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SALMONELLA

SURVEILLANCE

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FOR THE MONTH OF MAY 1969

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE/PUBLIC HEALTH SERVICE
Health Services and Mental Health Administration

PREFACE

Summarized in this report is information received from State and City Health Departments, university and hospital laboratories, the National Animal Disease Laboratory (USDA, ARS), Ames, Iowa, 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

National Communicable Disease Center
Attn: Chief, Salmonellosis Unit
Epidemiology Program
Atlanta, Georgia 30333

National Communicable Disease Center	David J. Sencer, M.D., Director
Epidemiology Program	Alexander D. Langmuir, M.D., Director
Bacterial Diseases Branch	Philip S. Brachman, M.D., Chief John V. Bennett, M.D., Deputy Chief
Enteric Diseases Section.....	Eugene J. Gangarosa, M.D., Chief
Salmonellosis Unit	Bernard Aserkoff, M.D., Chief Andrew Mallory, M.D.
Statistics Section	Stanley M. Martin, M.S. Theodore P. Feury, Jr., M.S.
Veterinary Public Health Section.....	James H. Steele, D.V.M., Chief
Epidemiological Services Laboratory Section	Philip S. Brachman, M.D., Acting Chief
Salmonella Laboratory Unit	George K. Morris, Ph.D., Chief

Collaborators

Laboratory Division

Bacteriology Section

Enteric Bacteriology Unit	William H. Ewing, Ph.D., Chief William J. Martin, Ph.D., Asst. Chief
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July 3, 1969

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I. SUMMARY

In May 1969, 1,455 isolations of salmonellae were reported from humans, an average of 364 isolations per week (Tables I, II, and V-A). This number represents an increase of 43 (13.4 percent) over the weekly average of April 1969 and an increase of 5 (1.4 percent) over the weekly average of May 1968.

Reports of 699 nonhuman isolations of salmonellae were received during May 1969 (Tables II, IV, and V-B).

II. REPORTS OF ISOLATIONS

The ten most frequently reported serotypes during May:

HUMAN				NONHUMAN		
Serotype	Number	Percent	Rank Last Month	Serotype	Number	Percent
1 <u>typhi-murium*</u>	403	27.7	1	<u>typhi-murium*</u>	139	19.9
2 <u>enteritidis</u>	157	10.8	2	<u>heidelberg</u>	92	13.2
3 <u>thompson</u>	129	8.9	6	<u>cholerae-suis</u>		
				<u>var. kuzendorf</u>	58	8.3
4 <u>newport</u>	101	6.9	5	<u>anatum</u>	41	5.9
5 <u>infantis</u>	99	6.8	4	<u>saint-paul</u>	35	5.0
6 <u>heidelberg</u>	67	4.6	3	<u>infantis</u>	26	3.7
7 <u>saint-paul</u>	57	3.9	7	<u>san-diego</u>	26	3.7
8 <u>typhi</u>	37	2.5	8	<u>blockley</u>	18	2.6
9 <u>blockley</u>	36	2.5	9	<u>senftenberg</u>	16	2.3
10 <u>derby</u>	19	1.3	10	<u>dublin</u>	13	1.9
				<u>eimsbuettel</u>	13	1.9
				<u>siegburg</u>	13	1.9
Total	1,105	75.9		Total	490	70.1
TOTAL (all serotypes)	1,455			TOTAL (all serotypes)	699	
*Includes <u>var. copenhagen</u>	17	1.2		*Includes <u>var. copenhagen</u>	34	4.9

The major part of the increase in Salmonella thompson isolations this month resulted from a large foodborne outbreak in Maine from which 54 isolations were obtained.

III. CURRENT INVESTIGATIONS

None

IV. REPORTS FROM THE STATES

None

V. SPECIAL REPORTS

None

VI. INTERNATIONAL

None

STATE EPIDEMIOLOGISTS AND STATE LABORATORY DIRECTORS

Key to all disease surveillance activities are the physicians who serve as State epidemiologists. They are responsible for collecting, interpreting, and transmitting data and epidemiological 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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Wyoming	Herman S. Parish, M.D.	Donald T. Lee, Dr.P.H.

