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First, Second, and Third Quarters 1973
issued February 1974

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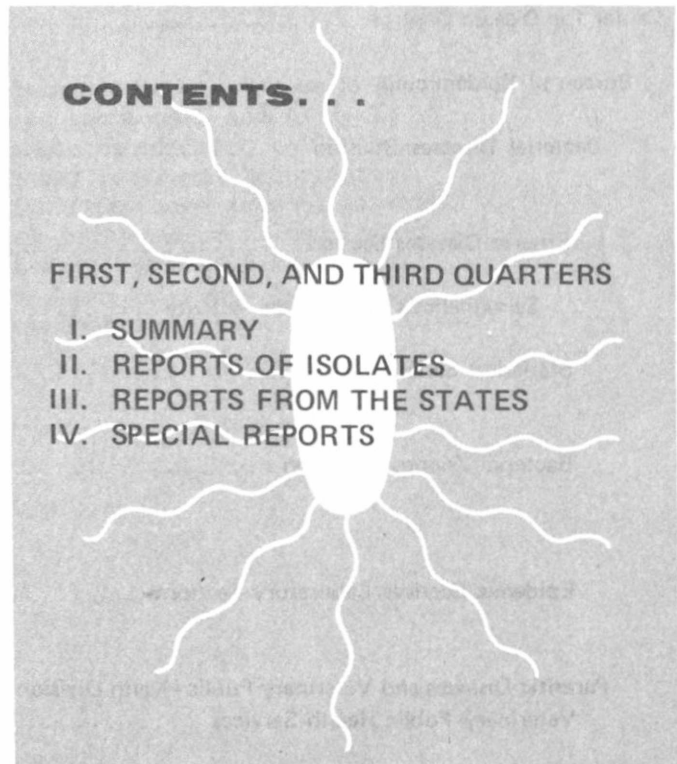
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CENTER FOR DISEASE CONTROL

SALMONELLA

SURVEILLANCE



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE/PUBLIC HEALTH SERVICE

PREFACE

Summarized in this report is information received from state and city health departments, university and hospital laboratories, the U.S. Food and Drug Administration, and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address:

Center for Disease Control
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SUGGESTED CITATION

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*Through June 1973

First Quarter
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NOTE

The data contained in the tables and summarized in sections I and II deal only with isolates reported to CDC by state and other reference laboratories. Extrapolation from these data to aspects of the total incidence of salmonellosis in the United States should be made only with caution, and reference to the data should be appropriately qualified.

I. SUMMARY

In the first quarter of 1973, 4,805 isolations of salmonella were reported from humans, an average of 370 isolations per week (Tables I, II, and V-A). This number represents a decrease of 157 (29.8%) from the weekly average during the fourth quarter of 1973 and a decrease of 21 (5.4%) from the weekly average for the first quarter of 1972. The average number of human isolations reported per week for each month and for the quarter are provided below for the last 3 years.

	<u>1971</u>	<u>1972</u>	<u>1973</u>
January	505	448	369
February	371	362	375
March	378	364	366
First quarter	415	391	370

Reports of 389 nonhuman isolates of salmonella were received during the first quarter of 1973 (Tables III, IV, and V-B).

II. REPORTS OF ISOLATIONS

The 10 most frequently reported serotypes during the first quarter:

HUMAN				NONHUMAN		
Serotype	Number	Percent	Rank last quarter	Serotype	Number	Percent
<u>typhimurium*</u>	1,446	30.1	1	<u>typhimurium*</u>	78	20.1
<u>newport</u>	301	6.3	2	<u>senftenberg</u>	32	8.2
<u>infantis</u>	275	5.7	3	<u>manhattan</u>	20	5.1
<u>enteritidis</u>	268	5.6	4	<u>oranienburg</u>	18	4.6
<u>heidelberg</u>	230	4.8	5	<u>litchfield</u>	16	4.1
<u>saint-paul</u>	210	4.4	6	<u>derby</u>	15	3.9
<u>derby</u>	141	2.9	10	<u>heidelberg</u>	15	3.9
<u>agona</u>	132	2.7	8	<u>agona</u>	14	3.6
<u>typhi</u>	129	2.7	11	<u>newport</u>	14	3.6
<u>panama</u>	109	2.3	20	<u>binza</u>	11	2.8
Total	3,241	67.5		Total	233	59.9
TOTAL (all serotypes)	4,805	100.0		TOTAL (all serotypes)	389	100.0
*Includes var. <u>copenhagen</u>	29	0.6		*Includes var. <u>copenhagen</u>	3	0.7

III. REPORTS FROM THE STATES

A. Reports of Salmonella Outbreaks Received During the First Quarter, 1973

This table lists investigated outbreaks of salmonellosis reported to CDC from various sources. Definitions of cases and of numbers at risk are not uniform from report to report. This listing should be considered neither comprehensive nor representative of all outbreaks in the United States, as most outbreaks are probably not reported to CDC.

State	Outbreak	Location	Serotype	Number			Deaths	Mode of transmission	Comments	
				Ill	At risk	With positive cultures				
West Virginia	May	Oceana	<u>Salmonella B</u>	2	?	?	?	?fat back		
Kansas	September	Topeka	<u>S. infantis</u>	32	100	32	0	0	not determined	Outbreak in state hospital for mentally retarded children.
Wisconsin	"	Clyman	<u>S. typhimurium</u>	20	75	8	2	0	?raw hamburger	Tavern outbreak.
"	"	Lake Mills	<u>S. typhimurium</u>	≥3	?	4	?	?	?raw hamburger	
Washington	September-February	Colville	<u>S. typhimurium</u>	16	?	≥11	16	0	?person to person	Pediatric ward outbreak.
"	November	Seattle	<u>S. heidelberg</u>	1	2	2	0	0	?raw pork sausage	Family outbreak.
California	December	North Hollywood	<u>S. schwarzengrund</u>	≥1	6	6	?	0	not determined	Family outbreak.
Rhode Island	"	Providence	<u>S. godesberg</u>	11	?	2	11	1	not determined	Nursery outbreak.
Maryland	December-January	Carroll Co.	<u>S. typhimurium</u>	8	?	8	8	1	not determined	Nosocomial outbreak.
Washington	December-January		<u>S. derby</u> , <u>S. eimsbuettel</u> , <u>S. montevideo</u> , <u>S. saint-paul</u>	87	100	7	?	?	not determined	Outbreak among tourists returning from Mexico. Multiple serotypes, <u>Shigella flexneri</u> 6 recovered.
Pennsylvania	January	Harrisburg	<u>S. agona</u>	5	?	7	5	0	?person to person	Pediatric intensive care unit outbreak.
Virginia	"	Martinsville	<u>S. newport</u>	6	?	6	6	1	person to person	Premature nursery outbreak. Mother of index case had <u>S. newport</u> gastroenteritis at time of delivery.
Maryland	February	Montgomery Co., Baltimore	<u>S. virchow</u>	26	?	16	≥4	0	roast beef	Epidemiologically associated with 2 delicatessens.
Massachusetts	"	Boston	<u>S. agona</u>	3	?	2	2	0	not determined	Nosocomial spread after family outbreak.
Florida	February-March	Dade Co.	<u>S. typhi</u>	230	1795	200	183	0	well water	Outbreak at migrant labor camp.

TABLE I. COMMON SALMONELLAE REPORTED FROM HUMAN SOURCES, FIRST QUARTER, 1973

SEROTYPE	GEOGRAPHIC DIVISION AND REPORTING CENTER																																
	NEW ENGLAND					MIDDLE ATLANTIC					EAST NORTH CENTRAL					WEST NORTH CENTRAL					SOUTH ATLANTIC												
	ME	NH	VT	MAS	RI	CON	NYA	NYB	NYC	NJ	PA	OHI	IND	ILL	MIC	WIS	MIN	IOW	MO	ND	SD	NEB	KAN	DEL	MD	DC	VA	WVA	NC	SC	GA	FLA	
<i>anatum</i>	2			1	3	1		9	8	1	6	5		4	1	4	1	1	1							6				1	1	1	4
<i>bareilly</i>								1			1								1				1				1				3		
<i>blockley</i>				1	2			5	7	4	5				1	1						1		11						2	1	4	4
<i>braenderup</i>						1					8										1										3		
<i>bredeney</i>						1		2	1	1	1	1	1	6			1							1		2		1			3		
<i>chester</i>	1			3		3				1	1			1		1								2			1						
<i>cholerae-suis v kun</i>										1				3														1		3	3		
<i>cubana</i>									1		1		1	2													1	1			1		
<i>derby</i>				1				20	12	5	9	4	1	10	2	2	1		5				2	2	5	2				1	8	8	
<i>enteritidis</i>		1	1	8	3	7		21	13	17	31	12	3	52	5	7	5	1	6	1	3		5	1	10	1	3		3		7	7	
<i>give</i>				3				1	2																		1						
<i>heidelberg</i>	1			8	1	5		6	7	4	7	7	1	17	18	4	8	4	4				1		10		1		5	1	16	2	
<i>indiana</i>				2				4		1	2	2	1	1												1				2	1		
<i>infantis</i>			1	11		5	1	2	7	8	14	23	9	12	10	6	5		3		1		5		22		4		8		17	13	
<i>java</i>				4		4		1	1			9		9		8	8		2			1									2		
<i>javiana</i>				1										1			3						2	1							1	23	
<i>litchfield</i>				3				6	1	6	1	3		1	3		1	1									2				1	2	
<i>livingstone</i>												3																			1		
<i>manhattan</i>								3	1	2		6	1	13	7	1							1		1		1		4		2	1	
<i>miami</i>										1							1															4	
<i>mississippi</i>																																5	
<i>montevideo</i>	1			8	1	1		2	1					2	2	3	1	1	1				1	1	2				1	1	1	5	
<i>muenchen</i>				6		1		3	2	7	12	1		5		4	1		1						4				1	1	3	1	
<i>newington</i>								1																									
<i>newport</i>				12	1	3		6	6	8	14	19	1	13	4	15	3	3	3	1			4	1	1		15		1	9	34		
<i>oranienburg</i>							1		1	3	7	2	1	4	3	1		1													5	2	
<i>panama</i>						1					3	1		2					1						2			1					
<i>paratyphi B</i>				1					1			3	3		1				1									4		2			
<i>reading</i>				1							4			1																1			
<i>saint-paul</i>				17	2	1		9	6	6	10	5		15	17	6	4	2	4	1			1	15			4		3	2	9	13	
<i>san-diego</i>			1					1	2				1	1	3	1														2		3	
<i>schwarzengrund</i>				1							2	2	1	1	1	3			1														
<i>senftenberg</i>								1	1	5	1	1		1	3	2	3					4			2					1	2	2	
<i>tennessee</i>										1					1												1						
<i>thompson</i>				8				1	3	2	4	1	1	8	6	4		2	1					3		1					1		
<i>typhi</i>	2			2			2	5	7		1	2		5	3		2	1	2				1		3				4	1	2	9	
<i>typhimurium</i>	2		4	66	6	29		62	56	76	30	52	32	65	44	63	40	6	28	1	6		33	1	51		22		20	7	44	42	
<i>typhimurium v cop</i>	1			2		1				4					4																		
<i>weltevreden</i>																																	
<i>worthington</i>				1											3																		
TOTAL	10	1	9	174	16	66	4	172	147	164	184	155	58	257	143	137	90	23	72	8	10	-	63	9	154	2	62	7	62	22	157	179	
ALL OTHER*	1	14	2	14	7	7	38	13	8	12	48	4	5	31	41	8	4	6	3	-	-	7	1	2	39	25	6	-	12	6	18	5	
TOTAL	11	15	11	188	23	73	42	185	155	176	232	159	63	288	184	145	94	29	75	8	10	7	64	11	193	27	68	7	74	28	175	184	

Note: NYA—New York, Albany; NYB—Beth Israel Hospital; NYC—New York City.
Beth Israel Hospital is a reference laboratory and this month serotyped a total of 242 cultures.

