.	1	1	2	.	.	.	4
LITCHFIELD	.	1	2	3	.	.	3	9
LONDON	.	.	8	1	.	.	.	9
MADELIA	.	.	2	.	.	.	.	2
MANHATTAN	.	1	4	5	.	.	.	10
MARINA	.	.	.	2	.	.	.	2
MBANDAKA	.	.	3	7	.	.	.	10
MELEAGRIDIS	.	.	1	1	.	.	.	2
MIAMI	.	.	1	1	.	.	.	2
MINNESOTA	.	.	.	1	.	.	.	1
MISSISSIPPI	.	.	1	3	.	.	.	4
MONTEVIDEO	12	3	31	21	.	.	5	72
MUENCHEN	6	6	25	31	.	4	5	77
MUENSTER	1	.	5	2	.	.	1	9
NAPOLI	1	.	.	.	.	.	.	1
NEWPORT	15	33	27	67	.	5	9	156
NITRA	1	.	.	.	.	.	.	1
NORWICH	.	5	.	14	.	.	.	19

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
Serotype								
OHIO	.	.	1	3	.	.	2	6
ORANIENBURG	3	5	9	10	.	.	2	29
OSLO	2	.	.	2	.	.	.	4
PANAMA	.	1	5	3	.	1	.	10
PARATYPHI A	1	1	2	1	.	.	.	5
PARATYPHI B	.	.	.	.	.	3	2	5
POONA	1	2	1	6	.	.	.	10
PUTTEN	.	1	.	.	.	.	.	1
READING	2	1	3	2	.	.	.	8
RISSEN	.	.	1	.	.	.	.	1
ROODEPOORT	.	.	1	.	.	.	.	1
RUBISLAW	.	.	.	2	.	.	.	2
SAINTPAUL	3	1	7	13	.	.	4	28
SANDIEGO	.	.	1	3	.	1	1	6
SCHWARZENGRUND	.	.	6	.	.	1	.	7
SENFTENBERG	3	.	4	2	.	2	.	11
SINGAPORE	.	.	.	2	.	.	.	2
SINSTORF	.	1	.	.	.	.	1	2
STANLEY	3	.	6	3	.	2	.	14
STANLEYVILLE	.	.	1	.	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
Serotype								
SUBSPECIES I	.	.	2	2	.	.	.	4
SUBSPECIES II	.	.	2	.	.	.	.	2
SUBSPECIES IIIA	.	.	3	.	.	.	.	3
SUBSPECIES IIIA/IIIB	1	.	1	.	.	.	.	2
SUBSPECIES IIIB	.	.	1	.	.	.	.	1
SUBSPECIES IV	.	.	1	.	.	.	.	1
TELELKEBIR	.	.	.	3	.	.	.	3
TENNESSEE	1	.	1	2	.	.	.	4
THOMASVILLE	.	.	.	1	.	.	.	1
THOMPSON	3	5	16	25	.	1	3	53
TYPHI	.	1	4	1	.	2	.	8
TYPHIMURIUM	43	60	209	281	.	12	48	653
TYPHIMURIUM VAR COPE	19	12	.	1	.	.	2	34
UCCLE	.	.	.	.	1	.	.	1
UGANDA	.	.	.	2	.	.	.	2
UNKNOWN	2	3	7	2	11	.	.	25
URBANA	2	.	.	.	.	.	.	2
VIRCHOW	.	.	3	4	.	.	.	7
WELTEVREDEN	.	.	.	1	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
Serotype								
WORTHINGTON	.	.	1	1	.	.	.	2
YOVOKOME	.	.	.	1	.	.	.	1
TOTAL	232	227	710	881	180	62	118	2410

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
AARHUS	.	.	1	.	.	.	.	.	1
ABAETETUBA	.	.	2	.	.	.	1	.	3
ADELAIDE	.	3	5	.	8	.	.	1	17
AFLAO	.	.	.	.	1	.	.	.	1
AFRICANA	.	.	.	6	.	.	.	.	6
AGONA	3	1	18	3	6	4	8	6	49
ALABAMA	.	.	1	.	.	.	.	.	1
ALACHUA	.	1	.	.	.	.	1	.	2
ALBANY	.	.	.	.	.	.	1	.	1
ANATUM	4	10	3	4	3	3	3	.	30
APEYEME	.	.	1	.	.	.	.	.	1
BAILDON	.	4	4	.	.	1	11	.	20
BARDO	.	.	2	.	.	.	.	.	2
BAREILLY	1	.	11	3	14	.	14	.	43
BERTA	.	2	7	6	5	5	6	4	35
BLOCKLEY	.	.	1	2	2	.	1	.	6
BOCHUM	.	.	.	1	.	.	.	.	1
BONARIENSIS	.	.	.	1	.	.	.	.	1
BOVISMORBIFICANS	.	.	3	.	6	.	1	.	10

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
BRAENDERUP	.	16	45	18	9	4	13	1	106
BRANDENBURG	.	.	12	3	12	6	3	.	36
BREDENEY	.	.	2	3	.	.	1	1	7
CARACAS	.	.	1	.	.	.	.	.	1
CARMEL	.	.	.	.	.	.	1	.	1
CARRAU	.	.	.	.	2	.	.	.	2
CERRO	1	1	1	.	2	.	2	.	7
CHESTER	1	.	3	.	1	.	.	1	6
CHOLERAESUIS	.	.	1	.	.	.	1	.	2
CHOLERAESUIS VAR KUN	.	.	4	.	.	1	.	.	5
COELN	.	1	1	.	.	.	.	.	2
COLINDALE	.	.	.	1	.	.	.	.	1
COLORADO	.	.	.	.	2	.	.	.	2
COTHAM	.	.	.	.	2	.	.	.	2
CUBANA	.	2	4	2	.	.	1	.	9
DAYTONA	.	.	3	.	.	.	.	.	3
DEGANIA	.	.	1	.	.	.	.	.	1
DERBY	1	4	10	4	16	1	2	.	38
DUBLIN	.	3	.	2	.	.	.	.	5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
DUESSELDORF	.	1	.	.	.	.	.	.	1
EALING	.	2	.	.	.	.	.	.	2
EASTBOURNE	.	.	1	1	.	.	.	.	2
ENTERITIDIS	42	27	62	198	80	52	299	34	794
EPPENDORF	.	1	.	.	.	.	.	.	1
ESSEN	.	.	.	1	.	.	.	.	1
FAYED	.	.	.	.	6	.	.	.	6
FISCHERKIETZ	.	.	.	1	.	.	.	.	1
FLINT	.	53	3	2	.	.	1	.	59
GAMINARA	.	2	2	.	2	2	.	.	8
GATUNI	.	.	.	.	1	.	.	.	1
GIVE	.	1	5	2	.	.	4	.	12
GROUP 58	.	.	.	1	.	.	.	.	1
GROUP B	.	7	12	22	3	.	20	.	64
GROUP C1	.	.	1	1	.	.	8	.	10
GROUP C2	.	.	3	.	.	.	.	1	4
GROUP D1	.	1	6	1	.	.	.	.	8
GROUP E1	.	1	.	1	.	.	.	.	2
GROUP G	.	.	.	3	.	.	.	.	3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
GROUP O	.	.	.	3	.	.	.	.	3
GROUP Q	.	1	.	.	.	.	.	.	1
GROUP S	.	.	.	1	.	.	.	.	1
GROUP V	.	.	1	.	.	.	.	.	1
GROUP Y	.	.	.	2	3	.	.	.	5
GROUP Z	.	.	.	.	1	.	.	.	1
GUILDFORD	.	.	1	.	.	.	.	.	1
HADAR	4	1	28	43	11	4	10	3	104
HADEJIA	.	.	1	.	.	.	.	.	1
HAIFA	.	.	2	.	1	.	.	.	3
HALLE	.	.	1	.	.	.	.	.	1
HARTFORD	1	3	18	3	4	1	3	.	33
HATFIELD	.	1	.	.	.	.	.	.	1
HAVANA	.	.	1	3	.	.	3	1	8
HEIDELBERG	9	11	86	29	72	32	44	3	286
HEVES	.	.	1	.	.	.	.	.	1
HIDUDDIFY	.	.	.	.	1	.	.	.	1
HVITTINGFOSS	.	1	3	1	.	.	1	.	6
I 4,5,12:I:-	.	.	5	.	.	.	.	.	5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
IBADAN	.	.	1	.	2	.	.	.	3
IIIA 48:G,Z51:-	.	2	1	.	.	.	.	.	3
IIIA 53:Z4,Z23,Z32:-	.	2	.	.	.	.	.	.	2
INCHPARK	.	1	.	.	.	.	.	.	1
INDIANA	.	.	1	3	.	.	.	.	4
INFANTIS	6	2	21	9	20	3	18	1	80
INVERNESS	.	8	1	.	5	.	.	.	14
ISTANBUL	.	.	.	.	.	.	1	.	1
ITURI	.	.	.	.	2	.	.	.	2
IV 44:Z4,Z23:-	.	.	1	.	.	.	.	.	1
JAMAICA	.	.	2	.	.	.	.	.	2
JANGWANI	.	1	.	.	.	.	.	.	1
JAVA	.	.	22	3	12	3	8	4	52
JAVIANA	4	114	170	22	163	62	20	.	555
JOHANNESBURG	.	4	9	1	2	2	.	.	18
KEDOUGOU	.	1	.	.	.	.	.	.	1
KENTUCKY	.	1	2	.	.	1	1	.	5
KIAMBU	.	1	5	2	.	.	1	.	9
KILWA	.	.	.	.	3	.	.	.	3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
KINONDONI	.	.	.	1	.	.	.	.	1
KINTAMBO	.	.	1	.	.	.	.	.	1
KOTTBUS	.	.	.	1	1	.	.	.	2
KRALINGEN	.	.	1	.	.	.	.	.	1
KUA	.	.	.	.	1	.	.	.	1
LANDWASSER	.	.	.	1	.	.	.	.	1
LAROCHELLE	1	.	.	.	.	1	.	.	2
LINDENBURG	.	.	.	1	.	.	.	.	1
LITCHFIELD	.	2	4	3	.	2	7	1	19
LOMALINDA	.	.	2	.	.	.	.	.	2
LONDON	.	.	1	1	.	.	.	.	2
MADELIA	.	.	3	.	.	1	.	.	4
MANHATTAN	.	2	3	.	1	2	2	.	10
MARINA	.	3	.	2	1	.	.	.	6
MATADI	.	.	.	.	1	.	.	.	1
MBANDAKA	1	.	7	1	8	1	3	.	21
MENDOZA	.	.	.	.	.	1	.	.	1
MIAMI	.	31	5	1	13	2	2	.	54
MINNESOTA	.	1	1	3	.	.	.	.	5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
MISSION	.	1	.	.	.	.	.	.	1
MISSISSIPPI	.	13	52	2	21	13	3	.	104
MONSCHAUI	1	.	.	.	1	.	.	.	2
MONTEVIDEO	.	19	40	25	18	7	17	5	131
MUENCHEN	.	27	73	17	49	39	18	4	227
MUENSTER	.	1	1	2	3	.	.	2	9
NEWINGTON	.	.	.	.	.	2	1	1	4
NEWPORT	23	90	278	99	242	105	109	7	953
NORWICH	.	.	3	2	2	.	6	.	13
OHIO	.	1	3	.	6	2	.	.	12
ONDERSTEPOORT	.	.	.	.	.	.	1	.	1
ORANIENBURG	1	11	9	12	19	1	8	.	61
OSLO	.	.	.	1	.	1	.	.	2
OTHMARSCHEN	.	.	.	.	.	.	.	2	2
PAKISTAN	.	.	.	1	.	.	.	.	1
PANAMA	.	.	3	4	.	.	5	.	12
PARATYPHI A	.	.	1	4	.	.	5	.	10
PARATYPHI B	.	.	2	.	1	4	.	.	7
PARATYPHI C	.	.	.	.	.	1	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
PENSACOLA	.	.	1	.	3	3	.	.	7
POMONA	.	.	.	.	1	.	.	.	1
POONA	.	7	10	2	4	1	3	.	27
POTSDAM	.	.	.	1	.	1	.	.	2
PRAHA	.	.	.	.	1	.	.	.	1
PUTTEN	.	.	.	.	2	.	.	.	2
READING	.	.	6	2	.	.	4	3	15
RISSEN	.	.	.	.	.	.	1	.	1
ROTTNEST	1	.	.	.	.	.	.	.	1
RUBISLAW	.	35	11	.	1	4	.	.	51
SAINTPAUL	2	30	25	3	7	9	7	1	84
SANDIEGO	.	3	4	.	.	3	.	.	10
SANTIAGO	.	.	.	.	1	.	.	.	1
SAPHRA	.	.	2	.	.	.	.	.	2
SCHWARZENGRUND	.	.	59	2	1	2	1	1	66
SENFTENBERG	.	11	2	2	3	.	1	.	19
SINSTORF	.	1	.	.	.	.	.	.	1
SOERENGA	.	.	.	.	.	.	1	.	1
SOMONE	.	.	.	.	1	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
STACHUS	.	.	1	.	.	.	.	.	1
STANLEY	1	1	5	8	5	2	3	.	25
STOCKHOLM	.	4	.	.	.	.	.	.	4
SUBSPECIES I	.	7	37	.	.	.	2	.	46
SUBSPECIES IIIA	.	3	1	.	.	.	2	.	6
SUBSPECIES IIIA/IIIB	.	.	.	.	6	3	.	1	10
SUBSPECIES IIIB	.	.	2	.	.	.	4	.	6
SUBSPECIES IV	.	4	7	.	.	.	4	1	16
TALLAHASSEE	.	1	.	.	.	.	.	.	1
TELELKEBIR	.	.	.	.	.	.	2	.	2
TENNESSEE	.	.	2	1	1	.	.	.	4
THOMASVILLE	.	.	1	.	1	.	.	.	2
THOMPSON	2	7	20	7	9	1	12	2	60
TYPHI	2	19	6	9	2	2	8	.	48
TYPHIMURIUM	46	67	228	146	372	106	270	61	1296
TYPHIMURIUM VAR COPE	.	.	138	92	.	.	.	.	230
UGANDA	.	.	4	2	6	.	.	.	12
UNKNOWN	1	2	2	2	7	19	3	.	36