TABLE I. COMMON SALMONELLAE REPORTED FROM HUMAN SOURCES, MAY 1969

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>										1					1							1								1		
<i>bareilly</i>										1																						
<i>blockley</i>				2	2	1		2		2	1	2	1	1	2		1	1							4	2	2		1	1		
<i>braenderup</i>						2				1				3																		
<i>bredeney</i>								2																	2				1	1	1	
<i>chester</i>																1		2	1													
<i>cholerae-suis v kun</i>																							1				1			1		
<i>cubana</i>								1					1										1			1				1		
<i>derby</i>									1	4			5			1								2	1					1		
<i>enteritidis</i>				23	2	5	6	11		36	6	5	7	2	7	11				2			1	4	2			2	4	1		
<i>give</i>										3																						
<i>heidelberg</i>				2		2	2	1	3	10	2		2	5		5		1				2		3		2			4	2		
<i>indiana</i>						1							1											1		1			3			
<i>infantis</i>	1			4		5		5	7	4	3	3	8	2	2			1	1			1	1	6		2	3	2	3			
<i>java</i>															1	1	1															
<i>javiana</i>																														1		
<i>litchfield</i>								1	1					1																		
<i>livingstone</i>									1																							
<i>manhattan</i>										3		1	1	1															1			
<i>miami</i>				1																								1	1	2		
<i>mississippi</i>										1																				1		
<i>montevideo</i>										3	1	1	3																			
<i>muenchen</i>												1	1	2										1				1		1		
<i>newington</i>						2						1																				
<i>newport</i>							3	1	2	7	3	1	6	2	13		2						1	3			1		5			
<i>oranienburg</i>				3					1			1																		1		
<i>panama</i>										1	2		1						1									2				
<i>paratyphi B</i>				1									2	3					1					1								
<i>reading</i>				1																												
<i>saint-paul</i>				1			3	1	2	6	2	1	1	2	2			1					1	5			2	1	5			
<i>san-diego</i>				1				1		2					1															1		
<i>schwarzengrund</i>						3																										
<i>senftenberg</i>				3		1																										
<i>tennessee</i>								1															2									
<i>thompson</i>	54			19				4		1	6		7	1	15	1		1				1	1			1	4		6			
<i>typhi</i>	1			1			2					1		1		1		2							4	1	2	1	2			
<i>typhimurium</i>	4			10	6	11	1	23	16	7	27	14	7	34	13	14	5	5	5				2	3	11	2	6	1	8	9	13	
<i>typhimurium v cop</i>				6		2								1				2														
<i>weltevreden</i>													1																			
<i>worthington</i>													1																	1		
TOTAL	60	—	—	78	10	35	3	46	41	23	114	40	26	79	38	60	26	11	16	5	—	—	10	7	44	6	16	6	28	—	41	36
ALL OTHER*	—	9	—	4	3	—	22	2	2	3	1	—	—	4	2	3	5	1	—	2	—	—	—	—	3	8	1	1	2	—	3	1
TOTAL	60	9	—	82	13	35	25	48	43	26	115	40	26	83	40	63	31	12	16	7	—	—	10	7	47	14	17	7	30	—	44	37

Note: NYA - New York, Albany; NYB - Beth Israel Hospital; NYC - New York City.
Beth Israel Hospital laboratory is a reference laboratory and this month serotyped a total of 93 cultures.

* See Table II.

