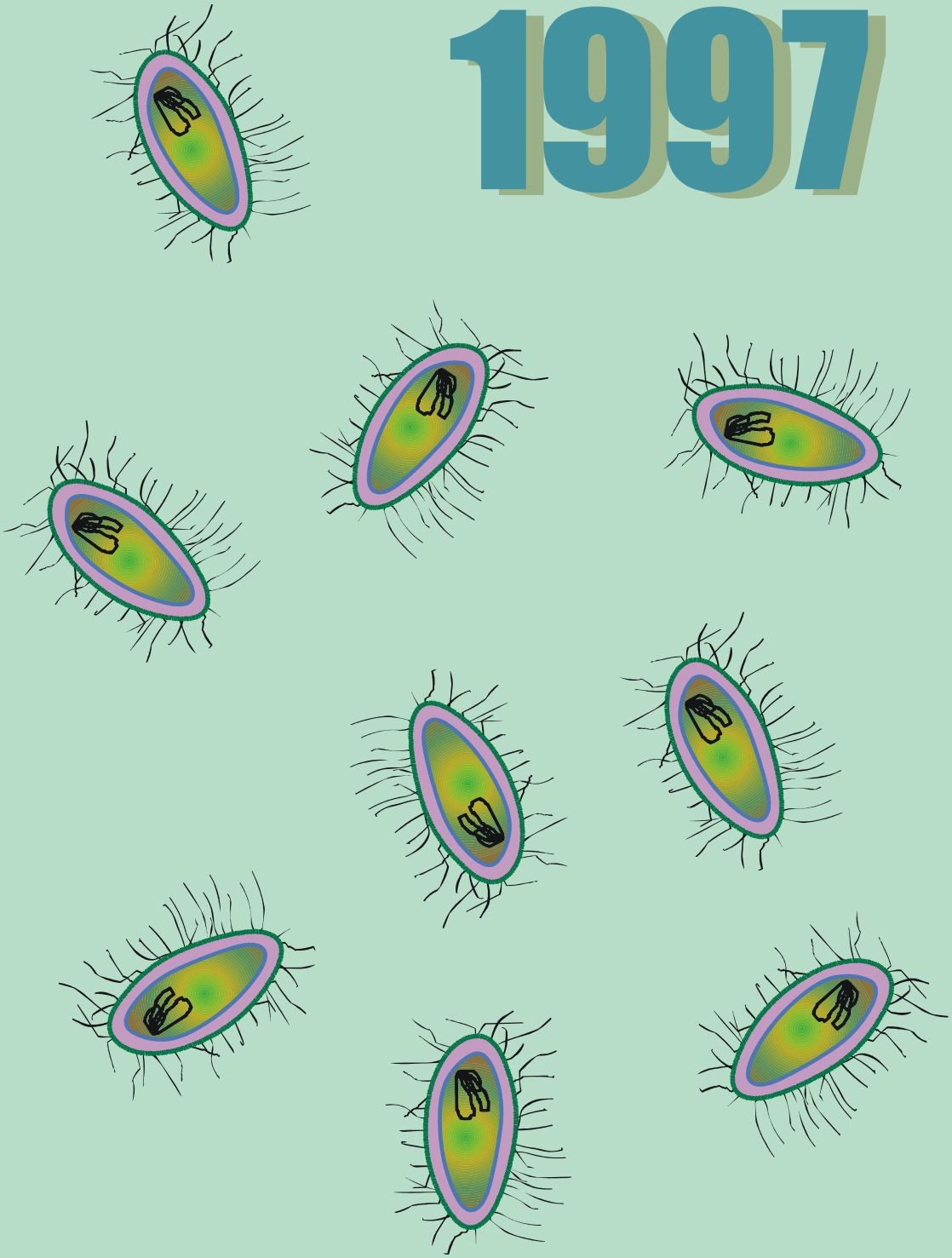
Salmonella

Annual Summary

1997



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
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Laboratory Confirmed *Salmonella* Surveillance Annual Summary, 1997

The Annual Summary contains surveillance data on reported laboratory-confirmed *Salmonella* isolates in the United States for 1997. 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 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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TABLE 1
THE 20 MOST FREQUENTLY REPORTED SALMONELLA SEROTYPES
FROM HUMAN SOURCES REPORTED TO CDC IN 1997 AND FROM
NONHUMAN SOURCES REPORTED TO CDC AND USDA IN 1997

HUMAN 1997				NONHUMAN 1997			
RANK	SEROTYPE	NUMBER	PERCENT	RANK	SEROTYPE	NUMBER	PERCENT
1	TYPHIMURIUM *	9116	26.3	1	TYPHIMURIUM *	3717	20.8
2	ENTERITIDIS	7924	22.9	2	HEIDELBERG	1916	10.7
3	HEIDELBERG	2104	6.1	3	KENTUCKY	939	5.3
4	NEWPORT	1584	4.6	4	ANATUM	756	4.2
5	AGONA	740	2.1	5	DERBY	670	3.8
6	MONTEVIDEO	718	2.1	6	AGONA	652	3.7
7	THOMPSON	695	2.0	7	SENFTENBERG	648	3.6
8	JAVIANA	675	2.0	8	HADAR	631	3.5
9	INFANTIS	651	1.9	9	DUBLIN	615	3.4
10	HADAR	643	1.9	10	MBANDAKA	599	3.4
11	ORANIENBURG	623	1.8	11	ENTERITIDIS	564	3.2
12	BRAENDERUP	559	1.6	12	BREDENEY	463	2.6
13	MUENCHEN	543	1.6	13	MONTEVIDEO	450	2.5
14	SAINTPAUL	436	1.3	14	CHOLERAESUIS **	396	2.2
15	TYPHI	349	1.0	15	INFANTIS	389	2.2
16	POONA	293	0.8	16	MUENSTER	334	1.9
17	ANATUM	208	0.6	17	SCHWARZENGRUND	272	1.5
18	MISSISSIPPI	205	0.6	18	WORTHINGTON	249	1.4
19	MBANDAKA	189	0.5	19	SAINTPAUL	219	1.2
20	JAVA	184	0.5	20	OHIO	197	1.1
	SUB TOTAL	28439	82.2			14676	82.3
	TOTAL	34608				17829	

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

TABLE 2
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY AGE AND SEX, 1997

	SEX			
	FEMALE	MALE	UNKNOWN	TOTAL
AGEGROUP				
< 1 YR	1581	1714	156	3451
1 TO 4 YRS	2371	2582	185	5138
5 TO 9 YRS	1154	1355	95	2604
10 TO 19 YRS	1243	1475	69	2787
20 TO 29 YRS	1807	1531	107	3445
30 TO 39 YRS	1646	1475	87	3208
40 TO 49 YRS	1477	1193	88	2758
50 TO 59 YRS	1025	769	49	1843
60 TO 69 YRS	855	598	36	1489
70 TO 79 YRS	863	549	38	1450
80+ YEARS	589	296	23	908
UNKNOWN AGE	2225	2072	1230	5527
TOTAL	16836	15609	2163	34608

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
AARHUS					1	4	13	6		6	16	46
ABA					1							1
ABAETETUBA		1	2	5	3	1	2	10	10	17	8	59
ABERDEEN	3	6	5	2	3	3	5	1	5	2	3	38
ABONY	1	5	12	3	4	2	3	6	9	2	3	50
ABORTUSBOVIS		1						1				2
ABORTUSEQUI											1	1
ACRES										1		1
ADELAIDE	94	76	62	64	61	96	74	110	98	88	70	893
AEQUATORIA											1	1
AFLAO										1		1
AFRICANA	1											1
AGAMA				1	1	1		4	3	2	2	14
AGBENI	1	4		1	2	3	1	3	5	1	3	24
AGEGE			1							1		2
AGO									1		1	2
AGONA	1152	1121	925	980	1006	750	651	753	683	606	740	9367
AGOUEVE			1			1		2	2	4	3	13
AHMADI					1							1
AHUZA										1		1
AJIOBO							1				2	3

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
ALABAMA	5	7	2	1		3		1	1	2	2	24
ALACHUA	133	69	47	48	16	28	55	70	52	39	18	575
ALAGBON			1									1
ALAMO	1						2		1			4
ALBANY	61	47	56	42	23	24	30	29	49	26	21	408
ALBERT				1				2	1	1		5
ALBUQUERQUE			1				1					2
ALGER		1										1
ALLANDALE	1											1
ALTENDORF					1							1
ALTONA					1			1		1	1	4
AMAGER	4		1	1	1	3	2		6	1	8	27
AMERSFOORT						1						1
AMSTERDAM	1	7	15	4	2	3	3	4	11	2	9	61
ANATUM	261	266	228	285	232	158	194	146	174	271	208	2423
ANECHO		1	2	5	1	1	2		2	5	2	21
ANK								1		2		3
ANNEDAL										1		1
ANTONIO				1	1							2
ANTSALOVA								1	2	1		4
APAPA											2	2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
AQUA					1	1	1		3	2	1	9
ARAGUA										1	1	2
ARECHAVALETA	1	1	1		5	4	1	4	6	6	9	38
ARGENTINA						1						1
ARKANSAS	6	3	6	12	6	1					1	35
ASHANTI					1							1
ASSEN			1	2								3
ASSINIE							1					1
AUGUSTENBORG			1	2	2		1				2	8
AUSTIN	1											1
AVIGNON				1				1				2
AZTECA		1	1	1			1					4
BABELSBERG				1								1
BAGUIDA							1					1
BAHATI										1		1
BAHRENFELD							1				1	2
BAILDON		1	2		1	1	1	1	14	5	5	31
BALL				1						2		3
BANANA					1	1	1			1	1	5
BARDO	27	32	24	33	11	4	8	8	1	28	10	186
BAREILLY	124	152	148	111	117	94	105	83	109	115	112	1270

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
BARRANQUILLA										1		1
BAZENHEID		1										1
BELEM					3	1						4
BELFAST					1							1
BENFICA				1					2	1		4
BENIN								1		1		2
BERE		6			3	1	1	2	1	1	8	23
BERGEDORF		2										2
BERKELEY		1										1
BERLIN							1					1
BERN	1	1										2
BERTA	516	497	653	487	419	333	401	399	367	118	87	4277
BIETRI		2										2
BINZA	1	3		2	5	1	1	2	1			16
BIRKENHEAD		2						2		2	7	13
BISPEBJERG										1	1	2
BLEADON	2											2
BLEGDAM	6		1	2	5	2	6	6		2	4	34
BLIJDORP										1		1
BLOCKLEY	442	476	262	147	132	86	89	76	55	51	62	1878
BLUKWA										1	1	2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
BONAIRE	1		1	1		1	1		1	1		7
BONAMES				2								2
BONARIENSIS	2	1	4		9	4	6		5	3	3	37
BONGOR									1	1		2
BONN	1	2	2	2				7	4	1		19
BORBECK									1			1
BORNUM						1						1
BOVISMORBIFICANS	65	46	73	40	36	26	35	40	25	41	47	474
BRADFORD	1	4	2	1	2	54	44	35	12	1	3	159
BRAENDERUP	566	636	745	758	411	477	381	426	588	531	559	6078
BRANDENBURG	195	186	195	176	161	188	257	259	284	181	167	2249
BRAZIL					1		2		1	1	1	6
BRAZOS											1	1
BRAZZAVILLE	1				1							2
BREDA							1					1
BREDENEY	133	117	99	87	75	57	49	44	57	47	51	816
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, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
BRONX								1			2	3
BROUGHTON		1							2			3
BRUNEI				1	1							2
BUDAPEST							1		1			2
BUKAVU											1	1
BUKURU		1										1
BURGAS					1							1
BURUNDI									1			1
BUTANTAN		1										1
BUZU								1	3		5	9
CALIFORNIA	9	2		1	6	2	4	2	1	1	9	37
CAMBRIDGE		1	1						1			3
CANADA	1		1							1		3
CANASTEL	1			1								2
CANNSTATT											1	1
CANOGA	1	1		1	2	28	1					34
CARACAS											3	3
CARMEL									1	1		2
CARNO				1								1
CARRAU	1	2	1	9	6	5	9	9	12	30	6	90
CARSWELL					1	1						2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
CERRO	204	139	117	115	102	99	57	62	74	55	60	1084
CHAILEY		2	2	4	2		1		6	4	12	33
CHAMELEON	3	1	1	1	2	3	9	9	12	11	7	59
CHAMPAIGN				1				1	1			3
CHANDANS								1				1
CHARITY				1	1		1					3
CHARLOTTENBURG					1					1		2
CHESTER	33	42	22	369	27	30	23	21	34	26	36	663
CHICAGO							1	1				2
CHINCOL				1	1	1	2					5
CHINGOLA											1	1
CHITTAGONG			2									2
CHOLERAESUIS	41	57	50	39	40	35	50	53	50	41	25	481
CHOLERAESUIS VAR KUN	41	49	42	34	42	56	36	18	25	26	24	393
CLACKAMAS	2	1		3		1		1	1	1	3	13
CLAIBORNEI					1							1
CLERKENWELL				1								1
CLEVELAND	7											7
COELN	4	4	2	3	5	1	4	2	2	7	4	38
COLEYPARK			2	1		2						5
COLINDALE	1	2		1				5	2	7	1	19