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=South Atlantic ----------

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
Serotype									
URBANA	1	4	1	2	1	.	2	.	11
VIRCHOW	.	.	3	2	1	1	3	.	10
WANDSWORTH	.	1	.	1	.	.	.	1	3
WASSENAAR	.	.	.	.	.	.	1	.	1
WELIKADE	.	.	.	.	1	.	.	.	1
WELTEVREDEN	.	1	1	2	1	.	1	.	6
WORTHINGTON	.	.	3	.	.	1	1	.	5
TOTAL	160	709	1701	888	1311	530	1036	154	6489

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
Serotype					
AARHUS	.	.	.	1	1
ABERDEEN	1	.	.	.	1
ADELAIDE	.	.	.	3	3
AGONA	2	5	.	5	12
ALABAMA	1	.	.	2	3
ALACHUA	.	1	.	.	1
ALBANY	.	1	.	1	2
ANATUM	2	1	.	1	4
BAILDON	3	.	.	3	6
BAREILLY	3	13	1	19	36
BARRANQUILLA	1	.	.	.	1
BELEM	.	.	1	.	1
BERTA	.	1	.	3	4
BOVISMORBIFICANS	.	.	.	1	1
BRAENDERUP	7	5	1	21	34
BRANDENBURG	3	2	.	4	9
BRAZIL	2	.	.	.	2
BREDENEY	2	.	.	.	2
CHAMELEON	.	1	.	.	1
DERBY	1	.	.	1	2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=East South Central

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
Serotype					
DJUGU	.	.	1	.	1
ENTERITIDIS	20	31	2	34	87
EPPENDORF	.	1	.	.	1
GAMINARA	5	.	2	.	7
GIVE	5	2	.	1	8
GROUP 60	.	.	.	1	1
GROUP 61	.	.	.	1	1
GROUP B	13	.	3	15	31
GROUP C1	6	.	4	2	12
GROUP C2	1	.	1	.	2
GROUP D1	4	.	.	2	6
GROUP E1	1	.	1	.	2
GROUP G	2	.	.	.	2
GROUP H	1	.	.	.	1
GROUP I	.	.	1	.	1
GROUP V	.	2	.	.	2
GROUP Y	.	1	.	.	1
HADAR	2	4	.	8	14
HARTFORD	6	.	.	1	7
HAVANA	1	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
Serotype					
HEIDELBERG	19	19	3	45	86
HOUTEN	.	2	.	.	2
HVITTINGFOSS	.	.	.	4	4
INFANTIS	4	12	.	13	29
INVERNESS	2	.	.	.	2
ITAMI	.	.	4	.	4
ITURI	.	1	.	.	1
IV 44:Z4,Z23:-	.	.	.	1	1
JAVA	.	5	1	17	23
JAVIANA	58	7	.	28	93
JOHANNESBURG	1	.	.	5	6
JOS	.	.	.	1	1
KEDOUGOU	1	.	.	.	1
KENTUCKY	.	.	.	1	1
KIAMBU	1	.	.	1	2
KREFELD	.	1	.	.	1
LINDENBURG	1	.	.	.	1
LITCHFIELD	3	.	.	2	5
LIVINGSTONE	.	.	.	1	1
LONDON	.	.	.	4	4

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
Serotype					
LUCIANA	1	.	.	.	1
MANHATTAN	1	1	1	.	3
MARINA	.	2	.	1	3
MBANDAKA	1	3	.	2	6
MIAMI	.	.	.	1	1
MISSISSIPPI	20	3	19	9	51
MONTEVIDEO	19	6	1	6	32
MUENCHEN	35	3	4	5	47
MUENSTER	1	.	1	.	2
NEWBRUNSWICK	1	.	.	.	1
NEWPORT	57	26	9	66	158
NEWROCHELLE	1	.	.	.	1
NORDENHAM	.	.	1	.	1
NORWICH	3	1	1	9	14
OHIO	3	.	.	2	5
ORANIENBURG	3	7	.	8	18
OTHMARSCHEN	.	1	.	.	1
PANAMA	2	.	.	2	4
PARATYPHI A	1	.	.	.	1
PARATYPHI B	1	2	.	.	3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
Serotype					
PENSACOLA	1	.	.	.	1
POONA	2	.	.	3	5
PULLORUM	.	.	1	.	1
READING	1	1	.	.	2
RISSEN	.	.	.	1	1
RUBISLAW	5	.	2	.	7
SAINTPAUL	7	1	.	6	14
SANDIEGO	1	.	.	5	6
SAPHRA	1	.	.	.	1
SCHLEISSHEIM	5	1	.	.	6
SCHWARZENGRUND	2	.	.	3	5
SENFTENBERG	1	1	.	2	4
SHUBRA	1	.	.	.	1
SUBSPECIES II	.	.	.	1	1
SUBSPECIES IIIA	1	.	.	.	1
SUBSPECIES IIIB	1	.	.	.	1
SUBSPECIES IV	4	.	.	.	4
SUNDSVALL	.	.	.	1	1
TAFO	1	.	.	.	1
TALLAHASSEE	.	.	.	1	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
Serotype					
TELELKEBIR	.	.	.	1	1
TENNESSEE	1	1	.	.	2
THOMPSON	4	8	.	21	33
TILENE	1	.	.	.	1
TYPHI	.	.	.	1	1
TYPHIMURIUM	114	74	18	165	371
TYPHIMURIUM VAR COPE	.	28	8	.	36
UGANDA	1	.	.	1	2
UNKNOWN	1	5	5	13	24
URBANA	.	.	.	2	2
VIRCHOW	.	1	1	3	5
VIRGINIA	.	.	1	3	4
TOTAL	491	294	99	597	1481

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
Serotype					
ADELAIDE	.	1	.	7	8
AGONA	2	6	9	33	50
ALACHUA	.	2	.	3	5
ANATUM	.	3	.	13	16
ARECHAVALETA	.	.	1	.	1
ARKANSAS	4	.	.	.	4
ASSEN	.	.	.	1	1
BARDO	.	.	4	.	4
BAREILLY	7	11	2	3	23
BERTA	2	5	4	5	16
BLOCKLEY	.	1	1	2	4
BRAENDERUP	1	10	12	40	63
BRANDENBURG	1	2	2	2	7
BREDENEY	1	1	2	3	7
CERRO	.	1	.	10	11
CHESTER	.	.	1	2	3
CHOLERAESUIS VAR KUN	.	1	.	.	1
CLAIBORNEI	1	.	.	.	1
CUBANA	1	.	.	6	7

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=West South Central

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
Serotype					
DERBY	.	2	1	4	7
DURHAM	.	.	.	1	1
EASTBOURNE	.	.	1	.	1
ENTERITIDIS	3	18	14	75	110
GAMINARA	.	18	.	5	23
GIVE	.	16	1	9	26
GLOSTRUP	.	.	.	1	1
GROUP 62	.	.	1	.	1
GROUP A	.	.	.	1	1
GROUP B	.	14	11	14	39
GROUP C1	.	.	11	4	15
GROUP C2	.	.	2	3	5
GROUP D1	.	5	3	2	10
GROUP D2	.	.	1	.	1
GROUP E1	.	.	.	3	3
GROUP E2	.	.	1	.	1
GROUP G	.	.	2	3	5
GROUP K	.	.	1	1	2
HADAR	1	2	2	40	45
HALMSTAD	1	.	.	1	2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
Serotype					
HARTFORD	.	3	.	1	4
HATO	.	1	.	.	1
HAVANA	.	.	.	10	10
HEIDELBERG	11	25	8	48	92
HVITTINGFOSS	.	11	.	1	12
IBADAN	.	.	1	17	18
INFANTIS	1	5	11	57	74
INVERNESS	.	.	.	1	1
JAVA	2	7	4	7	20
JAVIANA	15	62	7	116	200
JOHANNESBURG	.	.	.	3	3
KENTUCKY	.	1	.	1	2
KIAMBU	.	1	.	5	6
LAROCHELLE	.	.	2	.	2
LINDENBURG	.	.	.	1	1
LITCHFIELD	1	9	5	6	21
LOHBRUEGGE	.	.	.	1	1
LUANSHYA	.	.	1	.	1
LUCIANA	.	.	.	1	1
MADELIA	.	.	.	2	2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=West South Central