TABLE I - Continued

GEOGRAPHIC DIVISION AND REPORTING CENTER																				TOTAL	% OF TOTAL	CUMU- LATIVE TOTAL	% OF CUMU- LATIVE 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											1			7	0.5	58	0.8	<i>anatum</i>
		1					2											4		1	2	0.1	24	0.3	<i>bareilly</i>
																					36	2.5	187	2.7	<i>blockley</i>
																					6	0.4	39	0.6	<i>braenderup</i>
																		3			10	0.7	48	0.7	<i>bredeney</i>
	1																				4	0.3	17	0.2	<i>chester</i>
	2																				1	0.1	5	0.1	<i>cholerae-suis v kun</i>
					2						1										7	0.5	54	0.8	<i>cubana</i>
					3																2	1.3	120	1.7	<i>derby</i>
1	2		1					2								2		7		2	157	10.8	626	9.0	<i>enteritidis</i>
		3	5		1		3						5					2			6	0.4	30	0.4	<i>give</i>
		1	1		2															1	67	4.6	461	6.7	<i>heidelberg</i>
					18	1	5				2										8	0.5	38	0.5	<i>indiana</i>
					1								1								99	6.8	452	6.5	<i>infantis</i>
																	1	7			13	0.9	53	0.8	<i>java</i>
					1																6	0.4	83	1.2	<i>javiana</i>
		1																			4	0.3	28	0.4	<i>litchfield</i>
					1						1										9	0.6	16	0.2	<i>livingstone</i>
	1												1				1	5			16	1.1	79	1.1	<i>manhattan</i>
																					5	0.3	36	0.5	<i>miami</i>
					1																3	0.2	6	0.1	<i>mississippi</i>
							1										1	3			14	1.0	89	1.3	<i>montevideo</i>
																					11	0.8	66	1.0	<i>muenchen</i>
					10		11				3						2	3	20		3	0.2	9	0.1	<i>newington</i>
																					101	6.9	438	6.3	<i>newport</i>
					3						1						1	7			18	1.2	82	1.2	<i>oranienburg</i>
																	2			1	10	0.7	82	1.2	<i>panama</i>
				1		1	1		1									1			14	1.0	66	1.0	<i>paratyphi B</i>
																	8				9	0.6	22	0.3	<i>reading</i>
		2					6				1					1	2	8		1	57	3.9	324	4.7	<i>saint-paul</i>
1	1																	1			9	0.6	20	0.3	<i>san-diego</i>
																					4	0.3	26	0.4	<i>schwarzengrund</i>
		1																			5	0.3	29	0.4	<i>senftenberg</i>
					1				3												3	0.2	18	0.3	<i>tennessee</i>
																					129	8.9	362	5.2	<i>thompson</i>
3					3		4						1				4	3			37	2.5	187	2.7	<i>typhi</i>
1	6	6	2		11	3	15	2	11		5		3	2				51		2	386	26.5	1899	27.4	<i>typhimurium</i>
		1			1				1												17	1.2	85	1.2	<i>typhimurium v cop</i>
																					3	0.2	15	0.2	<i>weltevreden</i>
																					3	0.2	12	0.2	<i>worthington</i>
7	17	20	3	2	60	5	49	4	16	-	14	-	11	2	-	27	15	150	-	11	1318	90.6	6291	90.9	TOTAL
-	-	1	3	5	3	2	13	2	-	-	1	9	1	-	-	2	2	9	2	-	137		633		ALL OTHER *
7	17	21	6	7	63	7	62	6	16	-	15	9	12	2	-	29	17	159	2	11	1455		6924		TOTAL

TABLE II. OTHER SALMONELLAE REPORTED FROM HUMAN SOURCES, MAY 1969

SEROTYPE	REPORTING CENTER																							
	ALA	ALK	ARI	ARK	CAL	COL	DC	FLA	GA	ILL	IOW	LA	MD	MAS	MIC	MIN	MIS	MON	NH	NJ	NM	NYA	NYB	NYC
<i>albany</i>																								
<i>amager</i>					1																			
<i>atlanta</i>									1															
<i>belem</i>					3																			
<i>berta</i>	1																							
<i>brandenburg</i>													1											
<i>cerro</i>																							1	
<i>cholerae-suis</i>						1						1												
<i>drypool</i>																								
<i>dublin</i>					2																			
<i>eastbourne</i>																							1	
<i>eimsbuettel</i>										1														
<i>gaminara</i>																								
<i>grumpensis</i>																								
<i>jangwani</i>																								
<i>kentucky</i>																								
<i>kottbus</i>													1											
<i>lindenburg</i>																								
<i>loma-linda</i>					1																			
<i>london</i>													1											
<i>muenster</i>									2												3			
<i>new-brunswick</i>										1							1							
<i>oslo</i>																								
<i>paratyphi A</i>					1																			
<i>paratyphi B odense</i>			1																					
<i>pomona</i>										1														
<i>siegburg</i>																	3							
<i>simsbury</i>														4										
<i>stanley</i>																								
<i>urbana</i>																	1							
TOTAL	1	-	1	-	8	1	-	-	3	3	-	1	3	4	-	5	-	-	-	3	-	-	2	-
NOT TYPED*	-	2	-	5	1	-	8	1	-	1	1	2	-	-	2	-	3	2	9	-	9	22	-	2
TOTAL	1	2	1	5	9	1	8	1	3	4	1	3	3	4	2	5	3	2	9	3	9	22	2	2