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
COLORADO					1	1	1	1	1	1	1	7
CONCORD	1		1	1	1			1	4	5	2	16
CORVALLIS	1		1	1	1	1	2		1	1	1	10
COTHAM								1				1
CREMIEU	2										1	3
CUBANA	18	26	20	21	29	32	32	61	44	34	36	353
CULLINGWORTH										1		1
CURACAO		2	1		1		1	1				6
DAKOTA		1										1
DAYTONA	6	1	2	2	3	1	5	3	3	4	6	36
DECATUR				1	3		1	1				6
DEGANIA									1			1
DEMERARA	3											3
DENVER	5	2	6	2	4	1	9	2	5	2	3	41
DERBY	412	340	289	268	184	199	170	144	213	143	152	2514
DESSAU			2	2							1	5
DIBRA		1										1
DIGUEL										4	2	6
DJAKARTA	1						2					3
DJUGU	1		1	2	3	2		4	1	2	2	18
DOBA								1	1			2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
DOEL										2		2
DOULASSAME					1						1	2
DRIFFIELD		1										1
DROGANA						3		1	3			7
DRYPOOL	9	15	8	5	7		4	4	8	5	7	72
DUBLIN	86	92	121	103	106	100	90	65	81	85	61	990
DUESSELDORF	21	8	13	14	10	6	19	12	13	6	6	128
DUGBE								1				1
DUISBURG			1	1	1	1			2			6
DUMFRIES				1								1
DURBAN	5	4	7		5	2	4	11	3	8	8	57
DURHAM			2		5	3	1	5	6	4	2	28
DUVAL						1	2		1		1	5
EALING	1				4	2	2	8	24	26	8	75
EASTBOURNE	5	15	11	2	11	5	8	13	10	13	3	96
ECHA	1											1
EDINBURG	1	5	14	1	4		1	3	4			33
EDMONTON				1								1
EILBECK									1			1
EIMSBUETTEL	1	1	2									4
EKO	1			1	4	2						8

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
EKPOUI					1		1					2
EMEK	6	2	2	4	7	7	4	3	6	5	7	53
EMMASTAD	1	1										2
ENSCHEDE						1						1
ENTEBBE						1		2		8	4	15
ENTERITIDIS	7052	7063	8466	8734	7755	6578	8071	9866	10201	9570	7924	91280
ENUGU									1	1	1	3
EPPENDORF				1			1	1				3
ERLANGEN					1							1
ESCANABA	2	1									3	6
ESSEN	6	1	1	1	3	3		3		2	3	23
ETTERBEEK											1	1
FALKENSEE	1	1		1	1			1	2		1	8
FALLOWFIELD											3	3
FARMSEN					1	1		3	2	2	6	15
FAYED									1			1
FERRUCH			1									1
FINKENWERDER				1								1
FISCHERKIETZ				1								1
FLINT	2	7		5	29	20	30	32	39	34	43	241
FLORIDA	2	1	2	3	9		5	3	2	7	11	45

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
FLUNTERN										1		1
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	4	3	2	3	1					2		15
GALIEMA		1	1		3							5
GALIL									1		1	2
GALLINARUM	1		1	1	1					2		6
GAMBIA									1		2	3
GAMINARA	44	41	43	41	50	38	37	38	45	44	47	468
GARBA					1					1		2
GAROLI					1		1					2
GATESHEAD							3					3
GATOW	2	3	1	2	1	2	1		1			13
GATUNI	2	7	4	6	3	2	6	3	1	2		36
GEORGIA	1			2				1	2			6

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
GERA					1	1						2
GIVE	98	82	86	94	143	123	101	95	101	114	118	1155
GLIDJI										1		1
GLOSTRUP	15	14	16	26	17	78	42	13	31	13	5	270
GLOUCESTER							2	3	2	2	2	11
GODESBERG				1			1		1	1		4
GOETEBORG											1	1
GOETTINGEN	1	1		1	2	2	1				1	9
GOLDCOAST				1					1		1	3
GOMBE				1								1
GOODWOOD				1								1
GROUP 51						1				1	1	3
GROUP 52										2		2
GROUP 53								2	1	5	3	11
GROUP 54									1			1
GROUP 56										3	1	4
GROUP 58							3		3		3	9
GROUP 59							1	2			1	4
GROUP 60								3	2	6	3	14
GROUP 61						2	9	11	17	17	6	62
GROUP 64							1					1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
GROUP 65								1	2	2	6	11
GROUP A	9	3	4	13	6	1	1	7	4	3	1	52
GROUP B	508	624	434	495	370	475	539	563	601	582	507	5698
GROUP C1	134	200	151	168	112	124	110	137	108	123	103	1470
GROUP C2	96	150	116	99	60	107	163	201	111	108	64	1275
GROUP D1	183	221	211	209	155	202	280	257	182	186	116	2202
GROUP D2				1		1			1	3	2	8
GROUP E1	13	13	18	20	13	13	7	29	20	21	13	180
GROUP E2			1		1					2	4	8
GROUP E4		1	3	2	1	2	2	3	2	3	2	21
GROUP F		1	1		2	7	2	8	3	5	2	31
GROUP G	13	52	23	17	9	7	22	34	73	42	8	300
GROUP G4	1											1
GROUP H	1	10	2	1	2	1	3	2	2	4		28
GROUP I		2		1	2	3	2	12	5	6	5	38
GROUP J							2		1	1		4
GROUP K		1			2	6	1	2	3	5	2	22
GROUP L						1		3	2		1	7
GROUP M											2	2
GROUP N						1	1			1		3
GROUP O		2	1	1	2			3	2	3	2	16

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
GROUP P		1			1		11	4	4	1	4	26
GROUP Q									1		1	2
GROUP R						4	2	1	2	3		12
GROUP S							3	5	5	5	5	23
GROUP T										1	1	2
GROUP U							2	2	3	4	1	12
GROUP V	1	1				2	1	6	15	26	33	85
GROUP W						2	13	24	15	21	10	85
GROUP X						2	1	1	1	10	9	24
GROUP Y						6	14	14	15	15	11	75
GROUP Z						5	16	18	18	16	13	86
GRUMPENSIS	2	1	1	2	1		3	1	3			14
GUARAPIRANGA				1								1
GUINEA										1		1
HAARDT	146	77	75	49	22	10	13	10	16	6	5	429
HADAR	2233	2442	2007	1837	1970	1532	1298	1001	812	658	643	16433
HADDON									1			1
HAELSINGBORG						1	1					2
HAGENBECK						2			1	1	1	5
HAIFA	1	4	3	8	4	2	4	2	2	3	4	37
HALMSTAD				1		1		3		1		6

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
HAMBURG	11	56	16	7	2				4		1	97
HANDEN										1		1
HARBURG											1	1
HARRISONBURG				1								1
HARTFORD	55	58	49	56	130	71	100	90	164	89	110	972
HATFIELD											1	1
HATO	6	2	2	15				1	1			27
HAVANA	249	68	80	57	56	49	53	38	57	59	47	813
HEERLEN								1				1
HEIDELBERG	6017	5167	4722	3955	2972	2528	2457	1825	2095	1998	2104	35840
HEILBRON						3	1					4
HERON											1	1
HERSTON	1					1	1					3
HIDALGO			2				1	1			1	5
HIDUDDIFY	2				4			1				7
HILLINGDON										1		1
HINDMARSH	4			3	1	1	1		2	1	1	14
HISSAR		1										1
HOLCOMB				2	1					1	2	6
HOMOSASSA										1		1
HORSHAM	2	1		1	1	1				2		8

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
HOUTEN	2	3	4	3	2	5	3	7	3	21	1	54
HULL				1			1	1	3			6
HVITTINGFOSS	17	11	10	10	11	22	20	14	15	44	26	200
HYDRA				1								1
IBADAN	12	14	7	19	21	20	13	24	46	33	42	251
IDIKAN					5	6	6	2		11	4	34
ILALA											1	1
ILLINOIS			1		1					1		3
ILUGUN										3		3
IMO										1		1
INCHPARK								1				1
INDIA					1	1				1		3
INDIANA	71	94	78	48	36	24	18	25	24	28	11	457
INFANTIS	1193	1003	908	753	580	499	568	520	521	503	651	7699
INGANDA	3	1				1						5
INPRAW						1						1
INVERNESS	36	17	25	16	15	32	20	21	37	20	26	265
IPSWICH					1				1	1		3
IRCHEL									1			1
IRUMU	8	2	6	2	1	7	39	45	31	18	13	172
ISANGI		2	5	1	2				3	1	1	15

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
ISLINGTON								1				1
ISRAEL						1						1
ISTANBUL	37	29	26	21	5	13	12	7	10	9	8	177
ITAMI		2	2		2			1		1	2	10
ITURI						1	5	2	4	2	1	15
IV 44:Z4,Z23:-											4	4
JACKSONVILLE			3									3
JAFFNA							1	2				3
JAJA											1	1
JAMAICA	4				2	2	1	2	6		2	19
JANGWANI	1	1			5	2	6	3	10	7	4	39
JAVA	149	205	193	120	148	156	176	172	268	289	184	2060
JAVIANA	491	424	578	703	786	648	641	540	758	749	675	6993
JEDBURGH						1					1	2
JERICHO				1								1
JERUSALEM		1		1		1						3
JOAL										1		1
JOHANNESBURG	83	92	61	78	108	53	63	48	74	44	44	748
JUBILEE											1	1
JUKESTOWN						1						1
KAAPSTAD	2			4	8	3				1		18

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
KADUNA							1	1				2
KALAMU						1						1
KAMPALA				1								1
KANIFING			1		5		3				1	10
KAOLACK										1		1
KEDOUGOU					1				4			5
KENTUCKY	66	61	56	47	46	31	46	42	80	78	60	613
KIAMBU	11		13	21	11	4	7	6	14	17	14	118
KIBI							1					1
KIBUSI	1			1						3		5
KILWA								11	4	2		17
KIMBERLEY				1								1
KIMUENZA					3			2				5
KINGABWA						1	1	1	1		2	6
KINGSTON	2	3	2		4	1	1	1			3	17
KINONDONI						1				1	1	3
KINSHASA		2	1					2	4	7	6	22
KINTAMBO	1		2	3	1	2	17	19	21	19	14	99
KIRKEE											1	1
KISANGANI			1			1			2			4
KISARAWE							1				2	3

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
KISII					1							1
KITENGE									1			1
KODJOVI					2			1				3
KOESSEN										1		1
KOKETIME	1	1								1		3
KOKOMLEMLE			5	2	2	1	2	2	2	2	3	21
KONSTANZ				1								1
KORTRIJK					1							1
KOTTBUS	40	23	7	18	21	42	27	22	49	9	11	269
KPEME							1					1
KRALENDYK				1	4	5	5	3	10	15	4	47
KREFELD	4	5	2	1	1	1	9	3	3	2	1	32
KUA						1	1	1	2	1	1	7
KUILSRIVIER				2								2
KUMASI								1				1
KURU								1				1
LABADI						1		1	2			4
LAGOS		1	3			3	1	1	2	1	1	13
LANDAU											1	1
LANDWASSER							1					1
LANGENSALZA										1		1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
LANKA	7	7	8	6		1	1	3				33
LANSING		1		1			1					3
LAROCHELLE	1	3	5	2	5	2	3	4	4	4	1	34
LAWNDALE	1	1					1			1		4
LAWRA						1						1
LEOBEN						1						1
LEOPOLDVILLE				1								1
LEXINGTON	2	4	2	5	1	3	5	3	1	2	1	29
LICHTENBERG						1						1
LILLE	6	1	1	4	2	4	3	1			3	25
LIMBE							1		1		1	3
LIMETE					1	1				1	6	9
LINDENBURG	14	17	12	12	12	8	11	6	9	5	3	109
LINDI										1		1
LISHABI	1											1
LITCHFIELD	178	172	117	80	94	92	116	93	115	158	105	1320
LIVERPOOL		1	2	3	6	6	1		2	3	3	27
LIVINGSTONE	54	34	52	35	22	27	12	16	13	18	6	289
LOANDA	4				7	3	3				1	18
LOCKLEAZE						1		3	2			6
LOHBRUEGGE			1						2	4		7

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
LOMALINDA	12	8	8	5	6	10	14	15	15	24	12	129
LOME							1	2		2	2	7
LOMITA	4	2	5	5	3	1	5	1	2	5	3	36
LOMNAVA					2							2
LONDON	61	60	52	40	19	21	14	15	36	23	33	374
LOSANGELES	1									1		2
LOUBOMO	1											1
LOVELACE								1				1
LUCIANA	3			4	2	1		4		1	3	18
LUKE								2				2
MAARSSEN							1					1
MADELIA	4	5	5	12	8	10	3	5	8	21	7	88
MAGWA											1	1
MAIDUGURI											1	1
MAKUMIRA								1				1
MALSTATT			1							2		3
MAMPEZA										1		1
MANCHESTER	4		2	1								7
MANGO					1							1
MANHATTAN	74	106	69	50	36	49	130	92	72	101	99	878
MANILA			1	1				1				3

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
MAPO						1	1		1			3
MARACAIBO		1	2									3
MARICOPA						1						1
MARINA		3	2	5	10	17	30	53	75	81	36	312
MARSEILLE	1											1
MARYLAND											1	1
MATADI				1	2		6	20	10	27	9	75
MBANDAKA	209	262	190	135	206	130	167	118	154	223	189	1983
MELEAGRIDIS	15	10	6	18	25	8	15	12	30	207	43	389
MEMPHIS	1				1		2			1	1	6
MENDEN	1			1								2
MENDOZA		1			1	1		1			1	5
MENHADEN	6	8	2	4	1	5		2	5	14	1	48
MENSTON					2	2					1	5
MGULANI										2		2
MIAMI	49	21	41	28	115	70	98	126	74	52	76	750
MICHIGAN	1		1	1	1			3	8	1		16
MIDWAY					1	1						2
MIKAWASIMA	2	2	5	8	2	7	2	1	7		2	38
MINNEAPOLIS	6	5	18	6	7	4	1			1		48
MINNESOTA	11	13	12	22	21	19	28	13	36	28	26	229

