

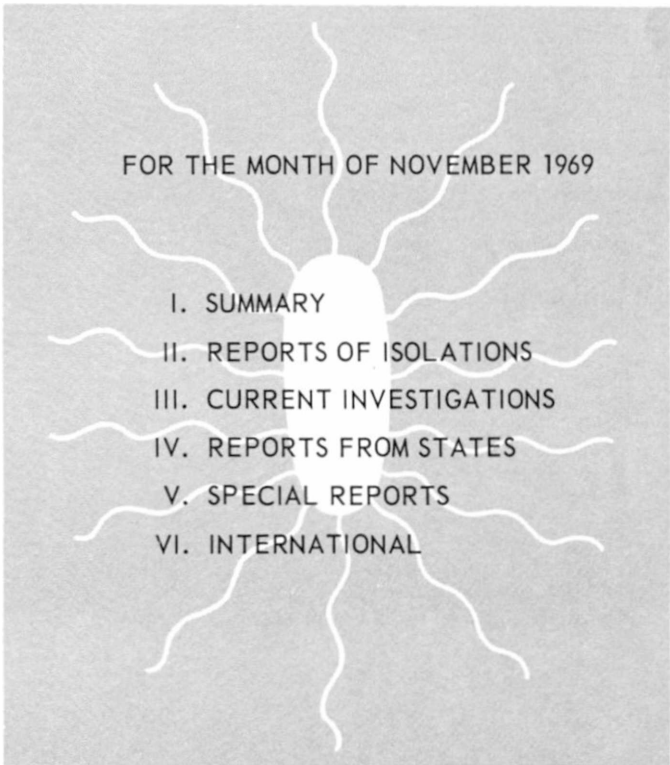
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NATIONAL
COMMUNICABLE DISEASE CENTER

SALMONELLA

SURVEILLANCE

FOR THE MONTH OF NOVEMBER 1969

- 
- I. SUMMARY
 - II. REPORTS OF ISOLATIONS
 - III. CURRENT INVESTIGATIONS
 - IV. REPORTS FROM STATES
 - V. SPECIAL REPORTS
 - VI. INTERNATIONAL

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

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I. SUMMARY

In November 1969, 1,880 isolations of salmonellae were reported from humans, an average of 470 isolations per week (Tables I, II, and V-A). This number represents a decrease of 15 (3.1 percent) from the weekly average of October 1969 and an increase of 56 (13.5 percent) over the weekly average of November 1968.

Reports of 833 nonhuman isolations of salmonellae were received during November 1969 (Tables II, IV, and V-B).

II. REPORTS OF ISOLATIONS

The ten most frequently reported serotypes during November:

HUMAN				NONHUMAN		
Serotype	Number	Percent	Rank Last Month	Serotype	Number	Percent
1 <u>typhi-murium*</u>	490	26.0	1	<u>typhi-murium*</u>	112	13.4
2 <u>enteritidis</u>	193	10.3	3	<u>heidelberg</u>	102	12.2
3 <u>heidelberg</u>	120	6.4	4	<u>anatum</u>	56	6.7
4 <u>newport</u>	115	6.1	2	<u>saint-paul</u>	52	6.2
5 <u>saint-paul</u>	107	5.7	5	<u>derby</u>	48	5.8
6 <u>infantis</u>	79	4.2	8	<u>cholerae-suis</u>	43	5.2
				<u>var. kunzendorf</u>		
7 <u>thompson</u>	72	3.8	6	<u>montevideo</u>	26	3.1
8 <u>typhi</u>	57	3.0	10	<u>worthington</u>	26	3.1
9 <u>javiana</u>	47	2.5	7	<u>thompson</u>	23	2.8
10 <u>panama</u>	45	2.4	>10	<u>bredeney</u>	22	2.6
Total	1,325	70.5		Total	510	61.2
TOTAL (all serotypes)	1,880			TOTAL (all serotypes)	833	
*Includes <u>var. copenhagen</u>	21	1.1		*Includes <u>var. copenhagen</u>	17	2.0

The major part of the increase in S. panama isolations this month resulted from a large outbreak traced to a convention in Iowa (see Salmonella Surveillance Report Number 91).