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
Serotype					
MANHATTAN	3	1	1	2	7
MARINA	.	.	.	1	1
MATADI	.	.	1	.	1
MBANDAKA	.	5	1	4	10
MELEAGRIDIS	.	.	.	1	1
MIAMI	.	1	.	.	1
MIKAWASIMA	.	.	.	1	1
MINNESOTA	.	.	.	5	5
MISSISSIPPI	3	36	2	19	60
MONTEVIDEO	4	25	7	50	86
MUENCHEN	1	30	17	51	99
MUENSTER	1	1	.	2	4
NEWBRUNSWICK	.	.	1	1	2
NEWINGTON	.	.	.	1	1
NEWPORT	86	124	62	220	492
NGOR	.	.	2	.	2
NORWICH	2	2	4	7	15
OHIO	.	1	.	.	1
ORANIENBURG	.	6	7	76	89
OTHMARSCHEN	.	.	1	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
Serotype					
PANAMA	.	2	5	6	13
PARATYPHI A	1	.	2	15	18
PARATYPHI B	.	1	14	5	20
PHOENIX	.	.	.	6	6
POONA	1	1	4	22	28
READING	.	2	.	1	3
REMO	1	.	.	.	1
RIOGRANDE	.	.	.	1	1
ROMANBY	.	.	.	1	1
RUBISLAW	3	11	3	13	30
RUZIZI	.	.	.	1	1
SAINTPAUL	1	8	1	17	27
SANDIEGO	.	.	.	9	9
SAPHRA	.	4	.	3	7
SCHWARZENGRUND	1	3	.	.	4
SENFTENBERG	.	1	.	12	13
SHUBRA	.	.	2	.	2
STANLEY	.	1	1	1	3
SUBSPECIES I	.	.	2	.	2
SUBSPECIES II	.	.	2	.	2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE				TOTAL
	Arkansas	Louisiana	Oklahoma	Texas	
Serotype					
SUBSPECIES IIIA/IIIB	.	.	.	1	1
TELELKEBIR	.	.	.	1	1
TENNESSEE	.	1	.	.	1
THOMPSON	.	21	5	29	55
TYPHI	.	2	.	24	26
TYPHIMURIUM	98	75	70	252	495
UGANDA	.	1	2	1	4
UNKNOWN	3	.	1	122	126
URBANA	.	5	.	7	12
VIRCHOW	.	2	1	2	5
WA	1	.	.	.	1
WASSENAAR	.	.	.	1	1
WELTEVREDEN	.	.	1	.	1
WESTHAMPTON	.	.	1	.	1
WORTHINGTON	.	.	.	4	4
TOTAL	265	617	352	1573	2807

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mountain

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
Serotype									
ABONY	2	1	.	.	.	.	.	.	3
ADELAIDE	.	.	.	.	.	1	.	.	1
AGONA	.	2	2	.	1	2	5	.	12
ALBANY	.	.	.	.	.	1	2	.	3
ANATUM	.	8	.	.	2	6	1	.	17
ANECHO	1	.	.	.	.	.	.	.	1
BAILDON	13	.	.	.	.	.	.	.	13
BARDO	.	.	1	.	.	.	.	.	1
BAREILLY	1	.	.	.	.	.	.	.	1
BERGEN	1	.	.	.	.	.	.	.	1
BERTA	.	.	.	.	.	.	1	.	1
BLOCKLEY	4	1	.	.	.	1	1	.	7
BOVISMORBIFICANS	.	.	1	.	.	.	1	.	2
BRAENDERUP	6	13	3	.	.	1	3	.	26
BRANDENBURG	1	3	.	.	.	.	.	.	4
BRAZOS	.	.	.	.	.	1	.	.	1
BREDENEY	.	.	.	.	.	1	1	.	2
CALIFORNIA	1	.	.	.	.	.	.	.	1
CAMBRIDGE	1	.	.	.	.	.	.	.	1
CARRAU	.	1	.	.	.	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mountain

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
Serotype									
CERRO	2	1	.	.	.	3	2	.	8
CHAMELEON	.	1	.	.	.	.	.	.	1
CHOLERAESUIS VAR KUN	.	1	.	.	.	.	.	.	1
CUBANA	1	.	.	.	.	.	1	.	2
DAHRA	.	.	.	.	2	.	.	.	2
DAYTONA	.	1	.	.	.	.	.	.	1
DENVER	.	.	.	.	.	1	.	.	1
DERBY	15	9	.	.	.	.	.	.	24
DRYPOOL	5	.	.	.	.	.	.	.	5
DUBLIN	12	1	.	.	.	2	.	.	15
EMEK	.	.	.	.	.	.	1	.	1
ENTERITIDIS	67	94	15	.	5	27	359	.	567
FLINT	.	.	.	.	.	.	1	.	1
GAMINARA	1	3	.	.	.	.	.	.	4
GIVE	.	1	.	.	1	.	1	.	3
GOETTINGEN	1	.	.	.	.	.	.	.	1
GROUP B	.	.	.	.	.	.	2	25	27
GROUP C1	.	.	.	1	.	1	.	5	7
GROUP C2	.	.	.	.	.	.	.	8	8

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mountain

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
Serotype									
GROUP D1	.	.	.	1	.	1	1	19	22
GROUP E1	.	.	.	.	.	.	.	1	1
HADAR	12	12	.	.	3	9	3	.	39
HARTFORD	.	1	1	.	.	.	.	.	2
HAVANA	2	.	.	.	.	4	.	.	6
HEIDELBERG	27	29	3	.	5	14	4	.	82
HORSHAM	.	.	.	.	.	2	.	.	2
IBADAN	1	.	.	.	.	.	.	.	1
IIIA 53:Z4,Z23,Z32:-	.	2	.	.	.	.	.	.	2
INDIANA	1	1	.	.	.	.	.	.	2
INFANTIS	14	15	.	.	1	10	2	.	42
INVERNESS	1	.	.	.	.	.	.	.	1
IRUMU	.	.	.	.	.	.	1	.	1
IV 44:Z4,Z23:-	.	.	.	.	.	.	1	.	1
JAVA	4	3	.	.	.	.	6	.	13
JAVIANA	31	10	.	.	1	10	4	.	56
JOHANNESBURG	.	.	.	.	1	.	.	.	1
KENTUCKY	3	1	.	.	.	1	.	.	5
KINSHASA	.	1	.	.	.	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=Mountain ----------

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
Serotype									
KINTAMBO	1	1	.	.	.	.	.	.	2
KOTTBUS	.	1	.	.	.	.	.	.	1
KRALENDYK	.	1	.	.	.	.	.	.	1
LINDENBURG	.	.	.	.	.	1	.	.	1
LITCHFIELD	.	3	.	.	.	2	.	.	5
LIVINGSTONE	.	.	.	.	.	1	1	.	2
LOMALINDA	.	.	.	.	.	.	1	.	1
LONDON	1	2	.	.	.	.	.	.	3
MANCHESTER	.	1	.	.	.	.	.	.	1
MBANDAKA	2	3	10	.	.	5	6	.	26
MIAMI	.	.	.	.	.	.	1	.	1
MINNESOTA	3	2	.	.	.	1	.	.	6
MISSISSIPPI	.	.	.	.	.	.	1	.	1
MONTEVIDEO	27	25	2	.	1	12	8	.	75
MUENCHEN	71	15	21	.	.	14	17	.	138
MUENSTER	1	1	.	.	.	1	.	.	3
NEWBRUNSWICK	6	.	.	.	.	.	.	.	6
NEWINGTON	13	1	.	.	.	.	.	.	14
NEWPORT	90	62	4	.	1	26	13	.	196
NORWICH	2	.	.	.	.	.	.	.	2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Mountain

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
Serotype									
OHIO	.	3	.	.	.	1	4	.	8
ORANIENBURG	57	24	.	.	.	44	3	.	128
OSLO	.	1	.	.	.	1	.	.	2
OTHMARSCHEN	.	.	4	.	.	.	.	.	4
PANAMA	13	3	.	.	1	3	1	.	21
PARATYPHI A	1	2	.	.	.	.	.	.	3
PARATYPHI B	8	3	.	.	1	2	1	.	15
POONA	39	3	1	.	1	5	1	.	50
READING	1	2	.	.	.	1	1	.	5
SAINTPAUL	19	1	1	.	.	1	9	.	31
SANDIEGO	4	5	.	.	.	2	.	.	11
SAPHRA	.	.	.	.	.	.	2	.	2
SCHWARZENGRUND	.	1	.	.	1	.	2	.	4
SENFTENBERG	1	7	.	.	1	3	1	.	13
STANLEY	8	3	.	.	.	.	3	.	14
SUBSPECIES I	4	.	.	.	.	1	.	.	5
SUBSPECIES II	1	.	.	.	.	.	.	.	1
SUBSPECIES IIIA	4	1	.	.	.	.	.	.	5
SUBSPECIES IIIA/IIIB	.	.	.	.	.	1	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

---------- REGION=Mountain ----------

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
Serotype									
TALLAHASSEE	1	.	.	.	.	.	.	.	1
TENNESSEE	3	.	.	.	.	.	1	.	4
THOMPSON	12	15	1	.	.	1	6	.	35
TRAVIS	1	.	.	.	.	.	.	.	1
TYPHI	2	3	.	.	.	.	3	.	8
TYPHIMURIUM	187	180	25	.	12	41	96	.	541
TYPHIMURIUM VAR COPE	.	115	.	.	5	23	.	1	144
UNKNOWN	.	.	.	.	3	1	.	.	4
VEJLE	1	.	.	.	.	.	.	.	1
VIRGINIA	.	.	1	.	.	.	.	.	1
WAYCROSS	.	.	1	.	.	.	.	.	1
WELTEVREDEN	3	.	.	.	.	.	.	.	3
WIEN	.	1	.	.	.	.	.	.	1
WORTHINGTON	2	1	.	.	.	.	1	.	4
TOTAL	820	708	97	2	49	293	587	59	2615