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
MISSION	1	2						1				4
MISSISSIPPI	166	114	136	175	170	137	156	152	199	180	205	1790
MJIMWEMA	1											1
MOERO									2			2
MOLADE	1	5		1	1	1	1	1			1	12
MONO								1	1			2
MONS				2	1					2		5
MONSCHAUI	2	3	5	6	2	9	8	9	9	11	10	74
MONTEVIDEO	1074	788	794	928	868	559	789	631	685	1227	718	9061
MOREHEAD						1	1	1	2			5
MOROTAI				1								1
MOSCOW				2	1	15				1		19
MOUNTPLEASANT									1		1	2
MOWANJUM								1		2		3
MPOUTO								1			1	2
MUENCHEN	566	511	451	464	506	449	657	559	754	595	543	6055
MUENSTER	87	65	51	86	68	47	69	100	87	96	73	829
MUNDSBURG					1							1
NACHSHONIM										1		1
NAESTVED	1											1
NAGOYA								1			1	2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
NAMIBIA				1						1		2
NANCY	1											1
NAPOLI					1					1		2
NARASHINO							1		1	1	1	4
NCHANGA		1										1
NDOLO							1					1
NEGEV								1	1			2
NESSZIONA											4	4
NEUDORF	1						1					2
NEWBRUNSWICK	7	11	17	22	8	8	5	3	20	22	26	149
NEWHAW		2	2						4	1	1	10
NEWINGTON	18	12	21	14	26	25	15	13	17	16	20	197
NEWLANDS										1		1
NEWMEXICO	9		2	1		1	3	2			1	19
NEWPORT	3214	2901	2111	1802	1818	1481	1487	1673	2566	1985	1584	22622
NEWROCHELLE	1								2	1	1	5
NEWYORK										3	4	7
NGILI								1				1
NIAKHAR	1					1						2
NIENSTEDTEN	3	1	1		3		1	2				11
NIGERIA		1								1		2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
NIMA	1			1				1	1	4	1	9
NITRA			1							3		4
NOLA										1	1	2
NOORDHOEK									1			1
NORWICH	49	49	49	58	32	41	59	98	51	52	56	594
NOTTINGHAM	1				2	1	1	3	3	3	5	19
OAKLAND		1	2	3	2	2	3	4	1	4		22
OBOGU	3											3
OCHIOGU							1					1
OCHSENZOLL								1			2	3
OERLIKON								1				1
OFFA	1					2	1					4
OHIO	267	281	153	166	132	161	132	101	105	67	100	1665
OKATIE							1		1	1		3
OLDENBURG		1					1					2
ONARIMON		1										1
ONDERSTEPOORT		2	1						1	2		6
ONIREKE				1				1	1			3
ONTARIO							2					2
ORANIENBURG	517	632	572	501	655	597	522	602	595	690	623	6506
ORDONEZ		1										1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
ORIENTALIS	1								2	6		9
ORION	6	2	5	1		4	3	1	1	6	3	32
ORITAMERIN		1		1	3	1						6
OSLO	20	24	8	16	11	14	19	14	13	31	25	195
OTHMARSCHEN		1	4		6			4	2	6	6	29
OUAKAM	2		1			2	7	2	4			18
OVERSCHIE							1		3	4	3	11
OYONNAX					1							1
PAKISTAN	3	4	5	1	2		1			2	4	22
PANAMA	195	264	266	304	236	185	173	163	173	148	144	2251
PAPUANA						1			1		1	3
PARATYPHI A	66	86	69	69	76	80	53	79	86	86	72	822
PARATYPHI B	67	126	114	89	101	110	208	228	241	298	159	1741
PARATYPHI C	2	2	5	2	1	2	1	2	2	1	1	21
PARERA		1				2	2	4	7	7	2	25
PARIS				1								1
PATIENCE										1		1
PENSACOLA	2	6	4	4	7		8	3	11	4	7	56
PHARR				1	1							2
PHOENIX	2	1	8	5	1		8	3	9	9	5	51
PLANCKENDAEL											1	1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
PLYMOUTH					1	1			1	1		4
POANO						1	2	6	2	5		16
POMONA		2	6	4	10	9	7	6	23	29	43	139
POONA	108	124	199	126	788	218	295	376	531	415	293	3473
PORTLAND	3	1	1	1			2					8
PORTSMOUTH	1		2	6	1	1	1	3	1	1	4	21
POTSDAM	5	10	14	6	7	8	8	6	5	3	10	82
PRAHA		1			3	2	1	3	1			11
PRESTON	1				1		1					3
PULLORUM		1	1	1							1	4
PUTTEN	2	1		1	4	1	1	1	8	6	5	30
QUIMBAMBA									3			3
QUINIELA			1	1	1	1		2			1	7
RAMATGAN			1					1				2
RAUS	8			1	2	2		1	2	3		19
READING	118	128	231	397	396	430	363	257	197	131	167	2815
REDLANDS					1	1				1	1	4
REGENT									2			2
REMO	2	3	1				2		1	2		11
RHODESIENSE			1	2								3
RHONE				1								1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
RICHMOND	3	1	6	4	6	4	4	3	7	6	7	51
RIED		1										1
RIOGRANDE		1	1		1	1			1			5
RISSEN		3				4	6	10	4	5	9	41
ROMANBY							1		5	5	4	15
ROODEPOORT	2										1	3
ROSTOCK			2							1		3
ROTERBERG			2				1	1	1	2		7
ROVANIEMI					1							1
RUBISLAW	46	50	58	65	83	67	58	77	83	71	81	739
RUIRU		1				1						2
SADA					1							1
SAINTPAUL	521	650	509	558	439	529	380	479	467	562	436	5530
SAKA	3					3						6
SALINATIS	2	3	3		2	2		1	3	3		19
SANDIEGO	73	95	71	88	105	100	92	82	117	56	59	938
SANDOW						3	1	2				6
SANGALKAM			1		1							2
SANGERA	1							2	1			4
SANJUAN			2	1								3
SANTIAGO						2			1	1		4

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											TOTAL
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
SEROTYPE												
SAO										1		1
SAPHRA	23	8	15	8	10	7	1	6	11	11	41	141
SCHLEISSHEIM	1	1	5	2	3	3		1	5	9	6	36
SCHOENEBERG											1	1
SCHWARZENGRUND	156	136	137	110	108	145	169	167	162	157	144	1591
SCHWERIN										1		1
SELANDIA		1				1						2
SEMINOLE									1			1
SENDAI	1						3		1			5
SENEGAL				1								1
SENFTENBERG	200	154	119	131	140	150	126	130	91	167	180	1588
SEREMBAN		1					2			1	1	5
SETUBAL										1		1
SHAMBA											1	1
SHANGANI										1		1
SHARON									1			1
SHIPLEY	1			2								3
SHOMRON										1		1
SHUBRA	3	1		6	5	2	3	3	9	2	3	37
SIEGBURG	21	2										23
SIMI									2			2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
SIMSBURY						1						1
SINGAPORE	8	18	10	4	5	6	4	4	4	12	3	78
SINSTORF		1	1	2	1	1	2	1	9	4	8	30
SKANSEN			1						1			2
SOAHANINA				2		1	1	1	1		1	7
SOERENGA							2	1		6	1	10
SOESTERBERG	1	1					1					3
SOMONE			1		2		1	1		5	3	13
SOUMBEDIOUNE								4				4
SOUTHAMPTON		1				1						2
SOUTHBANK										1		1
STACHUS										1	3	4
STANLEY	52	58	93	109	131	136	143	217	481	200	164	1784
STANLEYVILLE	7	13	12	13	7	13	5	5	51	26	23	175
STELLINGEN								1	2		3	6
STENDAL									1			1
STERRENBOS								1	1			2
STEVENAGE				1								1
STIKLAND								1				1
STRASBOURG										1		1
SUBERU											1	1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
SUBSPECIES I				1		4	2	23	26	32	22	110
SUBSPECIES II			2	1	12	5	10	9	7	22	8	76
SUBSPECIES III									1	3	4	8
SUBSPECIES IIIA	38	11	9	9	2	4	5	21	20	11	7	137
SUBSPECIES IIIA/IIIB	60	71	53	88	47	58	33	60	37	28	17	552
SUBSPECIES IIIB	25	12	6	15	16	9	19	21	26	13	10	172
SUBSPECIES IV				4	7	6	5	13	31	21	22	109
SUBSPECIES V								1	1			2
SUBSPECIES VI									1	1		2
SUNDSVALL	3	3	1	3	2	3	3	5	17	25	47	112
SUNNYCOVE						1						1
SYDNEY									1	4	1	6
TAKORADI		2		1	3	2	2		1	4	5	20
TAKSONY	2		1		1		2			5	1	12
TALLAHASSEE	3	4	1	5	6	3	8	2	6	5	18	61
TAMALE								1		2		3
TAMBACOUNDA							2		3		1	6
TAMBERMA							1					1
TANANARIVE									1			1
TANGER									1			1
TARSHYNE			2									2

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
TEDDINGTON				1	1							2
TELAVIV									1			1
TELELKEBIR		1	6	2	1	5	5	8	4	13	12	57
TENNESSEE	71	236	295	158	113	98	133	156	112	96	31	1499
TEXAS	1	1								1		3
THIELALLEE	1		1									2
THOMASVILLE	3	2	1			4	1	2	1	1	2	17
THOMPSON	655	952	925	750	716	690	576	549	625	586	695	7719
TILENE								1	4	7	2	14
TOKOIN						1			3			4
TOOWONG											1	1
TOUCRA								2	3	3		8
TRACHAU						1					1	2
TRAVIS			2								1	3
TRIPOLI	1											1
TRURO					1							1
TSEVIE		1		1				1	1	1		5
TSHIONGWE	1	1	2	2	6	2	2	3	2	4		25
TUCSON	1		3	2		1	1	2	2	1	3	16
TUDU				1								1
TUINDORP		1		2			2		1	1	2	9

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
TYGERBERG							1		2	1		4
TYPHI	502	496	544	579	500	449	472	507	442	440	349	5280
TYPHIMURIUM	10555	9716	8630	8510	8780	7720	8436	7972	9147	9002	8289	96757
TYPHIMURIUM VAR COPE	164	183	276	307	215	230	307	393	555	499	827	3956
TYPHISUIS			1								3	4
TYRESOE			1							1		2
UCCLE										1	4	5
UGANDA	15	21	14	11	21	23	29	19	28	63	51	295
UGHELLI		1										1
ULLEVI											1	1
UMBILO		1	1									2
UNKNOWN	1526	2246	2365	2566	2947	2136	1649	1469	952	673	382	18911
UPHILL										1		1
UPPSALA		2	1						1	1		5
URBANA	20	26	15	18	15	26	52	63	72	60	57	424
UZARAMO			1	1		3	1	1	5			12
VALDOSTA					1							1
VANCOUVER							1	3	1			5
VEJLE			3	1	1				2		2	9
VICTORIA					1	1		3	1	3	2	11
VIETNAM									1			1

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
VILVOORDE									1	2	1	4
VIRCHOW	116	93	96	97	64	72	57	54	60	67	71	847
VIRGINIA	42	20	28	14	5		2		7	7	2	127
VOLKSDORF							1	1		2		4
VOLKSMARSDORF			1									1
VRIDI									1			1
WA										1		1
WANDSWORTH	1	4	2	1	2	4	1	5	14	6	5	45
WANGATA			1	1	1	2	1	1	1		1	9
WARAL								1	1		1	3
WASHINGTON								1	2	1	3	7
WASSENAAR	4	2	1	3	3	11	16	19	28	18	14	119
WAYCROSS	2	1		1	2	4	3	2		4	4	23
WAYNE				1					2	1	1	5
WELIKADE			1					1			1	3
WELTEVREDEN	105	98	89	65	71	68	98	86	89	86	106	961
WENTWORTH	1			1			1					3
WERNIGERODE		1										1
WESLACO	1	2			1			1	1			6
WESTERSTEDE	1											1
WESTHAMPTON	2	1	2		5		1	2	3	6	5	27

(Continued)

TABLE 3
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND YEAR, 1987-1997

	YEAR											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
SEROTYPE												
WESTON	1				1							2
WESTPHALIA								1				1
WICHITA								1				1
WIDEMARSH		2		3	1					3	2	11
WIEN	1				2	3	4	3	1			14
WIL										1		1
WILLEMSTAD				1			1		1		1	4
WIPPRA	1				1			2				4
WISBECH										2		2
WORTHINGTON	61	80	76	66	61	56	41	44	50	58	48	641
YABA		1										1
YARRABAH										1		1
YEERONGPILLY										1		1
YOVOKOME	3	1										4
ZAIMAN									1			1
ZANZIBAR		1			1		1	3	2	2	2	12
ZERIFIN				1								1
ZONGO					1							1
TOTAL	46359	45410	43321	42338	40443	34688	36917	37522	41222	39035	34608	441863