* See Table V-A

TABLE II - Continued

REPORTING CENTER													TOTAL	CUMULATIVE TOTAL	SEROTYPE	
NC	ND	OKL	ORE	PA	RI	TEX	VA	WAS	WVA	WIS						
				1										1	6	<i>albany</i>
														1	3	<i>amager</i>
														1	2	<i>atlanta</i>
						1								3	3	<i>belem</i>
														2	8	<i>berta</i>
														1	1	<i>brandenburg</i>
														1	3	<i>cerro</i>
						1								3	5	<i>cholerae-suis</i>
							1							1	3	<i>drypool</i>
														2	3	<i>dublin</i>
														1	1	<i>eastbourne</i>
								2						3	14	<i>eimsbuettel</i>
						1								1	1	<i>gaminara</i>
										2				2	3	<i>grumpensis</i>
									1					1	1	<i>jangwani</i>
										1				1	4	<i>kentucky</i>
														1	1	<i>kottbus</i>
		1												1	1	<i>lindenburg</i>
														1	1	<i>loma-linda</i>
														1	3	<i>london</i>
														5	11	<i>muenster</i>
2		1												2	4	<i>new-brunswick</i>
														3	6	<i>oslo</i>
														1	5	<i>paratyphi A</i>
														1	2	<i>paratyphi B odense</i>
														1	4	<i>pomona</i>
														3	9	<i>siegburg</i>
						1								4	13	<i>simsbury</i>
														1	7	<i>stanley</i>
	2													3	9	<i>urbana</i>
2	2	2	—	1	—	4	1	2	1	3				53	234	TOTAL
—	—	—	2	—	3	9	—	—	—	—				84	399	NOT TYPED*
2	2	2	2	1	3	13	1	2	1	3				137	633	TOTAL

Cumulative Totals include isolations of all serotypes (except those listed in Table I) reported this year.

TABLE III. COMMON SALMONELLAE REPORTED FROM NONHUMAN SOURCES, MAY 1969

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>anatum</i>	6	23	2	1			32	3			3
<i>bareilly</i>			1				1				1
<i>blockley</i>	10	8					18				18
<i>braenderup</i>							1				1
<i>bredeney</i>	1			2			3	2			2
<i>chester</i>		5					5				5
<i>cholerae-suis v kun</i>			58				58				58
<i>cubana</i>	1						1	2			2
<i>derby</i>	1		6				7	2			2
<i>enteritidis</i>	8		1				9				9
<i>give</i>		1					1				1
<i>heidelberg</i>	27	46	2	1			76	1			1
<i>indiana</i>	1						1				1
<i>infantis</i>	7	9	1				17	6		1	7
<i>java</i>							—				—
<i>javiana</i>							—				—
<i>litchfield</i>							—				—
<i>livingstone</i>							—	3			3
<i>manhattan</i>	2	1					3	1			1
<i>miami</i>							—				—
<i>mississippi</i>							—				—
<i>montevideo</i>	3	2				2	7	3		1	4
<i>muenchen</i>							—				—
<i>newington</i>							—				—
<i>newport</i>		2	2			1	5	1			1
<i>oranienburg</i>				1			1	3			3
<i>panama</i>							—				—
<i>paratyphi B</i>							—				—
<i>reading</i>	1	2					3				3
<i>saint-paul</i>	10	12		1		6	29	1			1
<i>san-diego</i>	1	22				1	24	1			1
<i>schwarzengrund</i>	1	6					7	1		2	3
<i>senftenberg</i>	1	12					13	3			3
<i>tennessee</i>	1	6					7	2			2
<i>thompson</i>	3	3	2			1	9				9
<i>typhi</i>							—				—
<i>typhimurium</i>	29	10	11	26	10	7	93				93
<i>typhimurium v cop</i>	24	1	2	1		2	30				30
<i>weltevreden</i>						1	1				1
<i>worthington</i>	3	3					6	2			2
TOTAL	141	174	88	33	10	21	467	37	—	4	41
ALL OTHER *	16	15	3	11	2	4	51	27	—	11	38
TOTAL	157	189	91	44	12	25	518	64	—	15	79