III. CURRENT INVESTIGATIONS

None

IV. REPORTS FROM THE STATES

None

V. SPECIAL REPORTS

Additional United States Department of Agriculture Instructions Regarding Cooked Beef Products

Largely as a result of the foodborne outbreak of salmonellosis traced to cooked beef (see Salmonella Surveillance Report Number 87, page 6), the Consumer Protection Programs (USDA) has issued the following instructions to their inspectors in plants producing cooked beef products:

I. Preparation of Raw Meat

- A. Room temperature should be 50°F. or below.
- B. A product prepared for cooking must be placed in cooking vessels and cooking started as quickly as is practical. In the event delay is necessary (2 hours or more) a product must be held in a cooler (40°F.) until cooking is commenced.

II. Cooking

- A. It is recommended that products be grouped into two pound weight ranges for cooking with the products of only one weight range in a cook tank or compartment.
- B. It is recommended that products be cooked to an internal temperature of no less than 140°-145°F. Temperature determination should be made on the heaviest pieces in the cooking tank.

III. Chilling

- A. Cooked products should be chilled as rapidly as possible. This can be accomplished by (a) water and crushed ice, (b) refrigeration, or (c) a combination of (a) and (b).
- B. In any case, the procedures must be in conformance with Section 308.16 of the Manual of Procedures.
- C. A maximum internal temperature of 40°F. must be reached before packing, distribution, or freezing.

IV. Handling

Cooked, exposed product must not contact surfaces used for the preparation of raw meats unless these surfaces have been cleaned and sanitized prior to use for the cooked product. In no case should the exposed product contact wooden surfaces used for the preparation of raw product.

VI. INTERNATIONAL

None

TABLE I. COMMON SALMONELLAE REPORTED FROM HUMAN SOURCES, NOVEMBER, 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>				2		1		2						1	1	2		1									1						5	
<i>bareilly</i>																																		
<i>blockley</i>				12		2		2		4	2	1	3	1	2		1								1	1			1	3				
<i>braenderup</i>						1		1																										
<i>bredeney</i>				1				2		1	2																		1				5	
<i>chester</i>				1																											1			
<i>cholerae-suis v kun</i>																																		
<i>cubana</i>				2					1		2		3					1					1										2	
<i>derby</i>				2				1	3		4		10				1							5		2				2	1			
<i>enteritidis</i>				70	1	3		10	2	6	20	5	2	11	2	4	4	2			2		2		5	1	4		3	2	8			
<i>give</i>																																		
<i>heidelberg</i>				11	1	3		6	4	1	14		1	12	1	1			2					9		1		2	4	8				
<i>indiana</i>															1	1																	2	
<i>infantis</i>				13	1	2			2		2	5	3	6	2	1	2					1				1			1				2	
<i>java</i>														2			1		1					2						1			2	
<i>javiana</i>									1					1									1						1	2	25			
<i>litchfield</i>				2					1			1					1																1	
<i>livingstone</i>								1																										
<i>manhattan</i>						1				2	1		3		2	1		1						1		3			1	1				
<i>miami</i>										1																				1			5	
<i>mississippi</i>																																	1	
<i>montevideo</i>				3	3			1	2	2	3			1			1							1		2				2	2			
<i>muenchen</i>				4				2	4		3			2	1																		3	
<i>newington</i>			1	1						1									2															
<i>newport</i>				4	1	5		1	5	4	1	1		6	1	2			3				1	1		2				7	16			
<i>oranienburg</i>				1					2					1	2		1			1											1	2		
<i>panama</i>				4					2	1				1				8		1						1								
<i>paratyphi B</i>				2					3															1		1				1				
<i>reading</i>				1																														1
<i>saint-paul</i>				8		1		6	5	4	7	1	1	5	8	1	1		3				1	7				8	1	2	11			
<i>san-diego</i>				1																														1
<i>schwarzengrund</i>				1										3																			1	
<i>senftenberg</i>										1				1	1	2									2								1	
<i>tennessee</i>									1					1																				1
<i>thompson</i>	2			6		1		1	2	1	4	1		2	6	4	2						1	2			2	4	2	2	4			4
<i>typhi</i>				2		3		1	2		1	1		4	1				3							1	3	5					4	
<i>typhimurium</i>	4			65	1	12		11	11	11	38	13	5	34	19	15	7	4	9		1		5		13	4	2	1	4	13	11	25		
<i>typhimurium v cop</i>				5		4								4				2		1														
<i>weltevreden</i>																																		
<i>worthington</i>				2													1																1	
TOTAL	6	—	1	226	8	39	—	43	57	31	107	35	13	113	51	37	23	18	25	3	3	—	12	1	49	8	20	6	30	22	44	137		
ALL OTHER *	—	12	—	6	2	4	31	1	10	6	2	2	1	3	5	3	—	—	—	—	—	—	—	—	—	7	3	—	1	9	5	23		
TOTAL	6	12	1	232	10	43	31	44	67	37	109	37	14	116	56	40	23	18	25	3	3	—	12	1	49	15	23	6	31	31	49	160		

