REPORT NO. 98
July 1970

CENTER FOR DISEASE CONTROL

SALMONELLA

SURVEILLANCE

CONTENTS. . .

FOR THE MONTH OF MAY 1970

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

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July 20, 1970

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I. SUMMARY

In May 1970, 1,522 isolations of salmonellae were reported from humans, an average of 381 isolations per week (Tables I, II, and V-A). This number represents an increase of 35 (10.1 percent) over the weekly average of April 1970 and an increase of 17 (4.7 percent) over the weekly average of May 1969.

Reports of 576 nonhuman isolations of salmonellae were received during May 1970 (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	typhi-murium*	388	25.5	1	typhi-murium*	108	18.8
2	enteritidis	143	9.4	3	tennessee	42	7.3
3	heidelberg	126	8.3	2	heidelberg	38	6.6
4	newport	99	6.5	6	montevideo	32	5.6
5	infantis	79	5.2	4	saint-paul	26	4.5
6	blockley	61	4.0	7	anatum	23	4.0
7	saint-paul	54	3.5	8	infantis	22	3.8
8	thompson	46	3.0	5	cholerae-suis var. kunzendorf	21	3.6
9	java	37	2.4	>10	bredeney	17	3.0
10	oranienburg	35	2.3	>10	elmsbuettel	16	2.8
					oranienburg	16	2.8
	Total	1068	70.2		Total	361	62.7
	TOTAL (all serotypes)	1522			TOTAL (all serotypes)	576	
	*Includes var. copenhagen	14	0.9		*Includes var. copenhagen	10	1.7

III. CURRENT INVESTIGATIONS

None

IV. REPORTS FROM THE STATES

Reports of Salmonella Outbreaks received during the months of April and May

State	Month Of Outbreak	Location	Serotype	Number of Persons: Ill	At Risk	With Positive Cultures	Hospitalized	Deaths	Vehicle Comment
April									
Kansas	April 1970	Nursing Home	S. heidelberg	26	115	11	0	0	?
Maryland	March 1970	Infants' Home	S. blockley	0	35	24	0	0	Person-to-person
California	Feb.-Mar.1970	Community	S. infantis	20	?	20	?	0	Beef jerky
Pennsylvania	April 1970	Banquet	S. heidelberg	145	412	74	6	0	Turkey
South Dakota	Dec.'69-Apr.'70	Ind. Reserv.	S. typhi-murium	44	?	25	25	0	Person-to-person
Louisiana	March 1970	Home	S. weltevreden	10	11	8	0	0	Undetermined food
New Jersey	Mar.-Apr. 1970	Hospital-Community	S. typhi-murium	10	?	10	10	0	Person-to-person
May									
Pennsylvania	Mar.-Apr.1970	Hospital	S. enteritidis	5	?	7	-	0	?Person-to-person
Washington	October 1969	Home	S. typhi-murium	2	3	2	1	0	Pet parakeet
Washington	January 1970	Home	S. thompson	1	6	1	1	1	Pet dog
Wisconsin	February 1970	Home	S. thompson	1	5	2	1	0	Pet turtles
Ohio	February 1970	Home	S. enteritidis	2	5	2	1	0	Pet turtles