* See Table IV

TABLE III - Continued

WILD ANIMALS AND BIRDS	REPTILES AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUMULATIVE TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
	1						—	6	41	142	<i>anatum</i>
							—		1	16	<i>bareilly</i>
							—		18	68	<i>blockley</i>
							—		—	2	<i>braenderup</i>
							—		6	52	<i>bredeney</i>
							—		5	14	<i>chester</i>
							—		58	225	<i>cholerae-suis v kun</i>
				1			—		3	67	<i>cubana</i>
							1	1	11	69	<i>derby</i>
							—		9	71	<i>enteritidis</i>
5							—		6	22	<i>give</i>
3		2					2	10	92	420	<i>heidelberg</i>
							—		1	9	<i>indiana</i>
		2					2		26	113	<i>infantis</i>
							—		—	5	<i>java</i>
	1						—		1	3	<i>javana</i>
							—		—	2	<i>litchfield</i>
							—		3	37	<i>livingstone</i>
3	1						—		8	25	<i>manhattan</i>
							—		—	3	<i>miami</i>
							—		—	—	<i>mississippi</i>
							—	1	12	109	<i>montevideo</i>
	1						—	1	2	21	<i>muenchen</i>
							—		—	15	<i>newington</i>
	1	2	1				3		10	62	<i>newport</i>
	1						—		5	47	<i>oranienburg</i>
							—		—	5	<i>panama</i>
	3						—		3	4	<i>paratyphi B</i>
							—		3	21	<i>reading</i>
						1	1	4	35	168	<i>saint-paul</i>
							—		26	76	<i>san-diego</i>
	1						—		10	29	<i>schwarzengrund</i>
							—		16	81	<i>sentenberg</i>
							—		9	63	<i>tennessee</i>
							—	1	10	128	<i>thompson</i>
							—		—	—	<i>typhi</i>
9							—	3	105	506	<i>typhimurium</i>
							—	4	34	106	<i>typhimurium v cop</i>
							—		1	2	<i>weltevreden</i>
							—		8	59	<i>worthington</i>
20	10	6	1	1	—	1	9	31	578	2867	TOTAL
9	5	—	—	3	2	1	6	12	121	823	ALL OTHER*
29	15	6	1	4	2	2	15	43	699	3690	TOTAL