*See Table II.

TABLE I - Continued

GEOGRAPHIC DIVISION AND REPORTING CENTER																				TOTAL	% OF TOTAL	CUMULATIVE TOTAL	% OF CUMULATIVE TOTAL	SEROTYPE	
EAST S. CENTRAL				WEST S. CENTRAL				MOUNTAIN						PACIFIC											
KY	TEN	ALA	MIS	ARK	LA	OKL	TEX	MON	IDA	WYO	COL	NM	ARI	UTA	NEV	WAS	ORE	CAL	ALK						HAW
2				1	3		4	1			2		3					3		3	83	1.7	83	1.7	<i>anatum</i>
	1			1	1		1											1			15	0.3	15	0.3	<i>bareilly</i>
				1									1								66	1.4	66	1.4	<i>blockley</i>
	1																	1			16	0.3	16	0.3	<i>braenderup</i>
					1								1								27	0.6	27	0.6	<i>bredeney</i>
	1										1						4	2			21	0.4	21	0.4	<i>chester</i>
	1																				12	0.2	12	0.2	<i>cholerae-suis v kun</i>
	1						5				1		2			3		19		6	141	2.9	141	2.9	<i>cubana</i>
1	10	3			2	2	4	1					1			2		7		1	268	5.6	268	5.6	<i>derby</i>
																									<i>enteritidis</i>
											1					1		1		2	18	0.4	18	0.4	<i>give</i>
	15	4	1	2	10	2	12				1		16			8	5	16			230	4.8	230	4.8	<i>heidelberg</i>
					3																22	0.5	22	0.5	<i>indiana</i>
1	13	3	1	4	12		8				2		5			3	1	29		6	275	5.7	275	5.7	<i>infantis</i>
5		1	1	3	7		2						1	1			3	14	1	2	90	1.9	90	1.9	<i>java</i>
	1	2		4	5		11						5				1				61	1.3	61	1.3	<i>javiana</i>
		1	1		3				1							1				1	39	0.8	39	0.8	<i>litchfield</i>
																			3		8	0.2	8	0.2	<i>livingstone</i>
1							1	1												1	58	1.2	58	1.2	<i>manhattan</i>
																					6	0.1	6	0.1	<i>miami</i>
			1		6																12	0.2	12	0.2	<i>mississippi</i>
		1			7		14				1		3			8		2			72	1.5	72	1.5	<i>montevideo</i>
		4	2		4	1	6						1				1	7			81	1.7	81	1.7	<i>muenchen</i>
					1																3	0.1	3	0.1	<i>newington</i>
	2	2	5	7	23	3	34						5			7	3	31		2	301	6.3	301	6.3	<i>newport</i>
					7		12				1		4				1	6		1	65	1.4	65	1.4	<i>oranienburg</i>
							9						1					9		79	109	2.3	109	2.3	<i>panama</i>
						1	1	1			1										21	0.4	21	0.4	<i>paratyphi B</i>
							2	2					1			2	2	6			27	0.6	27	0.6	<i>reading</i>
1	6			14	2	7							1			4		19	2	2	210	4.4	210	4.4	<i>saint-paul</i>
	1															4		13			33	0.7	33	0.7	<i>san-diego</i>
					3						1							10			26	0.5	26	0.5	<i>schwarzengrund</i>
				1	1		4				4		1			1		14			59	1.2	59	1.2	<i>senftenberg</i>
		1			1								1					4			12	0.2	12	0.2	<i>tennessee</i>
1		1	5	1	2	1	3	2			2					1		21		1	87	1.8	87	1.8	<i>thompson</i>
3				6	3		13					2	3			1	3	41			129	2.7	129	2.7	<i>typhi</i>
19	41	22	10	7	39	14	65	9	8		25		14	4	5	33	9	177		28	1,417	29.5	1,417	29.5	<i>typhimurium</i>
2	8		1	1	1								1		1						29	0.6	29	0.6	<i>typhimurium v cop</i>
																					21	0.4	21	0.4	<i>weltevreden</i>
					2		1				1							3			11	0.2	11	0.2	<i>worthington</i>
36	102	46	32	39	166	26	221	18	9	-	44	2	72	5	6	79	34	476	3	158	4,191	87.2	4,191	87.2	TOTAL
-	3	1	5	2	26	4	28	-	-	-	3	67	5	-	5	3	4	50	7	14	614		614		ALL OTHER*
36	105	47	37	41	192	30	249	18	9	-	47	69	77	5	11	82	38	526	10	172	4,805		4,805		TOTAL

TABLE II. OTHER SALMONELLAE REPORTED FROM HUMAN SOURCES, FIRST QUARTER, 1973

SEROTYPE	REPORTING CENTER																								
	ALA	ALK	ARI	ARK	CAL	COL	CON	DEL	DC	FLA	GA	HAW	ILL	IND	IOW	KAN	LA	ME	MD	MAS	MIC	MIN	MIS	MO	NEB
<i>agona</i>				1	12	1	3			1			11	1	3		8		19	4	17	1		1	
<i>alachua</i>													1				1				1				
<i>albany</i>					2	1					1														
<i>amager</i>					1						2														
<i>atlanta</i>																									
<i>berta</i>			2					1									3				1				
<i>binza</i>					1																				
<i>bovis-morbificans</i>					1							1													
<i>brandenburg</i>																					1				
<i>brunei</i>																									
<i>california</i>																		1							1
<i>canoga</i>													1												
<i>cerro</i>																				1					
<i>cholerae-suis</i>																									
<i>clifton</i>																									
<i>drypool</i>													2							4					
<i>dublin</i>					3																				
<i>duesseldorf</i>			1																		1				
<i>eastbourne</i>																						1			
<i>eimsbuettel</i>											3		2									3			
<i>gallinarum</i>																									
<i>gaminara</i>																	3					1	1		
<i>gaton</i>																									
<i>gdansk</i>																									
<i>habana</i>					2																				
<i>hartford</i>										1	1						2		2						
<i>johannesburg</i>					3																		1		
<i>kaapstad</i>																									
<i>kentucky</i>					1				1																
<i>kottbus</i>					1			1			1								2					1	1
<i>kuru</i>																									
<i>larochelle</i>																									
<i>lexington</i>																									
<i>lille</i>																									
<i>lomita</i>																			1						
<i>london</i>	1				2		1				1		4									8			
<i>luciana</i>											1														
<i>madella</i>																									
<i>manila</i>					1																				
<i>meleagridis</i>																						2			
<i>mikawashima</i>																									
<i>minnesota</i>					1								1									1			
<i>mishmar-haemek</i>																						1			
<i>mission</i>					1																				
<i>molade</i>											2														
<i>muenster</i>										1															
<i>nienstedten</i>											1														
<i>norwich</i>																	1				1				
<i>ohio</i>					3																				
<i>oslo</i>					1							11	2								2				
<i>paratyphi A</i>												1	1		3						1				
<i>pensacola</i>							1																		
<i>pomona</i>																									
<i>poona</i>			1		1						1											1			
<i>pullorum</i>																									
<i>richmond</i>																									
<i>rubislaw</i>				1																	3				
<i>salford</i>									1																
<i>saphra</i>																									
<i>siegburg</i>					2					1			1								5				
<i>simsbury</i>											1											1			
<i>sinstorf</i>																									
<i>stanley</i>					3								3									1			
<i>taksony</i>					1																				
<i>texas</i>														1									1		
<i>uganda</i>													1												
<i>urbana</i>					1																				
<i>virchow</i>																						1			
<i>wangata</i>						1													8		1				
<i>weslaco</i>											1														
<i>westerstede</i>												1													
<i>westhampton</i>																									
TOTAL	1	-	5	1	44	3	6	2	1	4	16	14	30	5	3	1	25	1	37	13	37	4	1	3	-
NOT TYPED*	-	7	-	1	6	-	1	-	24	1	2	-	1	-	3	-	1	-	2	1	4	-	4	-	7
TOTAL	1	7	5	2	50	3	7	2	25	5	18	14	31	5	6	1	26	1	39	14	41	4	5	3	7

*SEE TABLE V-A

TABLE II - Continued

REPORTING CENTER																				TOTAL	CUML. TOTAL	SERO TYPE	
NEV	NH	NJ	NM	NYA	NYB	NYC	NC	OHI	OKL	ORE	PA	RI	SC	TEN	TEX	VT	VA	WAS	WIS				
		2					6	1		2	27		4	1	2				4		132	132	<i>agona</i>
											1						1				1	1	<i>alachua</i>
																					8	8	<i>albany</i>
																					1	1	<i>amager</i>
																					2	2	<i>atlanta</i>
															1						8	8	<i>berta</i>
																					1	1	<i>binza</i>
								1			2										4	4	<i>bovis-morbificans</i>
																					1	1	<i>brandenburg</i>
																					1	1	<i>brunel</i>
											1										3	3	<i>california</i>
						2															1	1	<i>canoga</i>
											1										2	2	<i>cerro</i>
							1														2	2	<i>cholerae-suis</i>
																					1	1	<i>clifton</i>
																		1			7	7	<i>drypool</i>
							1														3	3	<i>dublin</i>
																					2	2	<i>duesseldorf</i>
																					1	1	<i>eastbourne</i>
											1								1		10	10	<i>eimsbuettel</i>
						2	1														3	3	<i>gallinarum</i>
		1														1					7	7	<i>gaminara</i>
					1											1					1	1	<i>gатов</i>
																					1	1	<i>gdansk</i>
																					2	2	<i>habana</i>
								1													10	10	<i>hartford</i>
1											1							3			6	6	<i>johannesburg</i>
										3	1										4	4	<i>kaapstad</i>
					2		1								1						5	5	<i>kentucky</i>
		1																			9	9	<i>kottbus</i>
					1																1	1	<i>kuru</i>
											2										2	2	<i>larochelle</i>
						1													1		1	1	<i>lexington</i>
															1						2	2	<i>lille</i>
																					1	1	<i>lomita</i>
		4					1				1	1	1	2	1				1	1	30	30	<i>london</i>
																					1	1	<i>luciana</i>
							1														1	1	<i>madelia</i>
																					1	1	<i>manila</i>
							1														3	3	<i>meleagridis</i>
																					1	1	<i>mikawashima</i>
2		1									1										7	7	<i>minnesota</i>
																					1	1	<i>mishmar-haemek</i>
																					1	1	<i>mission</i>
											1										3	3	<i>molade</i>
						1															2	2	<i>muenster</i>
																					1	1	<i>nienstedten</i>
																					2	2	<i>norwich</i>
																2					7	7	<i>ohio</i>
		1									1										18	18	<i>oslo</i>
																					3	3	<i>paratyphi A</i>
											1										4	4	<i>pensacola</i>
																					1	1	<i>pomona</i>
		1								1					4						10	10	<i>poona</i>
					2	1															3	3	<i>pullorum</i>
											1										1	1	<i>richmond</i>
																3					7	7	<i>rubislaw</i>
																					1	1	<i>salford</i>
																					1	1	<i>saphra</i>
																3					12	12	<i>siegburg</i>
						1	1														4	4	<i>simsbury</i>
						1															1	1	<i>sinstorf</i>
							1						1								9	9	<i>stanley</i>
																					3	3	<i>taksony</i>
															1						1	1	<i>texas</i>
											2										3	3	<i>uganda</i>
											3										3	3	<i>urbana</i>
							1														14	14	<i>virchow</i>
																					1	1	<i>wangata</i>
																					1	1	<i>weslaco</i>
						1															1	1	<i>westerstede</i>
																					1	1	<i>westhampton</i>
3	-	12	-	-	13	7	12	4	4	2	48	1	6	3	24	-	6	3	5		410	410	TOTAL
2	14	-	67	38	-	1	-	-	-	2	-	6	-	-	4	2	-	-	3		204	204	NOT TYPED*
5	14	12	67	38	13	8	12	4	4	4	48	7	6	3	28	2	6	3	8		614	614	TOTAL