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=New England

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
SEROTYPE							
ABAETETUBA	2		1				3
ADELAIDE	1		2	1	1		5
AGONA	5		22		2	1	30
AJIOBO				1			1
ALACHUA					1		1
AMAGER			1				1
ANATUM	1	1	4	4	1		11
BAILDON		1					1
BARDO				1			1
BAREILLY	3		3				6
BERTA			1				1
BLOCKLEY	3		2				5
BONARIENSIS			2				2
BOVISMORBIFICANS	1		4				5
BRAENDERUP	4	2	16	1	2		25
BRANDENBURG	2		10				12
BREDENEY	1		2				3
BUZU				1	2		3
CALIFORNIA			1				1
CARACAS				1			1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
SEROTYPE							
CERRO	2						2
CHAILEY	1						1
CHAMELEON			1				1
CHESTER					1		1
CHOLERAESUIS			4				4
CHOLERAESUIS VAR KUN	1	1			2		4
CUBANA	1			1			2
DERBY	1		3	1		1	6
DOULASSAME			1				1
DRYPOOL			1				1
DURBAN				1			1
EMEK	1		2				3
ENTERITIDIS	144	11	322	44	41	11	573
ESSEN						1	1
FARMSEN				3			3
FLINT			1				1
GAMINARA	2						2
GIVE	1		1		1		3
GLOUCESTER					1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
SEROTYPE							
GOLDCOAST			1				1
GROUP 65	1		1				2
GROUP B		4	18	1		1	24
GROUP C1			1		1	2	4
GROUP C2	1					1	2
GROUP D1			2			1	3
GROUP E1					1		1
GROUP E2			1				1
GROUP G			1				1
GROUP I			1				1
GROUP W	1						1
GROUP X			1				1
GROUP Y			2				2
HADAR	10		35	4		1	50
HARTFORD	3		7				10
HAVANA			1				1
HEIDELBERG	29	10	114	5	6	8	172
HINDMARSH						1	1
IBADAN	2						2
IDIKAN			1				1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
SEROTYPE							
INFANTIS	3	1	18	2	2		26
IRUMU			2				2
ISANGI			1				1
ITAMI					1		1
ITURI						1	1
JAVA	2		1	1		1	5
JAVIANA	6	1	7	1	2		17
KENTUCKY			2				2
KINGABWA			1		1		2
KINGSTON					2		2
KINSHASA			1				1
KINTAMBO	1						1
KOTTBUS				1			1
LITCHFIELD	5		4	1	1		11
LOANDA		1					1
LOMALINDA	1				1		2
LONDON		1					1
MANHATTAN			3				3
MARINA	1			1			2
MATADI			3				3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
SEROTYPE							
MBANDAKA			7	1			8
MELEAGRIDIS			3				3
MIAMI	1		4				5
MISSISSIPPI			3				3
MONTEVIDEO	7		17		4		28
MUENCHEN	11		27	1	2		41
MUENSTER	2		2				4
NESSZIONA					3		3
NEWBRUNSWICK			1				1
NEWPORT	11	5	28	4	7	2	57
NORWICH			1				1
OHIO						3	3
ORANIENBURG	5	1	26		3		35
OSLO	1				1		2
OTHMARSCHEN				3			3
OVERSCHIE					1		1
PAKISTAN				1			1
PANAMA		5	9				14
PARATYPHI A	1	1	3				5
PARATYPHI B	7		5				12

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
SEROTYPE							
PARERA			1				1
PENSACOLA			1				1
PHOENIX	1						1
POMONA	1	1					2
POONA	5	3	12	2	1		23
READING	2	1	10	2		1	16
RICHMOND	1						1
RUBISLAW	1		1				2
SAINTPAUL	5	3	24	3	3	3	41
SANDIEGO	1		2				3
SAPHRA		1					1
SCHWARZENGRUND	3		7	1			11
SENFTENBERG			5				5
SHUBRA			1				1
STANLEY			5		1		6
SUBSPECIES I	1		2				3
SUBSPECIES IV	1		1				2
TAKORADI			1				1
TALLAHASSEE			3				3
THOMPSON	14	1	83	3	4	1	106

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE						
	Connecticut	Maine	Massachusetts	New Hampshire	Rhode Island	Vermont	TOTAL
SEROTYPE							
TYPHI			18	1	1		20
TYPHIMURIUM	131	21	190	33	66	18	459
TYPHIMURIUM VAR COPE		1	127	9			137
UGANDA		1	3				4
UNKNOWN	4	1	1	2	1	2	11
URBANA	1		6				7
VIRCHOW	1		10	1			12
WASSENAAR				1			1
WELIKADE		1					1
WELTEVREDEN	1		1				2
TOTAL	463	81	1288	145	171	61	2209

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
AARHUS		8		8
ABERDEEN		1		1
ADELAIDE	6	20		26
AGONA	37	73	24	134
AGOUEVE		2		2
ALACHUA		1		1
ALBANY	5			5
AMAGER			1	1
AMSTERDAM			2	2
ANATUM	5	7	5	17
BAILDON		1	1	2
BAREILLY	2	9		11
BERTA	8	8	7	23
BLOCKLEY	9	4	3	16
BLUKWA		1		1
BOVISMORBIFICANS		2		2
BRAENDERUP	12	50	23	85
BRANDENBURG	6	26	8	40
BREDENEY		1		1
BRONX		2		2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
CARRAU		2		2
CERRO	1		1	2
CHAILEY		1		1
CHAMELEON			1	1
CHESTER		11	1	12
CHOLERAESUIS		5	2	7
CHOLERAESUIS VAR KUN	1			1
CUBANA	1		8	9
DERBY	3	6		9
DJUGU		1		1
DUBLIN		7		7
DUESSELDORF	1			1
EALING		2		2
EASTBOURNE	1			1
EMEK	2			2
ENTEBBE		3		3
ENTERITIDIS	502	940	622	2064
ENUGU		1		1
ESCANABA		1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
ESSEN		2		2
FALLOWFIELD			3	3
FLINT	1	1	1	3
FLORIDA			1	1
FRIEDENAU			1	1
GIVE		2	6	8
GLOSTRUP		2		2
GOETTINGEN		1		1
GROUP 58	1			1
GROUP 59	1			1
GROUP 61	1			1
GROUP B	16	34		50
GROUP C1		8		8
GROUP C2		1		1
GROUP D1		1	3	4
GROUP E1			1	1
GROUP I		1		1
GROUP M		2		2
GROUP O		1		1
GROUP V		1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
GROUP W	1			1
GROUP Y		1		1
GROUP Z	2			2
HAARDT	1	1		2
HADAR	36	88	32	156
HARTFORD	1	3	6	10
HAVANA	8	2		10
HEIDELBERG	85	248	73	406
HERON		1		1
HOLCOMB		1		1
HVITTINGFOSS	1	2	3	6
IBADAN		1		1
INDIANA		2		2
INFANTIS	13	30	14	57
INVERNESS		1		1
IRUMU	1	1	1	3
ISTANBUL		1		1
IV 44:Z4,Z23:-	1			1
JANGWANI		1	1	2
JAVA	2	3	28	33

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
JAVIANA	19	18	36	73
JOHANNESBURG	1		1	2
KENTUCKY	6	29	4	39
KINONDONI	1			1
KINSHASA			2	2
KINTAMBO	1		1	2
KOTTBUS			2	2
KRALENDYK			1	1
KUA			1	1
LANDAU			1	1
LIMETE		3	2	5
LITCHFIELD	3	3	6	12
LIVERPOOL		1		1
LOMALINDA			1	1
LOME	1			1
LONDON		6	3	9
MADELIA		1		1
MANHATTAN	2	15	6	23
MARINA	3	1	2	6
MATADI		1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE			TOTAL
	New Jersey	New York	Pennsylvania	
SEROTYPE				
MBANDAKA	8	10	13	31
MELEAGRIDIS		1	1	2
MIAMI	1	2	4	7
MIKAWASIMA		1		1
MINNESOTA		1		1
MISSISSIPPI	2	4	4	10
MONSCHAUI		3		3
MONTEVIDEO	14	33	35	82
MUENCHEN	7	21	25	53
MUENSTER	3	5	3	11
NESSZIONA	1			1
NEWBRUNSWICK			1	1
NEWPORT	33	58	36	127
NEWROCHELLE		1		1
NEWYORK		3		3
NORWICH			1	1
NOTTINGHAM		1		1
OCHSENZOLL		2		2
OHIO	4	12	8	24
ORANIENBURG	8	24	19	51

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
OSLO	3	1	1	5
PAKISTAN	1			1
PANAMA	6	21	2	29
PARATYPHI A	4	15	1	20
PARATYPHI B		22		22
PARATYPHI C		1		1
PENSACOLA		2	1	3
POMONA	2	6		8
POONA	11	27	11	49
PORTSMOUTH	1		1	2
POTSDAM			2	2
PUTTEN	1	1		2
READING	78	7	2	87
REDLANDS		1		1
RICHMOND			1	1
RISSEN	1			1
ROMANBY			3	3
RUBISLAW	3	1	3	7
SAINTPAUL	18	31	26	75
SANDIEGO	4	4	3	11

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Mid Atlantic

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
SCHWARZENGRUND	6	15	5	26
SENFTENBERG	5	27	1	33
SINSTORF		1	2	3
SOMONE			1	1
STACHUS	1			1
STANLEY	8	14	6	28
STANLEYVILLE	3	16	1	20
SUBSPECIES I	9			9
SUBSPECIES IV		4		4
SUNDSVALL		2		2
TALLAHASSEE	1	4		5
TAMBACOUNDA		1		1
TELELKEBIR		1	1	2
TENNESSEE		1	1	2
THOMASVILLE	1			1
THOMPSON	20	74	47	141
TOOWONG	1			1
TYPHI	24	66	4	94
TYPHIMURIUM	148	830	387	1365

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE			
	New Jersey	New York	Pennsylvania	TOTAL
SEROTYPE				
TYPHIMURIUM VAR COPE	163			163
UGANDA		3	3	6
UNKNOWN		67		67
URBANA	1	9	8	18
VIRCHOW	10	11		21
VIRGINIA	1			1
WANDSWORTH		1		1
WASHINGTON	1	2		3
WASSENAAR			1	1
WELTEVREDEN		1		1
WESTHAMPTON		1		1
WIDEMARSH		1		1
WORTHINGTON	2	2	3	7
TOTAL	1430	3194	1630	6254

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
ABAETETUBA					2	2
ADELAIDE	3	1		5	1	10
AGBENI		1				1
AGONA	54	11	41	14	23	143
ALACHUA	1		1			2
ALBANY	4					4
ALTONA			1			1
AMAGER	2					2
AMSTERDAM			1			1
ANATUM	12	3	7	11	4	37
ANECHO				1		1
APAPA			1			1
AUGUSTENBORG				1		1
BAILDON		1				1
BAREILLY	4	1	9	2	1	17
BERTA	8	3	5	4		20
BLOCKLEY	8		2	3	1	14
BOVISMORBIFICANS	5	4	4	2		15
BRAENDERUP	28	5	13	10	5	61
BRANDENBURG	15	2	5	8	4	34

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
BREDENEY	7				3	10
CERRO	1				1	2
CHAILEY	3					3
CHAMELEON		1		1		2
CHESTER	2		3			5
CHOLERAESUIS	5		2			7
CHOLERAESUIS VAR KUN		1				1
COELN		1			2	3
CUBANA	3		1	3		7
DENVER	2					2
DERBY	11	1	4	3	1	20
DJUGU				1		1
DUBLIN	2		4	1	1	8
DUESSELDORF			1	1	1	3
DURBAN			1	1		2
EALING			1			1
ENTERITIDIS	525	103	225	425	335	1613
FARMSEN					3	3
FLINT	1		1	1		3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
GAMINARA	1		1		1	3
GIVE	7	1	2	5	1	16
GROUP 61	1					1
GROUP 65			1			1
GROUP B	37	16	11	1	3	68
GROUP C1	6	10	2	2		20
GROUP C2	1	1		1		3
GROUP D1	13		1	1	2	17
GROUP P	1			2		3
GROUP S		1		1		2
GROUP V				6		6
GROUP W	1	1	2			4
GROUP X		1		1		2
GROUP Y				2		2
GROUP Z	1			3		4
HADAR	73	4	14	14	7	112
HARTFORD	3	10	17	4	4	38
HAVANA		1	2			3
HEIDELBERG	118	19	61	30	32	260
HOLCOMB				1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
HVITTINGFOSS				2		2
IBADAN			1			1
IDIKAN			1			1
INDIANA			1			1
INFANTIS	46	8	14	3	5	76
INVERNESS	1					1
IRUMU			1			1
IV 44:Z4,Z23:-		1				1
JANGWANI			1			1
JAVA	26	13	15	17	4	75
JAVIANA	20	5	13	46	2	86
JOHANNESBURG	8	1	2	1	1	13
KENTUCKY	2	1				3
KINSHASA	2					2
KINTAMBO		3		2		5
KOKOMLEMLE		1		1		2
KOTTBUS		1	1			2
LIMBE				1		1
LITCHFIELD	5	3	2	2		12
LIVERPOOL	1					1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
LOMALINDA			1			1
LONDON	4			1	1	6
MADELIA		1				1
MAGWA			1			1
MANHATTAN	36	3		2		41
MARINA	1		1	7		9
MARYLAND			1			1
MBANDAKA	13	5	4	5	3	30
MELEAGRIDIS	1		3		1	5
MEMPHIS	1					1
MIAMI	6	1		23		30
MINNESOTA					1	1
MISSISSIPPI	6	1	1			8
MOLADE	1					1
MONTEVIDEO	48	15	8	11	3	85
MUENCHEN	22	4	19	6	8	59
MUENSTER	4	3		2		9
NEWBRUNSWICK	2				1	3
NEWINGTON	2					2
NEWMEXICO				1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
NEWPORT	39	19	20	18	19	115
NORWICH	3	1	1	1		6
OHIO	3	4		5	4	16
ORANIENBURG	24	5	17	31	7	84
ORION			2			2
OSLO			1	1	1	3
OVERSCHIE				1		1
PANAMA	9	1	7	1	1	19
PARATYPHI A	7			2		9
PARATYPHI B	4		2	3		9
PARERA			1			1
POMONA	2	1	1			4
POONA	14	3	12	9	3	41
PORTSMOUTH	1					1
READING	7	1	2	2	1	13
RICHMOND	1					1
ROMANBY	1					1
RUBISLAW	1		1	5		7
SAINTPAUL	21	6	9	12	9	57
SANDIEGO	2	1	5	5		13