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 100 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		4		21	1.1	164	0.8	<i>anatum</i>
					1																2	0.1	65	0.3	<i>bareilly</i>
	1				1		2				1			1					1		43	2.3	449	2.3	<i>blockley</i>
																					3	0.2	73	0.4	<i>braenderup</i>
							1												1		15	0.8	119	0.6	<i>bredenev</i>
																					2	0.1	45	0.2	<i>chester</i>
																					—	—	14	0.1	<i>cholerae-suis v kun</i>
		1			1														2		16	0.9	129	0.7	<i>cubana</i>
	1				5		1									2		1		2	43	2.3	305	1.6	<i>derby</i>
							3	1						5		1		7	5	1	193	10.3	1772	9.1	<i>enteritidis</i>
																					—	—	69	0.4	<i>give</i>
1	3		1		10	1	3						2			3	1	9		5	120	6.4	1314	6.8	<i>heidelberg</i>
																					4	0.2	87	0.4	<i>indiana</i>
	3	1	1		7	1	3		1		3	1				4	1	9			79	4.2	1003	5.2	<i>infantis</i>
					1						1								1		13	0.7	151	0.8	<i>java</i>
				1	3		12														47	2.5	424	2.2	<i>javana</i>
					1																8	0.4	113	0.6	<i>litchfield</i>
					1	1								1							2	0.1	34	0.2	<i>livingstone</i>
																			3		25	1.3	223	1.1	<i>manhattan</i>
																					7	0.4	95	0.5	<i>miami</i>
					3																4	0.2	41	0.2	<i>mississippi</i>
		1		1	1		2						1								36	1.9	283	1.5	<i>montevideo</i>
		1					2														23	1.2	208	1.1	<i>muenchen</i>
																					7	0.4	30	0.2	<i>newington</i>
	5			3	12		21				1				1	1		9		1	115	6.1	1451	7.5	<i>newport</i>
			1				2												1		15	0.8	236	1.2	<i>oranienburg</i>
		2					4									16				4	45	2.4	307	1.6	<i>panama</i>
1							4														15	0.8	154	0.8	<i>paratyphi B</i>
	1	2	4		4		5						1	1			1	5	1	1	4	0.2	63	0.3	<i>reading</i>
																					107	5.7	903	4.7	<i>saint-paul</i>
																			1		3	0.2	51	0.3	<i>san-diego</i>
													1								7	0.4	71	0.4	<i>schwarzengrund</i>
																					8	0.4	73	0.4	<i>sentenberg</i>
					2															1	6	0.3	40	0.2	<i>tennessee</i>
	4	2			3		7							1		1		5			72	3.8	930	4.8	<i>thompson</i>
1	1				1		7					2	1								57	3.0	495	2.6	<i>typhi</i>
4	3	6	4	3	13	2	9	4	1		1		3	1	1	6	1	65		4	469	24.9	4954	25.5	<i>typhimurium</i>
					2																21	1.1	235	1.2	<i>typhimurium v cop</i>
																				2	2	0.1	49	0.3	<i>weltevreden</i>
																					6	0.3	33	0.2	<i>worthington</i>
12	21	20	6	9	73	4	88	5	2	—	7	2	10	10	2	35	5	151	6	29	1665	88.6	17255	89.0	TOTAL
1	1	—	6	4	5	—	17	1	—	2	—	15	1	—	—	2	2	16	3	3	215		2143		ALL OTHER*
13	22	20	12	13	78	4	105	6	2	2	7	17	11	10	2	37	7	167	9	32	1880		19398		TOTAL