V. SPECIAL REPORTS

None

VI. INTERNATIONAL

None

TABLE I. COMMON SALMONELLAE REPORTED FROM HUMAN SOURCES, MAY, 1970

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
anatum				1										2				1													4
bareilly									1																1				1			
blockley				3		1		1	1	1	15	1	1	5	7	1			1				1		1		2				2	2
braenderup				1				1						1																	
bredeney														5																	1
chester				2							2																				1
cholerae-suis v kun														1																	
cubana						1								1											4		1				1
derby				8		1		1	2		2	2		3	1				1		1				4					1	2
enteritidis			1	7		1		20	7	3	25	5	6	11	4	6	1							2	2	1	2	2	3		4	2
give																																
heidelberg				10		2		9	3	9	11	3	1	7	6		1	1	3				9		2		4		2		6	6
indiana												2			1										1	1					1	
infantis				4				2		5	18	4	1	6	2	3							1		2		2		1		1	7
java	1					1	2	4	3		1			1		5	3			1				1	1					1	1	1
javiana									1	1																				3	5
litchfield									1	1	3	2	1			1		2	1		1									1	1
livingstone																	1														
manhattan				2							3	1		2											2		1			1	
miami														1																	4
mississippi																														1	
montevideo				1		2		3		1	2	3		3		2	1	1					4								4	1
muenchen						1		1		1		1			1																
newington				3																											4
newport				3				4	4		2	1		3	1	2	4			1	1		1		1				2		1	12
oranienburg				1				2		1	2	4	1	1	1	1	2	1							1		1				1	7
panama				2							2				1																
paratyphi B				1		2			2			5	2		2												5					
reading	2			1												5															
saint-paul				1				3	3	1	5	2		5	8									1	1				2		3	10
san-diego									1														1		1						1	
schwarzengrund								1																								
senftenberg								2		1			1											1								1
tennessee				1		1											2															
thompson				1				4	1		2	1		6	3	3	2	1					1		2						2	
typhi						1	1			1	2	2		1					1									3	1		1	3
typhimurium	1			16	1	12		19	10	8	19	15	7	30	9	12	3	1	7	2	3		5		11	3	7		5		13	13
typhimurium v cop				4		1				3				1	1																
weltevreden																															
worthington																									1		2			1	
TOTAL	4	—	1	73	1	27	3	77	40	37	116	54	21	96	48	41	20	8	14	4	6	—	23	5	38	5	27	5	17	1	49	88
ALL OTHER*	—	10	—	4	5	2	22	5	3	2	2	2	—	4	8	1	—	—	—	—	—	—	—	1	3	13	1	1	—	—	2	1
TOTAL	4	10	1	77	6	29	25	82	43	39	118	56	21	100	56	42	20	8	14	4	6	—	23	6	41	18	28	6	17	1	51	100

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 123 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			14	0.9	72	1.0	*anatum*
					1																4	0.3	17	0.2	*bareilly*
		1					6							1		1		6			61	4.0	258	3.5	*blockley*
	1																	3		1	8	0.5	21	0.3	*braenderup*
	1				1													3		2	13	0.9	72	1.0	*bredeney*
																		5			10	0.7	34	0.5	*chester*
																					1	0.1	8	0.1	*cholerae-suis v kun*
																		1			9	0.6	72	1.0	*cubana*
	1																	2		2	34	2.2	168	2.3	*derby*
5	2	2	2			1	1							2		3	2	7		1	143	9.4	577	7.8	*enteritidis*
					1																1	0.1	19	0.3	*give*
2	2	2		1	4	2	3	1					2					11		1	126	8.3	638	8.6	*heidelberg*
																					6	0.4	41	0.6	*indiana*
1	2	3		1	1		1						1					7		3	79	5.2	414	5.6	*infantis*
		1															1	8			37	2.4	130	1.7	*java*
				2		2	1														15	1.0	46	0.6	*javiana*
	1																			1	17	1.1	72	1.0	*litchfield*
																		1		1	3	0.2	9	0.1	*livingstone*
		1														1		1		1	16	1.1	133	1.8	*manhattan*
																					5	0.3	14	0.2	*miami*
					3																4	0.3	9	0.1	*mississippi*
																					28	1.8	117	1.6	*montevideo*
	1				1													1			8	0.5	66	0.9	*muenchen*
																					7	0.5	13	0.2	*newington*
		2		1	5	11	9				3					1		20		4	99	6.5	474	6.4	*newport*
	1	1		1		1	1						1					1		1	35	2.3	132	1.8	*oranienburg*
					1		3									1		3		1	14	0.9	52	0.7	*panama*
							1														20	1.3	66	0.9	*paratyphi B*
									1							1	6				16	1.1	41	0.6	*reading*
	2						2				1							2		2	54	3.5	293	3.9	*saint-paul*
																		1			5	0.3	139	1.9	*san-diego*
																					1	0.1	21	0.3	*schwarzengrund*
		1																			7	0.5	26	0.3	*senftenberg*
																					4	0.3	21	0.3	*tennessee*
		4			1	1	3											5		3	46	3.0	313	4.2	*thompson*
				1	3		2											2			25	1.6	163	2.2	*typhi*
2	5	3		3	13	2	16	2	1		9		1	2		15	3	51	1	13	374	24.6	1823	24.5	*typhimurium*
	2				2																14	0.9	81	1.1	*typhimurium v cop*
																					—	—	35	0.5	*weltevreden*
	1																			1	6	0.4	30	0.4	*worthington*
10	22	21	2	11	38	20	49	3	2	—	13	—	5	5	—	23	12	145	1	38	1369	89.9	6730	90.5	TOTAL
—	—	—	5	5	1	—	14	—	—	—	1	8	2	—	—	1	4	5	3	1	153		706		ALL OTHER*
10	22	21	7	16	39	20	63	3	2	—	14	8	7	5	—	24	16	150	4	39	1522		7436		TOTAL