TABLE III. COMMON SALMONELLAE REPORTED FROM NONHUMAN SOURCES, FIRST QUARTER, 1973

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>anatum</i>							—			2	2
<i>bareilly</i>				1			1	6			6
<i>blockley</i>							—				—
<i>braenderup</i>							—				—
<i>bredeney</i>			3				3	3		3	6
<i>chester</i>							—				—
<i>cholerae-suis v kun</i>							—				—
<i>cubana</i>							—				—
<i>derby</i>			6				6	3		4	7
<i>enteritidis</i>				1			1				—
<i>give</i>							—				—
<i>heidelberg</i>		2		6			8				—
<i>indiana</i>	2						2				—
<i>infantis</i>	1					1	2				—
<i>java</i>							—				—
<i>javiana</i>						1	1				—
<i>litchfield</i>							—				—
<i>livingstone</i>	1						1			4	4
<i>manhattan</i>	2		1				3				—
<i>miami</i>							—				—
<i>mississippi</i>							—				—
<i>montevideo</i>							—	4		3	7
<i>muenchen</i>							—				—
<i>newington</i>							—				—
<i>newport</i>			1	1		3	5				—
<i>oranienburg</i>							—			14	14
<i>panama</i>							—				—
<i>paratyphi B</i>							—				—
<i>reading</i>							—				—
<i>saint-paul</i>	1					2	3				—
<i>san-diego</i>				1			1				—
<i>schwarzengrund</i>						1	1			1	1
<i>senftenberg</i>						5	5	16		11	27
<i>tennessee</i>							—	7			7
<i>thompson</i>							—				—
<i>typhi</i>							—				—
<i>typhimurium</i>	1		1	46	4	11	63			1	1
<i>typhimurium v cop</i>				2		1	3				—
<i>weltevreden</i>						1	1				—
<i>worthington</i>							—	2			2
TOTAL	8	2	12	58	4	26	110	41	—	43	84
ALL OTHER*	2	—	3	13	—	10	28	5	—	24	29
TOTAL	10	2	15	71	4	36	138	46	—	67	113

*See Table IV

TABLE III - Continued

WILD ANIMALS AND BIRDS	FISH, REPTILES, AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUMULATIVE TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
1	4					1	1		4	4	<i>anatum</i>
							-		7	7	<i>bareilly</i>
							-		-	-	<i>blockley</i>
							-		4	4	<i>braenderup</i>
							-		9	9	<i>bredeney</i>
							-		-	-	<i>chester</i>
							-		-	-	<i>cholerae-suis v kun</i>
	1					2	2		2	2	<i>cubana</i>
	1					1	1		15	15	<i>derby</i>
							-	1	3	3	<i>enteritidis</i>
				1			1		1	1	<i>give</i>
7							-		15	15	<i>heidelberg</i>
3							-		5	5	<i>indiana</i>
	4		1			6	7		9	9	<i>infantis</i>
							-		4	4	<i>java</i>
	16						-		1	1	<i>javana</i>
	16						-		16	16	<i>litchfield</i>
							-		5	5	<i>livingstone</i>
							-	1	20	20	<i>manhattan</i>
							-		-	-	<i>miami</i>
							-	2	-	-	<i>mississippi</i>
1	1						-		10	10	<i>montevideo</i>
1							-		1	1	<i>muenchen</i>
1	8						-		1	1	<i>newington</i>
							-		14	14	<i>newport</i>
3	1						-		18	18	<i>oranienburg</i>
	1						-		-	-	<i>panama</i>
							-		1	1	<i>paratyphi B</i>
			1				1		1	1	<i>reading</i>
			1	1			2		5	5	<i>saint-paul</i>
1							-		2	2	<i>san-diego</i>
							-		2	2	<i>schwarzengrund</i>
							-		32	32	<i>senftenberg</i>
							-		7	7	<i>tennessee</i>
			1				1		1	1	<i>thompson</i>
							-		-	-	<i>typhi</i>
3	1		1				1	6	75	75	<i>typhimurium</i>
							-		3	3	<i>typhimurium v cop</i>
	7						-		8	8	<i>weltevreden</i>
							-		2	2	<i>worthington</i>
21	61	-	5	2	-	10	17	10	303	303	TOTAL
2	11	-	-	2	-	2	4	12	86	86	ALL OTHER*
23	72	-	5	4	-	12	21	22	389	389	TOTAL

TABLE IV. OTHER SALMONELLAE REPORTED FROM NONHUMAN SOURCES, FIRST QUARTER, 1973

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>agona</i>						2	2				-
<i>alachua</i>							-	1		5	6
<i>amsterdam</i>				1			1	2		1	3
<i>aqua</i>							-				-
<i>binza</i>							-			11	11
<i>bornum</i>				1			1				-
<i>brandenburg</i>	1					1	1				-
<i>california</i>							1				-
<i>cholerae-suis</i>			3				3				-
<i>dublin</i>				8			8				-
<i>eimsbuettel</i>							-				-
<i>habana</i>						1	1				-
<i>hartford</i>							-				-
<i>kentucky</i>	1			1			2	1			1
<i>lexington</i>							-			1	1
<i>lille</i>				1			1				-
<i>london</i>				1			1				-
<i>meleagridis</i>							-	1			1
<i>minneapolis</i>							-			1	1
<i>minnesota</i>							-			1	1
<i>mission</i>							-				-
<i>muenster</i>						1	1				-
<i>ohio</i>							-			1	1
<i>orion</i>							-			1	1
<i>oslo</i>							-				-
<i>poona</i>						1	1				-
<i>pullorum</i>							-				-
<i>rubislaw</i>							-				-
<i>siegburg</i>						4	4			1	1
<i>uganda</i>							-			1	1
<i>urbana</i>							-				-
TOTAL	2	-	3	13	-	10	28	5	-	24	29
NOT TYPED*	-	-	-	-	-	-	-	-	-	-	-
TOTAL	2	-	3	13	-	10	28	5	-	24	29

*SEE TABLE VB

TABLE IV – Continued

WILD ANIMALS AND BIRDS	FISH, REPTILES, AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUMULATIVE TOTAL	SEROTYPE
		EGG AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
1	1			1			1	10	14	14	<i>agona</i>
							-		6	6	<i>alachua</i>
							-		4	4	<i>amsterdam</i>
							-		1	1	<i>aqua</i>
							-		11	11	<i>binza</i>
							-		1	1	<i>bornum</i>
							-		1	1	<i>brandenburg</i>
							-		1	1	<i>california</i>
							-		3	3	<i>cholerae-suis</i>
							-		8	8	<i>dublin</i>
				1			1		1	1	<i>eimsbuettel</i>
							-		1	1	<i>habana</i>
						1	1		1	1	<i>hartford</i>
							-		3	3	<i>kentucky</i>
							-		1	1	<i>lexington</i>
							-		1	1	<i>lille</i>
							-		1	1	<i>london</i>
							-		1	1	<i>meleagridis</i>
							-	1	1	1	<i>minneapolis</i>
							-		2	2	<i>minnesota</i>
	1						1		1	1	<i>mission</i>
							-		1	1	<i>muenster</i>
							-		1	1	<i>ohio</i>
							-		1	1	<i>orion</i>
							-		1	1	<i>oslo</i>
1	2						-		1	1	<i>poona</i>
							-		1	1	<i>pullorum</i>
							-		2	2	<i>rubislaw</i>
							-		5	5	<i>siegburg</i>
							-		1	1	<i>uganda</i>
	7						-		7	7	<i>urbana</i>
2	11	-	-	2	-	2	4	11	85	85	TOTAL
-	-	-	-	-	-	-	-	1	1	1	NOT TYPED*
2	11	-	-	2	-	2	4	12	86	86	TOTAL

**TABLE V. SALMONELLAE REPORTED BY GROUP IDENTIFICATION ONLY
FIRST QUARTER, 1973**

A. HUMAN SOURCES

REPORTING CENTER	GROUP									TOTAL
	A	B	C	C1	C2	D	E	G	UNK	
ALASKA	1	4	1		1					7
ARKANSAS						1				1
CALIFORNIA		4		2						6
CONNECTICUT		1								1
DISTRICT OF COLUMBIA	1	9	2	1	4	1			6	24
FLORIDA									1	1
GEORGIA									2	2
ILLINOIS									1	1
IOWA		1	1						1	3
LOUISIANA				1						1
MARYLAND		1							1	2
MASSACHUSETTS		1								1
MICHIGAN		2	1						1	4
MISSISSIPPI									4	4
NEBRASKA		3		3		1				7
NEVADA				1				1		2
NEW HAMPSHIRE		10		3	1					14
NEW MEXICO	1	47		9	5	1	2	2		67
NEW YORK - A		8			3	5				38
NEW YORK - C			1						22	1
OREGON								1	1	2
RHODE ISLAND		3					2		1	6
TEXAS									4	4
VERMONT									2	2
WISCONSIN		1	1						1	3
TOTAL	3	95	7	20	14	9	4	4	48	204

B. NON-HUMAN SOURCES

SOURCES	GROUP									TOTAL
	A	B	C	C1	C2	D	E	G	UNK	
DOMESTIC ANIMALS AND THEIR ENVIRONMENT										-
ANIMAL FEEDS										-
WILD ANIMALS AND BIRDS										-
FISH, REPTILES, AND ENVIRONMENT										-
HUMAN DIETARY ITEMS										-
MISCELLANEOUS									1	1
TOTAL	-	-	-	-	-	-	-	-	1	1

Second Quarter
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NOTE

The data contained in the tables and summarized in sections I and II deal only with isolates reported to CDC by state and other reference laboratories. Extrapolation from these data to aspects of the total incidence of salmonellosis in the United States should be made only with caution, and references to the data should be appropriately qualified.

I. SUMMARY

In the second quarter of 1973, 5,702 isolations of salmonella were reported from humans, an average of 439 isolations per week (Tables I, II, and V-A). This number represents an increase of 69 (18.6%) over the weekly average during the first quarter of 1973 and a decrease of 11 (2.4%) from the weekly average of the second quarter of 1972. The average number of isolations reported per week for each month and for the second quarter are provided below for the last 3 years.