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
SCHWARZENGRUND	7	3	3		2	15
SENFTENBERG	12	1	8	1	1	23
SHUBRA	1					1
SINSTORF				1		1
STANLEY	12	4	3	9	3	31
STANLEYVILLE			1			1
STELLINGEN				1		1
SUBSPECIES I				1		1
SUBSPECIES IIIA	1					1
SUBSPECIES IIIA/IIIB	1				3	4
SUBSPECIES IIIB					1	1
SUBSPECIES IV		1				1
SUNDSVALL	1			1		2
TELELKEBIR	1		1		2	4
TENNESSEE			5	1		6
THOMPSON	25	5	47	11	7	95
TYPHI	28	2	5	5	3	43
TYPHIMURIUM	425	155	263	288	204	1335
TYPHIMURIUM VAR COPE		17				17

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Illinois	Indiana	Michigan	Ohio	Wisconsin	TOTAL
SEROTYPE						
TYPHISUIS				2		2
UGANDA	7		4		1	12
UNKNOWN	7	2	5	14	12	40
URBANA	2		1	4		7
VEJLE		1				1
VILVOORDE					1	1
VIRCHOW	3	3	2	3	1	12
WANDSWORTH		1				1
WANGATA			1			1
WARAL					1	1
WASSENAAR	2			2		4
WELTEVREDEN	1		1		1	3
WORTHINGTON			1	1	1	3
TOTAL	1902	511	970	1146	757	5286

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
SEROTYPE								
ADELAIDE			1	1				2
AGBENI				1				1
AGONA	10	11	18	86			1	126
ALACHUA			1					1
ALBANY			1					1
ANATUM	2	14	2	16			1	35
ARECHAVALETA			2					2
AUGUSTENBORG			1					1
BANANA			1					1
BARDO	6							6
BAREILLY	1	1		6				8
BERTA			1					1
BLEGDAM	1							1
BRADFORD							1	1
BRAENDERUP	7	7	28	13			2	57
BRANDENBURG	4	1	3	2				10
BREDENEY		2		1				3
CANNSTATT			1					1
CARRAU							1	1
CERRO	2							2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
SEROTYPE								
CHAMELEON	1							1
CHESTER		1		1				2
CHOLERAESUIS			2					2
CHOLERAESUIS VAR KUN	1		1	1				3
CUBANA			1	1				2
DERBY			8			3		11
DUBLIN							1	1
DURHAM		1						1
EALING			1					1
EASTBOURNE		1						1
EMEK			1					1
ENTERITIDIS	30	46	129	72		8	9	294
ESCANABA			1					1
FALKENSEE			1					1
GAMINARA	1		1	2				4
GIVE		1	2	8				11
GLOSTRUP			1					1
GOETEBORG						1		1
GROUP 60							1	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
SEROTYPE								
GROUP 61				1				1
GROUP B	13	7	7	30	4			61
GROUP C1	3	2	1	2				8
GROUP C2			1	1	1			3
GROUP D1			1	2				3
GROUP E1		1						1
GROUP G			1					1
GROUP S				1				1
GROUP U			1					1
GROUP V	3							3
HADAR	7		8	16			3	34
HAGENBECK		1						1
HAMBURG	1							1
HARTFORD	1	1	1					3
HAVANA	1		1	1				3
HEIDELBERG	19	14	32	38		12	4	119
HVITTINGFOSS		1	1					2
IDIKAN			2					2
INDIANA			1					1
INFANTIS	7	53	16	40			1	117

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
SEROTYPE								
INVERNESS			2			1		3
IRUMU			2					2
JAVA	1	2	4	11				18
JAVIANA	1	9	3	11		1		25
JOHANNESBURG	1		1	2		1		5
KANIFING			1					1
KINTAMBO		1						1
KOTTBUS			1					1
LITCHFIELD		1	6	2		1		10
LONDON			3					3
MAIDUGURI						1		1
MANHATTAN		1	4				1	6
MARINA	1			1				2
MBANDAKA	3	4	13	4		2		26
MELEAGRIDIS	1		2	2				5
MIAMI				2				2
MINNESOTA		1						1
MISSISSIPPI				3				3
MONSCHAUI			1					1
MONTEVIDEO	4	5	7	28			3	47

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
SEROTYPE								
MUENCHEN	1	4	13	6			3	27
MUENSTER	1		2	5				8
NEWBRUNSWICK							1	1
NEWPORT	3	33	42	31		4	8	121
NOLA						1		1
NORWICH	2	5	1	9				17
OHIO		2						2
ORANIENBURG	2	6	6	15			1	30
ORION				1				1
OSLO	1							1
PANAMA		2	5	2		1		10
PARATYPHI A			1					1
PARATYPHI B		1	1			1		3
POONA	2		7	7				16
POTSDAM		1						1
READING			5	4				9
RISSEN	1			1				2
RUBISLAW		1	3	1				5
SAINTPAUL	4	8	13	6				31
SANDIEGO		1	1					2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
SEROTYPE								
SAPHRA		1						1
SCHWARZENGRUND			2	3				5
SENFTENBERG			3	2		2		7
SEREMBAN			1					1
SINSTORF							1	1
STANLEY	1	1	7	3		1		13
SUBERU						1		1
SUBSPECIES III							1	1
SUBSPECIES IIIA			1			2		3
SUBSPECIES IIIA/IIIB	4							4
SUBSPECIES IIIB			1					1
SUBSPECIES IV		1	5					6
TAKORADI		1						1
TALLAHASSEE				1				1
TENNESSEE			2	3		1		6
THOMPSON	5	2	7	17			2	33
TRACHAU						1		1
TYPHI	1		6	1				8
TYPHIMURIUM	100	105	139	175		29	58	606

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE							
	Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota	TOTAL
SEROTYPE								
TYPHIMURIUM VAR COPE			48				10	58
UGANDA	1	1		1				3
UNKNOWN			3	2	4	2		11
URBANA	4			2				6
VICTORIA						1		1
VIRCHOW		1	2			1		4
WASSENAAR				1				1
WORTHINGTON	1	1		3				5
TOTAL	267	368	660	711	9	79	114	2208

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
AARHUS			2				1		3
ABAETETUBA					1				1
ABERDEEN		1							1
ADELAIDE			3		1		1		5
AEQUATORIA			1						1
AGAMA					2				2
AGONA		1	19	11	9	3	7		50
AGOUEVE			1						1
AJIOBO		1							1
ALABAMA			1						1
ALACHUA		1	1		2				4
ALBANY			2						2
AMSTERDAM			1	1					2
ANATUM		1	9	5	5	1	4		25
ANECHO					1				1
ARAGUA					1				1
ARECHAVALETA					1				1
ARKANSAS					1				1
BAHRENFELD					1				1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
BAILDON							1		1
BAREILLY			4	4	6	2	5	1	22
BERE					6		2		8
BERTA			1	1	12		4		18
BISPEBJERG					1				1
BLOCKLEY		1	2		2				5
BOVISMORBIFICANS					1	1	2	1	5
BRADFORD				2					2
BRAENDERUP	1	5	11	132	2	1	7	1	160
BRANDENBURG			9	4	12	2	6	1	34
BREDENEY		1	5	2					8
BUZU			1						1
CARACAS					2				2
CARRAU		3							3
CERRO		2	1	1	1		1		6
CHAILEY				1	2				3
CHAMELEON		1							1
CHESTER					1		1		2
CHINGOLA			1						1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
CHOLERAESUIS			1		1				2
CHOLERAESUIS VAR KUN			1		1		1		3
COLINDALE			1						1
COLORADO					1				1
CUBANA				2	1				3
DAYTONA					1				1
DERBY		1		7	11	4			23
DESSAU			1						1
DIGUEL				1					1
DUBLIN		1					1		2
DURBAN			1			1			2
DUVAL		1							1
ENTEBBE								1	1
ENTERITIDIS	51	15	41	285	67	53	161	20	693
ESCANABA		1							1
ETTERBEEK				1					1
FLINT		30	1						31
FLORIDA		7			1	1			9
GAMBIA			2						2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
GAMINARA			3		3	5			11
GIVE			2	1	1	3			7
GLOSTRUP			2						2
GLOUCESTER			1						1
GROUP 51			1						1
GROUP 53				1					1
GROUP 58				1					1
GROUP B		50	27	5			4		86
GROUP C1		19		4			4		27
GROUP C2		42		1	1				44
GROUP D1		53	5	2			2		62
GROUP D2			1						1
GROUP E1		3	1						4
GROUP E2				1					1
GROUP E4						1			1
GROUP F		1							1
GROUP G			1						1
GROUP I		1							1
GROUP K				1					1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
GROUP O			1						1
GROUP P			1						1
GROUP Q				1					1
GROUP S				1					1
GROUP V	2		2	9			1		14
GROUP W		1							1
GROUP X			1	2			1		4
GROUP Y		2		1					3
GROUP Z		2							2
HADAR	5		20	7	43	2	43		120
HARBURG					1				1
HARTFORD	2	1	3	1	9	3	5	1	25
HATFIELD					1				1
HAVANA		1	1		2				4
HEIDELBERG	10	76	69	139	90	23	55	6	468
HVITTINGFOSS		3		1					4
IBADAN					25	1			26
ILALA							1		1
INDIANA							1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
INFANTIS	1	2	13	23	29	2	8	1	79
INVERNESS		1	2		2				5
IRUMU							1		1
IV 44:Z4,Z23:-			2						2
JAJA					1				1
JAMAICA				1	1				2
JAVA	1	1	9		8	4	8	1	32
JAVIANA	3	52	64	11	66	32	10	2	240
JOHANNESBURG	2		4	1	2		1		10
JUBILEE					1				1
KENTUCKY				2	1				3
KIAMBU			2						2
KINGSTON				1					1
KINTAMBO			1						1
LIMETE			1						1
LINDENBURG	1			1					2
LITCHFIELD	2	1	3	4	1	1	6	1	19
LOMALINDA				1					1
LOME					1				1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
LONDON			2	2		1			5
LUCIANA			1						1
MADELIA			1						1
MANHATTAN			2		2	1			5
MARINA		1	6	2	1		1		11
MATADI					2		1		3
MBANDAKA			6	7	7		4	1	25
MELEAGRIDIS			1						1
MENDOZA						1			1
MENSTON							1		1
MIAMI		5	4	1	4	2		1	17
MINNESOTA					1				1
MISSISSIPPI		7	42		3	19		1	72
MONSCHAUI				1	1				2
MONTEVIDEO	4	3	36	4	7	10	4	4	72
MPOUTO				1					1
MUENCHEN	3	5	41	22	28	26	14	3	142
MUENSTER			2						2
NAGOYA				1					1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
NEWINGTON								2	2
NEWPORT	19	33	115	58	112	43	44	3	427
NEWYORK							1		1
NORWICH				3			2		5
NOTTINGHAM		1		1				1	3
OHIO		2	2	2	3	1	2	1	13
ORANIENBURG		2	15	7	14	11	7		56
OSLO		1							1
OVERSCHIE			1						1
PANAMA	1		1	5	1		3		11
PARATYPHI A		1		2			2		5
PARATYPHI B		1	1	3		1		1	7
POMONA		1	2		3				6
POONA		6	6	5	7	2	1		27
PUTTEN				1			1		2
READING			3	1	3				7
RICHMOND				1					1
RISSEN					1		1		2
RUBISLAW		17	9		5	2			33

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
SAINTPAUL	1	10	17	7	6	5	9	1	56
SANDIEGO		3	1	2	2	3	1		12
SCHLEISSHEIM			1						1
SCHOENEBERG					1				1
SCHWARZENGRUND			1	9	4	24	5		43
SENFTENBERG				2	2	2	3	1	10
SHAMBA				1					1
SINGAPORE			1						1
SINSTORF						1			1
SOAHANINA							1		1
STACHUS		1					1		2
STANLEY			6		3				9
STANLEYVILLE				2					2
SUBSPECIES I		2	2				1		5
SUBSPECIES II			1						1
SUBSPECIES III							1		1
SUBSPECIES IIIA/IIIB				2		1	1		4
SUBSPECIES IIIB		1							1
SUBSPECIES IV		3							3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
SUNDSVALL					2		2		4
TAKORADI				3					3
TALLAHASSEE		2							2
TELELKEBIR				1	1				2
TENNESSEE			1		1			1	3
THOMPSON	1		15	10	78	22	14		140
TILENE			1						1
TRAVIS	1								1
TUINDORP		1							1
TYPHI		16	6	10	4	1	4	2	43
TYPHIMURIUM	30	27	372	221	471	146	302	52	1621
TYPHISUIS							1		1
UCCLE			2						2
UGANDA				2	5				7
ULLEVI				1					1
UNKNOWN	1	43	3	3	4	12	4		70
URBANA		1	3						4
VIRCHOW				1		1		1	3
WASSENAAR							1		1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Delaware	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia	TOTAL
SEROTYPE									
WAYCROSS			2						2
WAYNE					1				1
WELTEVREDEN		2	1				1		4
WESTHAMPTON			1						1
WORTHINGTON		2	2		8		1		13
TOTAL	142	586	1105	1091	1244	484	798	113	5563