TABLE II. OTHER SALMONELLAE REPORTED FROM HUMAN SOURCES, MAY, 1970

SEROTYPE	REPORTING CENTER																						
	ALK	ARI	ARK	CAL	COL	CON	DEL	DC	FLA	GA	HAW	ILL	LA	MD	MAS	MIC	MIS	NH	NJ	NM	NYA	NYB	NYC
agona												1											
albany					1																		
atlanta										1													
berta		1		2											2	2							
bovis-morbificans														1									
california																1							
cerro																						1	
cholerae-suis																							
coeln								1															
drypool									1														
eimsbuettel														2									
gallinarum																						1	
gaminara		1																					
hartford									4														
inverness																1							
kentucky																1							
kumasi																1							
lansing																							
lomita												1											
meleagridis				1																			
minnesota												1											
muenster																							
ordonez																			1				
orion												1											
oslo											1												
paratyphi A				1				1															
pensacola										1													
poona				1					2				1										
pullorum																						1	
rubislaw									1														
saphra																							
siegburg									3														
simsbury							1															2	
stanley																			1				
thomasville																1							
urbana	1														2								
westhampton									1														
TOTAL	1	2	—	5	1	—	1	2	12	2	1	4	1	3	4	7	—	—	2	—	—	5	—
NOT TYPED*	2	—	5	—	—	2	—	11	—	—	—	—	—	—	—	1	5	10	—	8	22	—	3
TOTAL	3	2	5	5	1	2	1	13	12	2	1	4	1	3	4	8	5	10	2	8	22	5	3

* See Table V-A

TABLE II – Continued

REPORTING CENTER														TOTAL	CUMULATIVE TOTAL	SEROTYPE
OHI	ORE	PA	RI	TEX	VA	WAS	WVA	WIS								
														1	1	*agona*
														1	9	*albany*
														1	2	*atlanta*
														7	28	*berta*
														1	3	*bovis-morbificans*
														1	4	*california*
														1	6	*cerro*
1														1	3	*cholerae-suis*
														1	5	*coeln*
														1	1	*drypool*
		2												4	7	*eimsbuettel*
														1	1	*gallinarum*
														1	5	*gaminara*
														4	8	*hartford*
														1	2	*inverness*
														1	11	*kentucky*
														1	1	*kumasi*
						1								1	1	*lansing*
				1										2	3	*lomita*
														1	3	*meleagridis*
1														2	17	*minnesota*
							1							1	7	*muenster*
														1	10	*ordonez*
														1	5	*orion*
														1	6	*oslo*
														2	3	*paratyphi A*
														1	2	*pensacola*
														4	29	*poona*
														1	1	*pullorum*
														1	2	*rubislaw*
				1										1	1	*saphra*
														3	8	*siegburg*
														3	5	*simsbury*
														1	3	*stanley*
														1	3	*thomasville*
				4										7	17	*urbana*
														1	1	*westhampton*
2	–	2	–	6	–	1	1	–						65	305	TOTAL
–	4	–	5	8	1	–	–	1						88	401	NOT TYPED*
2	4	2	5	14	1	1	1	1						153	706	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, 1970