	<u>1971</u>	<u>1972</u>	<u>1973</u>
April	375	382	432
May	459	487	404
June	368	472	490
Second quarter	399	450	439

II. REPORTS OF ISOLATIONS

The 10 most frequently reported serotypes during the second quarter:

HUMAN				NONHUMAN		
Serotype	Number	Percent	Rank last quarter	Serotype	Number	Percent
<u>typhimurium*</u>	1,976	34.6	1	<u>typhimurium*</u>	72	19.6
<u>enteritidis</u>	380	6.7	4	<u>saint-paul</u>	21	5.7
<u>newport</u>	323	5.7	2	<u>muenchen</u>	19	5.2
<u>saint-paul</u>	299	5.2	6	<u>oranienburg</u>	19	5.2
<u>heidelberg</u>	266	4.7	5	<u>newport</u>	18	4.9
<u>infantis</u>	251	4.4	3	<u>heidelberg</u>	16	4.3
<u>typhi</u>	171	3.0	9	<u>infantis</u>	14	3.8
<u>agona</u>	137	2.4	8	<u>litchfield</u>	14	3.8
<u>derby</u>	110	1.9	7	<u>enteritidis</u>	10	2.7
<u>muenchen</u>	92	1.6	14	<u>siegburg</u>	10	2.7
Total	4,005	70.2		Total	213	57.9
TOTAL (all serotypes)	5,702	100.0		TOTAL (all serotypes)	368	100.0
*Includes var. <u>copenhagen</u>	65	1.1		*Includes var. <u>copenhagen</u>	1	0.3

III. REPORTS FROM THE STATES

A. Reports of Salmonella Outbreaks Received During the Second Quarter, 1973

This table lists investigated outbreaks of salmonellosis reported to CDC from various sources. Definitions of cases and of numbers at risk are not uniform from report to report. This listing should be considered neither comprehensive nor representative of all outbreaks in the United States, as most outbreaks are probably not reported to CDC.

State	Month of outbreak	Location	Serotype	Number		With positive cultures	Hospitalized	Deaths	Mode of transmission	Comments
				Ill	At risk					
Pennsylvania	July	Villanova	<u>S. enteritidis</u>	~44	58	?	?	?	Jello or chicken salad	Outbreak in private residence.
Illinois	September	Aurora	<u>S. enteritidis</u>	~10	?	5	6	0	undetermined	Restaurant outbreak.
Washington	"	Roslyn	<u>S. newport</u>	3	4	1	?	?	?stream water	Outbreak among motorcyclists drinking from polluted stream.
Kentucky	May	Covington	<u>S. typhimurium</u>	4	?	4	4	0	?fomite (suction machine)	Hospital outbreak in post-cholecystomy patients and nurse. Two septicemic.
New York	"	New York	<u>S. enteritidis</u>	230	~300	11	5	0	positive cultures from tongue, pastrami, and corned beef	Banquet catered by delicatessen. Six food-handlers with positive cultures.
Texas	"	Marble Falls	<u>S. typhimurium</u>	~25	?	13	?	?	?homemade ice cream	Family outing.
Utah	"		<u>S. typhimurium</u>	2	?	2	?	?	?infected calves	Outbreak in farm family.

TABLE I. COMMON SALMONELLAE REPORTED FROM HUMAN SOURCES, SECOND QUARTER, 1973

SEROTYPE	GEOGRAPHIC DIVISION AND REPORTING CENTER																																	
	NEW ENGLAND					MIDDLE ATLANTIC					EAST NORTH CENTRAL					WEST NORTH CENTRAL					SOUTH ATLANTIC													
	ME	NH	VT	MAS	RI	CON	NYA	NYB	NYC	NJ	PA	OHI	IND	ILL	MIC	WIS	MIN	IOW	MO	ND	SD	NEB	KAN	DEL	MD	DC	VA	WVA	NC	SC	GA	FLA		
<i>anatum</i>				3				5		4	1	4	2	7	4	2		1	1							5					1	1	3	5
<i>boreilly</i>								2			1			1	2													1			1		4	1
<i>blockley</i>	1			5	2			1	3	1		1	2	18			3		2	2			1					1	3	2		1	18	
<i>braenderup</i>				2		1					2			2			2											1						4
<i>bredeney</i>				1								1		2	4				2							1					1		6	4
<i>chester</i>				59		2				1	3			2				1											2	1			1	
<i>cholerae-suis v kun</i>																					1										1		1	
<i>cubana</i>						2		1			1		1									1												1
<i>derby</i>				1		1	1	5	5	2	7	8	1	2		4	1										7	2	8			6	23	
<i>enteritidis</i>			3	28	2	12		27	18	17	74	9	2	47	12	6	3	1	9	2		2	6			11	6		4	1	6	12		
<i>give</i>																1			1							1								
<i>heidelberg</i>	1			3		3		16	2	20	12	9	3	19	14	6	7	1	10				5		8			1	9	2	17	4		
<i>indiana</i>						2		2		1					4	1															1		1	6
<i>infantis</i>				10		7		8	3	15	9	14	2	12	10	16	3	3	1	1			7		11		15		11	1	7	21		
<i>java</i>				4		2			1	2	2			5		7	2	5	6		1		1		2		2			1	3	5		
<i>javana</i>									1		3	1		4		1									1		1			1	2	26		
<i>litchfield</i>				3		1		3			2	1		4	1	2	1							1		2			1		2	4		
<i>livingstone</i>																																		
<i>manhattan</i>				4		1		1		1	3	2		3	2	2			2				1				1		2	1	1	3		
<i>miami</i>						1								2	1																		8	
<i>mississippi</i>														1																			10	1
<i>montevideo</i>				3		4			2	1	2	1	1	3	4	3			3						2		5	1	4		1	3		
<i>muenchen</i>				1		1			2	9	4		4	22	1	2	4								8		3		1	1	3	3		
<i>newington</i>											1														1							1		
<i>newport</i>				9		16	2	8	3	11	12	11	9	15	6	23	6			1	4	1		3		5		4	15	1	9	41		
<i>oranienburg</i>				5		1		1		5	2	6	3	5	6	3			1	4					1		2	1			3	5		
<i>panama</i>				1					2	1	3		1	2	1				1	1														
<i>paratyphi B</i>			2			2		2				5	4		6		1		1							1	5							
<i>reading</i>				2							1			1													2							
<i>saint-paul</i>	1		2	12		3		13	10	15	28	13		22	18	5	3	2	1				1	3	32		5	2	6	1	6	44		
<i>san-diego</i>				4				4					3	1	9																		4	
<i>schwarzengrund</i>				2						1	3			2	2									1		1					2			
<i>senftenberg</i>				2		1		1						1	3					1				2				1			1	11		
<i>tennessee</i>				1				2		1	1	1		1												1								
<i>thompson</i>	1			1		1		2		1	4			7	5	13	1		1						3				5	4	1			
<i>typhi</i>				5		1	14	5	8		9	1		9	4	2	1		1						1	2		1	4	1	1	43		
<i>typhimurium</i>	5		5	58	5	38	4	44	32	83	72	89	35	117	51	122	30	11	45	3	18		28	6	49		39	11	65	8	62	110		
<i>typhimurium v cop</i>	2			3		2				6					8		4	4					2							3	1			
<i>weltevreden</i>																																1		
<i>worthington</i>												1			5																5	1	2	
TOTAL	11	-	12	232	9	105	21	153	92	197	260	181	73	338	184	221	72	31	93	13	21	2	58	10	153	3	107	20	137	28	165	409		
ALL OTHER*	-	14	1	10	15	4	69	18	7	11	54	9	12	42	20	11	12	5	12	-	-	4	4	3	28	14	10	3	9	2	19	36		
TOTAL	11	14	13	242	24	109	90	171	99	208	314	190	85	380	204	232	84	36	105	13	21	6	62	13	181	17	117	23	146	30	184	445		

Note: NYA—New York, Albany; NYB—Beth Israel Hospital; NYC—New York City.
Beth Israel Hospital is a reference laboratory and this quarter serotyped a total of 231 cultures.

*See Table II.

TABLE I - Continued

GEOGRAPHIC DIVISION AND REPORTING CENTER																				TOTAL	% OF TOTAL	CUMULATIVE TOTAL	% OF CUMULATIVE TOTAL	SERTYPE		
EAST S. CENTRAL				WEST S. CENTRAL				MOUNTAIN						PACIFIC												
KY	TEN	ALA	MIS	ARK	LA	OKL	TEX	MON	IDA	WYO	COL	NM	ARI	UTA	NEV	WAS	ORE	CAL	ALK						HAW	
	1	1		1		1	1				1		1					7				62	1.1	145	1.4	<i>anatum</i>
1	3	3	1	1		1	1			1								1				19	0.3	34	0.3	<i>bareilly</i>
1	1	1			1		2				1							3				80	1.4	146	1.4	<i>blockley</i>
				3			3										2	6			1	26	0.5	42	0.4	<i>braenderup</i>
							1						2			1		3			1	33	0.6	60	0.6	<i>bredeny</i>
1																		4				77	1.4	98	0.9	<i>chester</i>
							1															2	0.0	14	0.1	<i>cholerae-suis v kun</i>
							6															8	0.1	18	0.2	<i>cubana</i>
2	8	2	1	1		1	5	5	1	1	8		2	1		2		7	1	6	110	1.9	251	2.4	<i>derby</i>	
							5						10	2		1	2	10				380	6.7	648	6.2	<i>enteritidis</i>
2	16	7	1	2	6	1	15		2				11	2	3	5	5	14		1	1	8	0.1	26	0.2	<i>give</i>
	3				4																2	266	4.7	496	4.7	<i>heidelberg</i>
	10	12			9	2	5						3	3	1	5	1	13				25	0.4	47	0.4	<i>indiana</i>
2	2	3			4		2	1			2		3				3	3			1	251	4.4	526	5.0	<i>infantis</i>
													3									77	1.4	167	1.6	<i>java</i>
1	1			1	2		14				1		2	1	1		1					66	1.2	127	1.2	<i>javiana</i>
2	4				1		4															42	0.7	81	0.8	<i>litchfield</i>
																						5	0.1	13	0.1	<i>livingstone</i>
																						42	0.7	100	1.0	<i>manhattan</i>
																						12	0.2	18	0.2	<i>miami</i>
	2	3			6		1															24	0.4	36	0.3	<i>mississippi</i>
	5	2			1		2				1		2	1		1		9		2	69	1.2	141	1.3	<i>montevideo</i>	
	9	3			3		1									1	2	4			92	1.6	173	1.6	<i>muenchen</i>	
3	5	4		5	12	1	35	2	3		1		5	3				1			7	0.1	10	0.1	<i>newington</i>	
																	4	21			4	323	5.7	624	5.9	<i>newport</i>
2	1		3				6		4				5					6				83	1.5	148	1.4	<i>oranienburg</i>
	3				1		6				3		1					2			22	51	0.9	160	1.5	<i>panama</i>
							2		1				1									34	0.6	55	0.5	<i>paratyphi B</i>
		1					1											1				12	0.2	39	0.4	<i>reading</i>
4	2	3			2		5				1					8		20			5	299	5.2	509	4.8	<i>saint-paul</i>
	3	2					3							2	1	2		10				48	0.8	81	0.8	<i>san-diego</i>
							1											1				17	0.3	43	0.4	<i>schwarzengrund</i>
		1			1		4			1	6		1					4				42	0.7	101	1.0	<i>senftenberg</i>
1		2			8		3										1	1				12	0.2	24	0.2	<i>tennessee</i>
																		12			5	83	1.5	170	1.6	<i>thompson</i>
2	6			7	3	1	9					1				3	1	23	1	1	171	3.0	300	2.9	<i>typhi</i>	
43	72	31	8	36	42	20	87	11	4	1	42		16	8	3	30	11	179	6	16	1,911	33.5	3,328	31.7	<i>typhimurium</i>	
2	8			4	3				4		5		2							2	65	1.1	94	0.9	<i>typhimurium v cop</i>	
																					1	43	0.8	64	0.6	<i>weltevreden</i>
														1			1	2			4	22	0.4	33	0.3	<i>worthington</i>
69	159	87	18	60	111	28	231	19	19	4	72	1	67	25	10	61	38	383	17	109	4,999	87.7	9,190	87.5	TOTAL	
1	14	6	-	8	19	-	30	-	-	3	2	74	14	3	2	12	2	32	14	9	703		1,317		ALL OTHER*	
70	173	93	18	68	130	28	261	19	19	7	74	75	81	28	12	73	40	415	31	118	5,702		10,507		TOTAL	

