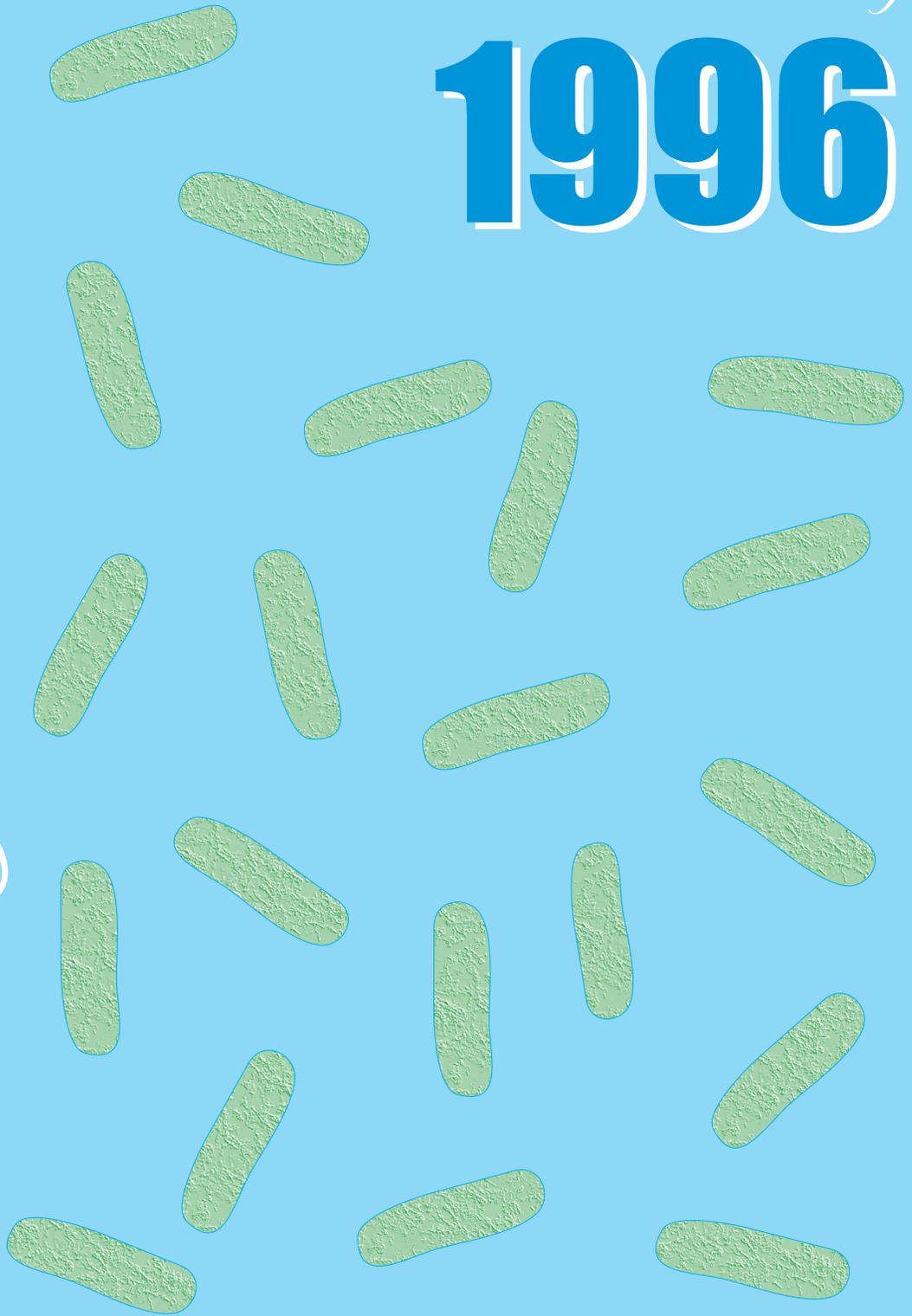


*Annual Summary*

**1996**

# Shigella



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



# Laboratory-Confirmed *Shigella* Surveillance Annual Summary, 1996

The Annual Summary contains surveillance data on reported laboratory-confirmed *Shigella* isolates in the United States. The National *Shigella* Surveillance System collects reports of isolates of *Shigella* from every state in the United States. This information is reported electronically through the Public Health Laboratory Information System (PHLIS) by the State Public Health Laboratory Directors and State and Territorial Epidemiologists to the Foodborne and Diarrheal Diseases Branch (FDDDB) and the Biostatistics and Information Management Branch (BIMB) of the Division of Bacterial and Mycotic Diseases in the National Center for Infectious Diseases.

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

The capture of isolates in the National *Shigella* Surveillance System is considered to be consistent. However, some *Shigella* isolates may not be forwarded or reported to state public health laboratories and therefore are not captured. In addition, irrespective of the surveillance system, many cases of *Shigella* illness are not reported because the ill person does not seek medical care, the health-care provider does not obtain a specimen for diagnosis or the laboratory does not perform culture for *Shigella*. The results of surveillance reported herein are therefore substantial underestimates of the true number of infections.

The number of isolates reported by state represents the state where laboratory confirmation and subtyping were 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 the Annual Summaries, duplicate records are deleted.

There are 4 major subgroups and 43 recognized serotypes of *Shigella*, shown in Table A below.

Table A. Subgroups, Serotypes and Subtypes of *Shigella*

Subgroups	Serotypes and Subtypes
Group A: <i>Shigella dysenteriae</i>	15 serotypes (type 1 produces Shiga toxin)
Group B: <i>Shigella flexneri</i>	8 serotypes and 9 subtypes
Group C: <i>Shigella boydii</i>	19 serotypes
Group D: <i>Shigella sonnei</i>	1 serotype

These subgroups and serotypes are differentiated from one another by their biochemical traits (such as ability to ferment mannitol) and antigenic properties (Table B).

Table B. Classification of *Shigella* subgroups.

Species	Group	Serotypes	Carbohydrate fermentation		
			Glucose	Mannitol	Lactose
<i>S. dysenteriae</i>	A	15	+	-	-
<i>S. flexneri</i>	B	8	+	+	-
<i>S. boydii</i>	C	19	+	+	-
<i>S. sonnei</i>	D	1	+	+	Late

Since there are no recognized environmental or animal reservoirs for *Shigella*, except higher primates, the isolates reported herein are all from infected humans.

This report can be viewed online at [www.cdc.gov/ncidod/dbmd/phlisdata/](http://www.cdc.gov/ncidod/dbmd/phlisdata/). Further information concerning 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 Surveillance Outbreak Detection Algorithm (SODA), developed by BIMB and FDDB, is a statistical algorithm based on the National Surveillance Data. It is designed to detect unusual clusters of *Salmonella* and *Shigella* infection. SODA compares current *Salmonella* and *Shigella* isolates reported through PHLIS by subgroup or serotype with a 5 year historical baseline for that subgroup or serotype for the specified time period 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  
SHIGELLA SUBGROUPS REPORTED TO THE CDC  
FOR 1996

RANK	SPECIES	NUMBER	PERCENT
1	SONNEI	10262	72.9
2	FLEXNERI	2704	19.2
3	BOYDII	275	2.0
4	DYSENTERIAE	103	0.7
		-----	-----
	SUBTOTAL	13344	94.8
	UNKNOWN	727	5.2
		-----	-----
	TOTAL	14071	100.0

TABLE 2

NUMBER OF REPORTED ISOLATES OF SHIGELLA  
SEROTYPES FOR 1996

RANK	SEROTYPE	NUMBER	PERCENT
1	SONNEI	10262	72.9
2	FLEXNERI UNSPECIFIED	1350	9.6
3	FLEXNERI 2 UNSPECIFIED	401	2.8
4	FLEXNERI 1 UNSPECIFIED	303	2.2
5	FLEXNERI 3 UNSPECIFIED	255	1.8
6	BOYDII UNSPECIFIED	127	0.9
7	FLEXNERI 4 UNSPECIFIED	124	0.9
8	FLEXNERI 6	119	0.8
9	BOYDII 2	82	0.6
10	DYSENTERIAE UNSPECIFIED	55	0.4
11	FLEXNERI 5 UNSPECIFIED	39	0.3
12	FLEXNERI 2A	31	0.2
13	FLEXNERI 3A	26	0.2
14	BOYDII 1	22	0.2
15	DYSENTERIAE 3	17	0.1
16	FLEXNERI 4A	17	0.1
17	DYSENTERIAE 2	16	0.1
18	FLEXNERI 3B	16	0.1
19	BOYDII 4	14	0.1
20	BOYDII 14	13	0.1
21	BOYDII 10	10	0.1
22	FLEXNERI 1B	7	0.0
23	FLEXNERI 2B	7	0.0
24	DYSENTERIAE 9	5	0.0
25	DYSENTERIAE 1	4	0.0
26	FLEXNERI 1A	4	0.0
27	DYSENTERIAE 4	3	0.0
28	BOYDII 11	2	0.0
29	BOYDII 12	2	0.0
30	DYSENTERIAE 11	2	0.0
31	FLEXNERI 3C	2	0.0
32	FLEXNERI VARIANT Y	2	0.0
33	BOYDII 13	1	0.0
34	BOYDII 5	1	0.0
35	BOYDII 6	1	0.0
36	DYSENTERIAE 5	1	0.0
37	FLEXNERI 4B	1	0.0
	UNKNOWN	727	5.2
	TOTAL	14071	100.0