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
anatum	2	9	3			4	18			1	1
bareilly	1						1			1	1
blockley	4					1	5				—
braenderup		1					1				—
bredeney		1			1		2	2		13	15
chester	2	1					3				—
cholerae-suis v kun			20				20				—
cubana							—	4		4	8
derby		1				1	2			3	3
enteritidis	4					1	5				—
give		3					3			1	1
heidelberg	10	12		13			35			1	1
indiana	1	1					2				—
infantis	5	1					6	12		3	15
java						1	1				—
javiana						1	1				—
litchfield							—				—
livingstone			1				1	4		1	5
manhattan							—				—
miami							—				—
mississippi							—				—
montevideo	8	1					9	7		10	17
muenchen							—				—
newington					1		1				—
newport				3		2	5				—
oranienburg		1					1	14		1	15
panama							—				—
paratyphi B							—				—
reading	1	4					5				—
saint-paul	4	19		1		2	26				—
san-diego		2					2				—
schwarzengrund							—	1		1	2
senftenberg	3	3					6	3		3	6
tennessee		1					1	16			16
thompson	5	1					6	1			1
typhi							—				—
typhimurium	8	19	1	39	4	6	77				—
typhimurium v cop	5			5			10				—
weltevreden							—				—
worthington	8						8	2			2
TOTAL	71	81	25	61	6	19	263	66	—	43	109
ALL OTHER*	20	9	4	12	—	1	46	23	—	43	66
TOTAL	**91**	**90**	**29**	**73**	**6**	**20**	**309**	**89**	**—**	**86**	**175**

* 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				
		2				2	4		23	235	*anatum*
		1					1		3	18	*bareilly*
1							–		6	74	*blockley*
							–		1	11	*braenderup*
							–		17	77	*bredeney*
							–		3	21	*chester*
1							–		21	180	*cholerae-suis v kun*
							–		8	36	*cubana*
1		1		2			3		9	56	*derby*
							–	1	6	62	*enteritidis*
							–		4	9	*give*
1		1					1		38	363	*heidelberg*
							–		2	21	*indiana*
		1					1		22	149	*infantis*
	2						–		3	20	*java*
							–		1	4	*javiana*
							–		–	2	*litchfield*
							–		6	30	*livingstone*
							–		–	11	*manhattan*
1							–		1	8	*miami*
							–		–	1	*mississippi*
1		4					4	1	32	135	*montevideo*
							–		–	13	*muenchen*
							–		1	10	*newington*
1							–	1	7	91	*newport*
							–		16	95	*oranienburg*
							–		–	2	*panama*
							–		–	2	*paratyphi B*
							–		5	26	*reading*
							–		26	265	*saint-paul*
							–		2	81	*san-diego*
					3		3		5	33	*schwarzengrund*
							–		12	136	*senftenberg*
					1	24	25		42	113	*tennessee*
	1	2					2		10	173	*thompson*
							–		–	–	*typhi*
16	2	2				1	3		98	471	*typhimurium*
							–		10	87	*typhimurium v cop*
							–		–	–	*weltevreden*
							–		10	105	*worthington*
23	5	14	–	2	4	27	47	3	450	3226	TOTAL
3	3	1	2	1	2	1	7	1	126	835	ALL OTHER*
26	**8**	**15**	**2**	**3**	**6**	**28**	**54**	**4**	**576**	**4061**	**TOTAL**