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
SEROTYPE					
AGBENI				1	1
AGONA	5			6	11
ALABAMA				1	1
ANATUM				4	4
BAREILLY		4		8	12
BERTA				3	3
BLOCKLEY				1	1
BOVISMORBIFICANS			1	2	3
BRAENDERUP	9	1		4	14
BRANDENBURG	9			5	14
BREDENEY				1	1
BUKAVU		1			1
CERRO				1	1
CUBANA				1	1
DAYTONA	1				1
DERBY		1		4	5
DUBLIN				1	1
DURBAN		1			1
EALING				1	1
ENTERITIDIS	11	22		64	97

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=East South Central

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
SEROTYPE					
FLORIDA				1	1
GALIL	1				1
GAMINARA	1				1
GIVE	2			1	3
GROUP 65				1	1
GROUP B	12		3	14	29
GROUP C1	2			3	5
GROUP C2	1				1
GROUP D1	2		1	1	4
GROUP D2				1	1
GROUP G			1		1
GROUP V		2		2	4
GROUP X				1	1
GROUP Y				1	1
GROUP Z		1		1	2
HADAR	3	1		8	12
HARTFORD		3		2	5
HAVANA	1			1	2
HEIDELBERG	46	18	2	38	104
INDIANA		2			2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
SEROTYPE					
INFANTIS		4		26	30
JAVA		5		6	11
JAVIANA	12	3		15	30
JOHANNESBURG	1			3	4
KIRKEE	1				1
KOTTBUS				1	1
LILLE		1			1
LITCHFIELD		1			1
LOMALINDA	1				1
LUCIANA	1				1
MADELIA				1	1
MANHATTAN				3	3
MBANDAKA	6			1	7
MISSISSIPPI	22		5	14	41
MONSCHAUI				1	1
MONTEVIDEO	8		3	5	16
MUENCHEN	32	5		5	42
MUENSTER	1	1		1	3
NEWPORT	32	11	3	26	72
NORWICH				12	12

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
SEROTYPE					
OHIO				1	1
ORANIENBURG	4	6		5	15
PANAMA	1			1	2
PENSACOLA	2			1	3
POMONA				1	1
POONA	1	5		10	16
READING	1			3	4
RUBISLAW			1		1
SAINTPAUL	1		1	7	9
SCHLEISSHEIM	5				5
SCHWARZENGRUND		1		2	3
STANLEY	2	2		2	6
STELLINGEN				2	2
SUBSPECIES I				1	1
SUBSPECIES II				1	1
SUBSPECIES IIIA	1				1
SUBSPECIES IIIB	3				3
SUBSPECIES IV		3			3
SUNDSVALL				1	1
TALLAHASSEE	1				1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Alabama	Kentucky	Mississippi	Tennessee	TOTAL
SEROTYPE					
TENNESSEE		1			1
THOMPSON	4	2		5	11
TYPHI				3	3
TYPHIMURIUM	114	30	23	168	335
TYPHIMURIUM VAR COPE		28			28
UCCLE	1				1
UGANDA	2	2		1	5
UNKNOWN	9	11	1	2	23
URBANA	1	1			2
WANDSWORTH	2				2
WASSENAAR				1	1
WORTHINGTON				1	1
TOTAL	378	180	45	523	1126

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
SEROTYPE					
AARHUS			1	1	2
ABAETETUBA		1			1
ADELAIDE				5	5
AGO			1		1
AGONA	3	10	2	51	66
ALACHUA				1	1
ANATUM		1	5	20	26
ARECHAVALETA			3		3
BAREILLY	1	5	2	5	13
BERTA	1				1
BLOCKLEY				6	6
BRAENDERUP		6	8	45	59
BRANDENBURG				3	3
BREDENEY			1	3	4
CERRO				6	6
CHESTER				9	9
CHOLERAESUIS VAR KUN		1		1	2
CREMIEU			1		1
CUBANA				1	1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
SEROTYPE					
DERBY		4		2	6
DIGUEL			1		1
DUBLIN		1		1	2
EMEK				1	1
ENTERITIDIS	3	30	17	160	210
GAMINARA		14		8	22
GIVE		16		11	27
GROUP B		20	10	12	42
GROUP C1			5	5	10
GROUP C2			2	4	6
GROUP D1		3			3
GROUP E1				1	1
GROUP F				1	1
GROUP G		1		1	2
HADAR	1	6	1	10	18
HARTFORD		9		2	11
HAVANA		1		1	2
HEIDELBERG	1	19	12	34	66
HVITTINGFOSS		5			5
IBADAN				12	12

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
SEROTYPE					
INFANTIS		2	9	60	71
INVERNESS		4		12	16
JAVA		2			2
JAVIANA	6	30		91	127
JOHANNESBURG				3	3
KENTUCKY				1	1
KIAMBU				1	1
KINSHASA				1	1
LAROCHELLE			1		1
LINDENBURG			1		1
LITCHFIELD	2	2		4	8
LONDON		1		1	2
LUCIANA				1	1
MADELIA				3	3
MARINA				1	1
MATADI		1			1
MBANDAKA			1	4	5
MIAMI				2	2
MIKAWASIMA				1	1
MINNESOTA			2	2	4

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
SEROTYPE					
MISSISSIPPI	5	42		20	67
MONTEVIDEO		14	4	57	75
MUENCHEN		22	4	23	49
MUENSTER		2		3	5
NEWBRUNSWICK				1	1
NEWINGTON				1	1
NEWPORT	20	109	49	219	397
NORWICH		2	2	1	5
NOTTINGHAM				1	1
OHIO		3	1	5	9
ORANIENBURG		3	9	50	62
PANAMA		1	11	4	16
PARATYPHI A		1		3	4
PARATYPHI B		2	7	24	33
PHOENIX				2	2
PLANCKENDAEL			1		1
POMONA				1	1
POONA		3	5	21	29
QUINIELA		1			1
RUBISLAW		7	2	13	22

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
SEROTYPE					
SAINTPAUL		7	3	16	26
SANDIEGO				3	3
SAPHRA		2		8	10
SCHWARZENGRUND		1	1	2	4
SENFTENBERG		1		8	9
SOMONE				2	2
STANLEY		1	4	6	11
SUBSPECIES I		1	1		2
SUBSPECIES II			6		6
SUBSPECIES III				1	1
SUBSPECIES IIIA/IIIB	1			3	4
SUBSPECIES IV			1		1
TALLAHASSEE				1	1
THOMASVILLE				1	1
THOMPSON	4	4	2	10	20
TILENE				1	1
TUCSON				2	2
TUINDORP				1	1
TYPHI		3	3	15	21

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE				
	Arkansas	Louisiana	Oklahoma	Texas	TOTAL
SEROTYPE					
TYPHIMURIUM	38	112	101	318	569
UNKNOWN	7	10		38	55
URBANA		1			1
VIRCHOW			1	3	4
WESTHAMPTON			2		2
WORTHINGTON	1	1	1	3	6
TOTAL	94	551	307	1502	2454

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
SEROTYPE									
AARHUS						1			1
ABONY	1								1
ADELAIDE					1		2		3
AGONA	3				9	10	4		26
ALACHUA		1				1	1		3
ALBANY					1	1			2
AMSTERDAM					1	1			2
ANATUM		4			1	1			6
APAPA							1		1
BAREILLY		1	2		1	1			5
BERTA	2								2
BIRKENHEAD	3								3
BLEGDAM					2				2
BLOCKLEY	4						1		5
BRAENDERUP	2	6	1		2	1	3		15
BRANDENBURG	1					1	1		3
BRAZOS		1							1
BREDENEY	1	1				1	1		4
BRISTOL		1							1
BUZU		1							1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
SEROTYPE									
CALIFORNIA	8								8
CERRO			1		1				2
CHESTER							1		1
CHOLERAESUIS VAR KUN		1							1
COELN		1							1
CONCORD	2								2
CUBANA		2			2				4
DENVER						1			1
DERBY	19	17			3		1		40
DRYPOOL	6								6
DUBLIN	10								10
ENTERITIDIS	157	106	18		56	28	125		490
FLINT							1		1
GIVE					1				1
GROUP B		1	1	13	4	2		15	36
GROUP C1				5	1			4	10
GROUP C2				1		1			2
GROUP D1				5				11	16
GROUP E1					1			2	3

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
SEROTYPE									
GROUP E2				2					2
GROUP E4					1				1
GROUP G				2					2
GROUP I				1					1
GROUP K			1						1
GROUP S			1						1
GROUP V			2						2
GROUP Y			1						1
GROUP Z					1				1
HADAR	13	7			2	8	5		35
HARTFORD		1							1
HAVANA		3					1	1	5
HEIDELBERG	23	24	2		5	16	9		79
HVITTINGFOSS		1					2		3
INDIANA	1								1
INFANTIS	5	8	2		3	6	4		28
IRUMU		1					1		2
JAVA		5							5
JAVIANA	18	3	2		2	6	1		32
KENTUCKY	2	1					1		4

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Mountain

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
SEROTYPE									
KIAMBU	5								5
KINTAMBO	1								1
KOTTBUS	2								2
KRALENDYK	2								2
LILLE						1			1
LITCHFIELD	3	2			2	1			8
LIVINGSTONE	1	2			1				4
LOMALINDA		1							1
LOMITA	3								3
MARINA			1			1	1		3
MBANDAKA	14	1	1		4		4		24
MELEAGRIDIS			1		5				6
MIAMI	1	10			1		1		13
MONSCHAUI		1							1
MONTEVIDEO	8	18	2		4	7	6		45
MUENCHEN	10	3	1		2	8	3		27
MUENSTER		2				1			3
NARASHINO							1		1
NEWBRUNSWICK	5								5
NEWINGTON	10								10

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
SEROTYPE									
NEWPORT	47	17	3		5	22	5		99
NORWICH	3				1	2			6
OHIO	1	3			2	1	2		9
ORANIENBURG	69	12	2		4	16	7		110
OSLO					1	1			2
OTHMARSCHEN			3						3
PAKISTAN			1						1
PANAMA	11	3					2		16
PAPUANA					1				1
PARATYPHI A	8	1				2		1	12
PARATYPHI B	4	3			1	1			9
POMONA					2	1			3
POONA	34	1			2	5	3		45
PULLORUM	1								1
READING	4	2	1						7
RISSEN					1				1
RUBISLAW							1		1
SAINTPAUL	32	9	1		4	8	2		56
SANDIEGO	1	2			1				4
SCHWARZENGRUND	1	1	3						5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
SEROTYPE									
SENFTENBERG	3	6			4	4	3		20
SHUBRA							1		1
SINSTORF							1		1
STANLEY	8	2			1		2		13
SUBSPECIES IIIA						1		1	2
SUBSPECIES IIIA/IIIB						1			1
SUNDSVALL		2							2
TALLAHASSEE	4								4
TENNESSEE	2		1						3
THOMPSON	5	7	5			3	5		25
TUCSON	1								1
TYPHI	2	5		1	2				10
TYPHIMURIUM	165	223	54		38	69	63		612
TYPHIMURIUM VAR COPE					7	8			15
UCCLE					1				1
UGANDA		6				1			7
UNKNOWN		6		5	1	9	12		33
URBANA		1					2		3
VEJLE	1								1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE								
	Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming	TOTAL
SEROTYPE									
VICTORIA	1								1
VIRCHOW		1	1		1	1			4
WELTEVREDEN	1								1
WILLEMSTAD	1								1
WORTHINGTON		1							1
TOTAL	756	552	115	35	200	262	293	35	2248

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
AARHUS					2	2
ABAETETUBA		1				1
ABERDEEN			1			1
ABONY				1	1	2
ABORTUSEQUI		1				1
ADELAIDE		10			4	14
AGONA	1	110	10	13	20	154
ALACHUA		3		2		5
ALBANY		7				7
AMAGER		2	2			4
AMSTERDAM		2				2
ANATUM		35	3	2	7	47
AQUA		1				1
ARECHAVALETA		2			1	3
BARDO		3				3
BAREILLY		16			2	18
BERTA		16		2		18
BIRKENHEAD			3		1	4
BLEGDAM		1				1
BLOCKLEY		4	1		5	10

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Pacific

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
BONARIENSIS		1				1
BOVISMORBIFICANS		8		8	1	17
BRAENDERUP		74		7	2	83
BRANDENBURG		12			5	17
BRAZIL			1			1
BREDENEY		17				17
CERRO		35			2	37
CHAILEY		4				4
CHAMELEON		1				1
CHESTER		4				4
CHOLERAESUIS		1	1		1	3
CHOLERAESUIS VAR KUN		9				9
CLACKAMAS					3	3
CORVALLIS		1				1
CUBANA		6		1		7
DAYTONA					4	4
DERBY		26	3	1	2	32
DUBLIN		21	2	3	4	30
DUESSELDORF					2	2