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Pacific

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
ABAETETUBA	.	2	.	.	.	2
ABERDEEN	.	2	.	.	.	2
ADELAIDE	.	11	.	.	.	11
AGAMA	.	2	.	.	.	2
AGONA	2	92	8	3	18	123
ALACHUA	1	2	.	1	.	4
ALBANY	.	5	.	.	.	5
ALTONA	.	1	.	.	.	1
AMAGER	.	.	2	.	.	2
ANATUM	.	20	3	1	3	27
BAILDON	.	34	.	.	.	34
BARDO	.	2	.	.	.	2
BAREILLY	.	7	.	.	2	9
BERTA	.	20	.	1	.	21
BINZA	.	1	.	.	.	1
BLOCKLEY	.	6	.	.	.	6
BONAIRE	.	1	.	.	.	1
BONARIENSIS	.	1	.	.	.	1
BOVISMORBIFICANS	.	1	2	.	.	3
BRAENDERUP	.	75	1	6	6	88

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
BREDENEY	.	7	.	.	.	7
BROUGHTON	.	.	.	1	.	1
BUTANTAN	.	1	.	.	.	1
CARRAU	.	.	.	.	2	2
CERRO	.	10	.	.	.	10
CHAILEY	.	2	.	.	.	2
CHESTER	.	6	1	.	.	7
CHOLERAESUIS	.	1	.	.	1	2
CLACKAMAS	.	.	.	3	.	3
CONCORD	1	.	.	.	.	1
CORVALLIS	.	1	.	.	.	1
CUBANA	.	8	.	1	.	9
DERBY	.	32	7	1	4	44
DUBLIN	1	23	.	3	4	31
EALING	.	1	.	.	.	1
EASTBOURNE	.	.	.	.	1	1
EDINBURG	.	1	.	.	.	1
ELOMRANE	.	1	.	.	.	1
EMEK	.	.	.	.	1	1
ENTERITIDIS	4	526	93	43	90	756

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
GAMINARA	.	.	.	.	1	1
GIVE	.	13	4	.	.	17
GLOSTRUP	.	.	.	.	1	1
GROUP 53	.	.	.	1	1	2
GROUP 60	.	.	.	1	.	1
GROUP B	.	10	1	.	13	24
GROUP C1	.	3	.	2	.	5
GROUP D1	.	1	1	1	.	3
GROUP I	.	41	.	.	.	41
GROUP K	.	2	.	.	.	2
GROUP R	.	1	.	.	.	1
GROUP Z	.	6	.	.	1	7
GRUMPENSIS	.	1	.	.	.	1
HADAR	1	55	3	3	12	74
HAIFA	.	.	.	1	1	2
HARTFORD	.	3	1	.	.	4
HAVANA	.	10	.	.	.	10
HEIDELBERG	10	180	14	26	43	273
HORSHAM	.	1	.	.	.	1
HOUTEN	.	.	.	.	1	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
HVITTINGFOSS	.	.	.	.	1	1
IIIB 61:1,V:1,5,7	.	.	.	.	1	1
IIIB 65:K:Z	.	.	.	.	1	1
INDIANA	.	2	.	1	2	5
INFANTIS	.	63	6	13	9	91
INVERNESS	.	.	.	.	1	1
IRUMU	.	1	.	1	.	2
ISTANBUL	.	10	.	3	.	13
ITAMI	.	.	.	1	2	3
IV 44:Z4,Z23:-	.	.	.	.	1	1
JANGWANI	.	.	.	.	1	1
JAVA	.	.	.	7	.	7
JAVIANA	2	29	.	3	20	54
JOHANNESBURG	.	2	.	.	.	2
KENTUCKY	.	11	.	.	.	11
KIAMBU	.	3	.	.	.	3
KINGABWA	.	2	.	.	.	2
KINSHASA	.	1	.	.	.	1
KINTAMBO	.	.	.	.	1	1
KIRKEE	.	1	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
KOTTBUS	.	1	.	.	.	1
LANSING	.	1	.	.	.	1
LITCHFIELD	.	11	.	4	1	16
LOMALINDA	.	2	.	.	1	3
LONDON	.	2	.	1	.	3
LUCIANA	.	2	.	1	.	3
MADELIA	.	1	.	.	.	1
MANGO	.	.	.	.	1	1
MANHATTAN	.	22	.	.	.	22
MANILA	.	1	.	.	.	1
MARINA	.	1	.	1	1	3
MBANDAKA	.	38	1	54	22	115
MELEAGRIDIS	.	4	.	.	3	7
MIAMI	.	1	.	.	3	4
MICHIGAN	.	2	.	.	.	2
MIKAWASIMA	.	.	.	1	2	3
MINNESOTA	.	5	.	.	.	5
MISSISSIPPI	.	5	.	.	.	5
MONTEVIDEO	1	100	.	17	12	130
MUENCHEN	3	185	18	76	146	428

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

REGION=Pacific

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
MUENSTER	.	4	.	.	2	6
NAPOLI	.	1	.	.	.	1
NEWBRUNSWICK	.	11	.	.	.	11
NEWINGTON	.	1	.	.	.	1
NEWPORT	1	103	8	15	19	146
NIMA	.	1	.	.	.	1
NORWICH	.	1	.	.	.	1
OHIO	.	13	.	2	2	17
ORANIENBURG	.	75	.	8	20	103
OSLO	.	1	2	1	1	5
PAKISTAN	.	3	.	.	1	4
PANAMA	.	26	1	1	3	31
PARATYPHI A	.	14	.	1	.	15
PARATYPHI B	1	43	1	4	11	60
POMONA	.	11	.	.	2	13
POONA	.	24	.	3	8	35
POTSDAM	.	4	.	.	.	4
RAMATGAN	.	1	.	.	.	1
READING	.	10	1	3	3	17
RIDGE	.	1	.	.	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
RISSEN	.	1	.	.	.	1
ROMANBY	.	2	.	1	.	3
ROODEPOORT	.	1	.	.	.	1
RUBISLAW	.	.	.	.	1	1
RUIRU	.	1	.	.	.	1
SAINTPAUL	.	88	3	11	16	118
SALINATIS	.	1	.	.	.	1
SANDIEGO	.	6	.	1	5	12
SANJUAN	.	1	.	.	.	1
SAPHRA	.	1	.	.	.	1
SCHWARZENGRUND	.	15	1	4	2	22
SENDAI	.	1	.	.	.	1
SENFTENBERG	.	17	1	.	3	21
SHUBRA	.	1	.	.	1	2
SINGAPORE	.	2	.	.	.	2
SOERENGA	.	1	.	.	.	1
SOUTHAMPTON	.	.	1	.	.	1
STANLEY	.	21	1	4	7	33
SUBSPECIES I	1	.	.	2	1	4
SUBSPECIES IIIB	.	.	.	1	.	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
SUNDSVALL	.	1	.	.	2	3
TAKORADI	.	4	.	.	.	4
TAMPICO	.	2	.	.	.	2
TELELKEBIR	.	4	.	.	.	4
TENNESSEE	.	4	.	1	.	5
THIES	.	.	.	.	1	1
THOMPSON	.	130	1	5	12	148
TYPHI	.	86	.	5	10	101
TYPHIMURIUM	6	367	73	119	256	821
TYPHIMURIUM VAR COPE	.	172	.	.	.	172
UGANDA	.	13	.	.	6	19
UNKNOWN	.	48	1	.	6	55
URBANA	.	2	.	1	3	6
UZARAMO	.	1	.	.	.	1
VIRCHOW	.	15	.	1	3	19
VIRGINIA	.	1	.	.	.	1
WANDSWORTH	.	.	.	.	1	1
WASSENAAR	.	1	.	.	.	1
WELTEVREDEN	.	6	27	.	.	33

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1999

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
Serotype						
WESTHAMPTON	.	.	1	.	.	1
WIDEMARSH	.	1	.	.	.	1
WORTHINGTON	.	3	.	.	2	5
ZANZIBAR	.	1	.	.	.	1
TOTAL	35	3111	289	477	848	4760

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
AARHUS	2	2	.	.	1	1	.	.	.	6
ABAETETUBA	1	.	1	.	3	.	.	.	2	7
ABERDEEN	1	.	.	.	.	1	.	.	2	4
ABONY	1	.	.	.	.	.	.	3	.	4
ADELAIDE	2	27	22	4	17	3	8	1	11	95
AEQUATORIA	1	.	.	.	.	.	.	.	.	1
AFLAO	.	.	.	.	1	.	.	.	.	1
AFRICANA	.	.	.	.	6	.	.	.	.	6
AGAMA	.	.	.	.	.	.	.	.	2	2
AGBENI	.	.	1	.	.	.	.	.	.	1
AGONA	50	99	97	36	49	12	50	12	123	528
AGOUEVE	.	2	.	.	.	.	.	.	.	2
ALABAMA	.	.	.	.	1	3	.	.	.	4
ALACHUA	3	4	2	1	2	1	5	.	4	22
ALBANY	.	1	4	1	1	2	.	3	5	17
ALTONA	.	.	.	.	.	.	.	.	1	1
AMAGER	.	1	.	1	.	.	.	.	2	4
AMSTERDAM	1	4	1	.	.	.	.	.	.	6
ANATUM	10	19	26	8	30	4	16	17	27	157
ANECHO	.	.	.	1	.	.	.	1	.	2

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
APAPA	1	.	.	1	.	.	.	.	.	2
APEYEME	.	.	.	.	1	.	.	.	.	1
ARECHAVALETA	2	.	.	.	.	.	1	.	.	3
ARKANSAS	.	.	.	.	.	.	4	.	.	4
ASSEN	.	.	.	.	.	.	1	.	.	1
AZTECA	.	.	.	1	.	.	.	.	.	1
BAILDON	.	1	3	.	20	6	.	13	34	77
BARDO	.	1	1	2	2	.	4	1	2	13
BAREILLY	6	19	12	22	43	36	23	1	9	171
BARRANQUILLA	.	.	.	.	.	1	.	.	.	1
BELEM	.	.	.	.	.	1	.	.	.	1
BENFICA	.	.	1	.	.	.	.	.	.	1
BERGEN	.	.	.	.	.	.	.	1	.	1
BERN	.	2	.	.	.	.	.	.	.	2
BERTA	8	34	19	5	35	4	16	1	21	143
BINZA	.	.	.	.	.	.	.	.	1	1
BLEGDAM	.	.	.	1	.	.	.	.	.	1
BLOCKLEY	1	9	17	4	6	.	4	7	6	54
BOCHUM	.	.	.	.	1	.	.	.	.	1
BONAIRE	.	.	.	.	.	.	.	.	1	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
BONARIENSIS	1	.	1	.	1	.	.	.	1	4
BOVISMORBIFICANS	.	4	12	3	10	1	.	2	3	35
BRAENDERUP	23	77	65	47	106	34	63	26	88	529
BRANDENBURG	8	23	17	13	36	9	7	4	.	117
BRAZIL	.	.	.	.	.	2	.	.	.	2
BRAZOS	.	.	.	.	.	.	.	1	.	1
BREDENEY	1	12	4	2	7	2	7	2	7	44
BROUGHTON	.	.	.	.	.	.	.	.	1	1
BUTANTAN	.	.	.	.	.	.	.	.	1	1
BUZU	1	.	.	.	.	.	.	.	.	1
CALABAR	.	.	1	.	.	.	.	.	.	1
CALIFORNIA	.	.	.	.	.	.	.	1	.	1
CAMBRIDGE	.	.	.	.	.	.	.	1	.	1
CARACAS	.	.	.	.	1	.	.	.	.	1
CARMEL	.	.	.	.	1	.	.	.	.	1
CARNO	.	1	.	.	.	.	.	.	.	1
CARRAU	1	1	1	4	2	.	.	1	2	12
CERRO	1	2	11	6	7	.	11	8	10	56
CHAILEY	.	.	1	.	.	.	.	.	2	3
CHAMELEON	1	1	1	.	.	1	.	1	.	5