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

SEROTYPE	REPORTING CENTER																						
	ALK	ARI	ARK	CAL	CON	DC	FLA	GA	HAW	ILL	IND	KY	LA	MAS	MIC	MIS	MON	NH	NJ	NM	NYA	NYB	NYC
<i>aberdeen</i>																							1
<i>alachua</i>										1													1
<i>amager</i>														1									
<i>atlanta</i>								1															
<i>berta</i>															1								
<i>binza</i>														1									
<i>bovis-morbificans</i>				1					1														
<i>brancaster</i>						1																	
<i>brandenburg</i>																							1
<i>cerro</i>							3			1					1								
<i>drypool</i>								1															
<i>duesseldorf</i>																			1				
<i>eimsbuettel</i>																							
<i>gaminara</i>				1									1										1
<i>hartford</i>								2					1				1						
<i>hato</i>								1															
<i>kentucky</i>				3				2															
<i>kottbus</i>				1						1									1				
<i>lexington</i>		1																					
<i>lomita</i>																							
<i>london</i>																							
<i>michigan</i>																							
<i>minnesota</i>																1							
<i>muenster</i>								2	1							1			1				
<i>napoli</i>														1									
<i>norwich</i>													1										
<i>ohio</i>									1														
<i>orion</i>																			1				
<i>oslo</i>				1																			
<i>phoenix</i>				1																			
<i>pomona</i>					1																		
<i>poona</i>								2															
<i>rubislaw</i>				1				4					1									1	
<i>saphra</i>																							
<i>sendai</i>						1																	
<i>siegburg</i>								1															1
<i>stanley</i>																			2				
<i>stockholm</i>								5															
<i>tallahassee</i>								2															
<i>urbana</i>					1								2										
<i>virchow</i>																1							
TOTAL	—	1	—	9	2	2	22	5	2	3	—	1	5	3	5	—	1	—	6	—	—	1	5
NOT TYPED*	3	—	4	7	2	5	1	—	1	—	1	—	—	3	—	6	—	12	—	15	31	—	5
TOTAL	3	1	4	16	4	7	23	5	3	3	1	1	5	6	5	6	1	12	6	15	31	1	10

* See Table V-A

TABLE II - Continued

REPORTING CENTER													TOTAL	CUMULATIVE TOTAL	SEROTYPE	
NC	OHI	ORE	PA	RI	SC	TEN	TEX	VA	WAS	WIS	WYO					
			1					2						1	1	<i>aberdeen</i>
														2	13	<i>alachua</i>
														4	28	<i>amager</i>
	2													1	15	<i>atlanta</i>
														3	34	<i>berta</i>
														1	4	<i>binza</i>
														2	8	<i>bovis-morbificans</i>
								1						1	1	<i>brancaster</i>
														2	4	<i>brandenburg</i>
														5	24	<i>cerro</i>
														1	12	<i>drypool</i>
			1						2					1	3	<i>dueseldorf</i>
														3	32	<i>eimsbuettel</i>
														3	14	<i>gaminara</i>
														4	33	<i>hartford</i>
														1	1	<i>hato</i>
														5	25	<i>kentucky</i>
														3	14	<i>kottbus</i>
													1	2	<i>lexington</i>	
													1	14	<i>lomita</i>	
1														1	14	<i>london</i>
														1	1	<i>michigan</i>
														1	26	<i>minnesota</i>
														5	37	<i>muenster</i>
														1	1	<i>napoli</i>
														2	3	<i>norwich</i>
														1	13	<i>ohio</i>
														1	4	<i>orion</i>
														1	15	<i>oslo</i>
														1	1	<i>phoenix</i>
														1	5	<i>pomona</i>
														5	74	<i>poona</i>
														5	25	<i>rubislaw</i>
														1	13	<i>saphra</i>
														1	2	<i>sendai</i>
							1							3	22	<i>siegburg</i>
														2	12	<i>stanley</i>
														5	5	<i>stockholm</i>
														2	12	<i>tallahassee</i>
								1						4	47	<i>urbana</i>
														1	7	<i>virchow</i>
1	2	-	2	-	-	1	7	3	2	-	-			91	879	TOTAL
-	-	2	-	2	9	-	10	-	-	3	2			124	1264	NOT TYPED*
1	2	2	2	2	9	1	17	3	2	3	2			215	2143	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, NOVEMBER, 1969