TABLE 3

AGE AND SEX OF PERSONS FROM WHOM ISOLATES  
OF SHIGELLA WERE REPORTED FOR 1996

	SEX			TOTAL
	FEMALE	MALE	UNKNOWN	
AGEGROUP				
< 1 YR	143	147	44	334
1 TO 4 YRS	1334	1404	152	2890
5 TO 9 YRS	1070	933	61	2064
10 TO 19 YRS	476	389	30	895
20 TO 29 YRS	795	366	46	1207
30 TO 39 YRS	594	386	40	1020
40 TO 49 YRS	237	204	15	456
50 TO 59 YRS	126	93	5	224
60 TO 69 YRS	74	59	5	138
70 TO 79 YRS	62	38	1	101
80+ YEARS	30	12	5	47
UNKNOWN AGE	359	241	4095	4695
TOTAL	5300	4272	4499	14071

TABLE 3A

AGE AND SEX OF PERSONS FROM WHOM ISOLATES  
OF BOYDII WERE REPORTED FOR 1996

AGEGROUP	SEX			TOTAL
	FEMALE	MALE	UNKNOWN	
< 1 YR	1	4	.	5
1 TO 4 YRS	24	22	5	51
5 TO 9 YRS	15	9	1	25
10 TO 19 YRS	9	7	.	16
20 TO 29 YRS	14	4	.	18
30 TO 39 YRS	13	7	.	20
40 TO 49 YRS	2	1	.	3
50 TO 59 YRS	4	7	.	11
60 TO 69 YRS	1	2	.	3
70 TO 79 YRS	2	1	.	3
UNKNOWN AGE	6	4	110	120
TOTAL	91	68	116	275

TABLE 3B

AGE AND SEX OF PERSONS FROM WHOM ISOLATES  
OF DYSENTERIAE WERE REPORTED FOR 1996

	SEX			TOTAL
	FEMALE	MALE	UNKNOWN	
AGEGROUP				
< 1 YR	1	.	.	1
1 TO 4 YRS	5	2	.	7
5 TO 9 YRS	4	4	.	8
10 TO 19 YRS	.	3	.	3
20 TO 29 YRS	12	2	2	16
30 TO 39 YRS	5	3	.	8
40 TO 49 YRS	2	3	.	5
50 TO 59 YRS	2	1	.	3
60 TO 69 YRS	.	2	.	2
70 TO 79 YRS	.	1	.	1
80+ YEARS	3	.	.	3
UNKNOWN AGE	3	1	42	46
TOTAL	37	22	44	103

TABLE 3C

AGE AND SEX OF PERSONS FROM WHOM ISOLATES  
OF FLEXNERI WERE REPORTED FOR 1996

	SEX			TOTAL
	FEMALE	MALE	UNKNOWN	
AGEGROUP				
< 1 YR	25	24	2	51
1 TO 4 YRS	184	166	13	363
5 TO 9 YRS	91	77	5	173
10 TO 19 YRS	46	50	1	97
20 TO 29 YRS	79	112	11	202
30 TO 39 YRS	102	143	12	257
40 TO 49 YRS	46	66	4	116
50 TO 59 YRS	28	31	3	62
60 TO 69 YRS	18	14	2	34
70 TO 79 YRS	22	16	.	38
80+ YEARS	6	4	.	10
UNKNOWN AGE	58	55	1188	1301
TOTAL	705	758	1241	2704

TABLE 3D

AGE AND SEX OF PERSONS FROM WHOM ISOLATES  
OF SONNEI WERE REPORTED FOR 1996

	SEX			TOTAL
	FEMALE	MALE	UNKNOWN	
AGEGROUP				
< 1 YR	115	115	42	272
1 TO 4 YRS	1109	1197	133	2439
5 TO 9 YRS	939	830	55	1824
10 TO 19 YRS	417	327	29	773
20 TO 29 YRS	679	246	33	958
30 TO 39 YRS	469	230	28	727
40 TO 49 YRS	184	132	11	327
50 TO 59 YRS	91	52	2	145
60 TO 69 YRS	55	41	3	99
70 TO 79 YRS	36	20	1	57
80+ YEARS	19	8	5	32
UNKNOWN AGE	289	179	2141	2609
TOTAL	4402	3377	2483	10262

TABLE 3E

AGE AND SEX OF PERSONS FROM WHOM ISOLATES  
OF UNKNOWN WERE REPORTED FOR 1996

AGEGROUP	SEX			TOTAL
	FEMALE	MALE	UNKNOWN	
< 1 YR	1	4	.	5
1 TO 4 YRS	12	17	1	30
5 TO 9 YRS	21	13	.	34
10 TO 19 YRS	4	2	.	6
20 TO 29 YRS	11	2	.	13
30 TO 39 YRS	5	3	.	8
40 TO 49 YRS	3	2	.	5
50 TO 59 YRS	1	2	.	3
70 TO 79 YRS	2	.	.	2
80+ YEARS	2	.	.	2
UNKNOWN AGE	3	2	614	619
TOTAL	65	47	615	727

TABLE 4

MEDIAN AGE OF PERSONS FROM WHOM ISOLATES OF SHIGELLA WERE REPORTED  
BY SUBGROUP FOR 1982-1996

SUBGROUP	YEAR														
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
BOYDII	14	23	23	15	8	22	22	24	10	21	18	20	20	15	10
DYSENTERIAE	25	22	20	25	29	29	29	29	20	20	26	29	26	30	26
FLEXNERI	12	20	21	24	22	22	23	23	19	19	19	18	19	18	22
SONNEI	8	7	8	8	8	7	8	8	8	9	8	7	8	8	8
UNKNOWN	10	12	10	9	9	9	7	9	8	9	11	8	7	7	8

\*\* MEDIAN CALCULATION EXCLUDES CALIFORNIA ISOLATES  
AGE INFORMATION UNAVAILABLE FOR CALIFORNIA

TABLE 5

NUMBER OF REPORTED SHIGELLA ISOLATES BY RESIDENCE  
FOR 1982-1996

RESIDENCE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
PRIVATE HOME	2868	3003	1401	1952	1530	1490	1574	1533	1501	3344	854	1489	920	815	342	24616	
INSTITUTION	51	40	16	32	103	13	9	8	1	.	3	35	6	14	5	336	
INDIAN RESERVATION	64	54	67	44	85	108	448	525	345	89	42	56	111	376	253	2667	
OTHER	1247	1024	916	792	872	396	174	70	49	97	37	38	35	28	95	5870	
UNKNOWN	9307	10836	10315	9056	9682	14757	20131	13836	15410	12975	13987	17893	17711	18097	13376	207369	
TOTAL	13537	14957	12715	11876	12272	16764	22336	15972	17306	16505	14923	19511	18783	19330	14071	240858	

TABLE 5A

NUMBER OF REPORTED S. BOYDII ISOLATES BY RESIDENCE  
FOR 1982-1996

RESIDENCE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
PRIVATE HOME	31	23	19	19	24	25	28	27	30	29	10	10	12	12	5	304	
INSTITUTION	.	.	1	.	.	.	1	.	.	.	.	.	1	1	.	4	
INDIAN RESERVATION	.	.	.	.	2	2	.	.	.	.	.	.	.	5	33	42	
OTHER	18	16	14	13	19	1	1	.	.	2	.	.	1	.	.	85	
UNKNOWN	245	377	352	326	328	328	442	439	368	281	214	211	193	211	237	4552	
TOTAL	294	416	386	358	373	356	472	466	398	312	224	221	207	229	275	4987	

TABLE 5B  
 NUMBER OF REPORTED S. DYSENTERIAE ISOLATES BY RESIDENCE  
 FOR 1982-1996

RESIDENCE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
PRIVATE HOME	15	16	12	10	7	12	23	14	17	16	7	3	2	2	7	163	
INSTITUTION	.	.	1	.	.	1	.	.	.	.	.	.	.	.	.	2	
INDIAN RESERVATION	.	.	.	.	.	.	.	.	.	1	.	.	.	.	4	5	
OTHER	7	11	12	10	7	3	1	.	.	.	.	.	.	.	2	53	
UNKNOWN	109	158	154	189	104	216	187	202	164	128	119	102	92	88	90	2102	
TOTAL	131	185	179	209	118	232	211	216	181	145	126	105	94	90	103	2325	