TABLE II. OTHER SALMONELLAE REPORTED FROM HUMAN SOURCES, SECOND QUARTER, 1973

SEROTYPE	REPORTING CENTER																										
	ALA	ALK	ARI	ARK	CAL	COL	CON	DEL	DC	FLA	GA	HAW	IDA	ILL	IND	IOW	KAN	KY	LA	ME	MD	MAS	MIC	MIN	MIS	MO	MON
<i>agona</i>	4	2		1	3		1	2			4	2		11	4	1	1		8		13	4	11	5		2	
<i>alachua</i>			1		1	2					4			1								2					
<i>albany</i>					1						4																
<i>amager</i>					1						1																
<i>atlanta</i>											1																
<i>berta</i>			2		1					1				1	1				1								
<i>bovis-morbificans</i>					1						2																1
<i>california</i>											1								1								
<i>cerro</i>											1	2		1										2			
<i>cholerae-suis</i>											2																
<i>coleypark</i>																	1										
<i>denver</i>																											
<i>drypool</i>																						1					
<i>dublin</i>					5					1	4				1												4
<i>duesseldorf</i>																											
<i>eastbourne</i>							1																		1		
<i>eimsbuettel</i>							1																				
<i>emek</i>																											
<i>emmastad</i>																											
<i>gaminara</i>			2		1															3		1					
<i>gatow</i>																											
<i>glostrup</i>			1																								
<i>habana</i>																									1		
<i>haifa</i>																											
<i>hartford</i>										1	4																
<i>ibadan</i>				1																							
<i>inverness</i>										1										1							
<i>irumu</i>																											
<i>isangi</i>																										1	
<i>ituri</i>					1																						
<i>johannesburg</i>					2																		1		1		
<i>kaapstad</i>																											
<i>kentucky</i>											2																
<i>kottbus</i>			1		1						1			2	3	2			1			1	1	3			
<i>lille</i>			1																								
<i>london</i>					4						4	2			1	3				1		1		1			
<i>luciana</i>					1																						
<i>madelia</i>											1																
<i>matroosfontein</i>													1														
<i>meleagridis</i>											2	1	1														
<i>mikawashima</i>																											
<i>minnesota</i>											1				1							1		1			
<i>muenster</i>											1				1												
<i>new-brunswick</i>																											
<i>nienstedten</i>											1																
<i>norwich</i>	1																										
<i>oslo</i>					1						1																
<i>paratyphi A</i>									1			3															1
<i>pensacola</i>												1			1												
<i>pomona</i>																											
<i>poona</i>					2						3	1			9		1						2				
<i>putten</i>					4																						3
<i>rubislaw</i>			1								2				1						1						
<i>saphra</i>					1										1												
<i>siegburg</i>			1												1												
<i>simsbury</i>				2																							
<i>sinstorf</i>																											
<i>stanley</i>																											
<i>sundsvall</i>			1																					1			
<i>takoradi</i>																											
<i>taksony</i>			1												1												
<i>tel-el-kebir</i>							1																				
<i>urbana</i>															1										1		
<i>usumbura</i>											2																
<i> vejle</i>																					2						
<i>virchow</i>					1										2												
<i>wandsworth</i>					1																	9					
TOTAL	5	2	14	2	32	2	4	2	1	35	17	9	-	39	12	2	4	1	19	-	26	9	20	11	-	12	-
NOT TYPED*	1	12	-	6	-	-	-	1	13	1	2	-	-	3	-	3	-	-	-	-	2	1	-	1	-	-	-
TOTAL	6	14	14	8	32	2	4	3	14	36	19	9	-	42	12	5	4	1	19	-	28	10	20	12	-	12	-

*SEE TABLE V-A.

TABLE II - Continued

REPORTING CENTER																			TOTAL	CUML. TOTAL	SERO TYPE								
NEB	NEV	NH	NJ	NM	NYA	NYB	NYC	NC	ND	OHI	OKL	ORE	PA	RI	SC	SD	TEN	TEX				UTA	VT	VA	WAS	WVA	WIS	WYO	
			3			5 1	4			4		1	27				6	1 1	1				2	3	2		137 6 7 11 1 1	269 7 7 19 2 3	<i>agona</i> <i>alachua</i> <i>albany</i> <i>amager</i> <i>atlanta</i>
			1			1	1						4														5 3 6 9 4	13 7 9 11 6	<i>berta</i> <i>bovis-morbificans</i> <i>california</i> <i>cerro</i> <i>cholerae-suis</i>
			1																			3	1	2			1 1 4 9 9	1 1 11 12 11	<i>coleypark</i> <i>denver</i> <i>drypool</i> <i>dublin</i> <i>duesseldorf</i>
						1												1					1				1 3 1 1 9	2 13 1 1 16	<i>eastbourne</i> <i>eimsbuettel</i> <i>emek</i> <i>emmastad</i> <i>gaminara</i>
							1										1		1								1 1 2 1 1 12	2 1 4 1 1 22	<i>gadow</i> <i>glostrup</i> <i>habana</i> <i>haija</i> <i>hartford</i>
			1					1		1						2		1									2 3 1 1 1 12	2 3 1 1 1 22	<i>ibadan</i> <i>inverness</i> <i>trum</i> <i>isangi</i> <i>ituri</i>
			1										1				1					1					6 1 7 21 2	12 5 12 30 4	<i>johannesburg</i> <i>kaapstad</i> <i>kentucky</i> <i>kottbus</i> <i>lille</i>
			1			1		2					3				5					1	1				31 1 1 1 4	61 2 2 7 1	<i>london</i> <i>luciana</i> <i>madelia</i> <i>matroosfontein</i> <i>meleagridis</i>
	1						1		1								1 1 2 2										1 7 7 2 2	2 14 9 2 2	<i>mikawashima</i> <i>minnesota</i> <i>muenster</i> <i>new-brunswick</i> <i>nienstedten</i>
	1		1			1							4										1				3 12 3 1 4	5 30 6 5 5	<i>norwich</i> <i>oslo</i> <i>paratyphi A</i> <i>pensacola</i> <i>pomona</i>
										1							2						2				24 4 8 1 9	34 4 15 2 21	<i>poona</i> <i>putten</i> <i>rubislav</i> <i>saphra</i> <i>siegburg</i>
			1				1										3					1					3 1 1 1 1	7 2 10 1 1	<i>simsbury</i> <i>sinstorf</i> <i>stanley</i> <i>sundsvall</i> <i>takoradi</i>
																							3			1	2 1 6 2 2	5 1 9 2 2	<i>taksony</i> <i>tel-el-kebir</i> <i>urbana</i> <i>usumbura</i> <i>vefle</i>
													9											1			22 1	36 1	<i>virchow</i> <i>wandsworth</i>
-	2	-	11	-	-	13	7	9	-	9	-	1	54	-	2	-	10	24	1	-	10	12	3	4	-	452	862	TOTAL	
4	-	14	-	74	69	5	-	-	-	-	-	1	-	15	-	-	4	6	2	1	-	-	-	7	3	251	455	NOT TYPED*	
4	2	14	11	74	69	18	7	9	-	9	-	2	54	15	2	-	14	30	3	1	10	12	3	11	3	703	1,317	TOTAL	

TABLE III. COMMON SALMONELLAE REPORTED FROM NONHUMAN SOURCES, SECOND QUARTER, 1973

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>anatum</i>				3			3				—
<i>bareilly</i>							—				—
<i>blockley</i>	2						2				—
<i>braenderup</i>							—				—
<i>bredeney</i>							—				—
<i>chester</i>							—				—
<i>cholerae-suis v kun</i>							—				—
<i>cubana</i>							—				—
<i>derby</i>							—			1	1
<i>enteritidis</i>						7	7				—
<i>give</i>						2	2				—
<i>heidelberg</i>		1		2		3	6				—
<i>indiana</i>							—				—
<i>infantis</i>						1	1			2	2
<i>java</i>						1	1				—
<i>javiana</i>							—				—
<i>litchfield</i>							—				—
<i>livingstone</i>						1	1			1	1
<i>manhattan</i>	1						1				—
<i>miami</i>							—				—
<i>mississippi</i>							—				—
<i>montevideo</i>							—			2	2
<i>muenchen</i>							—				—
<i>newington</i>		1					1				—
<i>newport</i>				3		1	4				—
<i>oranienburg</i>							—			3	3
<i>panama</i>							—	1			1
<i>paratyphi B</i>							—				—
<i>reading</i>							—				—
<i>saint-paul</i>							—				—
<i>san-diego</i>						1	1				—
<i>schwarzengrund</i>							—				—
<i>senftenberg</i>							—	4		2	6
<i>tennessee</i>							—				—
<i>thompson</i>						1	1			1	1
<i>typhi</i>							—				—
<i>typhimurium</i>	7		3	13	2	14	39			1	1
<i>typhimurium v cop</i>				1			1				—
<i>weltevreden</i>			1				1				—
<i>worthington</i>						2	2				—
TOTAL	10	2	4	22	2	34	74	5	—	13	18
ALL OTHER*	1	—	7	5	2	13	28	11	—	5	16
TOTAL	11	2	11	27	4	47	102	16	—	18	34

*See Table IV.