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
CHESTER	.	4	9	.	6	.	3	.	7	29
CHINCOL	2	.	.	.	.	.	.	.	.	2
CHOLERAESUIS	5	2	11	3	2	.	.	.	2	25
CHOLERAESUIS VAR KUN	.	.	.	2	5	.	1	1	.	9
CLACKAMAS	.	.	.	.	.	.	.	.	3	3
CLAIBORNEI	.	.	.	.	.	.	1	.	.	1
COELN	.	.	.	.	2	.	.	.	.	2
COLINDALE	.	.	.	1	1	.	.	.	.	2
COLORADO	.	.	.	.	2	.	.	.	.	2
CONCORD	.	1	.	1	.	.	.	.	1	3
CORVALLIS	.	.	.	.	.	.	.	.	1	1
COTHAM	.	.	.	.	2	.	.	.	.	2
CUBANA	4	7	1	3	9	.	7	2	9	42
CURACAO	1	.	.	.	.	.	.	.	.	1
DAHRA	.	.	.	.	.	.	.	2	.	2
DAYTONA	.	.	.	.	3	.	.	1	.	4
DEGANIA	.	.	.	.	1	.	.	.	.	1
DENVER	.	.	.	.	.	.	.	1	.	1
DERBY	5	16	31	7	38	2	7	24	44	174
DJELFA	.	1	.	.	.	.	.	.	.	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
DJUGU	.	.	.	.	.	1	.	.	.	1
DRYPOOL	.	.	.	.	.	.	.	5	.	5
DUBLIN	2	8	5	.	5	.	.	15	31	66
DUESSELDORF	2	2	.	.	1	.	.	.	.	5
DURBAN	.	3	.	.	.	.	.	.	.	3
DURHAM	.	.	.	.	.	.	1	.	.	1
EALING	.	1	2	.	2	.	.	.	1	6
EASTBOURNE	.	1	2	.	2	.	1	.	1	7
EBRIE	.	1	.	.	.	.	.	.	.	1
EDINBURG	1	4	.	.	.	.	.	.	1	6
EIMSBUETTEL	.	.	1	.	.	.	.	.	.	1
ELOMRANE	.	.	1	.	.	.	.	.	1	2
EMEK	1	1	2	2	.	.	.	1	1	8
ENTEBBE	.	.	1	.	.	.	.	.	.	1
ENTERITIDIS	454	1484	860	231	794	87	110	567	756	5343
EPPENDORF	.	.	.	.	1	1	.	.	.	2
ERLANGEN	.	.	1	.	.	.	.	.	.	1
ESSEN	.	2	.	.	1	.	.	.	.	3
FARMSEN	1	1	1	.	.	.	.	.	.	3
FAYED	.	.	.	.	6	.	.	.	.	6

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
FISCHERKIETZ	.	.	.	.	1	.	.	.	.	1
FLINT	.	1	3	.	59	.	.	1	.	64
FLORIDA	.	.	.	1	.	.	.	.	.	1
GABON	.	.	.	1	.	.	.	.	.	1
GAMINARA	1	3	2	3	8	7	23	4	1	52
GATUNI	.	.	.	.	1	.	.	.	.	1
GIVE	3	5	14	9	12	8	26	3	17	97
GLOSTRUP	1	.	4	.	.	.	1	.	1	7
GOETTINGEN	.	.	.	.	.	.	.	1	.	1
GOLDCOAST	.	.	1	.	.	.	.	.	.	1
GROUP 51	1	.	.	.	.	.	.	.	.	1
GROUP 53	.	.	.	.	.	.	.	.	2	2
GROUP 58	.	.	.	.	1	.	.	.	.	1
GROUP 60	.	.	.	.	.	1	.	.	1	2
GROUP 61	1	.	2	1	.	1	.	.	.	5
GROUP 62	.	.	.	.	.	.	1	.	.	1
GROUP 63	.	.	1	.	.	.	.	.	.	1
GROUP A	1	.	.	1	.	.	1	.	.	3
GROUP B	21	60	44	128	64	31	39	27	24	438
GROUP C1	4	20	8	57	10	12	15	7	5	138

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
GROUP C2	2	2	.	25	4	2	5	8	.	48
GROUP D1	.	5	4	22	8	6	10	22	3	80
GROUP D2	.	.	.	.	.	.	1	.	.	1
GROUP E1	1	.	1	7	2	2	3	1	.	17
GROUP E2	.	.	.	.	.	.	1	.	.	1
GROUP E4	1	.	.	1	.	.	.	.	.	2
GROUP G	2	.	2	1	3	2	5	.	.	15
GROUP H	.	.	1	.	.	1	.	.	.	2
GROUP I	1	.	.	3	.	1	.	.	41	46
GROUP J	.	.	1	.	.	.	.	.	.	1
GROUP K	.	.	.	.	.	.	2	.	2	4
GROUP O	.	1	.	.	3	.	.	.	.	4
GROUP Q	.	1	.	.	1	.	.	.	.	2
GROUP R	.	.	.	.	.	.	.	.	1	1
GROUP S	.	.	.	.	1	.	.	.	.	1
GROUP V	.	3	1	.	1	2	.	.	.	7
GROUP W	1	2	.	.	.	.	.	.	.	3
GROUP X	1	1	2	.	.	.	.	.	.	4
GROUP Y	3	.	6	.	5	1	.	.	.	15
GROUP Z	1	1	2	2	1	.	.	.	7	14

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
GRUMPENSIS	.	.	1	.	.	.	.	.	1	2
GUILDFORD	.	.	.	.	1	.	.	.	.	1
HAARDT	.	.	3	.	.	.	.	.	.	3
HADAR	41	134	43	22	104	14	45	39	74	516
HADEJIA	.	.	.	.	1	.	.	.	.	1
HAGENBECK	.	.	1	.	.	.	.	.	.	1
HAIFA	.	.	1	.	3	.	.	.	2	6
HALLE	.	.	.	.	1	.	.	.	.	1
HALMSTAD	.	.	.	.	.	.	2	.	.	2
HAMBURG	.	.	.	1	.	.	.	.	.	1
HARTFORD	11	15	48	16	33	7	4	2	4	140
HATFIELD	.	.	.	.	1	.	.	.	.	1
HATO	.	.	.	.	.	.	1	.	.	1
HAVANA	1	6	2	2	8	1	10	6	10	46
HEIDELBERG	127	387	310	173	286	86	92	82	273	1816
HEVES	.	.	.	.	1	.	.	.	.	1
HIDUDDIFY	.	.	.	.	1	.	.	.	.	1
HOLCOMB	.	1	.	.	.	.	.	.	.	1
HORSHAM	.	.	.	.	.	.	.	2	1	3
HOUTEN	.	.	6	1	.	2	.	.	1	10

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
HVITTINGFOSS	3	2	7	3	6	4	12	.	1	38
I 4,5,12:I:-	.	1	36	2	5	.	.	.	.	44
IBADAN	1	2	2	.	3	.	18	1	.	27
IIIA 48:G,Z51:-	.	.	.	.	3	.	.	.	.	3
IIIA 53:Z4,Z23,Z32:-	.	.	.	.	2	.	.	2	.	4
IIIB 48:I:Z	.	.	1	.	.	.	.	.	.	1
IIIB 61:1,V:1,5,7	.	.	1	.	.	.	.	.	1	2
IIIB 61:K:1,5,7	2	.	1	.	.	.	.	.	.	3
IIIB 65:K:Z	.	.	.	.	.	.	.	.	1	1
INCHPARK	.	.	.	.	1	.	.	.	.	1
INDIANA	.	1	1	1	4	.	.	2	5	14
INFANTIS	36	67	133	44	80	29	74	42	91	596
INVERNESS	.	3	1	1	14	2	1	1	1	24
IPSWICH	.	.	1	.	.	.	.	.	.	1
IRENEA	.	1	.	.	.	.	.	.	.	1
IRUMU	.	2	1	.	.	.	.	1	2	6
ISANGI	.	.	1	.	.	.	.	.	.	1
ISTANBUL	.	10	.	1	1	.	.	.	13	25
ITAMI	.	.	.	.	.	4	.	.	3	7
ITURI	.	.	.	.	2	1	.	.	.	3