TABLE 5C  
 NUMBER OF REPORTED S. FLEXNERI ISOLATES BY RESIDENCE  
 FOR 1982-1996

RESIDENCE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
PRIVATE HOME	601	660	361	312	333	324	325	326	311	270	195	209	236	148	61	4672	
INSTITUTION	16	1	4	1	8	3	1	.	.	.	.	1	.	2	1	38	
INDIAN RESERVATION	36	20	42	39	80	85	108	97	93	43	30	44	61	104	115	997	
OTHER	318	277	223	191	171	78	28	8	7	16	1	1	16	9	12	1356	
UNKNOWN	3202	3266	3122	2990	2975	3270	3876	3251	3620	3383	3024	2806	2788	2756	2515	46844	
TOTAL	4173	4224	3752	3533	3567	3760	4338	3682	4031	3712	3250	3061	3101	3019	2704	53907	

TABLE 5D

NUMBER OF REPORTED *S. SONNEI* ISOLATES BY RESIDENCE  
FOR 1982-1996

RESIDENCE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
PRIVATE HOME	2183	2207	961	1575	1117	1070	1167	1146	1126	2955	639	1246	667	648	268	18975	
INSTITUTION	35	39	10	31	84	9	7	8	1	.	3	34	4	11	4	280	
INDIAN RESERVATION	25	34	24	5	2	20	248	407	248	45	12	12	50	267	101	1500	
OTHER	903	716	667	560	670	307	144	62	42	78	36	37	18	18	81	4339	
UNKNOWN	5088	6279	6128	4904	5432	9876	13462	8619	9699	7656	9416	13010	11707	13867	9808	134951	
TOTAL	8234	9275	7790	7075	7305	11282	15028	10242	11116	10734	10106	14339	12446	14811	10262	160045	

TABLE 5E

NUMBER OF REPORTED SHIGELLA ISOLATES WITH UNKNOWN SEROGROUP  
BY RESIDENCE FOR 1982-1996

RESIDENCE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
PRIVATE HOME	38	97	48	36	49	59	31	20	17	74	3	21	3	5	1	502	
INSTITUTION	.	.	.	.	11	.	.	.	.	.	.	.	1	.	.	12	
INDIAN RESERVATION	3	.	1	.	1	1	92	21	4	.	.	.	.	.	.	123	
OTHER	1	4	.	18	5	7	.	.	.	1	.	.	.	1	.	37	
UNKNOWN	663	756	559	647	843	1067	2164	1325	1559	1527	1214	1764	2931	1175	726	18920	
TOTAL	705	857	608	701	909	1134	2287	1366	1580	1602	1217	1785	2935	1181	727	19594	

TABLE 6

## NUMBER OF REPORTED SHIGELLA ISOLATES BY MONTH FOR 1996

SEROTYPE	MONTH												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BOYDII	5	6	4	4	5	9	15	19	17	22	16	5	127
BOYDII 1	.	.	3	2	2	1	3	4	4	2	1	.	22
BOYDII 2	5	2	4	.	5	9	17	15	11	8	3	3	82
BOYDII 4	3	.	.	.	.	.	4	3	.	1	1	2	14
BOYDII 5	.	.	.	.	.	.	.	.	.	.	1	.	1
BOYDII 6	.	.	.	.	.	.	1	.	.	.	.	.	1
BOYDII 10	.	1	.	.	.	.	2	1	2	2	.	2	10
BOYDII 11	.	.	.	.	.	.	1	.	.	.	1	.	2
BOYDII 12	.	.	.	.	.	.	.	.	1	1	.	.	2
BOYDII 13	.	.	.	.	.	.	.	.	.	1	.	.	1
BOYDII 14	.	.	.	2	2	.	1	2	1	3	1	1	13
DYSENTERIAE	3	1	4	2	4	3	7	6	8	4	7	6	55
DYSENTERIAE 1	2	.	.	.	.	.	.	1	1	.	.	.	4
DYSENTERIAE 2	3	.	.	1	.	3	2	.	2	4	1	.	16
DYSENTERIAE 3	.	1	1	.	3	.	5	1	3	2	1	.	17
DYSENTERIAE 4	.	.	.	.	.	.	.	2	.	1	.	.	3
DYSENTERIAE 5	.	.	.	.	.	.	.	.	1	.	.	.	1
DYSENTERIAE 9	.	.	.	2	1	.	.	1	.	.	.	1	5
DYSENTERIAE 11	.	.	.	.	.	.	1	.	.	1	.	.	2
FLEXNERI	94	112	93	100	70	99	108	162	155	141	131	85	1350
FLEXNERI 1 UNSPECIFIED	40	14	13	22	29	31	32	33	31	25	17	16	303
FLEXNERI 1A	.	.	.	.	.	.	.	.	2	1	.	1	4
FLEXNERI 1B	2	2	.	1	.	.	2	.	.	.	.	.	7
FLEXNERI 2 UNSPECIFIED	34	36	18	47	39	37	26	45	36	29	23	31	401
FLEXNERI 2A	3	3	1	4	4	2	6	6	1	.	1	.	31
FLEXNERI 2B	3	.	2	.	.	.	.	.	1	.	.	1	7
FLEXNERI 3 UNSPECIFIED	16	19	8	22	15	12	55	25	27	23	19	14	255
FLEXNERI 3A	2	1	3	1	1	3	6	2	3	3	1	.	26
FLEXNERI 3B	1	.	7	1	.	2	1	2	.	1	1	.	16
FLEXNERI 3C	1	.	.	.	1	.	.	.	.	.	.	.	2

(Continued)

TABLE 6

## NUMBER OF REPORTED SHIGELLA ISOLATES BY MONTH FOR 1996

SEROTYPE	MONTH												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
FLEXNERI 4 UNSPECIFIED	10	9	7	10	7	10	11	15	16	12	13	4	124
FLEXNERI 4A	3	4	1	.	4	1	1	1	.	.	2	.	17
FLEXNERI 4B	.	.	.	.	.	.	.	.	1	.	.	.	1
FLEXNERI 5 UNSPECIFIED	3	1	4	2	2	12	5	3	3	1	2	1	39
FLEXNERI 6	6	6	9	4	3	10	16	17	18	11	10	9	119
FLEXNERI VARIANT Y	.	.	.	.	1	.	.	.	.	.	1	.	2
SONNEI	754	676	682	679	908	1001	1144	1106	857	980	861	614	10262
UNKNOWN	64	53	56	45	39	36	41	105	92	71	73	52	727
TOTAL	1057	947	920	951	1145	1281	1513	1577	1294	1350	1188	848	14071

TABLE 7  
NUMBER OF REPORTED SHIGELLA ISOLATES BY MONTH FOR 1982-1996

SEROTYPE	MONTH												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BOYDII	180	171	154	118	178	224	302	378	416	431	323	269	3144
BOYDII 1	5	9	10	12	15	7	18	22	22	21	11	15	167
BOYDII 2	59	39	44	57	75	85	108	136	146	94	76	57	976
BOYDII 3	2	1	1	2	4	1	.	.	1	.	1	.	13
BOYDII 4	16	6	11	15	12	20	27	37	34	18	19	11	226
BOYDII 5	4	6	3	4	6	4	3	7	8	5	4	1	55
BOYDII 6	.	.	.	.	.	1	4	2	1	1	.	.	9
BOYDII 7	1	2	.	1	.	.	1	3	1	1	.	1	11
BOYDII 8	.	.	1	.	1	1	.	2	1	1	1	2	10
BOYDII 9	.	.	1	1	2	.	.	1	2	4	2	.	13
BOYDII 10	6	5	3	5	10	11	23	29	18	18	7	14	149
BOYDII 11	.	.	1	1	1	.	2	1	2	1	1	1	11
BOYDII 12	1	1	1	.	2	.	.	4	3	2	.	1	15
BOYDII 13	1	.	.	.	.	.	.	1	.	1	.	.	3
BOYDII 14	8	6	5	11	13	12	25	28	17	17	11	12	165
BOYDII 15	.	.	1	.	.	.	.	1	1	.	.	.	3
BOYDII 16	.	.	.	1	.	.	.	.	.	.	.	.	1
BOYDII 17	.	.	.	.	.	1	.	.	.	.	.	.	1
BOYDII 18	2	.	.	2	3	.	.	1	1	2	2	2	15
DYSENTERIAE	98	87	91	110	80	109	133	162	229	198	225	107	1629
DYSENTERIAE 1	9	5	7	11	9	4	14	22	10	22	2	17	132
DYSENTERIAE 2	19	30	15	20	19	27	36	31	32	27	22	14	292
DYSENTERIAE 3	6	5	9	6	17	12	19	32	28	10	14	11	169
DYSENTERIAE 4	3	6	2	2	2	3	3	7	4	6	2	3	43
DYSENTERIAE 5	.	.	.	.	1	.	.	.	2	.	.	.	3
DYSENTERIAE 6	.	.	.	.	1	.	2	1	1	.	.	.	5
DYSENTERIAE 7	.	1	.	1	2	2	.	1	1	1	.	.	9
DYSENTERIAE 8	.	1	.	.	1	.	1	.	.	.	1	.	4
DYSENTERIAE 9	1	1	.	2	6	2	4	3	1	3	4	3	30
DYSENTERIAE 10	.	.	.	.	.	.	.	.	.	.	1	.	1