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>anatum</i>	2	3	6	1			12	41			41
<i>bareilly</i>							—				—
<i>blockley</i>	14						14				—
<i>braenderup</i>							—				—
<i>bredeney</i>	1	8	9			2	20		2		2
<i>chester</i>	1	1					2	1			1
<i>cholerae-suis v.kun</i>			43				43				—
<i>cubana</i>		1					1	4			4
<i>derby</i>		1	39				40	3			3
<i>enteritidis</i>	4	1	2			4	11				—
<i>give</i>			1				1				—
<i>heidelberg</i>	15	68	12	3	1		99	1			1
<i>indiana</i>							—				—
<i>infantis</i>	11		3				14	1			1
<i>java</i>							—				—
<i>javiana</i>							—				—
<i>litchfield</i>							—				—
<i>livingstone</i>			1				1	2		2	4
<i>manhattan</i>	1		6				7				—
<i>miami</i>						1	1				—
<i>mississippi</i>							—				—
<i>montevideo</i>	4	2					6	15		1	16
<i>muenchen</i>							—				—
<i>newington</i>		3	2				5				—
<i>newport</i>			1	2		1	4				—
<i>oranienburg</i>							—			1	1
<i>panama</i>			6				6				—
<i>paratyphi B</i>							—	1			1
<i>reading</i>		5					5				—
<i>saint-paul</i>	12	26	1	1		1	41	1		1	2
<i>san-diego</i>		5		1			6	14			14
<i>schwarzengrund</i>							—				—
<i>senftenberg</i>	1	8					9	4			4
<i>tennessee</i>		5	1				6	4		1	5
<i>thompson</i>	17	1	2				20				—
<i>typhi</i>							—				—
<i>typhimurium</i>	12	6	22	34	2	6	82	1			1
<i>typhimurium v cop</i>	10	1	3			2	16				—
<i>weltevreden</i>							—				—
<i>worthington</i>	4	17					21	5			5
TOTAL	109	162	160	42	3	17	493	98	—	8	106
ALL OTHER*	16	24	17	11	—	3	71	51	—	1	52
TOTAL	125	186	177	53	3	20	564	149	—	9	158

* 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						—	3	56	430	<i>anatum</i>
							—		1	28	<i>bareilly</i>
							—		14	146	<i>blockley</i>
							—		—	7	<i>braenderup</i>
							—		22	143	<i>bredenev</i>
		1		2			3		6	44	<i>chester</i>
							—		43	595	<i>cholerae-suis v kun</i>
							—		5	101	<i>cubana</i>
1						5	5		48	230	<i>derby</i>
							—		12	136	<i>enteritidis</i>
	1						—	1	2	41	<i>give</i>
							—	1	102	837	<i>heidelberg</i>
1							—		1	17	<i>indiana</i>
		3					3	3	21	242	<i>infantis</i>
	3						—		3	11	<i>java</i>
	1						—		1	19	<i>javiana</i>
	2						—		2	7	<i>litchfield</i>
							—	3	8	141	<i>livingstone</i>
1	1						—		9	54	<i>manhattan</i>
							—		1	7	<i>miami</i>
		2					—		—	—	<i>mississippi</i>
	1						2	2	26	265	<i>montevideo</i>
							—		1	47	<i>muenchen</i>
2	4						—	1	6	53	<i>newington</i>
							—	2	12	149	<i>newport</i>
	2						—		3	89	<i>oranienburg</i>
							—		6	27	<i>panama</i>
	3						—		4	10	<i>paratyphi B</i>
							—		5	59	<i>reading</i>
2							—	7	52	378	<i>saint-paul</i>
							—		20	161	<i>san-diego</i>
							—		—	54	<i>schwarzengrund</i>
		7					7		20	211	<i>senftenberg</i>
	2						—	1	12	118	<i>tennessee</i>
1							—		23	261	<i>thompson</i>
	2	1					—		—	—	<i>typhi</i>
5							1	4	95	1105	<i>typhimurium</i>
1							—		17	256	<i>typhimurium v cop</i>
							—		—	3	<i>weltevreden</i>
							—		26	142	<i>worthington</i>
14	23	14	—	2	—	5	21	28	685	6624	TOTAL
1	8	4	—	—	—	—	4	12	148	1590	ALL OTHER*
15	31	18	—	2	—	5	25	40	833	8214	TOTAL