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
IV 44:Z4,Z23:-	1	3	3	3	1	1	.	1	1	14
IV 45:G,Z51:-	.	1	.	.	.	.	.	.	.	1
JAJA	.	.	.	1	.	.	.	.	.	1
JAMAICA	.	.	.	.	2	.	.	.	.	2
JANGWANI	2	1	1	.	1	.	.	.	1	6
JAVA	9	36	108	46	52	23	20	13	7	314
JAVIANA	50	68	65	56	555	93	200	56	54	1197
JOHANNESBURG	1	5	6	2	18	6	3	1	2	44
JOS	.	.	.	.	.	1	.	.	.	1
KEDOUGOU	.	.	.	.	1	1	.	.	.	2
KENTUCKY	5	25	10	7	5	1	2	5	11	71
KIAMBU	5	2	9	4	9	2	6	.	3	40
KILWA	.	.	.	.	3	.	.	.	.	3
KINGABWA	.	.	.	.	.	.	.	.	2	2
KINONDONI	.	.	.	.	1	.	.	.	.	1
KINSHASA	.	.	1	.	.	.	.	1	1	3
KINTAMBO	1	1	2	.	1	.	.	2	1	8
KIRKEE	.	.	.	.	.	.	.	.	1	1
KIVU	.	.	2	.	.	.	.	.	.	2
KOKOMLEMLE	.	1	.	.	.	.	.	.	.	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
KOTTBUS	.	.	1	.	2	.	.	1	1	5
KRALENDYK	.	.	2	.	.	.	.	1	.	3
KRALINGEN	.	.	.	.	1	.	.	.	.	1
KREFELD	.	.	.	.	.	1	.	.	.	1
KUA	.	.	1	.	1	.	.	.	.	2
LANDWASSER	.	.	1	.	1	.	.	.	.	2
LANKA	.	.	1	.	.	.	.	.	.	1
LANSING	.	.	.	.	.	.	.	.	1	1
LAROCHELLE	.	.	.	.	2	.	2	.	.	4
LICHTENBERG	.	1	.	.	.	.	.	.	.	1
LILLE	1	.	.	.	.	.	.	.	.	1
LINDENBURG	.	1	.	.	1	1	1	1	.	5
LITCHFIELD	13	27	20	9	19	5	21	5	16	135
LIVERPOOL	.	.	2	.	.	.	.	.	.	2
LIVINGSTONE	.	1	.	.	.	1	.	2	.	4
LOCKLEAZE	.	1	.	.	.	.	.	.	.	1
LOHBRUEGGE	.	1	.	.	.	.	1	.	.	2
LOMALINDA	2	.	.	.	2	.	.	1	3	8
LONDON	5	9	6	9	2	4	.	3	3	41
LUANSHYA	.	.	.	.	.	.	1	.	.	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
LUCIANA	.	1	.	.	.	1	1	.	3	6
MADELIA	1	.	2	2	4	.	2	.	1	12
MANCHESTER	.	.	.	.	.	.	.	1	.	1
MANGO	.	.	.	.	.	.	.	.	1	1
MANHATTAN	5	7	14	10	10	3	7	.	22	78
MANILA	.	.	.	.	.	.	.	.	1	1
MARINA	13	8	8	2	6	3	1	.	3	44
MATADI	.	.	.	.	1	.	1	.	.	2
MBANDAKA	6	13	24	10	21	6	10	26	115	231
MELEAGRIDIS	3	1	.	2	.	.	1	.	7	14
MEMPHIS	.	1	.	.	.	.	.	.	.	1
MENDEN	.	1	.	.	.	.	.	.	.	1
MENDOZA	.	.	.	.	1	.	.	.	.	1
MGULANI	.	2	.	.	.	.	.	.	.	2
MIAMI	19	8	5	2	54	1	1	1	4	95
MICHIGAN	.	.	.	.	.	.	.	.	2	2
MIKAWASIMA	.	.	.	.	.	.	1	.	3	4
MINNESOTA	.	.	1	1	5	.	5	6	5	23
MISSION	.	.	.	.	1	.	.	.	.	1
MISSISSIPPI	7	11	5	4	104	51	60	1	5	248

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
MONSCHAUI	.	.	3	.	2	.	.	.	.	5
MONTEVIDEO	56	129	140	72	131	32	86	75	130	851
MOUNDOU	.	1	.	.	.	.	.	.	.	1
MUENCHEN	49	72	195	77	227	47	99	138	428	1332
MUENSTER	10	14	8	9	9	2	4	3	6	65
NAPOLI	.	.	.	1	.	.	.	.	1	2
NEWBRUNSWICK	.	.	3	.	.	1	2	6	11	23
NEWINGTON	.	.	3	.	4	.	1	14	1	23
NEWPORT	101	203	213	156	953	158	492	196	146	2618
NEWROCHELLE	.	.	.	.	.	1	.	.	.	1
NEWYORK	.	.	1	.	.	.	.	.	.	1
NGOR	.	.	.	.	.	.	2	.	.	2
NIMA	.	.	.	.	.	.	.	.	1	1
NITRA	.	.	.	1	.	.	.	.	.	1
NORDENHAM	.	.	.	.	.	1	.	.	.	1
NORWICH	.	5	5	19	13	14	15	2	1	74
OAKLAND	.	.	1	.	.	.	.	.	.	1
OHIO	9	10	9	6	12	5	1	8	17	77
OLDENBURG	.	.	1	.	.	.	.	.	.	1
ONDERSTEPOORT	.	.	.	.	1	.	.	.	.	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
ONTARIO	.	1	.	.	.	.	.	.	.	1
ORANIENBURG	49	44	95	29	61	18	89	128	103	616
ORIENTALIS	2	.	.	.	.	.	.	.	.	2
OSLO	3	5	7	4	2	.	.	2	5	28
OTHMARSCHEN	.	12	.	.	2	1	1	4	.	20
OVERSCHIE	1	1	.	.	.	.	.	.	.	2
PAKISTAN	.	.	1	.	1	.	.	.	4	6
PANAMA	1	23	17	10	12	4	13	21	31	132
PARATYPHI A	6	15	4	5	10	1	18	3	15	77
PARATYPHI B	6	20	36	5	7	3	20	15	60	172
PARATYPHI C	.	.	.	.	1	.	.	.	.	1
PARERA	1	.	1	.	.	.	.	.	.	2
PENSACOLA	.	.	.	.	7	1	.	.	.	8
PHARR	.	1	.	.	.	.	.	.	.	1
PHOENIX	.	.	.	.	.	.	6	.	.	6
POMONA	3	11	.	.	1	.	.	.	13	28
POONA	14	35	45	10	27	5	28	50	35	249
PORTSMOUTH	.	1	.	.	.	.	.	.	.	1
POTSDAM	1	1	1	.	2	.	.	.	4	9
PRAHA	.	.	.	.	1	.	.	.	.	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
PULLORUM	.	.	.	.	.	1	.	.	.	1
PUTTEN	.	.	.	1	2	.	.	.	.	3
RAMATGAN	.	.	.	.	.	.	.	.	1	1
RAUS	.	.	3	.	.	.	.	.	.	3
READING	14	25	8	8	15	2	3	5	17	97
REMO	.	1	.	.	.	.	1	.	.	2
RICHMOND	1	1	.	.	.	.	.	.	.	2
RIDGE	.	.	.	.	.	.	.	.	1	1
RIOGRANDE	.	.	.	.	.	.	1	.	.	1
RISSEN	.	2	.	1	1	1	.	.	1	6
ROMANBY	.	.	2	.	.	.	1	.	3	6
ROODEPOORT	.	.	.	1	.	.	.	.	1	2
ROTTNEST	.	.	.	.	1	.	.	.	.	1
RUBISLAW	1	1	4	2	51	7	30	.	1	97
RUIRU	.	.	.	.	.	.	.	.	1	1
RUZIZI	.	.	.	.	.	.	1	.	.	1
SAINTPAUL	24	84	62	28	84	14	27	31	118	472
SALINATIS	.	.	.	.	.	.	.	.	1	1
SANDIEGO	4	33	13	6	10	6	9	11	12	104
SANJUAN	.	.	1	.	.	.	.	.	1	2

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
SANTIAGO	.	.	.	.	1	.	.	.	.	1
SAPHRA	.	.	.	.	2	1	7	2	1	13
SCHLEISSHEIM	.	.	.	.	.	6	.	.	.	6
SCHWARZENGRUND	12	20	15	7	66	5	4	4	22	155
SENDAI	.	.	.	.	.	.	.	.	1	1
SENFTENBERG	5	16	18	11	19	4	13	13	21	120
SHUBRA	.	1	1	.	.	1	2	.	2	7
SINGAPORE	.	.	.	2	.	.	.	.	2	4
SINSTORF	.	.	.	2	1	.	.	.	.	3
SOERENGA	.	.	.	.	1	.	.	.	1	2
SOMONE	.	.	.	.	1	.	.	.	.	1
SOUTHAMPTON	.	.	.	.	.	.	.	.	1	1
STACHUS	.	1	.	.	1	.	.	.	.	2
STANLEY	11	34	38	14	25	.	3	14	33	172
STANLEYVILLE	.	8	1	1	.	.	.	.	.	10
STOCKHOLM	.	.	.	.	4	.	.	.	.	4
SUBSPECIES I	2	16	2	4	46	.	2	5	4	81
SUBSPECIES II	.	.	.	2	.	1	2	1	.	6
SUBSPECIES III	1	1	1	.	.	.	.	.	.	3
SUBSPECIES IIIA	.	1	.	3	6	1	.	5	.	16

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
SUBSPECIES IIIA/IIIB	.	.	.	2	10	.	1	1	.	14
SUBSPECIES IIIB	.	.	.	1	6	1	.	.	1	9
SUBSPECIES IV	5	.	.	1	16	4	.	.	.	26
SUELLDORF	.	1	.	.	.	.	.	.	.	1
SUNDSVALL	.	.	.	.	.	1	.	.	3	4
TAFO	.	.	.	.	.	1	.	.	.	1
TAKORADI	.	.	.	.	.	.	.	.	4	4
TALLAHASSEE	1	1	.	.	1	1	.	1	.	5
TAMBACOUNDA	.	1	.	.	.	.	.	.	.	1
TAMPICO	.	.	.	.	.	.	.	.	2	2
TELELKEBIR	.	1	3	3	2	1	1	.	4	15
TENNESSEE	.	4	5	4	4	2	1	4	5	29
THIES	.	.	.	.	.	.	.	.	1	1
THOMASVILLE	1	.	.	1	2	.	.	.	.	4
THOMPSON	50	75	93	53	60	33	55	35	148	602
TILENE	.	.	.	.	.	1	.	.	.	1
TRAVIS	.	.	.	.	.	.	.	1	.	1
TUCSON	.	1	.	.	.	.	.	.	.	1
TYPHI	29	90	41	8	48	1	26	8	101	352
TYPHIMURIUM	566	1196	1186	653	1296	371	495	541	821	7125

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
TYPHIMURIUM VAR COPE	153	116	41	34	230	36	.	144	172	926
UCCLE	.	.	.	1	.	.	.	.	.	1
UGANDA	1	11	7	2	12	2	4	.	19	58
UNKNOWN	25	33	71	25	36	24	126	4	55	399
URBANA	4	7	12	2	11	2	12	.	6	56
UZARAMO	.	.	.	.	.	.	.	.	1	1
VEJLE	.	.	.	.	.	.	.	1	.	1
VIRCHOW	4	10	10	7	10	5	5	.	19	70
VIRGINIA	1	3	.	.	.	4	.	1	1	10
WA	.	.	.	.	.	.	1	.	.	1
WANDSWORTH	.	4	1	.	3	.	.	.	1	9
WASHINGTON	.	1	.	.	.	.	.	.	.	1
WASSENAAR	.	2	6	.	1	.	1	.	1	11
WAYCROSS	.	1	.	.	.	.	.	1	.	2
WELIKADE	.	.	.	.	1	.	.	.	.	1
WELTEVREDEN	1	5	4	1	6	.	1	3	33	54
WESLACO	.	1	.	.	.	.	.	.	.	1
WESTERSTEDE	.	1	.	.	.	.	.	.	.	1
WESTHAMPTON	.	.	.	.	.	.	1	.	1	2
WIDEMARSH	.	.	.	.	.	.	.	.	1	1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1999

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Serotype										
WIEN	.	.	.	.	.	.	.	1	.	1
WIL	.	1	.	.	.	.	.	.	.	1
WINNEBA	.	1	.	.	.	.	.	.	.	1
WORTHINGTON	.	5	3	2	5	.	4	4	5	28
YOVOKOME	.	.	.	1	.	.	.	.	.	1
ZANZIBAR	.	.	.	.	.	.	.	.	1	1
TOTAL	2250	5280	4690	2410	6489	1481	2807	2615	4760	32782