TABLE IV. OTHER SALMONELLAE REPORTED FROM NONHUMAN SOURCES, MAY 1969

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>alachua</i>	1						1	1			1
<i>albany</i>							1	1			1
<i>austyn</i>							1				1
<i>belem</i>							1				1
<i>bern</i>							1				1
<i>binza</i>							—	3		1	4
<i>california</i>	1						1				1
<i>cerro</i>		2				1	3	1			1
<i>drypool</i>		3					3	2			2
<i>dublin</i>				11			11				—
<i>eimsbuettel</i>	2	3					5	6		2	8
<i>gallinarum</i>	1					1	2				—
<i>good</i>							—				—
<i>harmelen</i>							—		1		1
<i>hartford</i>	1						1				—
<i>johannesburg</i>		1					1	3			3
<i>kentucky</i>		3					3	1			1
<i>kottbus</i>	2	1	1				4				—
<i>lindenburg</i>					1		1				—
<i>meleagridis</i>			1				1				—
<i>memphis</i>							—				—
<i>minnesota</i>							—	2			2
<i>new-brunswick</i>							—				—
<i>pomona</i>							—				—
<i>potsdam</i>						1	1				—
<i>pullorum</i>	5					1	6				—
<i>rubislaw</i>							—				—
<i>siegburg</i>							—	4		6	10
<i>simsbury</i>	3						3				—
<i>thomasville</i>		1					1	1	1		2
<i>typhi-suis</i>			1		1		2				—
<i>urbana</i>							—	2			2
TOTAL	16	14	3	11	2	4	50	27	—	11	38
NOT TYPED*	—	1	—	—	—	—	1	—	—	—	—
TOTAL	16	15	3	11	2	4	51	27	—	11	38

* See Table V-B

TABLE IV - Continued

WILD ANIMALS AND BIRDS	REPTILES AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUMULATIVE TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
5	1 1						1 1 1 1 1	1	2 2 1 1 5	20 23 1 1 5	<i>alachua</i> <i>albany</i> <i>austin</i> <i>belem</i> <i>bern</i>
1				2			1 1 1 1 2	2	4 3 5 5 13	31 25 39 17 44	<i>binza</i> <i>california</i> <i>cerro</i> <i>drypool</i> <i>dublin</i>
							1 1 1 1 1	1	13 2 1 1 1	78 7 1 3 4	<i>eimsbuettel</i> <i>gallinarum</i> <i>good</i> <i>harmelen</i> <i>hartford</i>
							1 1 1 1 1	1	4 5 4 1 1	12 96 4 1 36	<i>johannesburg</i> <i>kentucky</i> <i>kottbus</i> <i>lindenburg</i> <i>meleagridis</i>
1	1						1 1 1 1 1	1	1 2 1 1 1	1 65 6 2 2	<i>memphis</i> <i>minnesota</i> <i>new-brunswick</i> <i>pomona</i> <i>potsdam</i>
2					2	1	1 1 3 1	6	6 2 13 9 3	15 6 43 30 13	<i>pullorum</i> <i>rubislaw</i> <i>siegburg</i> <i>simsbury</i> <i>thomasville</i>
							1 1		2 2	5 3	<i>typhi-suis</i> <i>urbana</i>
9	3	-	-	2	2	1	5	12	117	770	TOTAL
-	2	-	-	1	-	-	1	-	4	53	NOT TYPED*
9	5	-	-	3	2	1	6	12	121	823	TOTAL

TABLE V. SALMONELLAE REPORTED BY GROUP IDENTIFICATION ONLY, MAY 1969

A. HUMAN SOURCES

REPORTING CENTER	GROUP													TOTAL	
	B	C1			C2	D			E	G		H	UNK		
ALASKA	2														2
ARKANSAS	4														5
CALIFORNIA														1	1
DISTRICT OF COLUMBIA	2				1	5								1	8
FLORIDA						1									1
ILLINOIS														1	1
IOWA	1														1
LOUISIANA					1									1	2
MICHIGAN										1				1	2
MISSISSIPPI	1					1				1				1	3
MONTANA														2	2
NEW HAMPSHIRE	5				1	3									9
NEW MEXICO	2	3			1	1			1			1			9
NEW YORK-A														22	22
NEW YORK-C														2	2
OREGON	1													1	2
RHODE ISLAND	2				1										3
TEXAS	3	1			2					1				2	9
TOTAL	23	4			7	11			1	3		1	34	84	

B. NONHUMAN SOURCES

SOURCES	GROUP													TOTAL	
	B	C1			C2	D			E	G		H	UNK		
DOMESTIC ANIMALS AND THEIR ENVIRONMENT		1													1
ANIMAL FEEDS															-
WILD ANIMALS AND BIRDS															-
REPTILES AND ENVIRONMENT														2	2
HUMAN DIETARY ITEMS	1														1
MISCELLANEOUS															-
TOTAL	1	1			-	-			-	-		-	2	4	