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
DURBAN		2				2
DURHAM		1				1
EALING		3				3
EASTBOURNE		1				1
ENTERITIDIS	3	1710	39	41	97	1890
FLINT		4				4
FULICA	1					1
GAMINARA		4				4
GIVE		22	12	2	6	42
GROUP 53		2				2
GROUP 56		1				1
GROUP 58		1				1
GROUP 60		2				2
GROUP 61		3				3
GROUP 65		1			1	2
GROUP A		1				1
GROUP B		89	8	2	12	111
GROUP C1		10		1		11
GROUP C2		1	1			2
GROUP D1		4				4

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Pacific

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
GROUP E1		1		1		2
GROUP I		1				1
GROUP L		1				1
GROUP T		1				1
GROUP V		2		1		3
GROUP W		3				3
GROUP X		1				1
GROUP Y		1				1
GROUP Z				1	1	2
HAARDT		3				3
HADAR	1	89	3	3	10	106
HAIFA		3			1	4
HARTFORD		7				7
HAVANA		16			1	17
HEIDELBERG	9	319	4	39	59	430
HIDALGO		1				1
HOUTEN		1				1
HVITTINGFOSS		2	1	1		4
INDIANA		3				3
INFANTIS	3	143	3	9	9	167

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
IRUMU				1	1	2
ISTANBUL		7				7
ITAMI					1	1
JANGWANI		1				1
JAVA				3		3
JAVIANA		32		4	9	45
JEDBURGH					1	1
JOHANNESBURG		5		2		7
KENTUCKY		8				8
KIAMBU		6				6
KINTAMBO		3				3
KISARAWE		2				2
KOKOMLEMLE					1	1
KOTTBUS		2				2
KRALENDYK	1					1
KREFELD		1				1
LAGOS			1			1
LEXINGTON		1				1
LILLE		1				1
LITCHFIELD		21	1		2	24

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Pacific

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
LIVERPOOL					1	1
LIVINGSTONE		2				2
LOMALINDA		5				5
LONDON		6	1			7
MANHATTAN		18				18
MARINA		2				2
MATADI		1				1
MBANDAKA		23	1	1	8	33
MELEAGRIDIS		14		2	5	21
MENHADEN		1				1
MINNESOTA		17			1	18
MISSISSIPPI		1				1
MONSCHAUI		1			1	2
MONTEVIDEO		214	4	35	15	268
MOUNTPLEASANT		1				1
MUENCHEN		73	23	6	1	103
MUENSTER		28				28
NEWBRUNSWICK		13		1		14
NEWHAW		1				1
NEWINGTON		5				5

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
NEWPORT	1	115	28	9	16	169
NIMA		1				1
NORWICH	1	2				3
OHIO		20		2	1	23
ORANIENBURG		145	4	18	13	180
OSLO		2	8		1	11
PAKISTAN		1				1
PANAMA	2	18	3	2	2	27
PARATYPHI A		11	2	1	2	16
PARATYPHI B	1	44	7	3	9	64
PHOENIX		2				2
POMONA		18				18
POONA		32		2	13	47
PORTSMOUTH		1				1
POTSDAM		6			1	7
PUTTEN		1				1
READING		21	3			24
RICHMOND		2			1	3
RISSEN		3				3
ROODEPOORT		1				1

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

REGION=Pacific

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
RUBISLAW		3				3
SAINTPAUL	1	66	1	13	4	85
SANDIEGO		11				11
SAPHRA		27			2	29
SCHWARZENGRUND		18	4	10		32
SENFTENBERG		66	3	1	3	73
SINGAPORE		2				2
SINSTORF		1				1
SOERENGA		1				1
STANLEY		30	4	3	10	47
SUBSPECIES I	1					1
SUBSPECIES III					1	1
SUBSPECIES IIIB	1			1	2	4
SUBSPECIES IV				2		2
SUNDSVALL		24	1	3	8	36
SYDNEY		1				1
TAKSONY				1		1
TALLAHASSEE		1				1
TELELKEBIR		3			1	4
TENNESSEE		8	1		1	10

(Continued)

TABLE 4
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE, GEOGRAPHIC REGION AND STATE, 1997

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

	STATE					
	Alaska	California	Hawaii	Oregon	Washington	TOTAL
SEROTYPE						
THOMPSON		93	1	7	23	124
TYPHI		91	9	2	5	107
TYPHIMURIUM	12	918	68	122	267	1387
TYPHIMURIUM VAR COPE		409				409
UGANDA		5	1		1	7
UNKNOWN		62	1		9	72
URBANA		5	1	2	1	9
VIRCHOW		6			5	11
VIRGINIA		1				1
WANDSWORTH		1				1
WASSENAAR		5				5
WAYCROSS		1	1			2
WELTEVREDEN		8	85		2	95
WESTHAMPTON					1	1
WIDEMARSH		1				1
WORTHINGTON		10		1	1	12
ZANZIBAR		2				2
TOTAL	39	5736	365	401	719	7260

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
AARHUS		8			3		2	1	2	16
ABAETETUBA	3		2		1		1		1	8
ABERDEEN		1			1				1	3
ABONY								1	2	3
ABORTUSEQUI									1	1
ADELAIDE	5	26	10	2	5		5	3	14	70
AEQUATORIA					1					1
AGAMA					2					2
AGBENI			1	1		1				3
AGO							1			1
AGONA	30	134	143	126	50	11	66	26	154	740
AGOUEVE		2			1					3
AJIOBO	1				1					2
ALABAMA					1	1				2
ALACHUA	1	1	2	1	4		1	3	5	18
ALBANY		5	4	1	2			2	7	21
ALTONA			1							1
AMAGER	1	1	2						4	8
AMSTERDAM		2	1		2			2	2	9
ANATUM	11	17	37	35	25	4	26	6	47	208

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
ANECHO			1		1					2
APAPA			1					1		2
AQUA									1	1
ARAGUA					1					1
ARECHAVALETA				2	1		3		3	9
ARKANSAS					1					1
AUGUSTENBORG			1	1						2
BAHRENFELD					1					1
BAILDON	1	2	1		1					5
BANANA				1						1
BARDO	1			6					3	10
BAREILLY	6	11	17	8	22	12	13	5	18	112
BERE					8					8
BERTA	1	23	20	1	18	3	1	2	18	87
BIRKENHEAD								3	4	7
BISPEBJERG					1					1
BLEGDAM				1				2	1	4
BLOCKLEY	5	16	14		5	1	6	5	10	62
BLUKWA		1								1
BONARIENSIS	2								1	3

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
BOVISMORBIFICANS	5	2	15		5	3			17	47
BRADFORD				1	2					3
BRAENDERUP	25	85	61	57	160	14	59	15	83	559
BRANDENBURG	12	40	34	10	34	14	3	3	17	167
BRAZIL									1	1
BRAZOS								1		1
BREDENEY	3	1	10	3	8	1	4	4	17	51
BRISTOL								1		1
BRONX		2								2
BUKAVU						1				1
BUZU	3				1			1		5
CALIFORNIA	1							8		9
CANNSTATT				1						1
CARACAS	1				2					3
CARRAU		2		1	3					6
CERRO	2	2	2	2	6	1	6	2	37	60
CHAILEY	1	1	3		3				4	12
CHAMELEON	1	1	2	1	1				1	7
CHESTER	1	12	5	2	2		9	1	4	36
CHINGOLA					1					1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
CHOLERAESUIS	4	7	7	2	2				3	25
CHOLERAESUIS VAR KUN	4	1	1	3	3		2	1	9	24
CLACKAMAS									3	3
COELN			3					1		4
COLINDALE					1					1
COLORADO					1					1
CONCORD								2		2
CORVALLIS									1	1
CREMIEU							1			1
CUBANA	2	9	7	2	3	1	1	4	7	36
DAYTONA					1	1			4	6
DENVER			2					1		3
DERBY	6	9	20	11	23	5	6	40	32	152
DESSAU					1					1
DIGUEL					1		1			2
DJUGU		1	1							2
DOULASSAME	1									1
DRYPOOL	1							6		7
DUBLIN		7	8	1	2	1	2	10	30	61
DUESSELDORF		1	3						2	6

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
DURBAN	1		2		2	1			2	8
DURHAM				1					1	2
DUVAL					1					1
EALING		2	1	1		1			3	8
EASTBOURNE		1		1					1	3
EMEK	3	2		1			1			7
ENTEBBE		3			1					4
ENTERITIDIS	573	2064	1613	294	693	97	210	490	1890	7924
ENUGU		1								1
ESCANABA		1		1	1					3
ESSEN	1	2								3
ETTERBEEK					1					1
FALKENSEE				1						1
FALLOWFIELD		3								3
FARMSEN	3		3							6
FLINT	1	3	3		31			1	4	43
FLORIDA		1			9	1				11
FRIEDENAU		1								1
FULICA									1	1
GALIL						1				1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
GAMBIA					2					2
GAMINARA	2		3	4	11	1	22		4	47
GIVE	3	8	16	11	7	3	27	1	42	118
GLOSTRUP		2		1	2					5
GLOUCESTER	1				1					2
GOETEBORG				1						1
GOETTINGEN		1								1
GOLDCOAST	1									1
GROUP 51					1					1
GROUP 53					1				2	3
GROUP 56									1	1
GROUP 58		1			1				1	3
GROUP 59		1								1
GROUP 60				1					2	3
GROUP 61		1	1	1					3	6
GROUP 65	2		1			1			2	6
GROUP A									1	1
GROUP B	24	50	68	61	86	29	42	36	111	507
GROUP C1	4	8	20	8	27	5	10	10	11	103
GROUP C2	2	1	3	3	44	1	6	2	2	64

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
GROUP D1	3	4	17	3	62	4	3	16	4	116
GROUP D2					1	1				2
GROUP E1	1	1		1	4		1	3	2	13
GROUP E2	1				1			2		4
GROUP E4					1			1		2
GROUP F					1		1			2
GROUP G	1			1	1	1	2	2		8
GROUP I	1	1			1			1	1	5
GROUP K					1			1		2
GROUP L									1	1
GROUP M		2								2
GROUP O		1			1					2
GROUP P			3		1					4
GROUP Q					1					1
GROUP S			2	1	1			1		5
GROUP T									1	1
GROUP U				1						1
GROUP V		1	6	3	14	4		2	3	33
GROUP W	1	1	4		1				3	10
GROUP X	1		2		4	1			1	9

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
GROUP Y	2	1	2		3	1		1	1	11
GROUP Z		2	4		2	2		1	2	13
HAARDT		2							3	5
HADAR	50	156	112	34	120	12	18	35	106	643
HAGENBECK				1						1
HAIFA									4	4
HAMBURG				1						1
HARBURG					1					1
HARTFORD	10	10	38	3	25	5	11	1	7	110
HATFIELD					1					1
HAVANA	1	10	3	3	4	2	2	5	17	47
HEIDELBERG	172	406	260	119	468	104	66	79	430	2104
HERON		1								1
HIDALGO									1	1
HINDMARSH	1									1
HOLCOMB		1	1							2
HOUTEN									1	1
HVITTINGFOSS		6	2	2	4		5	3	4	26
IBADAN	2	1	1		26		12			42
IDIKAN	1		1	2						4

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
ILALA					1					1
INDIANA		2	1	1	1	2		1	3	11
INFANTIS	26	57	76	117	79	30	71	28	167	651
INVERNESS		1	1	3	5		16			26
IRUMU	2	3	1	2	1			2	2	13
ISANGI	1									1
ISTANBUL		1							7	8
ITAMI	1								1	2
ITURI	1									1
IV 44:Z4,Z23:-		1	1		2					4
JAJA					1					1
JAMAICA					2					2
JANGWANI		2	1						1	4
JAVA	5	33	75	18	32	11	2	5	3	184
JAVIANA	17	73	86	25	240	30	127	32	45	675
JEDBURGH									1	1
JOHANNESBURG		2	13	5	10	4	3		7	44
JUBILEE					1					1
KANIFING				1						1
KENTUCKY	2	39	3		3		1	4	8	60

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
KIAMBU					2		1	5	6	14
KINGABWA	2									2
KINGSTON	2				1					3
KINONDONI		1								1
KINSHASA	1	2	2				1			6
KINTAMBO	1	2	5	1	1			1	3	14
KIRKEE						1				1
KISARAWE									2	2
KOKOMLEMLE			2						1	3
KOTTBUS	1	2	2	1		1		2	2	11
KRALENDYK		1						2	1	4
KREFELD									1	1
KUA		1								1
LAGOS									1	1
LANDAU		1								1
LAROCHELLE							1			1
LEXINGTON									1	1
LILLE						1		1	1	3
LIMBE			1							1
LIMETE		5			1					6

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
LINDENBURG					2		1			3
LITCHFIELD	11	12	12	10	19	1	8	8	24	105
LIVERPOOL		1	1						1	3
LIVINGSTONE								4	2	6
LOANDA	1									1
LOMALINDA	2	1	1		1	1		1	5	12
LOME		1			1					2
LOMITA								3		3
LONDON	1	9	6	3	5		2		7	33
LUCIANA					1	1	1			3
MADELIA		1	1		1	1	3			7
MAGWA			1							1
MAIDUGURI				1						1
MANHATTAN	3	23	41	6	5	3			18	99
MARINA	2	6	9	2	11		1	3	2	36
MARYLAND			1							1
MATADI	3	1			3		1		1	9
MBANDAKA	8	31	30	26	25	7	5	24	33	189
MELEAGRIDIS	3	2	5	5	1			6	21	43
MEMPHIS			1							1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
MENDOZA					1					1
MENHADEN									1	1
MENSTON					1					1
MIAMI	5	7	30	2	17		2	13		76
MIKAWASIMA		1					1			2
MINNESOTA		1	1	1	1		4		18	26
MISSISSIPPI	3	10	8	3	72	41	67		1	205
MOLADE			1							1
MONSCHAUI		3		1	2	1		1	2	10
MONTEVIDEO	28	82	85	47	72	16	75	45	268	718
MOUNTPLEASANT									1	1
MPOUTO					1					1
MUENCHEN	41	53	59	27	142	42	49	27	103	543
MUENSTER	4	11	9	8	2	3	5	3	28	73
NAGOYA					1					1
NARASHINO								1		1
NESSZIONA	3	1								4
NEWBRUNSWICK	1	1	3	1			1	5	14	26
NEWHAW									1	1
NEWINGTON			2		2		1	10	5	20