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
ABAETETUBA	.	.	.	.	.	.	.	.	1	.	1
ABONY	.	.	.	.	.	.	.	.	1	.	1
ADELAIDE	.	.	1	.	.	.	.	.	1	.	2
AGONA	3	34	47	60	75	6	.	6	2	.	233
ALABAMA	1	.	.	.	.	.	.	.	.	.	1
ALACHUA	1	3	.	1	.	.	.	.	2	.	7
ALBANY	.	.	.	2	.	.	.	.	.	.	2
AMSTERDAM	1	.	.	.	.	1	.	.	4	.	6
ANATUM	3	8	31	59	52	20	.	3	.	2	178
ARECHAVALETA	.	.	.	1	.	.	.	.	.	.	1
BABELSBERG	.	.	.	.	.	.	.	.	1	.	1
BANANA	.	.	11	.	.	.	.	.	.	.	11
BARDO	.	.	.	2	.	.	.	.	.	1	3
BAREILLY	.	.	.	2	1	.	.	.	2	.	5
BERE	.	.	1	1	.	.	.	.	1	.	3
BERTA	2	.	.	.	1	.	.	.	1	.	4
BINZA	.	3	.	.	.	.	.	1	.	.	4
BLOCKLEY	.	.	.	.	.	.	.	1	.	.	1
BOVISMORBIFICANS	.	.	1	9	1	.	.	.	.	.	11
BRAENDERUP	3	.	12	3	6	3	.	3	2	.	32
BRANDENBURG	1	.	5	1	1	1	.	.	.	.	9

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
BREDENEY	3	36	19	10	1	1	.	2	.	.	72
CERRO	.	1	6	53	.	3	1	.	.	.	64
CHAILEY	.	.	2	.	.	.	.	.	.	.	2
CHAMELEON	.	.	.	.	.	.	.	.	1	.	1
CHARITY	.	.	.	.	.	.	.	.	1	.	1
CHESTER	.	.	.	.	.	.	.	2	.	.	2
CHOLERAESUIS	.	.	20	.	.	.	.	.	.	1	21
CHOLERAESUIS VAR KUN	.	.	184	1	.	1	.	.	.	.	186
CUBANA	2	.	2	2	1	.	.	.	.	.	7
DAYTONA	.	.	.	.	.	1	.	.	.	.	1
DERBY	.	3	157	11	.	1	.	1	1	.	174
DRYPOOL	.	.	1	3	.	.	.	2	.	.	6
DUBLIN	.	.	1	125	.	3	.	.	.	.	129
EALING	.	.	.	1	.	.	.	.	.	.	1
EASTBOURNE	.	.	.	.	.	.	.	.	7	.	7
ENTERITIDIS	2	.	4	11	3	5	.	6	.	.	31
FLINT	.	.	.	.	.	.	.	1	2	.	3
FLORIDA	.	.	.	.	1	.	.	.	.	.	1
FLUNTERN	.	.	.	.	.	.	.	.	1	.	1
FRESNO	.	.	.	.	.	.	.	.	1	.	1
GAMINARA	.	.	.	.	.	.	.	.	1	.	1

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
GERA	.	.	1	.	.	2	.	.	.	.	3
GIVE	2	.	3	15	3	2	.	5	2	.	32
GROUP 51	.	.	.	.	.	.	.	1	.	.	1
GROUP 52	.	.	.	.	.	.	.	.	3	.	3
GROUP 53	.	.	.	.	.	.	.	.	3	.	3
GROUP 56	.	.	.	.	.	.	.	.	1	.	1
GROUP 58	.	.	.	.	1	.	.	1	7	.	9
GROUP 59	.	.	.	.	.	.	.	.	1	.	1
GROUP 60	.	.	.	.	.	.	.	.	2	.	2
GROUP 61	.	.	.	.	.	10	.	.	7	.	17
GROUP 65	.	.	.	.	.	.	.	.	6	.	6
GROUP B	3	4	10	26	12	1	.	12	.	.	68
GROUP D1	.	.	1	29	.	.	.	.	1	.	31
GROUP G	.	.	.	.	.	.	.	.	1	.	1
GROUP H	.	.	.	.	.	.	.	1	4	.	5
GROUP I	.	.	.	.	.	.	.	.	2	.	2
GROUP K	.	30	.	1	.	.	.	1	7	.	39
GROUP L	.	.	.	.	.	.	.	.	2	.	2
GROUP O	.	.	.	.	.	.	.	.	2	.	2
GROUP P	.	.	.	.	.	.	.	1	5	.	6
GROUP R	.	.	.	.	.	1	.	1	2	.	4

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
GROUP S	.	.	.	.	.	.	.	1	7	.	8
GROUP V	.	.	1	1	.	1	.	1	9	.	13
GROUP W	.	.	.	.	.	.	.	.	1	.	1
GROUP X	.	.	.	.	.	1	.	.	5	.	6
GROUP Y	.	.	.	.	1	.	.	.	12	.	13
GROUP Z	.	.	.	.	2	.	.	1	18	.	21
HAARDT	.	.	.	.	.	1	.	.	.	.	1
HADAR	10	26	.	3	.	5	.	2	.	.	46
HARMELEN	.	.	.	.	.	.	.	.	1	.	1
HARTFORD	.	1	1	1	7	.	.	1	.	.	11
HAVANA	.	.	.	8	.	.	1	3	.	.	12
HEIDELBERG	53	121	91	39	4	7	.	13	1	1	330
HIDALGO	.	.	.	.	1	.	.	.	.	.	1
HINDMARSH	.	.	.	1	.	.	.	.	.	.	1
HOUTEN	.	.	.	.	.	.	.	.	2	.	2
HUENINGEN	.	.	.	.	.	.	.	.	1	.	1
HVITTINGFOSS	.	.	.	.	.	.	.	1	2	.	3
ILLINOIS	.	.	.	.	.	.	.	.	.	1	1
INDIANA	.	.	.	.	.	.	.	2	.	.	2
INFANTIS	1	.	29	16	10	4	.	6	1	.	67
ISTANBUL	1	1	.	.	.	.	.	1	.	1	4

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
JANGWANI	.	.	.	.	.	.	.	.	2	.	2
JAVA	.	1	.	2	4	1	.	1	.	.	9
JAVIANA	.	3	.	1	9	.	.	1	.	.	14
JOHANNESBURG	2	.	7	1	1	2	.	6	2	.	21
KENTUCKY	12	2	.	59	6	1	.	5	1	.	86
KIAMBU	.	.	.	3	1	1	.	.	.	.	5
KINSHASA	.	.	.	.	.	4	.	.	.	.	4
KISARAWE	.	.	.	.	.	.	.	.	1	.	1
KREFELD	.	.	7	.	.	.	.	1	.	.	8
LEXINGTON	.	.	.	.	2	.	.	.	.	.	2
LILLE	3	1	.	1	.	.	.	.	.	.	5
LINDERN	.	.	.	.	.	.	.	.	1	.	1
LITCHFIELD	1	.	3	5	2	2	.	1	.	.	14
LIVINGSTONE	.	.	1	2	.	.	.	.	.	.	3
LOHBRUEGGE	.	.	.	.	.	.	.	.	8	.	8
LOMALINDA	.	.	.	.	.	1	.	1	.	.	2
LOME	.	.	.	.	.	.	.	.	1	.	1
LONDON	.	.	2	1	.	1	.	.	.	.	4
MANHATTAN	.	.	1	2	.	.	.	.	2	.	5
MANILA	.	.	.	5	.	.	.	.	.	.	5
MARINA	.	.	.	.	.	.	.	.	3	1	4

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
MBANDAKA	5	4	8	48	5	3	.	3	.	.	76
MELEAGRIDIS	.	.	3	43	4	3	.	.	.	.	53
MIAMI	.	.	.	.	.	.	.	2	.	.	2
MINNEAPOLIS	.	.	.	1	.	.	.	.	.	.	1
MINNESOTA	.	.	1	1	.	.	.	5	.	.	7
MISSISSIPPI	.	.	.	.	2	.	.	.	1	.	3
MOLADE	.	.	.	1	.	.	.	.	.	.	1
MONSCHAUI	.	.	.	.	.	.	.	.	1	.	1
MONTEVIDEO	5	17	9	84	15	8	.	6	.	.	144
MOWANJUM	.	.	.	.	.	.	.	.	1	.	1
MUENCHEN	1	5	31	6	8	3	.	4	3	.	61
MUENSTER	.	58	6	68	12	4	.	3	3	.	154
NEWBRUNSWICK	.	.	.	12	.	1	.	3	1	.	17
NEWHAW	.	.	.	8	1	.	.	.	.	.	9
NEWINGTON	.	1	.	3	3	.	.	.	2	.	9
NEWPORT	.	.	13	94	36	14	.	18	7	1	183
NORWICH	.	.	1	.	1	.	.	.	.	.	2
OHIO	.	2	11	2	.	2	.	.	.	.	17
ORANIENBURG	1	.	10	14	17	4	.	1	2	.	49
ORION	.	.	.	.	.	1	.	.	.	.	1
OSLO	.	.	.	.	.	.	.	.	2	.	2

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
OVERSCHIE	.	.	.	.	.	.	.	.	1	.	1
PANAMA	.	2	.	1	1	1	.	.	1	.	6
PHOENIX	.	.	.	.	.	2	.	.	.	.	2
POMONA	.	.	1	2	.	.	.	.	1	.	4
POONA	.	.	.	1	3	.	.	.	4	.	8
PUTTEN	.	.	5	.	.	.	.	.	.	.	5
RAMATGAN	.	.	.	.	.	.	.	2	.	.	2
READING	.	3	2	6	.	2	.	1	.	.	14
RISSEN	.	.	.	.	.	1	.	.	.	.	1
RUBISLAW	.	.	.	2	8	1	.	8	1	.	20
SACHSENWALD	.	.	.	.	.	.	.	.	1	.	1
SAINTPAUL	.	15	5	1	1	1	.	7	1	1	32
SANDIEGO	.	.	.	.	1	.	.	2	.	.	3
SCHWARZENGRUND	4	3	3	16	10	1	.	2	.	.	39
SENFTENBERG	14	105	8	12	4	4	1	11	.	.	159
STANLEY	.	.	.	.	.	.	.	1	1	.	2
SUNDSVALL	.	.	.	.	.	.	.	.	1	.	1
TAKSONY	.	.	1	.	.	.	.	1	.	.	2
TENNESSEE	.	17	3	3	3	1	.	1	.	.	28
THOMASVILLE	3	.	.	.	.	.	.	.	.	.	3
THOMPSON	3	.	1	16	23	7	.	3	2	.	55