(Continued)

TABLE 7  
NUMBER OF REPORTED SHIGELLA ISOLATES BY MONTH FOR 1982-1996

SEROTYPE	MONTH												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
DYSENTERIAE 11	.	.	.	.	.	.	1	1	.	1	.	.	3
DYSENTERIAE 12	.	.	.	.	.	.	1	1	.	1	.	.	3
DYSENTERIAE 13	.	.	.	.	.	.	1	.	1	.	.	.	2
FLEXNERI	2120	2113	2357	2180	2214	2178	2757	3228	3442	3292	2722	2737	31340
FLEXNERI 1 UNSPECIFIED	320	294	316	281	348	358	447	502	521	529	362	319	4597
FLEXNERI 1A	54	61	71	69	65	62	73	97	96	74	58	47	827
FLEXNERI 1B	61	72	65	54	55	91	89	202	189	104	90	75	1147
FLEXNERI 2 UNSPECIFIED	381	361	351	360	459	413	503	585	509	437	356	367	5082
FLEXNERI 2A	153	164	177	177	179	183	253	295	244	191	143	139	2298
FLEXNERI 2B	30	33	37	20	18	31	26	42	50	37	34	21	379
FLEXNERI 3 UNSPECIFIED	172	166	167	200	215	168	283	241	236	241	182	196	2467
FLEXNERI 3A	80	97	95	75	87	91	131	127	149	102	79	79	1192
FLEXNERI 3B	8	7	18	8	7	11	13	23	6	9	9	8	127
FLEXNERI 3C	4	7	5	11	8	6	14	5	5	5	5	2	77
FLEXNERI 4 UNSPECIFIED	128	92	110	128	143	140	166	183	181	139	123	126	1659
FLEXNERI 4A	34	43	47	64	49	44	53	65	53	59	46	45	602
FLEXNERI 4B	5	2	2	4	6	7	9	2	6	2	3	2	50
FLEXNERI 5 UNSPECIFIED	23	17	23	17	26	45	36	30	39	26	18	23	323
FLEXNERI 6	112	93	103	114	102	125	211	202	232	173	165	96	1728
FLEXNERI VARIANT X	.	.	1	.	.	.	.	.	.	1	.	.	2
FLEXNERI VARIANT Y	3	.	2	.	1	.	.	1	1	.	1	1	10
SONNEI	9331	8019	8825	8573	9795	11464	14560	20365	20117	19327	15933	13736	160045
UNKNOWN	1101	1021	1090	1152	1448	1452	1811	2151	2373	2211	1875	1909	19594
TOTAL	14541	13044	14222	13869	15685	17395	22163	29260	29432	27845	22933	20469	240858

TABLE 8

NUMBER OF REPORTED SHIGELLA ISOLATES BY REGION  
FOR 1982-1996

REGION	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
NEW ENGLAND	1226	543	354	861	729	645	651	546	646	1757	555	520	414	586	373	10406	
MID-ATLANTIC	1226	2050	1094	1607	1263	2331	1179	1310	1595	1263	1071	1215	1562	1758	2240	22764	
EAST NORTH CENTRAL	1484	1881	1863	1494	1550	3816	3597	2673	2096	1643	2154	2816	1970	2105	1190	32332	
WEST NORTH CENTRAL	402	530	495	387	330	671	1151	1359	630	403	589	828	1368	1391	699	11233	
SOUTH ATLANTIC	1084	990	997	683	686	1425	2562	2568	1894	1565	1727	2860	4790	2181	1912	27924	
EAST SOUTH CENTRAL	131	155	114	188	60	219	683	482	799	915	305	768	1023	802	334	6978	
WEST SOUTH CENTRAL	1776	1619	1263	1218	1611	1671	2535	1408	1832	1409	1453	2943	1771	1944	1225	25678	
MOUNTAIN	1356	1525	1150	1223	1137	1174	1692	1161	1655	2248	1174	1348	1436	2713	1665	22657	
PACIFIC	4852	5664	5385	4215	4906	4812	8286	4465	6159	5302	5895	6213	4449	5850	4433	80886	
TOTAL	13537	14957	12715	11876	12272	16764	22336	15972	17306	16505	14923	19511	18783	19330	14071	240858	

TABLE 8A

NUMBER OF REPORTED *S. SONNEI* ISOLATES BY REGION  
FOR 1982-1996

REGION	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
NEW ENGLAND	1050	383	214	713	596	491	481	358	448	1573	435	428	302	456	264	8192	
MID-ATLANTIC	941	1629	823	1128	772	2030	883	1015	1321	1020	880	985	1325	1527	2048	18327	
EAST NORTH CENTRAL	1099	1470	1458	1110	1123	3279	2685	2061	1443	1176	1671	2440	1707	1773	896	25391	
WEST NORTH CENTRAL	294	414	354	246	147	503	870	1084	446	255	478	698	1166	1281	575	8811	
SOUTH ATLANTIC	750	705	704	450	462	1099	2155	2268	1535	1210	1451	2280	2695	1966	1772	21502	
EAST SOUTH CENTRAL	109	124	103	179	52	136	523	319	513	587	152	341	649	511	232	4530	
WEST SOUTH CENTRAL	1101	1071	767	817	1161	1293	2103	1022	1415	1072	1268	2765	1595	1721	1085	20256	
MOUNTAIN	654	654	575	554	571	470	921	522	1124	1601	722	824	920	2180	1115	13407	
PACIFIC	2236	2825	2792	1878	2421	1981	4407	1593	2871	2240	3049	3578	2087	3396	2275	39629	
TOTAL	8234	9275	7790	7075	7305	11282	15028	10242	11116	10734	10106	14339	12446	14811	10262	160045	

TABLE 8B  
 NUMBER OF REPORTED S. FLEXNERI ISOLATES BY REGION  
 FOR 1982-1996

REGION	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
NEW ENGLAND	139	142	114	128	93	109	127	150	122	94	107	92	106	115	94	1732	
MID-ATLANTIC	271	335	256	377	341	278	257	269	254	227	177	211	213	206	179	3851	
EAST NORTH CENTRAL	342	345	344	326	314	361	422	439	465	339	330	287	238	289	267	5108	
WEST NORTH CENTRAL	82	90	103	108	168	134	156	168	125	115	77	67	121	71	105	1690	
SOUTH ATLANTIC	121	93	102	90	116	154	143	101	156	124	137	173	343	196	122	2171	
EAST SOUTH CENTRAL	19	30	10	8	6	9	8	9	10	8	2	4	18	7	7	155	
WEST SOUTH CENTRAL	618	491	435	346	380	328	376	333	367	280	170	136	141	188	113	4702	
MOUNTAIN	617	774	509	548	496	556	503	472	381	491	371	382	353	464	441	7358	
PACIFIC	1964	1924	1879	1602	1653	1831	2346	1741	2151	2034	1879	1709	1568	1483	1376	27140	
TOTAL	4173	4224	3752	3533	3567	3760	4338	3682	4031	3712	3250	3061	3101	3019	2704	53907	

TABLE 8C

NUMBER OF REPORTED S. BOYDII ISOLATES BY REGION  
FOR 1982-1996

REGION	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
NEW ENGLAND	9	7	10	8	6	14	7	16	17	12	4	.	5	11	6	132	
MID-ATLANTIC	6	8	8	16	16	16	21	17	10	10	6	11	15	12	5	177	
EAST NORTH CENTRAL	17	42	38	35	37	28	64	42	29	20	16	30	19	31	19	467	
WEST NORTH CENTRAL	4	6	4	1	1	2	6	5	5	7	3	.	7	6	3	60	
SOUTH ATLANTIC	10	11	2	3	6	7	5	10	8	8	5	10	27	7	10	129	
EAST SOUTH CENTRAL	1	1	1	.	1	2	2	1	1	.	1	.	.	.	2	13	
WEST SOUTH CENTRAL	49	47	35	33	54	36	39	37	35	44	11	33	24	27	19	523	
MOUNTAIN	46	48	34	66	43	59	52	48	47	30	14	14	18	32	91	642	
PACIFIC	152	246	254	196	209	192	276	290	246	181	164	123	92	103	120	2844	
TOTAL	294	416	386	358	373	356	472	466	398	312	224	221	207	229	275	4987	