TABLE III - Continued

WILD ANIMALS AND BIRDS	FISH, REPTILES, AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUM. TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
2						1	1		6	10	<i>anatum</i>
							-		-	7	<i>bareilly</i>
1	3			1		1	2		4	4	<i>blockley</i>
1							-		4	8	<i>braenderup</i>
							-		1	10	<i>bredeney</i>
							-		-	-	<i>chester</i>
1							-		-	-	<i>cholerae-suis v kun</i>
1	1						-		1	3	<i>cubana</i>
							-	1	4	19	<i>derby</i>
						3	3		10	13	<i>enteritidis</i>
3							-	1	6	7	<i>give</i>
7							-	3	16	31	<i>heidelberg</i>
5							-		5	10	<i>indiana</i>
2	4			1		2	3	2	14	23	<i>infantis</i>
	2			1			1		4	8	<i>java</i>
	14					3	3		3	4	<i>javana</i>
							-		14	30	<i>litchfield</i>
							-		2	7	<i>livingstone</i>
1	1						-		3	23	<i>manhattan</i>
							-	1	1	1	<i>miami</i>
							-		-	-	<i>mississippi</i>
1	3					1	1	15	3	13	<i>montevideo</i>
							-		19	20	<i>muenchen</i>
							-		1	2	<i>newington</i>
6	1					4	4	3	18	32	<i>newport</i>
	4			1			1	11	19	37	<i>oranienburg</i>
	4						-		1	1	<i>panama</i>
							-		4	5	<i>paratyphi B</i>
							-		-	1	<i>reading</i>
1							-	20	21	26	<i>saint-paul</i>
							-		1	3	<i>san-diego</i>
							-		-	2	<i>schwarzengrund</i>
1						1	1		8	40	<i>senftenberg</i>
							-		-	7	<i>tennessee</i>
	2					1	1		5	6	<i>thompson</i>
							-		-	-	<i>typhi</i>
17	2			2			2	10	71	146	<i>typhimurium</i>
							-		1	4	<i>typhimurium v cop</i>
							-	1	2	10	<i>weltevreden</i>
	2						-		4	6	<i>worthington</i>
50	43	-	-	6	-	17	23	68	276	579	TOTAL
10	7	4	1	1	-	11	17	14	92	178	ALL OTHER*
60	50	4	1	7	-	28	40	82	368	757	TOTAL

TABLE IV. OTHER SALMONELLAE REPORTED FROM NONHUMAN SOURCES, SECOND QUARTER, 1973

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>agona</i>						1	1				-
<i>albany</i>							-				-
<i>berta</i>				1			1				-
<i>binza</i>							-	1			1
<i>california</i>						1	1	1			1
<i>carrau</i>						1	1				-
<i>cerro</i>						2	2				-
<i>cholerae-suis</i>			7				7				-
<i>drypool</i>						2	2			1	1
<i>dublin</i>				4			4				-
<i>duesseldorf</i>							-				-
<i>eimsbuettel</i>						1	1				-
<i>habana</i>							-			2	2
<i>kentucky</i>							-	1			1
<i>kenya</i>							-				-
<i>lexington</i>						1	1				-
<i>lomita</i>						1	1				-
<i>london</i>							-				-
<i>luciana</i>							-				-
<i>manila</i>							-			1	1
<i>minnesota</i>					2		2				-
<i>new-brunswick</i>							-				-
<i>ohio</i>							-	8			8
<i>oslo</i>						1	1				-
<i>pomona</i>							-				-
<i>poona</i>							-				-
<i>pullorum</i>							-				-
<i>rubislaw</i>	1					2	3				-
<i>saphra</i>							-				-
<i>siegburg</i>							-				-
<i>thomasville</i>							-			1	1
<i>urbana</i>							-				-
<i>usumbura</i>							-				-
<i>virchow</i>							-				-
TOTAL	1	-	7	5	2	13	28	11	-	5	16
NOT TYPED*	-	-	-	-	-	-	-	-	-	-	-
TOTAL	1	-	7	5	2	13	28	11	-	5	16

*SEE TABLE V-B.

TABLE IV - Continued

WILD ANIMALS AND BIRDS	FISH, REPTILES, AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUM. TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
							-	2	1	15	<i>agona</i>
							-		2	2	<i>albany</i>
							-		1	1	<i>berta</i>
			1				-		1	12	<i>binza</i>
							1		3	4	<i>california</i>
							-		1	1	<i>carrau</i>
							-		2	2	<i>cerro</i>
							-		7	10	<i>cholerae-suis</i>
							-		3	3	<i>drypool</i>
							-		4	12	<i>dublin</i>
							-	1	1	1	<i>duesseldorf</i>
2	1						-		1	2	<i>eimsbuettel</i>
							-		5	6	<i>habana</i>
	1					3	3		4	7	<i>kentucky</i>
							-		1	1	<i>kenya</i>
							-		1	2	<i>lexington</i>
1				1			-		1	1	<i>lomita</i>
							1		2	3	<i>london</i>
						2	2		2	2	<i>luciana</i>
							-		1	1	<i>manila</i>
							-		2	4	<i>minnesota</i>
						2	2		2	2	<i>new-brunswick</i>
							-		8	9	<i>ohio</i>
	1						-		1	2	<i>oslo</i>
							-		1	1	<i>pomona</i>
							-		1	2	<i>poona</i>
1						1	1		1	2	<i>pullorum</i>
							-	1	4	6	<i>rubislaw</i>
							-		1	1	<i>saphra</i>
6		4					4		10	15	<i>siegburg</i>
							-		1	1	<i>thomasville</i>
							-	7	7	14	<i>urbana</i>
	2						-	1	1	1	<i>usumbura</i>
							-		2	2	<i>virchow</i>
10	5	4	1	1	-	9	15	12	86	171	TOTAL
-	2	-	-	-	-	2	2	2	6	7	NOT TYPED*
10	7	4	1	1	-	11	17	14	92	178	TOTAL

TABLE V. SALMONELLAE REPORTED BY GROUP IDENTIFICATION ONLY
SECOND QUARTER, 1973

A. HUMAN SOURCES

REPORTING CENTER	GROUP											TOTAL
	B	C	C1	C2	D	E	E1	G	H	W	UNK	
ALABAMA											1	1
ALASKA	6		5		1							12
ARKANSAS	4			1				1				6
DELAWARE							1					1
DISTRICT OF COLUMBIA	2	1	1	4	1						4	13
FLORIDA											1	1
GEORGIA			1								1	2
ILLINOIS	3											3
IOWA	2										1	3
MARYLAND	1	1										2
MASSACHUSETTS			1									1
MINNESOTA	1											1
NEBRASKA	4											4
NEW HAMPSHIRE	8		2	2	2							14
NEW MEXICO	51		11	7		4		1				74
NEW YORK - A	32	2	2	2	4	1			1		25	69
NEW YORK - B	3			1							1	5
OREGON	1											1
RHODE ISLAND	6	1		2	3	1					2	15
TENNESSEE	2				2							4
TEXAS				2	1						1	6
UTAH					2							2
VERMONT												1
WISCONSIN	4										3	7
WYOMING	1	1			1							3
TOTAL	131	6	23	21	17	6	1	2	1	1	42	251

B. NONHUMAN SOURCES

SOURCES	GROUP											TOTAL
	B	C	C1	C2	D	E	E1	G	H	W	UNK	
DOMESTIC ANIMALS AND THEIR ENVIRONMENT												
ANIMAL FEEDS												
WILD ANIMALS AND BIRDS												
FISH, REPTILES, AND ENVIRONMENT			1									1
HUMAN DIETARY ITEMS							2					
MISCELLANEOUS	1							1				
TOTAL	1	-	1	-	-	-	2	1	-	-	1	6

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NOTE

The data contained in the tables and summarized in sections I and II deal only with isolates reported to CDC by state and other reference laboratories. Extrapolation from these data to aspects of the total incidence of salmonellosis in the United States should be made only with caution, and references to the data should be appropriately qualified.

I. SUMMARY

In the third quarter of 1973, 8,505 isolations of salmonella were reported from humans, an average of 654 isolations per week (Tables I, II, and V-A). This number represents an increase of 215 (49.0%) over the weekly average for the second quarter of 1973 and an increase of 67 (11.4%) over the weekly average for the third quarter of 1972. The average number of human isolations reported per week for each month and for the quarter are provided below for the last 3 years.

	<u>1971</u>	<u>1972</u>	<u>1973</u>
July	666	487	589
August	632	597	681
September	638	674	687
Third quarter	645	587	654

Reports of 376 nonhuman isolates of salmonella were received during the third quarter of 1973 (Tables III, IV, and V-B).

II. REPORTS OF ISOLATIONS

The 10 most frequently reported serotypes during the third quarter:

HUMAN				NONHUMAN		
Serotype	Number	Percent	Rank last quarter	Serotype	Number	Percent
<u>typhimurium*</u>	2,734	32.1	1	<u>typhimurium*</u>	107	28.5
<u>newport</u>	713	8.4	3	<u>senftenberg</u>	32	8.5
<u>enteritidis</u>	428	5.0	2	<u>eimsbuettel</u>	13	3.5
<u>infantis</u>	417	4.9	6	<u>newport</u>	13	3.5
<u>saint-paul</u>	386	4.5	4	<u>anatum</u>	12	3.2
<u>heidelberg</u>	379	4.5	5	<u>infantis</u>	12	3.2
<u>agona</u>	321	3.8	8	<u>litchfield</u>	12	3.2
<u>typhi</u>	213	2.5	7	<u>montevideo</u>	12	3.2
<u>montevideo</u>	195	2.3	16	<u>java</u>	10	2.7
<u>javiana</u>	185	2.2	17	<u>saint-paul</u>	9	2.4
Total	5,971	70.2		Total	232	61.7
TOTAL (all serotypes)	8,505	100.0		TOTAL (all serotypes)	376	100.0
*Includes var. <u>copenhagen</u>	78	0.9		*Includes var. <u>copenhagen</u>	10	2.7

III. REPORTS FROM THE STATES

A. Reports of Salmonella Outbreaks Received During the Third Quarter, 1973

This table lists investigated outbreaks of salmonellosis reported to CDC from various sources. Definitions of cases and of numbers at risk are not uniform from report to report. This listing should be considered neither comprehensive nor representative of all outbreaks in the United States, as most outbreaks are probably not reported to CDC.