TABLE IV. OTHER SALMONELLAE REPORTED FROM NONHUMAN SOURCES, MAY, 1970

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
berta	1						1				—
bornum							—	1			1
california	1		1				2	1		2	3
drypool		2					2			3	3
dublin				9			9				—
eimsbuettel	2						2	4		10	14
habana							—			1	1
johannesburg		1					1	1			1
kentucky							—	2		3	5
lexington							—			1	1
lomita							—				—
madelia							—	1			1
manchester							—				—
manila							—			1	1
meleagridis	1						1				—
minneapolis							—	1			1
minnesota	4						4	1			1
muenster							—	1			1
norwich				1			1				—
ohio							—			1	1
pullorum	2						2				—
rubislaw							—				—
siegburg							—	2		5	7
simsbury	5		2				7				—
taksony		1					1				—
thomasville							—			14	14
tuindorp							—				—
typhi-suis			1				1				—
TOTAL	16	4	4	10	—	—	34	15	—	41	56
NOT TYPED*	4	5	—	2	—	1	12	8	—	2	10
TOTAL	20	9	4	12	—	1	46	23	—	43	66

*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	8	*berta*
							–		1	9	*bornum*
							–		5	19	*california*
							–		5	23	*drypool*
							–		9	38	*dublin*
							–		16	127	*eimsbuettel*
							–		1	1	*habana*
							–		2	8	*johannesburg*
					1		1		6	52	*kentucky*
							–		1	9	*lexington*
		1					1		1	1	*lomita*
							–		1	8	*madelia*
							–	1	1	1	*manchester*
							–		1	4	*manila*
3							–		4	23	*meleagridis*
							–		1	2	*minneapolis*
					1		1		6	75	*minnesota*
							–		1	15	*muenster*
							–		1	1	*norwich*
							–		1	1	*ohio*
							–		2	31	*pullorum*
						1	1		1	5	*rubislaw*
							–		7	40	*siegburg*
							–		7	22	*simsbury*
							–		1	18	*taksony*
							–		14	39	*thomasville*
	1						–		1	2	*tuindorp*
							–		1	4	*typhi-suis*
3	1	1	–	–	2	1	4	1	99	744	TOTAL
–	2	–	2	1	–	–	3	–	27	91	NOT TYPED*
3	3	1	2	1	2	1	7	1	126	835	TOTAL

TABLE V. SALMONELLAE REPORTED BY GROUP IDENTIFICATION ONLY, MAY, 1970

A. HUMAN SOURCES

REPORTING CENTER	GROUP														TOTAL
		B	C	C1			C2	D	E			G	M	UNK	
ALASKA		1					1								2
ARKANSAS		2		1			1	1							5
CONNECTICUT		2													2
DISTRICT OF COLUMBIA		6						3						2	11
MICHIGAN			1												1
MISSISSIPPI		2		1			1					1			5
NEW HAMPSHIRE		9						1							10
NEW MEXICO		4		1			2		1						8
NEW YORK – A														22	22
NEW YORK – C		2												1	3
OREGON				1			2							1	4
RHODE ISLAND		4												1	5
TEXAS		6					1							1	8
VIRGINIA														1	1
WISCONSIN		1													1
TOTAL		39	1	4			8	5	1			1	–	29	88

B. NONHUMAN SOURCES

SOURCES	GROUP														TOTAL
		B	C	C1			C2	D	E			G	M	UNK	
DOMESTIC ANIMALS AND THEIR ENVIRONMENT		6												6	12
ANIMAL FEEDS													10		10
WILD ANIMALS AND BIRDS															–
REPTILES AND ENVIRONMENT														2	2
HUMAN DIETARY ITEMS				2			1								3
MISCELLANEOUS															–
TOTAL		6	–	2			1	–	–			–	10	8	27

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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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