TABLE 8D

NUMBER OF REPORTED *S. DYSENTERIAE* ISOLATES BY REGION  
FOR 1982-1996

REGION	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
NEW ENGLAND	9	2	6	5	4	4	12	9	8	6	6	.	.	3	6	80	
MID-ATLANTIC	6	7	7	16	11	7	18	9	9	6	8	2	6	6	6	124	
EAST NORTH CENTRAL	16	22	20	20	7	27	21	23	15	11	21	4	6	11	8	232	
WEST NORTH CENTRAL	3	6	2	3	3	8	8	7	3	1	6	1	2	1	2	56	
SOUTH ATLANTIC	3	15	4	1	2	4	4	2	5	6	4	4	5	2	8	69	
EAST SOUTH CENTRAL	.	.	.	1	1	1	2	.	2	.	1	1	1	.	.	10	
WEST SOUTH CENTRAL	8	8	26	20	13	12	17	15	14	10	2	9	10	5	7	176	
MOUNTAIN	14	20	19	14	9	10	8	25	7	12	5	12	9	6	18	188	
PACIFIC	72	105	95	129	68	159	121	126	118	93	73	72	55	56	48	1390	
TOTAL	131	185	179	209	118	232	211	216	181	145	126	105	94	90	103	2325	

TABLE 8E

NUMBER OF REPORTED SHIGELLA ISOLATES WITH UNKNOWN SEROGROUP  
BY REGION FOR 1982-1996

REGION	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
NEW ENGLAND	19	9	10	7	30	27	24	13	51	72	3	.	1	1	3	270	
MID-ATLANTIC	2	71	.	70	123	.	.	.	1	.	.	6	3	7	2	285	
EAST NORTH CENTRAL	10	2	3	3	69	121	405	108	144	97	116	55	.	1	.	1134	
WEST NORTH CENTRAL	19	14	32	29	11	24	111	95	51	25	25	62	72	32	14	616	
SOUTH ATLANTIC	200	166	185	139	100	161	255	187	190	217	130	393	1720	10	.	4053	
EAST SOUTH CENTRAL	2	.	.	.	.	71	148	153	273	320	149	422	355	284	93	2270	
WEST SOUTH CENTRAL	.	2	.	2	3	2	.	1	1	3	2	.	1	3	1	21	
MOUNTAIN	25	29	13	41	18	79	208	94	96	114	62	116	136	31	.	1062	
PACIFIC	428	564	365	410	555	649	1136	715	773	754	730	731	647	812	614	9883	
TOTAL	705	857	608	701	909	1134	2287	1366	1580	1602	1217	1785	2935	1181	727	19594	

TABLE 9

## NUMBER OF REPORTED SHIGELLA SUBGROUP ISOLATES BY YEAR FOR 1982-1996

SUBGROUP	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
BOYDII	294	416	386	358	373	356	472	466	398	312	224	221	207	229	275	4987	
DYSENTERIAE	131	185	179	209	118	232	211	216	181	145	126	105	94	90	103	2325	
FLEXNERI	4173	4224	3752	3533	3567	3760	4338	3682	4031	3712	3250	3061	3101	3019	2704	53907	
SONNEI	8234	9275	7790	7075	7305	11282	15028	10242	11116	10734	10106	14339	12446	14811	10262	160045	
UNKNOWN	705	857	608	701	909	1134	2287	1366	1580	1602	1217	1785	2935	1181	727	19594	
TOTAL	13537	14957	12715	11876	12272	16764	22336	15972	17306	16505	14923	19511	18783	19330	14071	240858	

TABLE 10  
NUMBER OF REPORTED SHIGELLA ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
ALABAMA	77	111	78	155	50	122	444	332	514	450	160	341	479	383	110	3806	
ALASKA	22	3	11	19	2	5	9	14	7	30	19	21	14	10	59	245	
ARIZONA	463	788	450	599	513	512	365	291	498	577	399	369	401	815	695	7735	
ARKANSAS	22	34	14	22	27	44	94	43	20	91	18	100	61	96	100	786	
CALIFORNIA	4306	5091	4873	3845	4489	4341	7883	4132	5703	4473	5217	5175	3757	5347	3879	72511	
COLORADO	305	230	277	101	158	290	371	411	385	216	364	614	529	485	484	5220	
CONNECTICUT	823	173	101	107	112	203	162	233	192	108	131	212	146	148	121	2972	
DELAWARE	3	.	2	25	1	.	20	60	109	4	7	60	11	125	66	493	
DISTRICT OF COLUMBIA	.	1	.	.	188	240	142	12	59	45	63	26	19	199	200	1194	
FLORIDA	120	85	106	181	64	35	487	500	199	378	263	248	721	319	275	3981	
GEORGIA	325	245	211	196	133	331	657	518	620	532	560	494	2062	176	173	7233	
HAWAII	99	146	166	154	81	82	59	69	60	80	119	89	193	102	86	1585	
IDAHO	80	18	25	5	.	.	.	1	2	.	13	16	30	74	54	318	
ILLINOIS	980	1051	1008	973	1020	2516	1593	883	932	759	910	1142	1030	1215	525	16537	
INDIANA	46	226	247	86	76	296	925	306	350	334	209	173	181	103	71	3629	
IOWA	69	67	98	19	22	108	320	82	47	30	42	45	323	240	115	1627	
KANSAS	79	62	52	63	65	21	52	82	62	56	83	110	57	106	32	982	
KENTUCKY	13	23	29	16	10	2	34	16	11	204	28	45	83	86	45	645	
LOUISIANA	232	192	242	127	279	440	517	325	214	120	87	303	314	378	344	4114	
MAINE	34	9	12	12	6	7	7	9	5	4	9	2	4	.	6	126	
MARYLAND	121	227	152	95	101	428	540	151	147	50	276	262	201	226	447	3424	
MASSACHUSETTS	289	314	197	683	541	324	325	244	341	1387	240	256	209	288	169	5807	

(Continued)

TABLE 10

## NUMBER OF REPORTED SHIGELLA ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
MICHIGAN	167	179	173	261	113	283	473	772	342	193	494	645	329	454	341	5219	
MINNESOTA	64	91	111	175	66	163	349	426	122	80	90	236	467	166	164	2770	
MISSISSIPPI	41	21	7	17	.	95	205	134	274	261	117	382	461	333	179	2527	
MISSOURI	42	227	151	59	45	291	316	213	170	139	273	336	292	609	272	3435	
MONTANA	41	19	15	51	26	42	258	97	46	136	120	12	2	203	28	1096	
NEBRASKA	17	2	1	3	11	3	.	1	5	1	6	1	2	4	4	61	
NEVADA	16	30	4	2	8	6	4	27	8	2	6	3	2	19	13	150	
NEW HAMPSHIRE	13	16	13	28	39	28	54	27	63	40	6	10	10	79	26	452	
NEW JERSEY	458	384	389	358	158	268	216	216	202	226	220	274	388	675	342	4774	
NEW MEXICO	320	327	304	374	300	273	606	254	462	303	164	272	235	408	177	4779	
NEW YORK	291	1197	404	857	723	1785	475	423	770	361	451	453	697	548	305	9740	
NORTH CAROLINA	318	254	315	99	110	88	306	932	555	228	307	1089	1130	593	186	6510	
NORTH DAKOTA	32	7	24	19	19	25	28	193	143	25	13	13	59	126	58	784	
OHIO	129	189	239	114	54	127	128	403	212	97	77	585	276	260	221	3111	
OKLAHOMA	103	70	55	128	127	97	75	93	187	130	97	214	85	132	157	1750	
OREGON	144	70	99	55	46	51	50	51	101	350	144	108	87	113	125	1594	
PENNSYLVANIA	477	469	301	392	382	278	488	671	623	676	400	488	477	535	1593	8250	
RHODE ISLAND	55	23	19	26	25	72	34	28	30	214	163	32	43	65	43	872	
SOUTH CAROLINA	63	53	107	36	14	99	83	112	110	38	68	113	180	115	78	1269	
SOUTH DAKOTA	99	74	58	49	102	60	86	362	81	72	82	87	168	140	54	1574	
TENNESSEE	200	193	167	192	101	321	1002	256	257	193	561	1049	709	440	242	5883	
TEXAS	1219	1130	785	749	1077	769	847	691	1154	875	690	1277	602	898	382	13145	

(Continued)

TABLE 10

## NUMBER OF REPORTED SHIGELLA ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
UTAH	131	105	72	91	132	51	88	80	254	1014	108	54	235	705	212	3332	
VERMONT	12	8	12	5	6	11	69	5	15	4	6	8	2	6	8	177	
VIRGINIA	91	111	99	33	57	169	305	260	74	257	165	530	466	401	456	3474	
WASHINGTON	281	354	236	142	288	333	285	199	288	369	396	820	398	278	284	4951	
WEST VIRGINIA	43	14	5	18	18	35	22	23	21	33	18	38	.	27	31	346	
WISCONSIN	162	236	196	60	287	594	478	309	260	260	464	271	154	73	32	3836	
WYOMING	.	8	3	.	.	.	.	.	.	.	.	8	2	4	2	27	
TOTAL	13537	14957	12715	11876	12272	16764	22336	15972	17306	16505	14923	19511	18783	19330	14071	240858	