State	Month of outbreak	Location	Serotype	Number			Deaths	Mode of transmission	Comments	
				Ill	At risk	With positive cultures				
Maryland	January	Carroll Co.	<u>S. typhimurium</u>	4	>450	6	5	1	person to person	Hospital outbreak.
				4	?	5	2	0	?	Associated family outbreaks.
California	February	Colton	<u>S. thompson</u>	≥33	48	33	3	0	chicken molé * and potato salad *	Birthday party with food taken home by guests.
Montana	December-April	Dillon	<u>S. typhimurium</u>	10	19	6	7	0	?cattle to person	Outbreak on a farm.
Maryland	April	Frederick Co.	<u>S. typhi</u>	1	?	2	1	?	known carrier	Outbreak on a farm.
Massachusetts	"	Wareham	<u>S. chester</u>	61	?	43	16	0	roast beef* sandwiches	Outbreak in patrons of roadside restaurant.
California	May	North Hollywood	<u>S. chester</u>	66	86	42	≥2	0	turkey*	Outbreak at senior citizens' banquet.
Massachusetts	"	Boston	<u>S. enteritidis</u>	24	100-125	11	1	0	chicken salad* or potato salad	Catered party. Positive culture from food handler.
Arkansas	June	Little Rock	<u>S. agona</u>	~152	~200	24	and 6	3	barbecued beef* or sauce	Company picnic.
"	"	"	"	~92	~200	0	of 9	0	barbecued beef*	Wedding reception. } Outbreaks traced to common caterer.
"	"	"	"	~25	~50	0	food handlers	0	barbecued beef* and sauce	Club banquet.
"	"	"	<u>S. typhi</u>	4	?	1	?	?	not identified	Neighborhood children cared for by mother of index case.
Illinois	"	Broadview	<u>S. blockley</u>	61	81	2	and 2	0	beef in gravy*	Graduation dinner. } Among 190 events served by a common caterer.
"	"	Norridge	"	~87	130	3	of 5	2	beef in gravy	School luncheon. }
"	"	Wheaton	"	28	40	3	food handlers	1	" " "	Family party.
Georgia	July	Americus	<u>S. typhimurium</u>	7	9	1	2	0	homemade banana ice cream* made with farm-bought raw eggs	
Tennessee	"	Nashville	<u>S. typhimurium</u>	~12	~30	~12	?	?	not identified	Day care center for multiply handicapped children.
"	"	"	<u>S. java</u>	6	?	4	?	?	not identified	Rhamnose-negative strain in family outbreak.
Alabama, Florida	"	Baldwin Co.	<u>S. typhi</u>	2	?	2	?	?	food	Exposure at a hotel in Alabama.
Alabama	"	Mobile	<u>S. typhimurium</u>	5	5	4	4	0	calf feces	Outbreak in family exposed to sick calves.
"	July-August	Dothan	<u>S. typhi</u>	5	?	7	5	0	not identified	Outbreak among children cared for at grandmother's house.
Texas	July-August	San Antonio	<u>S. montevideo</u>	19	?	19	?	?	" "	
Oregon	July-September	Corvallis	<u>S. infantis</u>	104	>470	44	≥14	1	" "	Hospital outbreak.
Idaho	August	Coeur d' Alene	<u>S. london</u>	≥27	~80	9	0	0	baron of beef*	Banquet among boat excursionists.
Maryland	"	Baltimore	<u>S. heidelberg</u>	15	?	4	?	?	not identified	Nursing home outbreak.
Nebraska	"	Auburn	<u>S. enteritidis</u>	7	7	3	5	0	homemade ice cream* made from raw cream, eggs, and milk	Family outbreak.
Maine	September	Portland	<u>S. typhimurium</u>	35	?	33	35	0	egg nog dietary supplement made with raw eggs	Hospital outbreak.
Minnesota	"	Owatonna	<u>S. agona</u> , <u>S. infantis</u> , <u>S. schwarzengrund</u>	126	173	18	11	0	potato salad, chicken dressing	Outbreak after picnic and smorgasbord.

* culture-positive

IV. SPECIAL REPORTS

A. Salmonella Surveillance Annual Summary 1972--Erratum Page 3, paragraph 2: Change "5" to "6" in line 7.

TABLE 1. COMMON SALMONELLAE REPORTED FROM HUMAN SOURCES, THIRD QUARTER, 1973

SEROTYPE	GEOGRAPHIC DIVISION AND REPORTING CENTER																																
	NEW ENGLAND					MIDDLE ATLANTIC					EAST NORTH CENTRAL					WEST NORTH CENTRAL					SOUTH ATLANTIC												
	ME	NH	VT	MAS	RI	CON	NYA	NYB	NYC	NJ	PA	OH	IND	ILL	MIC	WIS	MIN	IOW	MO	ND	SD	NEB	KAN	DEL	MD	DC	VA	WVA	NC	SC	GA	FLA	
<i>anatum</i>				12	1	1	1	1	2	8	3	1	11	4	1		2					1		6				1		5	8		
<i>bareilly</i>				1				4	2	2	1	2	2	4	1			4				2				3		1	1	1			
<i>blockley</i>	2			3		5		1	4	2	8	3	9	6	1	1			5			1				1		5	2	6			
<i>braenderup</i>				2		3	2		2	1	3														1		2		1	1	1		
<i>bredeney</i>				1		2		2	2		3	2		3	4	1		1							1								
<i>chester</i>				8		3				2	12		1	2		2									12		2	1	2	2	5		
<i>cholerae-suis v kun</i>						1								4	2															1			
<i>cubana</i>						1				1			1	2																			
<i>derby</i>				3		5		3	5	4	11	6	1	21	9		2		9				1		10		2			5	19		
<i>enteritidis</i>				34	2	12		31	22	20	33	10	11	72	12	13	8	5	20		3	1	6	3	22	1	4		6	5	3	2	
<i>give</i>	1									2	1			1																1			
<i>heidelberg</i>	2		1	21	1	8		8	7	12	15	11	5	52	21	17	15		10	1			11	1	23		12		9	2	13	6	
<i>indiana</i>						2		2		1	1			1											3				1	1	2		
<i>infantis</i>	1			9		9		9	3	9	17	12	5	23	11	14	6	6	10	2	1		4		18	1	11		4	2	17	33	
<i>java</i>						1		1		1	4			9	2	2	1	2	4	1											3	4	
<i>javiana</i>				1						2	3			1	3								6		1		2		4	8	48		
<i>litchfield</i>					1	2				7	1	1	4	1	1		2	2							1	1		1	1	3	3		
<i>livingstone</i>								1									1																
<i>manhattan</i>								7	4	1	2	2		5	1	1								1	7		1		3	3	5		
<i>miami</i>				1						1																				1	22		
<i>mississippi</i>																		1													14	5	
<i>montevideo</i>	1		1	3		2		13	3	3	4	2	1	4	6	5	2		3					2	2		4	2	3	2	1	26	
<i>muenchen</i>				5		1		2	3	2	13		1	12	7	3	1		3				5		1	2	4		2	1	8	14	
<i>newington</i>						1				1									1												1		
<i>newport</i>	1			24	2	7	2	19	3	13	14	14	3	20	13	19	4	6	17				14	1	19	1	12		13	4	40	100	
<i>oranienburg</i>				2		3		5	2	6	1		1	6	3	2	3		15				1		4	1			5	3	14		
<i>panama</i>				2		2		5	3	2	2	1		3	3	1	3		3	1									1	3			
<i>paratyphi B</i>				2				1				2	2	1	5	1			7								3	4		1	3		
<i>reading</i>				4					1	1				1		3													1		1		
<i>saint-paul</i>	3			14		4		13	9	24	28	5	7	26	20	20	8	3	11	2			1	2	20	1	8	1	13	14	24		
<i>san-diego</i>				4				3						2	5																1	2	
<i>schwarzengrund</i>	1			5		2		2	1	1	2	1		1	1	2			1					1		1	3			2	1	1	
<i>senftenberg</i>				6						2			1	1	1	2	1			1											2	3	
<i>tennessee</i>								1	1	4	3			1									1		2			1	1	1	2		
<i>thompson</i>	6			4		1		4		3	5	3	2	7	9	6	1	1					1		6			4	3	9			
<i>typhi</i>				12		2	5	7	5	5	1	9		13	8				6					2	1	2	3	2	2	4	2	4	13
<i>typhimurium</i>	6	1	5	119	13	40	4	64	30	108	126	65	51	218	103	315	46	16	73	2	11		24	8	62	4	90	8	55	17	51	111	
<i>typhimurium v cop</i>	3			10		2			6					8		1	10	1		1			3										
<i>weltevreden</i>																																	
<i>worthington</i>																														1		1	1
TOTAL	27	1	7	312	20	122	14	209	111	240	330	157	104	534	268	431	105	53	209	10	18	1	82	23	223	16	174	19	140	42	218	489	
ALL OTHER*	-	15	6	25	15	11	120	22	7	12	30	6	8	76	28	28	8	20	30	2	1	19	13	1	30	37	12	1	15	2	22	36	
TOTAL	27	16	13	337	35	133	134	231	118	252	360	163	112	610	296	459	113	73	239	12	19	20	95	24	253	53	186	20	155	44	240	525	

Note: NYA—New York, Albany; NYB—Beth Israel Hospital; NYC—New York City. Beth Israel Hospital is a reference laboratory and this quarter serotypes a total of 314 cultures.

*See Table II.

TABLE I - Continued

GEOGRAPHIC DIVISION AND REPORTING CENTER																				TOTAL	% OF TOTAL	CUMULATIVE TOTAL	% OF CUMULATIVE TOTAL	SEROTYPE	
EAST S. CENTRAL				WEST S. CENTRAL				MOUNTAIN							PACIFIC										
KY	TEN	ALA	MIS	ARK	LA	OKL	TEX	MON	IDA	WYO	COL	NM	ARI	UTA	NEV	WAS	ORE	CAL	ALK						HAW
	1	1			1		14		1		1		1	1		1		10	1		102	1.2	247	1.3	<i>anatum</i>
	2	1	1	1	3	2	3						1					5			50	0.6	84	0.4	<i>bareilly</i>
	1				2	5	2						2					10			89	1.0	235	1.2	<i>blockley</i>
							9													4	33	0.4	75	0.4	<i>braenderup</i>
				1	3	1	4				2					1		3		5	43	0.5	103	0.5	<i>bredeny</i>
							1											49			104	1.2	202	1.1	<i>chester</i>
	2																				10	0.1	24	0.1	<i>cholerae-suis v kun</i>
		3	1		2		13									3		6		9	5	0.1	23	0.1	<i>cubana</i>
	5	10	6		2	2	1	13		5	2		2	1		1	1	16			153	1.8	404	2.1	<i>derby</i>
																					428	5.0	1,076	5.7	<i>enteritidis</i>
	1				1	5	11						1								26	0.3	52	0.3	<i>give</i>
		15	8	2	8	1	3	16					3		1	4	2	29		3	379	4.5	875	4.6	<i>heidelberg</i>
		3				1															18	0.2	65	0.3	<i>indiana</i>
	3	31	11	1	1	9	1	19			4		3			10	59	26		2	417	4.9	943	5.0	<i>infantis</i>
	1	15				2		1			2		2	1		1	5	16		2	83	1.0	250	1.3	<i>java</i>
		5	2	2	19	9		56					6			1	1	3			185	2.2	312	1.6	<i>javana</i>
		2			2	4		2	1									5			48	0.6	129	0.7	<i>litchfield</i>
		1						2										2			7	0.1	20	0.1	<i>livingstone</i>
		2				1							1					3		1	51	0.6	151	0.8	<i>manhattan</i>
																		1			26	0.3	44	0.2	<i>miami</i>
		7	12	3		11		1													54	0.6	90	0.5	<i>mississippi</i>
		14	3		2	8	2	40	1		7		2			11	2	8			195	2.3	336	1.8	<i>montevideo</i>
		4	13		4	9		10			1		3					3		3	140	1.6	313	1.6	<i>muenchen</i>
								1													6	0.1	16	0.1	<i>newington</i>
	2	15	16	2	43	23	14	141	2	6	6	9	1		4	5	31		8	713	8.4	1,337	7.0	<i>newport</i>	
		2	1			3	4	19			1				3	1	24				135	1.6	283	1.5	<i>oranienburg</i>
		4	2				1	12			1		1	1		4		13		26	100	1.2	260	1.4	<i>panama</i>
						3	13				3				2		2			1	52	0.6	107	0.6	<i>paratyphi B</i>
											1					3	6				22	0.3	61	0.3	<i>reading</i>
	2	21	7		6	5	2	11	2		4		1		14	1	25	1	3	386	4.5	895	4.7	<i>saint-paul</i>	
		1	1		1		3								1		11			1	41	0.5	122	0.6	<i>san-diego</i>
					1		2										1	1			29	0.3	72	0.4	<i>schwarz engrund</i>
						1	2				2		1		1	1	3			2	34	0.4	135	0.7	<i>senftenberg</i>
						2											1				23	0.3	47	0.2	<i>tennessee</i>
		7	2		6	1	3				3			1	2		19	1	11	139	1.6	309	1.6	<i>thompson</i>	
	5	2			11	9	3	13		1	1	5	4		3		40	8			213	2.5	513	2.7	<i>typhi</i>
	23	68	45	10	39	28	41	147	12	18	1	74	17	4	5	41	9	200	4	24	2,656	31.2	5,984	31.5	<i>thphimurium</i>
		3	8		5	1		1			3		4		1		5				78	0.9	172	0.9	<i>typhimurium v cop</i>
											1										28	0.3	92	0.5	<i>weltveden</i>
																					7	0.1	40	0.2	<i>worthington</i>
48	245	133	21	149	152	83	586	17	27	7	119	5	64	11	7	108	96	572	16	133	7,308	85.9	16,498	86.8	TOTAL
3	33	17	2	103	66	6	65	2	2	4	3	93	8	1	4	18	8	62	8	31	1,197		2,514		ALL OTHER*
51	278	150	23	252	218	89	651	19	29	11	122	98	72	12	11	126	104	634	24	164	8,505		19,012		TOTAL