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
NEWMEXICO			1							1
NEWPORT	57	127	115	121	427	72	397	99	169	1584
NEWROCHELLE		1								1
NEWYORK		3			1					4
NIMA									1	1
NOLA				1						1
NORWICH	1	1	6	17	5	12	5	6	3	56
NOTTINGHAM		1			3		1			5
OCHSENZOLL		2								2
OHIO	3	24	16	2	13	1	9	9	23	100
ORANIENBURG	35	51	84	30	56	15	62	110	180	623
ORION			2	1						3
OSLO	2	5	3	1	1			2	11	25
OTHMARSCHEN	3							3		6
OVERSCHIE	1		1		1					3
PAKISTAN	1	1						1	1	4
PANAMA	14	29	19	10	11	2	16	16	27	144
PAPUANA								1		1
PARATYPHI A	5	20	9	1	5		4	12	16	72
PARATYPHI B	12	22	9	3	7		33	9	64	159

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
PARATYPHI C		1								1
PARERA	1		1							2
PENSACOLA	1	3				3				7
PHOENIX	1						2		2	5
PLANCKENDAEL							1			1
POMONA	2	8	4		6	1	1	3	18	43
POONA	23	49	41	16	27	16	29	45	47	293
PORTSMOUTH		2	1						1	4
POTSDAM		2		1					7	10
PULLORUM								1		1
PUTTEN		2			2				1	5
QUINIELA							1			1
READING	16	87	13	9	7	4		7	24	167
REDLANDS		1								1
RICHMOND	1	1	1		1				3	7
RISSEN		1		2	2			1	3	9
ROMANBY		3	1							4
ROODEPOORT									1	1
RUBISLAW	2	7	7	5	33	1	22	1	3	81
SAINTPAUL	41	75	57	31	56	9	26	56	85	436

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
SANDIEGO	3	11	13	2	12		3	4	11	59
SAPHRA	1			1			10		29	41
SCHLEISSHEIM					1	5				6
SCHOENEBERG					1					1
SCHWARZENGRUND	11	26	15	5	43	3	4	5	32	144
SENFTENBERG	5	33	23	7	10		9	20	73	180
SEREMBAN				1						1
SHAMBA					1					1
SHUBRA	1		1					1		3
SINGAPORE					1				2	3
SINSTORF		3	1	1	1			1	1	8
SOAHANINA					1					1
SOERENGA									1	1
SOMONE		1					2			3
STACHUS		1			2					3
STANLEY	6	28	31	13	9	6	11	13	47	164
STANLEYVILLE		20	1		2					23
STELLINGEN			1			2				3
SUBERU				1						1
SUBSPECIES I	3	9	1		5	1	2		1	22

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
SUBSPECIES II					1	1	6			8
SUBSPECIES III				1	1		1		1	4
SUBSPECIES IIIA			1	3		1		2		7
SUBSPECIES IIIA/IIIB			4	4	4		4	1		17
SUBSPECIES IIIB			1	1	1	3			4	10
SUBSPECIES IV	2	4	1	6	3	3	1		2	22
SUNDSVALL		2	2		4	1		2	36	47
SYDNEY									1	1
TAKORADI	1			1	3					5
TAKSONY									1	1
TALLAHASSEE	3	5		1	2	1	1	4	1	18
TAMBACOUNDA		1								1
TELELKEBIR		2	4		2				4	12
TENNESSEE		2	6	6	3	1		3	10	31
THOMASVILLE		1					1			2
THOMPSON	106	141	95	33	140	11	20	25	124	695
TILENE					1		1			2
TOOWONG		1								1
TRACHAU				1						1
TRAVIS					1					1

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
TUCSON							2	1		3
TUINDORP					1		1			2
TYPHI	20	94	43	8	43	3	21	10	107	349
TYPHIMURIUM	459	1365	1335	606	1621	335	569	612	1387	8289
TYPHIMURIUM VAR COPE	137	163	17	58		28		15	409	827
TYPHISUIS			2		1					3
UCCLE					2	1		1		4
UGANDA	4	6	12	3	7	5		7	7	51
ULLEVI					1					1
UNKNOWN	11	67	40	11	70	23	55	33	72	382
URBANA	7	18	7	6	4	2	1	3	9	57
VEJLE			1					1		2
VICTORIA				1				1		2
VILVOORDE			1							1
VIRCHOW	12	21	12	4	3		4	4	11	71
VIRGINIA		1							1	2
WANDSWORTH		1	1			2			1	5
WANGATA			1							1
WARAL			1							1
WASHINGTON		3								3

(Continued)

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1997

	REGION									
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
SEROTYPE										
WASSENAAR	1	1	4	1	1	1			5	14
WAYCROSS					2				2	4
WAYNE					1					1
WELIKADE	1									1
WELTEVREDEN	2	1	3		4			1	95	106
WESTHAMPTON		1			1		2		1	5
WIDEMARSH		1							1	2
WILLEMSTAD								1		1
WORTHINGTON		7	3	5	13	1	6	1	12	48
ZANZIBAR									2	2
TOTAL	2209	6254	5286	2208	5563	1126	2454	2248	7260	34608

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
ABAETETUBA										2	2
ABERDEEN										1	1
ADELAIDE	1	1	1							35	38
AGONA	76	129	197	44		2	9			195	652
ALACHUA	8	5	3	2						12	30
ALBANY	4						3			13	20
ALEXANDERPLATZ									1		1
AMAGER	1										1
AMSTERDAM				1					1	1	3
ANATUM	29	49	344	86		3	7			238	756
APAPA										1	1
AQUA										2	2
ARECHAVALETA										1	1
ARKANSAS	12	3	1	1			8			6	31
BAHRENFELD										1	1
BANANA							1			4	5
BARDO	1		1	1						6	9
BAREILLY	1	2		2		1	1		1	5	13
BASEL										1	1
BERE							1			1	2
BERKELEY									1		1

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
BERN										1	1
BERTA	6	12	2	1						118	139
BIETRI	3	12					9			2	26
BINZA	3	7					1			19	30
BLIJDORP									2		2
BONAIRE										2	2
BOVISMORBIFICANS	1			9		1				10	21
BRAENDERUP	78	2		7					3	20	110
BRANDENBURG	6	42	19	9						67	143
BREDENEY	19	369	10	10		2	2			51	463
BRUNEI	1										1
BUDAPEST										1	1
BUZU										2	2
CARRAU				1							1
CERRO	14	9	4	53	1	1	8		1	26	117
CHAILEY			2							12	14
CHAMELEON						1				65	66
CHARITY										3	3
CHESTER		4								1	5
CHICAGO			1								1
CHOLERAESUIS			46	1							47

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
CHOLERAESUIS VAR KUN	1	1	302	3						42	349
CUBANA	8	14	3	1			9			17	52
DERBY	3	41	206	9			1			410	670
DRYPOOL	2		1	5			1				9
DUBLIN				603			1		1	10	615
EALING							1		1	1	3
EASTBOURNE										1	1
ELISABETHVILLE						1					1
ENTERITIDIS	364	1	11	20	1	1				166	564
FANN										1	1
FLINT									1	1	2
FLORIDA										1	1
FLUNTERN									1		1
FRESNO									1	1	2
GAMINARA	4	1		1						13	19
GAROLI										1	1
GERA		2					4				6
GIVE	3	3	2	52		1				34	95
GLOSTRUP										1	1
GODESBERG										1	1
GROUP 61						2					2

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
GROUP B										1	1
GROUP C2										1	1
GROUP H									1		1
GROUP K	1	1									2
GROUP Z									1		1
HAARDT	1									3	4
HADAR	78	242	2	10						299	631
HAGENBECK										2	2
HARTFORD		1		6				1		10	18
HATO				1							1
HAVANA	7	14	21	9		2	4		1	10	68
HEIDELBERG	905	210	166	21		2	2			610	1916
HIDALGO										1	1
HINDMARSH				1							1
HOLCOMB										8	8
HOUTEN									5	3	8
HVITTINGFOSS										2	2
IDIKAN										1	1
INDIANA	3	2	1	1						19	26
INFANTIS	99	27	92	14		3	2		2	150	389
INVERNESS				1						6	7

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
ISTANBUL	5	11								23	39
ITURI										1	1
JANGWANI										1	1
JAVA				8	1			2	3	8	22
JAVIANA	3	26								15	44
JOHANNESBURG	7	25	5	1			12			123	173
KEDOUGOU										1	1
KENTUCKY	326	56	43	53						461	939
KIAMBU	6			2						4	12
KINGABWA									1		1
KINSHASA				3						3	6
KISARAWE									4	4	8
KRALENDYK										5	5
KRALINGEN										1	1
KREFELD		2	2							4	8
LEOBEN									1		1
LILLE	29	4		2						12	47
LISBOA									1		1
LITCHFIELD	11	2		5						16	34
LIVINGSTONE	14	3					4			10	31
LOHBRUEGGE									1		1

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
LOMALINDA										2	2
LOME									3		3
LONDON		2	29	5						40	76
MADELIA										1	1
MAKOMA										3	3
MANHATTAN			2	1						17	20
MANILA										3	3
MARICOPA				1							1
MARINA			1	1				1	2	25	30
MATADI										5	5
MBANDAKA	127	32	303	50		1	4			82	599
MELEAGRIDIS	4	2	1	42		2	1			36	88
MENHADEN										2	2
MIAMI										1	1
MINNEAPOLIS							1				1
MINNESOTA	1	3	11	3			2			13	33
MISSISSIPPI										1	1
MOLADE	2			1	1				1		5
MONTEVIDEO	55	106	6	66		3	37	1	1	175	450
MUENCHEN	6	7	10	22		2			4	84	135
MUENSTER	10	112	6	50	2	1				153	334

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
MUNDSBURG										1	1
NEWBRUNSWICK		3	2	12					1	34	52
NEWHAW		1		1						4	6
NEWINGTON	2	1	3	28						14	48
NEWPORT	3	4	11	28	1	2			8	91	148
NIMA									1		1
NORWICH	1	1								6	8
NYANZA										2	2
OHIO	34	66	8	6		1	1			81	197
ORANIENBURG	13	18	16	22			4		4	37	114
ORION	2	3	2	2						5	14
OSLO										1	1
OUAKAM										6	6
PANAMA				1					3	4	8
PARERA									1	3	4
PLYMOUTH										1	1
POANO									1		1
POMONA	4			2					2	11	19
POONA		1		1						18	20
PULLORUM	3									3	6
PUTTEN		6	1				1			4	12

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
READING		85	1	3					1	104	194
REDLANDS								1			1
ROWBARTON										2	2
RUBISLAW	1			6		2		3		34	46
SAINTPAUL	3	96	6	1					1	112	219
SANDIEGO				1					2	5	8
SANJUAN										8	8
SCHWARZENGRUND	40	48	4	7	1		8			164	272
SEMINOLE									2	1	3
SENEGAL										1	1
SENFTENBERG	90	337	12	5		1	10			193	648
SHUBRA			1							4	5
SOAHANINA										6	6
STANLEY										2	2
SUNDSVALL										8	8
TAKSONY	7	3	1	1						7	19
TALLAHASSEE	1	1								5	7
TAUNTON									1		1
TENNESSEE	6	10		2		1	4			13	36
TEXAS						1					1
THOMASVILLE	1	8		1			2				12

(Continued)

TABLE 6
CLINICAL SALMONELLA ISOLATIONS FROM NONHUMAN SOURCES
REPORTED TO CDC AND USDA BY SEROTYPE AND SOURCE, 1997

	NONHUMAN SOURCE										
	CHICKEN INCLUDING EGGS	TURKEY	PORCINE	BOVINE	EQUINE	OTHER DOMESTIC ANIMAL / ENVIRONMENT	FEED AND FEED SUPPLY	OTHER BIRD/WILD ANIMAL	REPTILE / ENVIRONMENT	ALL OTHER	TOTAL
SEROTYPE											
THOMPSON	24	1	1	24	11					99	160
TILENE								1		3	4
TOGBA										1	1
TREFOREST									1		1
TUINDORP									1	2	3
TYPHIMURIUM	114	84	229	676	4	16	3	1	4	559	1690
TYPHIMURIUM VAR COPE	40	137	538	769	1	26	3	7	5	501	2027
TYPHISUIS			1								1
UGANDA	2	22	4	16		1				25	70
UPHILL									1		1
URBANA		9	1				5		2	5	22
UZARAMO										1	1
VIRGINIA	1			1						3	5
WANDSBEK										1	1
WASSENAAR									1	1	2
WELTEVREDEN			1					1		1	3
WORTHINGTON	15	47	103	3			5			76	249
TOTAL	2756	2591	2803	2921	24	83	182	19	90	6360	17829