TABLE 10A

## NUMBER OF REPORTED S. SONNEI ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
ALABAMA	67	87	69	150	42	69	391	262	365	361	111	200	356	281	103	2914	
ALASKA	3	2	7	16	.	4	6	5	2	26	17	13	10	10	53	174	
ARIZONA	147	288	253	212	169	202	112	73	309	294	166	149	196	523	327	3420	
ARKANSAS	15	28	11	18	23	42	87	38	19	89	16	99	58	96	97	736	
CALIFORNIA	1905	2496	2506	1714	2176	1670	4209	1448	2632	1632	2580	2806	1657	3126	1993	34550	
COLORADO	214	152	145	47	92	124	228	236	255	112	245	444	329	365	394	3382	
CONNECTICUT	795	141	72	81	95	172	132	207	172	93	101	199	117	127	104	2608	
DELAWARE	1	.	1	25	.	.	20	60	108	3	6	58	8	122	66	478	
DISTRICT OF COLUMBIA	.	1	.	.	146	205	109	7	39	20	45	12	4	166	188	942	
FLORIDA	92	63	103	178	58	27	480	495	188	371	252	237	694	305	261	3804	
GEORGIA	135	60	23	43	43	155	392	313	399	293	404	68	149	131	141	2749	
HAWAII	46	83	91	71	44	34	18	24	22	23	46	26	125	44	17	714	
IDAHO	37	8	12	1	.	.	.	.	1	.	10	9	17	72	50	217	
ILLINOIS	726	773	745	674	767	2231	1238	559	567	524	674	910	860	995	339	12582	
INDIANA	35	193	220	75	56	219	545	202	224	238	168	160	161	85	57	2638	
IOWA	45	48	80	7	15	90	200	51	29	18	27	34	263	231	101	1239	
KANSAS	70	44	36	49	54	12	43	73	48	41	73	104	47	100	22	816	
KENTUCKY	9	22	27	15	10	.	33	14	9	200	27	43	76	84	43	612	
LOUISIANA	147	134	195	84	249	407	492	304	195	103	78	288	304	365	329	3674	
MAINE	32	2	5	11	3	5	6	5	3	3	5	2	3	.	.	85	
MARYLAND	85	199	122	65	64	391	516	130	115	35	239	213	134	194	413	2915	
MASSACHUSETTS	181	216	116	592	474	243	223	125	227	1300	176	187	143	206	109	4518	

(Continued)

TABLE 10A  
 NUMBER OF REPORTED S. SONNEI ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
MICHIGAN	128	140	133	224	77	225	422	706	284	142	408	590	287	387	285	4438	
MINNESOTA	42	52	60	122	30	114	305	314	56	42	54	166	385	133	105	1980	
MISSISSIPPI	33	15	7	14	.	67	99	43	139	26	14	98	217	146	86	1004	
MISSOURI	35	217	142	54	33	274	291	187	144	117	264	329	280	599	260	3226	
MONTANA	11	4	3	3	8	19	108	66	14	122	118	11	1	196	27	711	
NEBRASKA	16	2	1	1	5	2	.	1	.	1	5	1	2	4	3	44	
NEVADA	15	25	3	1	6	4	.	21	3	.	4	2	2	13	9	108	
NEW HAMPSHIRE	6	6	4	16	11	10	38	5	29	29	3	7	8	76	21	269	
NEW JERSEY	406	321	329	304	120	223	150	160	155	180	177	222	331	599	285	3962	
NEW MEXICO	154	136	137	242	216	107	434	100	333	184	85	176	175	327	108	2914	
NEW YORK	134	901	241	479	362	1578	313	267	602	231	347	321	557	427	219	6979	
NORTH CAROLINA	284	230	289	71	92	61	276	911	514	200	284	1059	1105	560	164	6100	
NORTH DAKOTA	20	4	20	7	4	11	13	176	135	20	5	5	37	95	47	599	
OHIO	108	168	214	94	42	103	110	377	187	84	68	575	266	246	203	2845	
OKLAHOMA	81	54	27	104	88	78	63	81	176	116	87	209	77	116	147	1504	
OREGON	100	32	58	15	32	26	22	15	59	317	116	53	50	73	59	1027	
PENNSYLVANIA	401	407	253	345	290	229	420	588	564	609	356	442	437	501	1544	7386	
RHODE ISLAND	30	12	11	10	9	53	24	13	14	144	147	27	29	45	24	592	
SOUTH CAROLINA	53	48	99	33	10	93	74	107	100	31	58	111	172	110	75	1174	
SOUTH DAKOTA	66	47	15	6	6	.	18	282	34	16	50	59	152	119	37	907	
TENNESSEE	184	173	156	179	85	304	984	248	248	181	547	1028	692	418	228	5655	
TEXAS	674	682	378	432	716	462	477	351	777	583	540	1141	464	726	284	8687	

(Continued)

TABLE 10A

## NUMBER OF REPORTED S. SONNEI ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
UTAH	76	40	20	48	80	14	39	26	209	889	94	30	200	680	199	2644	
VERMONT	6	6	6	3	4	8	58	3	3	4	3	6	2	2	6	120	
VIRGINIA	81	97	67	23	41	141	274	234	55	232	148	498	429	351	435	3106	
WASHINGTON	182	212	130	62	169	247	152	101	156	242	290	680	245	143	153	3164	
WEST VIRGINIA	19	7	.	12	8	26	14	11	17	25	15	24	.	27	29	234	
WISCONSIN	102	196	146	43	181	501	370	217	181	188	353	205	133	60	12	2888	
WYOMING	.	1	2	.	.	.	.	.	.	.	.	3	.	4	1	11	
TOTAL	8234	9275	7790	7075	7305	11282	15028	10242	11116	10734	10106	14339	12446	14811	10262	160045	

TABLE 10B  
NUMBER OF REPORTED S. FLEXNERI ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
ALABAMA	9	23	8	4	6	6	3	3	6	3	.	2	11	5	7	96	
ALASKA	19	1	4	2	1	1	3	8	2	4	2	6	4	.	6	63	
ARIZONA	293	462	175	337	312	261	208	181	150	259	225	212	197	263	279	3814	
ARKANSAS	6	6	3	3	4	1	6	3	1	1	2	1	2	.	2	41	
CALIFORNIA	1756	1702	1669	1410	1497	1689	2175	1577	1957	1831	1689	1478	1323	1269	1130	24152	
COLORADO	80	66	115	46	57	106	82	96	65	71	52	44	61	87	83	1111	
CONNECTICUT	22	32	24	23	15	24	25	21	17	13	26	13	25	18	15	313	
DELAWARE	1	.	.	.	.	.	.	.	1	1	1	1	2	3	.	10	
DISTRICT OF COLUMBIA	.	.	.	.	20	23	30	4	19	24	18	13	15	28	10	204	
FLORIDA	22	20	3	3	6	7	7	4	9	4	8	9	5	12	10	129	
GEORGIA	16	20	7	17	17	28	13	29	31	27	32	44	198	41	30	550	
HAWAII	52	57	74	82	36	47	41	42	36	57	72	63	68	57	67	851	
IDAHO	38	9	13	4	.	.	.	.	1	.	3	7	13	2	4	94	
ILLINOIS	220	240	230	260	213	253	285	283	340	222	208	204	157	192	167	3474	
INDIANA	11	24	21	10	18	19	25	29	21	24	8	12	17	17	14	270	
IOWA	5	9	14	8	5	11	24	18	8	8	7	5	11	9	13	155	
KANSAS	9	17	15	14	9	6	9	9	12	13	7	6	9	5	9	149	
KENTUCKY	2	1	2	1	.	1	1	2	2	4	.	2	6	2	.	26	
LOUISIANA	82	57	46	40	29	33	22	21	19	16	8	13	10	12	14	422	
MAINE	2	7	7	1	3	2	.	4	.	1	4	.	1	.	6	38	
MARYLAND	29	18	28	30	34	35	23	20	31	11	31	45	61	32	32	460	
MASSACHUSETTS	97	93	72	88	61	73	89	103	95	71	60	69	66	73	50	1160	

(Continued)