TABLE IV. OTHER SALMONELLAE REPORTED FROM NONHUMAN SOURCES, NOVEMBER, 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	4			4
<i>amager</i>							1	2			2
<i>binza</i>						1	1	5			5
<i>bornum</i>							1	3			3
<i>california</i>		2	1				3				1
<i>cerro</i>	2	2	1				5	2			2
<i>cholerae-suis</i>			1				1				1
<i>corvallis</i>							1	1			1
<i>drypool</i>							1	4			4
<i>dublin</i>				11			11				1
<i>eimsbuettel</i>	3	8					11	10			10
<i>flint</i>						1	1				1
<i>gallinarum</i>							1				1
<i>godesberg</i>							1	1			1
<i>grumpensis</i>							1	1			1
<i>habana</i>							1	1			1
<i>hartford</i>							1				1
<i>johannesburg</i>							1				1
<i>kentucky</i>	4	9	1				14	3			3
<i>lexington</i>			1			1	2				1
<i>london</i>							1				1
<i>madelia</i>							1				1
<i>meleagridis</i>							1	2			2
<i>minneapolis</i>							1	2			2
<i>minnesota</i>	1						1				1
<i>molade</i>							1	1			1
<i>orion</i>		2					2		1		1
<i>oslo</i>							1				1
<i>pomona</i>							1	1			1
<i>pullorum</i>	1						1				1
<i>rubislaw</i>							1				1
<i>siegburg</i>	3						3	3			3
<i>simsbury</i>							1				1
<i>taksony</i>			1				1	1			1
<i>thomasville</i>							1	1			1
<i>tuindorp</i>							1				1
<i>urbana</i>							1	2			2
<i>westerstede</i>							1	1			1
TOTAL	14	23	6	11	—	3	57	51	—	1	52
NOT TYPED*	2	1	11	—	—	—	14	—	—	—	—
TOTAL	16	24	17	11	—	3	71	51	—	1	52

* 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				
1		2					2	1	6 3 7 3 3	46 5 63 11 41	<i>alachua</i> <i>amafer</i> <i>binza</i> <i>bornum</i> <i>california</i>
	1	1					1		9 1 1 4 11	88 20 3 44 110	<i>cerro</i> <i>cholerae-suis</i> <i>corvallis</i> <i>drypool</i> <i>dublin</i>
								1	21 1 1 1 1	145 1 10 5 3	<i>eimsbuettel</i> <i>flint</i> <i>gallinarum</i> <i>godesberg</i> <i>grumpensis</i>
	1							1	1 1 1 17 3	12 5 19 139 10	<i>habana</i> <i>hartford</i> <i>johannesburg</i> <i>kentucky</i> <i>lexington</i>
	1							3	3 1 2 2 1	8 5 41 8 89	<i>london</i> <i>madelia</i> <i>meleagridis</i> <i>minneapolis</i> <i>minnesota</i>
	1								1 3 1 1 1	4 18 11 8 43	<i>molade</i> <i>orion</i> <i>oslo</i> <i>pomona</i> <i>pullorum</i>
	1	1						4	1 7 4 2 1	8 70 54 14 27	<i>rubislaw</i> <i>siegburg</i> <i>simsbury</i> <i>taksony</i> <i>thomasville</i>
	1 2								1 4 1	1 37 1	<i>tuindorp</i> <i>urbana</i> <i>westerstede</i>
1	8	4	-	-	-	-	4	11	133	1466	TOTAL
-	-	-	-	-	-	-	-	1	15	124	NOT TYPED*
1	8	4	-	-	-	-	4	12	148	1590	TOTAL

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

A. HUMAN SOURCES

REPORTING CENTER	GROUP													TOTAL		
	B	C			C1	C2			D	G			O		UNK	
ALASKA	1					1			1							3
ARKANSAS	1				1	1				1						4
CALIFORNIA	5												1	1		7
CONNECTICUT					1									1		2
D.C.	3													2		5
FLORIDA														1		1
HAWAII														1		1
INDIANA														1		1
MASSACHUSETTS	1													2		3
MISSISSIPPI	1					4			1							6
NEW HAMPSHIRE	6				3				3							12
NEW MEXICO	8				2	1			2	2						15
NEW YORK - A														31		31
NEW YORK - C														5		5
OREGON	1									1						2
RHODE ISLAND						2										2
SOUTH CAROLINA						3			1				1	4		9
TEXAS	1				1	2			2					4		10
WISCONSIN														3		3
WYOMING		1												1		2
TOTAL	28	1			8	14			10	4			2	57		124

B. NONHUMAN SOURCES

SOURCES	GROUP													TOTAL		
	B	C			C1	C2			D	G			O		UNK	
DOMESTIC ANIMALS AND THEIR ENVIRONMENT	1													1	12	14
ANIMAL FEEDS																-
WILD ANIMALS AND BIRDS																-
REPTILES AND ENVIRONMENT																-
HUMAN DIETARY ITEMS																-
MISCELLANEOUS										1						1
TOTAL	1	-			-	-			-	1			1	12		15