TABLE III. COMMON SALMONELLAE REPORTED FROM NONHUMAN SOURCES, THIRD QUARTER, 1973

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>anatum</i>				2			2				—
<i>bareilly</i>							—	2			2
<i>blockley</i>							—				—
<i>braenderup</i>							—				—
<i>bredeney</i>	1					1	2	1		3	4
<i>chester</i>							—				—
<i>cholerae-suis v kun</i>							—				—
<i>cubana</i>							—				—
<i>derby</i>			1				1			1	1
<i>enteritidis</i>			1			1	2				—
<i>give</i>							—				—
<i>heidelberg</i>			1				1				—
<i>indiana</i>							—				—
<i>infantis</i>							—		4		4
<i>java</i>							—				—
<i>javiana</i>					1		1				—
<i>litchfield</i>							—				—
<i>livingstone</i>							—				—
<i>manhattan</i>							—				—
<i>miami</i>							—				—
<i>mississippi</i>							—				—
<i>montevideo</i>						2	2	8		1	9
<i>muenchen</i>						4	4				—
<i>newington</i>							—				—
<i>newport</i>				1		4	5				—
<i>oranienburg</i>							—	1		1	2
<i>panama</i>			4			1	5				—
<i>paratyphi B</i>							—				—
<i>reading</i>							—				—
<i>saint-paul</i>				3		3	6	1			1
<i>san-diego</i>							—				—
<i>schwarzengrund</i>							—				—
<i>senftenberg</i>					2		2	23	2	3	3
<i>tennessee</i>							—			2	27
<i>thompson</i>							—				—
<i>typhi</i>							—				—
<i>typhimurium</i>	1			43	14	20	78	1		1	2
<i>typhimurium v cop</i>				7			7				—
<i>weltevreden</i>			1			2	3				—
<i>worthington</i>							—				—
TOTAL	2	—	8	56	17	38	121	37	2	16	55
ALL OTHER*	—	—	5	4	—	4	13	17	2	9	28
TOTAL	2	—	13	60	17	42	134	54	4	25	83

*See Table IV

TABLE III - Continued

WILD ANIMALS AND BIRDS	FISH, REPTILES, AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUM. TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
6			1	1		2	4		12	22	<i>anatum</i>
1	6			3		2	—		2	9	<i>bareilly</i>
				1			—		6	10	<i>blockley</i>
							—		6	14	<i>braenderup</i>
							1	1	8	18	<i>bredeney</i>
				2			2		2	2	<i>chester</i>
							—		—	—	<i>cholerae-suis v kun</i>
							—	1	1	4	<i>cubana</i>
	1		1	1			1	1	4	23	<i>derby</i>
							1	2	6	19	<i>enteritidis</i>
1	1						—	1	2	9	<i>give</i>
							—		2	33	<i>heidelberg</i>
				2			2		2	12	<i>indiana</i>
	8		2	2			4	4	12	35	<i>infantis</i>
							—	2	10	18	<i>java</i>
	1						—		2	6	<i>javiana</i>
	12						—		12	42	<i>litchfield</i>
				2			2	1	3	26	<i>manhattan</i>
							—	1	1	2	<i>miami</i>
1							—		—	—	<i>mississippi</i>
1							—		12	25	<i>montevideo</i>
							—	1	6	26	<i>muenchen</i>
4	2						—		—	2	<i>newington</i>
							—	2	13	45	<i>newport</i>
				1			1		3	40	<i>oranienburg</i>
							—		5	6	<i>panama</i>
1							—		—	5	<i>paratyphi B</i>
2							—		1	2	<i>reading</i>
							—		9	35	<i>saint-paul</i>
							—		—	3	<i>san-diego</i>
							—		3	5	<i>schwarzengrund</i>
						1	1	2	32	72	<i>senftenberg</i>
	1						—		—	7	<i>tennessee</i>
						2	2		3	9	<i>thompson</i>
4	6				1	1	—	5	—	—	<i>typhi</i>
3							2		97	243	<i>typhimurium</i>
							—		10	14	<i>typhimurium v cop</i>
							—		3	13	<i>weltevreden</i>
							—		—	6	<i>worthington</i>
24	38	—	4	15	1	8	28	25	291	870	TOTAL
15	14	—	1	5	—	5	11	4	85	263	ALL OTHER*
39	52	—	5	20	1	13	39	29	376	1,133	TOTAL

TABLE IV. OTHER SALMONELLAE REPORTED FROM NONHUMAN SOURCES, THIRD QUARTER, 1973

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>agona</i>			1				1				-
<i>alachua</i>							-	1			1
<i>albany</i>							-		1		1
<i>amsterdam</i>							-			1	1
<i>cairo</i>							-				-
<i>cerro</i>							-	1			1
<i>cholerae-suis</i>			4				4				-
<i>concord</i>							-				-
<i>degania</i>							-				-
<i>drypool</i>							-	2			2
<i>eimsbuettel</i>						1	1	9		3	12
<i>good</i>							-				-
<i>habana</i>							-				-
<i>halle</i>							-				-
<i>hartford</i>							-				-
<i>kandla</i>							-				-
<i>kentucky</i>							-			1	1
<i>lexington</i>							-				-
<i>lohbruegge</i>							-				-
<i>london</i>							-			3	3
<i>manila</i>							-	2			2
<i>new-brunswick</i>							-	1			1
<i>norwich</i>						1	1				-
<i>ohio</i>							-		1		1
<i>omifisan</i>							-				-
<i>onderstepoort</i>							-				-
<i>orion</i>						1	1				-
<i>poona</i>							-				-
<i>siegburg</i>							-	1		1	2
<i>sundsvall</i>							-				-
<i>urbana</i>							-				-
<i>zanzibar</i>							-				-
TOTAL	-	-	5	-	-	3	8	17	2	9	28
NOT TYPED*	-	-	-	4	-	1	5	-	-	-	-
TOTAL	-	-	5	4	-	4	13	17	2	9	28

*SEE TABLE VB

TABLE IV - Continued

WILD ANIMALS AND BIRDS	FISH, REPTILES, AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUMULATIVE TOTAL	SEROTYPE
		EGGS PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
2				1		2	3	1	5	20	<i>agona</i>
1							-		3	9	<i>alachua</i>
							-		1	3	<i>albany</i>
							-		1	5	<i>amsterdam</i>
							-		1	1	<i>cairo</i>
1							-		2	4	<i>cerro</i>
1	1						-		4	14	<i>cholerae-suis</i>
							-		1	1	<i>concord</i>
							-	1	1	1	<i>degania</i>
							-		3	6	<i>drypool</i>
4							-		13	15	<i>eimsbuettel</i>
	1						-		4	4	<i>good</i>
				1			-		1	7	<i>habana</i>
	1						1		1	1	<i>halle</i>
							-		1	2	<i>hartford</i>
1	1						-		1	1	<i>kandla</i>
							-		1	8	<i>kentucky</i>
	1						-		1	3	<i>lexington</i>
							-		1	1	<i>lohbruegge</i>
				2			2		5	8	<i>london</i>
							-		2	3	<i>manila</i>
							-		1	3	<i>new-brunswick</i>
							-		1	1	<i>norwich</i>
	1						-		1	10	<i>ohio</i>
							-		1	1	<i>omifisan</i>
	1						-		1	1	<i>onderstepoort</i>
							-		1	2	<i>orion</i>
5				1		1	2		2	4	<i>poona</i>
							-		7	22	<i>siegburg</i>
						1	1		1	1	<i>sundsvall</i>
	2						-		2	16	<i>urbana</i>
	1						-		1	1	<i>zanzibar</i>
15	10	-	-	5	-	4	9	2	72	243	TOTAL
-	4	-	1	-	-	1	2	2	13	20	NOT TYPED*
15	14	-	1	5	-	5	11	4	85	263	TOTAL

TABLE V. SALMONELLAE REPORTED BY GROUP IDENTIFICATION ONLY
THIRD QUARTER, 1973

A. HUMAN SOURCES

REPORTING CENTER	GROUP													TOTAL	
	A	B	C	C1	C2	D	E	F	G	H	I	O	UNK		
ALABAMA		1				1									2
ALASKA		4	2			1									7
ARIZONA														1	1
ARKANSAS		5		1	6				1	1					14
CALIFORNIA												1			1
CONNECTICUT		1													1
DISTRICT OF COLUMBIA		16	1	2	2	5								10	36
FLORIDA							1							3	4
ILLINOIS		2									1				3
IOWA		4			1	1	1		1					4	12
MARYLAND														2	2
MICHIGAN		1													1
MINNESOTA														1	1
MISSISSIPPI														2	2
MISSOURI		1												4	5
NEBRASKA		10				9									19
NEW HAMPSHIRE		12		1	2										15
NEW MEXICO	1	66		8	10	4	2		2						93
NEW YORK - A		84	4	5	10	7	2		1		1			4	118
NEW YORK - B		1		2	1									1	5
OHIO		1													1
OKLAHOMA								1							1
OREGON		2			2									2	6
RHODE ISLAND		7		4		1								3	15
TENNESSEE		2													2
TEXAS		4		1						1				1	7
UTAH				1											1
VERMONT														5	5
VIRGINIA									1						1
WISCONSIN		1								1				7	9
WYOMING		1	1											2	4
TOTAL	1	226	8	25	34	29	6	1	6	3	2	1	52	394	

B. NONHUMAN SOURCES

SOURCES	GROUP													TOTAL	
	A	B	C	C1	C2	D	E	F	G	H	I	O	UNK		
DOMESTIC ANIMALS AND THEIR ENVIRONMENT		3					1							1	5
ANIMAL FEEDS															-
WILD ANIMALS AND BIRDS															-
FISH, REPTILES, AND ENVIRONMENT					2								2		4
HUMAN DIETARY ITEMS														2	2
MISCELLANEOUS		1		1											2
TOTAL	-	4	-	1	2	-	1	-	-	-	-	2	3	13	

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STATE LABORATORY DIRECTORS**

The State Epidemiologists are the key to all disease surveillance activities. They are responsible for collecting, interpreting, and transmitting data and epidemiologic information from their individual States. Their contributions to this report are gratefully acknowledged. In addition, valuable contributions are made by State Laboratory Directors; we are indebted to them for their valuable support.

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