TABLE 10B

## NUMBER OF REPORTED S. FLEXNERI ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
MICHIGAN	35	36	37	27	34	53	47	53	50	45	82	51	39	59	54	702	
MINNESOTA	19	27	20	30	27	27	23	32	26	20	20	16	75	28	53	443	
MISSISSIPPI	8	6	.	3	.	2	4	4	2	1	2	.	1	.	.	33	
MISSOURI	5	8	7	5	11	15	21	21	26	18	8	7	10	8	11	181	
MONTANA	11	4	7	14	5	4	7	2	7	9	1	1	1	6	1	80	
NEBRASKA	1	.	.	2	6	1	.	.	5	.	.	.	.	.	1	16	
NEVADA	1	5	.	1	2	2	4	6	4	1	2	.	.	5	.	33	
NEW HAMPSHIRE	4	5	2	3	3	3	4	9	2	2	3	3	2	3	3	51	
NEW JERSEY	45	58	53	51	34	41	58	51	44	43	42	42	49	69	49	729	
NEW MEXICO	150	177	158	114	74	151	165	145	124	110	75	89	52	78	65	1727	
NEW YORK	153	217	156	282	231	192	144	142	155	122	93	125	128	107	81	2328	
NORTH CAROLINA	34	22	25	28	17	25	27	18	39	26	23	30	22	32	20	388	
NORTH DAKOTA	10	3	4	6	15	14	12	16	5	1	3	5	.	.	1	95	
OHIO	21	20	23	16	12	18	15	24	21	10	9	6	5	9	16	225	
OKLAHOMA	22	16	25	22	35	16	11	9	10	11	9	4	5	14	8	217	
OREGON	43	38	33	36	14	17	18	27	39	31	19	47	32	37	61	492	
PENNSYLVANIA	73	60	47	44	76	45	55	76	55	62	42	44	36	30	49	794	
RHODE ISLAND	9	4	6	11	10	5	8	12	3	7	13	5	12	19	18	142	
SOUTH CAROLINA	10	5	8	2	4	6	9	5	10	7	9	1	7	5	3	91	
SOUTH DAKOTA	33	26	43	43	95	60	67	72	43	55	32	28	16	21	17	651	
TENNESSEE	16	17	10	13	11	13	17	6	8	12	14	14	13	21	14	199	
TEXAS	492	395	351	268	301	265	320	294	329	240	137	104	111	141	75	3823	

(Continued)

TABLE 10B

## NUMBER OF REPORTED S. FLEXNERI ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
UTAH	44	47	41	32	46	32	37	42	30	41	13	24	29	23	8	489	
VERMONT	5	1	3	2	1	2	1	1	5	.	1	2	.	2	2	28	
VIRGINIA	9	7	30	8	16	27	30	19	15	24	15	28	33	43	15	319	
WASHINGTON	94	126	99	72	105	77	109	87	117	111	97	115	141	120	112	1582	
WEST VIRGINIA	.	1	1	2	2	3	4	2	1	.	.	2	.	.	2	20	
WISCONSIN	55	25	33	13	37	18	50	50	33	38	23	14	20	12	16	437	
WYOMING	.	4	.	.	.	.	.	.	.	.	.	5	.	.	1	10	
TOTAL	4173	4224	3752	3533	3567	3760	4338	3682	4031	3712	3250	3061	3101	3019	2704	53907	

TABLE 10C

## NUMBER OF REPORTED S. BOYDII ISOLATES BY STATE FOR 1982-1997

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
ALABAMA	.	1	1	.	1	1	1	1	.	.	.	.	.	.	.	6	
ALASKA	.	.	.	1	.	.	.	.	2	.	.	1	.	.	.	4	
ARIZONA	16	24	21	47	30	43	38	30	35	17	6	5	5	22	73	412	
ARKANSAS	1	.	.	.	.	.	1	.	.	.	.	.	.	.	.	2	
CALIFORNIA	147	234	248	185	201	181	258	274	232	171	151	105	81	91	102	2661	
COLORADO	10	9	5	2	6	3	7	11	5	4	3	3	3	5	6	82	
CONNECTICUT	3	.	2	2	1	5	2	1	1	2	2	.	3	3	1	28	
DELAWARE	.	.	.	.	1	.	.	.	.	.	.	1	1	.	.	3	
DISTRICT OF COLUMBIA	.	.	.	.	1	1	1	1	.	1	.	.	.	2	.	7	
FLORIDA	6	2	.	.	.	.	.	1	1	2	.	.	.	.	1	13	
GEORGIA	1	5	.	1	2	2	.	1	2	2	1	2	19	.	1	39	
HAWAII	.	2	.	1	1	1	.	1	.	.	1	.	.	1	1	9	
IDAHO	3	1	.	.	.	.	.	.	.	.	.	.	.	.	.	4	
ILLINOIS	14	27	22	23	35	19	54	27	15	9	9	26	10	18	15	323	
INDIANA	.	7	4	1	.	2	1	2	2	3	.	.	2	1	.	25	
IOWA	1	.	1	1	.	.	1	1	1	.	1	.	1	.	1	9	
KANSAS	.	1	.	.	.	2	.	.	2	2	.	.	1	1	.	9	
KENTUCKY	1	.	.	.	.	.	.	.	.	.	1	.	.	.	2	4	
LOUISIANA	3	1	.	2	1	.	2	.	.	1	.	2	.	1	1	14	
MAINE	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	1	
MARYLAND	3	1	.	.	1	2	.	.	1	2	2	4	3	.	2	21	
MASSACHUSETTS	4	3	7	2	4	7	5	11	14	10	2	.	.	6	4	79	

(Continued)

TABLE 10C  
NUMBER OF REPORTED S. BOYDII ISOLATES BY STATE FOR 1982-1997

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
MICHIGAN	2	3	2	7	2	1	1	5	5	3	2	3	2	7	1	46	
MINNESOTA	.	3	1	.	.	.	5	1	2	1	1	.	3	4	2	23	
MISSISSIPPI	.	.	.	.	.	1	1	.	1	.	.	.	.	.	.	3	
MISSOURI	2	1	2	.	.	.	.	2	.	3	1	.	2	1	.	14	
MONTANA	.	.	.	.	1	.	.	.	1	.	.	.	.	.	.	2	
NEVADA	.	.	1	.	.	.	.	.	1	1	.	.	.	1	4	8	
NEW HAMPSHIRE	.	2	.	3	.	.	.	1	.	.	.	.	.	.	.	6	
NEW JERSEY	3	4	4	1	2	2	7	3	3	1	.	3	5	3	3	44	
NEW MEXICO	11	12	6	14	6	11	5	5	4	7	4	6	6	3	3	103	
NEW YORK	1	3	3	14	2	10	12	11	6	4	6	6	7	7	2	94	
NORTH CAROLINA	.	1	1	.	1	.	3	.	.	1	.	.	2	1	1	11	
NORTH DAKOTA	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
OHIO	.	1	2	2	.	1	1	1	3	3	.	1	4	4	1	24	
OKLAHOMA	.	.	2	.	3	3	.	1	1	.	.	1	3	1	.	15	
OREGON	.	.	2	3	.	4	1	6	2	1	6	7	3	2	3	40	
PENNSYLVANIA	2	1	1	1	12	4	2	3	1	5	.	2	3	2	.	39	
RHODE ISLAND	2	1	.	1	.	2	.	2	1	.	.	.	2	1	1	13	
SOUTH CAROLINA	.	.	.	.	.	.	.	.	.	.	1	1	.	.	.	2	
SOUTH DAKOTA	.	1	.	.	1	.	.	1	.	1	.	.	.	.	.	4	
TENNESSEE	.	1	.	.	4	1	.	1	1	.	.	4	1	.	.	13	
TEXAS	45	45	33	31	46	32	36	35	33	43	11	26	20	25	18	479	
UTAH	6	2	1	3	.	2	2	2	1	1	1	.	3	1	5	30	

(Continued)

TABLE 10C

## NUMBER OF REPORTED S. BOYDII ISOLATES BY STATE FOR 1982-1997

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
VERMONT	.	1	1	.	1	.	.	1	.	.	.	.	.	1	.	5	
VIRGINIA	.	2	1	2	.	1	1	7	3	.	1	2	2	4	5	31	
WASHINGTON	5	10	4	6	7	6	17	9	10	9	6	10	8	9	14	130	
WEST VIRGINIA	.	.	.	.	.	1	.	.	1	.	.	.	.	.	.	2	
WISCONSIN	1	4	8	2	.	5	7	7	4	2	5	.	1	1	2	49	
WYOMING	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	
TOTAL	294	416	386	358	373	356	472	466	398	312	224	221	207	229	275	4987	