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
TUINDORP	.	.	.	.	.	.	.	.	1	.	1
TYPHIMURIUM	14	44	146	454	142	50	1	80	2	4	937
TYPHIMURIUM VAR COPE	13	60	246	491	50	28	.	37	.	3	928
UGANDA	.	1	9	13	.	.	.	1	.	1	25
URBANA	.	.	.	.	1	.	.	.	1	.	2
VIRGINIA	.	.	.	.	.	.	.	.	1	.	1
WANDSBEK	.	.	.	.	.	.	.	.	1	.	1
WANDSWORTH	.	.	.	.	.	.	.	.	1	.	1
WASSENAAR	.	.	.	.	.	.	.	1	1	.	2
WIDEMARSH	.	.	.	.	.	.	.	.	2	.	2
WORTHINGTON	.	8	21	6	2	.	.	4	.	.	41
TOTAL	173	623	1207	1989	562	236	4	306	219	18	5337

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
ABAETETUBA	.	.	.	.	.	.	.	.	.	1	1
ADELAIDE	.	1	2	.	.	3	.	.	.	.	6
AGONA	45	56	19	1	3	64	.	7	.	7	202
ALABAMA	1	.	.	.	.	.	.	.	.	.	1
ALACHUA	11	1	1	.	.	5	.	.	.	.	18
ALBANY	.	4	.	.	.	4	.	.	.	1	9
AMSTERDAM	3	1	.	.	.	.	.	.	1	.	5
ANATUM	12	27	51	8	4	118	.	3	.	40	263
ARKANSAS	1	.	.	.	.	.	2	.	.	.	3
BABELSBERG	1	.	.	.	.	.	1	.	.	.	2
BANANA	.	1	.	.	.	.	.	.	.	.	1
BARDO	.	.	.	.	.	1	.	.	.	.	1
BAREILLY	4	2	.	.	.	2	.	.	3	.	11
BERE	1	.	2	.	.	.	.	.	.	.	3
BERTA	82	8	.	.	.	6	.	1	.	1	98
BIETRI	.	.	93	.	.	.	1	.	.	.	94
BINZA	3	1	.	.	.	1	.	.	.	69	74
BLOCKLEY	.	.	.	.	.	2	.	.	.	.	2
BOVISMORBIFICANS	.	.	.	1	.	6	.	1	.	.	8
BRAENDERUP	45	.	7	1	.	13	.	1	.	2	69
BRANDENBURG	9	118	9	3	.	21	.	.	.	3	163

(Continued)

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
BREDENEY	7	49	1	.	.	10	.	.	.	16	83
CARRAU	.	.	.	.	.	.	.	1	.	.	1
CERRO	21	.	5	16	.	50	4	.	.	1	97
CHAILEY	.	.	.	.	.	1	.	.	.	.	1
CHESTER	.	5	.	.	.	3	.	.	.	.	8
CHOLERAESUIS	.	.	17	.	.	.	.	.	.	.	17
CHOLERAESUIS VAR KUN	.	.	165	.	.	7	.	.	.	.	172
CUBANA	1	7	1	2	.	4	1	.	.	.	16
DERBY	9	2	270	1	.	126	2	11	.	50	471
DRYPOOL	.	.	.	.	.	11	2	.	.	.	13
DUBLIN	.	.	.	8	.	19	.	.	.	1	28
EASTBOURNE	.	.	.	.	.	.	.	1	1	.	2
ENTERITIDIS	303	6	13	2	.	46	.	67	.	131	568
FINKENWERDER	.	.	.	.	.	1	.	.	.	.	1
FLUNTERN	.	.	.	.	.	.	.	.	8	.	8
FRESNO	.	.	4	.	.	2	.	.	.	.	6
GAMINARA	2	.	.	.	.	.	.	.	.	.	2
GIVE	10	8	5	.	.	18	.	.	.	8	49
GODESBERG	.	.	.	.	.	1	.	.	.	.	1
GROUP 58	.	.	.	.	.	.	.	.	3	.	3
GROUP 60	.	.	1	.	.	.	.	.	1	.	2

(Continued)

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
GROUP 61	.	.	.	.	.	1	.	.	7	.	8
GROUP 65	.	.	.	.	.	.	.	.	1	.	1
GROUP B	60	6	46	2	.	50	1	35	.	7	207
GROUP D1	.	2	.	4	.	1	.	.	.	.	7
GROUP E3	2	.	.	.	.	.	.	.	.	.	2
GROUP J	.	.	.	.	.	.	.	.	2	.	2
GROUP K	1	3	.	.	.	3	.	.	.	.	7
GROUP L	.	.	.	.	.	.	.	.	1	.	1
GROUP P	.	.	.	.	.	.	.	.	1	.	1
GROUP S	.	.	.	.	.	.	.	.	1	.	1
GROUP W	.	.	.	.	.	.	.	.	2	.	2
GROUP Y	.	.	.	.	.	1	.	.	5	.	6
GROUP Z	.	.	.	.	.	.	.	.	5	.	5
HAARDT	.	.	.	.	.	1	.	.	.	.	1
HADAR	50	162	.	.	.	202	.	29	.	10	453
HARTFORD	.	1	.	.	.	.	.	.	.	.	1
HAVANA	7	2	4	1	.	1	1	3	.	3	22
HEIDELBERG	1136	254	54	13	1	331	.	33	.	38	1860
HOUTEN	.	.	.	.	.	.	.	.	7	.	7
ILLINOIS	.	.	.	.	.	.	1	.	.	.	1
INDIANA	.	1	.	.	.	.	.	.	.	.	1

(Continued)

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
INFANTIS	101	5	53	.	.	70	1	2	.	11	243
INVERNESS	.	.	3	.	.	.	.	.	.	.	3
ISTANBUL	33	5	.	.	.	19	.	.	.	.	57
JAVA	.	.	.	.	.	2	.	1	.	.	3
JAVIANA	4	43	1	.	.	5	.	1	5	.	59
JOHANNESBURG	6	6	1	.	1	27	1	.	.	.	42
JUBILEE	.	1	.	.	.	.	.	.	.	.	1
KENTUCKY	523	27	3	26	.	301	.	38	.	24	942
KIAMBU	1	.	.	.	.	1	.	.	.	.	2
KINSHASA	.	.	.	.	.	2	.	.	.	.	2
KISARAWE	.	.	.	.	.	.	.	.	1	.	1
KRALINGEN	1	.	.	.	.	.	.	.	.	.	1
KREFELD	.	.	.	.	.	2	.	.	.	.	2
LEXINGTON	1	.	.	.	.	.	.	.	.	.	1
LILLE	6	1	3	.	.	1	1	.	.	1	13
LITCHFIELD	2	2	.	.	.	22	.	1	.	1	28
LIVINGSTONE	13	1	6	1	.	3	2	.	.	2	28
LOMALINDA	.	7	.	.	.	.	.	2	.	.	9
LONDON	.	.	15	.	.	21	1	.	.	3	40
MANHATTAN	.	.	.	.	.	3	.	.	.	1	4
MANILA	1	.	.	.	.	3	.	.	.	.	4

(Continued)

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
MARACAIBO	.	.	.	.	.	.	.	.	4	.	4
MBANDAKA	40	14	43	4	.	34	2	3	.	4	144
MELEAGRIDIS	2	.	1	9	.	45	.	4	.	.	61
MENHADEN	.	.	.	.	.	1	.	.	.	1	2
MIAMI	.	.	.	.	.	3	.	.	.	1	4
MINNESOTA	1	.	.	1	.	16	.	.	.	.	18
MISSISSIPPI	.	.	.	.	.	.	.	2	.	.	2
MOLADE	6	1	.	.	.	.	.	.	.	.	7
MONTEVIDEO	187	28	4	90	.	193	3	2	3	23	533
MUENCHEN	1	16	89	2	4	33	.	1	.	4	150
MUENSTER	11	153	5	7	.	107	.	.	.	12	295
NEWBRUNSWICK	4	1	.	.	1	22	.	.	.	.	28
NEWHAW	.	.	.	.	.	2	.	.	.	1	3
NEWINGTON	2	1	.	.	.	2	.	.	.	2	7
NEWPORT	3	24	1	7	1	43	.	5	1	10	95
NORWICH	3	.	.	1	.	.	.	.	.	.	4
OHIO	153	4	2	.	.	25	.	.	.	1	185
ORANIENBURG	3	3	.	.	1	4	.	1	.	2	14
ORION	2	1	5	.	.	4	.	.	.	112	124
OUAKAM	1	.	.	.	.	.	.	.	.	.	1
POMONA	2	.	.	.	.	2	.	.	.	.	4

(Continued)

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
POONA	.	.	.	.	.	3	.	1	.	.	4
PRETORIA	1	.	.	.	.	.	.	.	.	.	1
PULLORUM	1	.	.	.	.	.	.	.	.	.	1
PUTTEN	1	.	1	.	.	.	.	.	.	1	3
READING	1	91	.	1	.	70	.	.	.	5	168
RUBISLAW	.	.	.	1	.	1	.	2	2	.	6
RUIRU	.	.	.	.	.	.	1	.	.	.	1
SAINTPAUL	2	28	1	.	.	41	.	1	.	3	76
SANDIEGO	.	.	.	2	.	1	.	.	1	.	4
SCHWARZENGRUND	48	10	4	8	4	45	1	1	.	.	121
SENFTENBERG	159	205	15	1	3	74	4	.	.	5	466
STANLEYVILLE	2	.	.	.	.	.	.	.	.	.	2
TAKSONY	.	.	.	.	.	3	.	.	.	.	3
TENNESSEE	39	17	3	.	.	4	2	.	.	.	65
THOMASVILLE	2	.	1	.	.	.	.	.	.	.	3
THOMPSON	155	1	.	1	.	36	.	3	.	2	198
TILENE	.	.	.	.	.	.	.	.	.	5	5
TRANOROA	.	.	.	.	.	.	.	.	5	.	5
TYPHIMURIUM	105	89	267	282	9	272	2	25	.	136	1187
TYPHIMURIUM VAR COPE	123	43	395	164	1	278	1	75	2	65	1147
UGANDA	.	33	.	.	.	19	.	1	.	1	54

(Continued)

TABLE 7
NON-CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND NVSL BY SEROTYPE AND SOURCE, 1999

	NONHUMAN SOURCE										
	CHICKEN	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMALS/ ENVIRONMENT	FEED/FEED SUPPLEMENTS	OTHER BIRDS/WILD ANIMALS	REPTILES	ALL OTHER	TOTAL
SEROTYPE											
URBANA	.	1	.	.	.	1	.	.	1	.	3
WASSENAAR	.	.	.	.	.	.	.	.	1	.	1
WELIKADE	.	.	.	.	.	.	.	.	1	.	1
WELTEVREDEN	.	.	.	.	.	1	.	.	.	.	1
WORTHINGTON	13	13	18	.	1	8	.	3	.	.	56
TOTAL	3592	1603	1710	671	34	3011	38	368	76	828	11931