TABLE 10D  
NUMBER OF REPORTED S. DYSENTERIAE ISOLATES BY STATE FOR 1982-1996

STATE	YEAR													TOTAL		
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994		1995	1996
ALABAMA	.	.	.	1	1	.	2	.	2	.	1	1	.	.	.	8
ALASKA	.	.	.	.	1	.	.	1	.	.	.	1	.	.	.	3
ARIZONA	6	14	1	3	2	6	.	7	4	6	2	3	3	4	16	77
ARKANSAS	.	.	.	.	.	.	.	1	.	.	.	.	1	.	1	3
CALIFORNIA	71	99	91	127	62	152	114	120	110	86	69	65	51	50	40	1307
COLORADO	1	3	12	5	3	4	6	10	1	3	2	7	2	2	1	62
CONNECTICUT	2	.	3	1	.	1	3	4	2	.	2	.	.	.	1	19
DELAWARE	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
DISTRICT OF COLUMBIA	.	.	.	.	.	.	.	.	1	.	.	.	.	.	2	3
FLORIDA	.	.	.	.	.	1	.	.	1	1	2	1	.	.	3	9
GEORGIA	.	1	1	.	1	1	3	1	.	1	.	2	3	.	1	15
HAWAII	1	1	1	.	.	.	.	1	2	.	.	.	.	.	1	7
ILLINOIS	12	9	8	13	5	11	15	14	8	4	18	2	3	10	4	136
INDIANA	.	2	2	.	2	1	.	2	1	2	2	1	1	.	.	16
IOWA	2	2	.	.	.	1	.	.	.	.	.	.	.	.	.	5
KANSAS	.	.	1	.	2	1	.	.	.	.	3	.	.	.	1	8
KENTUCKY	.	.	.	.	.	1	.	.	.	.	.	.	1	.	.	2
LOUISIANA	.	.	1	1	.	.	1	.	.	.	.	.	.	.	.	3
MAINE	.	.	.	.	.	.	1	.	1	.	.	.	.	.	.	2
MARYLAND	1	8	2	.	1	.	1	1	.	2	2	.	.	.	.	18
MASSACHUSETTS	7	2	2	1	2	1	8	5	5	6	2	.	.	2	5	48
MICHIGAN	2	.	1	3	.	3	2	5	3	3	.	1	1	1	1	26

(Continued)

TABLE 10D

## NUMBER OF REPORTED S. DYSENTERIAE ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
MINNESOTA	1	4	1	3	1	4	2	3	2	.	.	1	2	1	1	26	
MISSOURI	.	.	.	.	.	2	4	3	.	1	.	.	.	.	.	10	
MONTANA	1	.	.	.	.	.	.	1	.	.	1	.	.	.	.	3	
NEBRASKA	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	1	
NEVADA	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	1	
NEW HAMPSHIRE	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	1	
NEW JERSEY	4	1	3	2	1	2	1	2	.	2	1	2	1	.	5	27	
NEW MEXICO	5	2	3	4	4	.	2	4	1	2	.	1	2	.	1	31	
NEW YORK	1	5	4	13	6	5	6	3	6	4	5	.	4	4	1	67	
NORTH CAROLINA	.	1	.	.	.	2	.	.	2	1	.	.	.	.	1	7	
NORTH DAKOTA	.	.	.	.	.	.	1	1	.	.	2	.	.	.	.	4	
OHIO	.	.	.	2	.	3	2	1	.	.	.	.	1	.	1	10	
OKLAHOMA	.	.	1	2	1	.	1	2	.	2	1	.	.	.	1	11	
OREGON	.	.	1	.	.	4	.	2	1	.	1	1	2	1	2	15	
PENNSYLVANIA	1	1	.	1	4	.	11	4	3	.	2	.	1	2	.	30	
RHODE ISLAND	.	.	.	3	2	2	.	.	.	.	2	.	.	.	.	9	
SOUTH CAROLINA	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	
SOUTH DAKOTA	.	.	.	.	.	.	1	.	1	.	.	.	.	.	.	2	
TENNESSEE	.	1	1	.	.	3	1	1	.	.	.	3	2	.	.	12	
TEXAS	8	7	23	17	12	9	14	11	14	8	1	6	7	5	5	147	
UTAH	1	.	2	2	.	.	.	3	1	1	.	.	1	.	.	11	
VERMONT	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	

(Continued)

TABLE 10D

NUMBER OF REPORTED *S. DYSENTERIAE* ISOLATES BY STATE FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
VIRGINIA	1	5	1	.	.	.	.	.	1	1	.	1	2	2	1	15	
WASHINGTON	.	5	2	2	5	3	7	2	5	7	3	5	2	5	5	58	
WISCONSIN	2	11	9	2	.	9	2	1	3	2	1	.	.	.	2	44	
WYOMING	.	1	1	.	.	.	.	.	.	.	.	.	1	.	.	3	
TOTAL	131	185	179	209	118	232	211	216	181	145	126	105	94	90	103	2325	

TABLE 10E

## NUMBER OF REPORTED SHIGELLA ISOLATES WITH UNKNOWN SEROGROUP FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
ALABAMA	1	.	.	.	.	46	47	66	141	86	48	138	112	97	.	782	
ALASKA	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	1	
ARIZONA	1	.	.	.	.	.	7	.	.	1	.	.	.	3	.	12	
ARKANSAS	.	.	.	1	.	1	.	1	.	1	.	.	.	.	.	4	
CALIFORNIA	427	560	359	409	553	649	1127	713	772	753	728	721	645	811	614	9841	
COLORADO	.	.	.	1	.	53	48	58	59	26	62	116	134	26	.	583	
CONNECTICUT	1	.	.	.	1	1	.	.	.	.	.	.	1	.	.	4	
DELAWARE	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	1	
DISTRICT OF COLUMBIA	.	.	.	.	21	11	2	.	.	.	.	1	.	3	.	38	
FLORIDA	.	.	.	.	.	.	.	.	.	.	1	1	22	2	.	26	
GEORGIA	173	159	180	135	70	145	249	174	188	209	123	378	1693	4	.	3880	
HAWAII	.	3	.	.	.	.	.	1	.	.	.	.	.	.	.	4	
IDAHO	2	.	.	.	.	.	.	1	.	.	.	.	.	.	.	3	
ILLINOIS	8	2	3	3	.	2	1	.	2	.	1	.	.	.	.	22	
INDIANA	.	.	.	.	.	55	354	71	102	67	31	.	.	.	.	680	
IOWA	16	8	3	3	2	6	95	12	9	4	7	6	48	.	.	219	
KENTUCKY	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
LOUISIANA	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	1	
MARYLAND	3	1	.	.	1	.	.	.	.	.	2	.	3	.	.	10	
MASSACHUSETTS	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	2	
MICHIGAN	.	.	.	.	.	1	1	3	.	.	2	.	.	.	.	7	
MINNESOTA	2	5	29	20	8	18	14	76	36	17	15	53	2	.	3	298	

(Continued)

TABLE 10E  
 NUMBER OF REPORTED SHIGELLA ISOLATES WITH UNKNOWN SEROGROUP FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
MISSISSIPPI	.	.	.	.	.	25	101	87	132	234	101	284	243	187	93	1487	
MISSOURI	.	1	.	.	1	.	.	.	.	.	.	.	.	1	1	4	
MONTANA	18	11	5	34	12	19	143	28	24	5	.	.	.	1	.	300	
NEW HAMPSHIRE	3	3	6	6	25	15	12	12	32	9	.	.	.	.	2	125	
NEW JERSEY	.	.	.	.	1	.	.	.	.	.	.	5	2	4	.	12	
NEW MEXICO	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	4	
NEW YORK	2	71	.	69	122	.	.	.	1	.	.	1	1	3	2	272	
NORTH CAROLINA	.	.	.	.	.	.	.	3	.	.	.	.	1	.	.	4	
NORTH DAKOTA	1	.	.	6	.	.	2	.	3	4	3	3	22	31	10	85	
OHIO	.	.	.	.	.	2	.	.	1	.	.	3	.	1	.	7	
OKLAHOMA	.	.	.	.	.	.	.	.	.	1	.	.	.	1	1	3	
OREGON	1	.	5	1	.	.	9	1	.	1	2	.	.	.	.	20	
PENNSYLVANIA	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	
RHODE ISLAND	14	6	2	1	4	10	2	1	12	63	1	.	.	.	.	116	
SOUTH CAROLINA	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	
SOUTH DAKOTA	.	.	.	.	.	.	.	7	3	.	.	.	.	.	.	10	
TENNESSEE	.	1	.	.	1	.	.	.	.	.	.	.	1	1	.	4	
TEXAS	.	1	.	1	2	1	.	.	1	1	1	.	.	1	.	9	
UTAH	4	16	8	6	6	3	10	7	13	82	.	.	2	1	.	158	
VERMONT	1	.	2	.	.	1	10	.	7	.	2	.	.	.	.	23	
VIRGINIA	.	.	.	.	.	.	.	.	.	.	1	1	.	1	.	3	
WASHINGTON	.	1	1	.	2	.	.	.	.	.	.	10	2	1	.	17	

(Continued)

TABLE 10E

NUMBER OF REPORTED SHIGELLA ISOLATES WITH UNKNOWN SEROGROUP FOR 1982-1996

STATE	YEAR																TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		
WEST VIRGINIA	24	6	4	4	8	5	4	10	2	8	3	12	.	.	.	90	
WISCONSIN	2	.	.	.	69	61	49	34	39	30	82	52	.	.	.	418	
WYOMING	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	2	
TOTAL	705	857	608	701	909	1134	2287	1366	1580	1602	1217	1785	2935	1181	727	19594	