

October 2, 1967

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SALMONELLA

SURVEILLANCE

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FOR THE MONTH OF JULY

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE
Bureau of Disease Prevention and Environmental Control

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 July 1967, 1,875 isolations of salmonellae were reported from humans, an average of 469 isolations per week (Tables I and II). This number represents an increase of 101 (27.4 percent) over the weekly average of June 1967 and an increase of 61 (15.0 percent) over the weekly average of July 1966.

Reports of 605 nonhuman isolations of salmonellae were received during July, an increase of 55 (10.0 percent) from June 1967 (Tables IV, V, and VI).

II. REPORTS OF ISOLATIONS FROM THE STATES

A. HUMAN

The seven most frequently reported serotypes during July were:

<u>Rank</u>	<u>Serotype</u>	<u>Number</u>	<u>Percent</u>	<u>Rank Last Month</u>
1	<u>S. typhi-murium</u> and <u>S. typhi-murium var.</u> <u>copenhagen</u>	477	25.4	1
2	<u>S. heidelberg</u>	251	13.4	2
3	<u>S. enteritidis</u>	126	6.7	3
4	<u>S. newport</u>	108	5.8	4
5	<u>S. infantis</u>	91	4.9	7
6	<u>S. saint-paul</u>	78	4.2	5
7	<u>S. typhi</u>	<u>67</u>	<u>3.6</u>	6
	Total	1198	63.9	
	Total (all serotypes)	1875		

Salmonella heidelberg was more frequently reported than usual in July due to 115 isolations from an epidemic in St. Louis, Missouri. A summary of this outbreak will be included in next month's report.

The age and sex distribution is shown in Table III.

B. NONHUMAN

Thirty centers reported nonhuman isolations of salmonellae, in which 66 different serotypes were represented.

The seven most frequently reported serotypes during July were:

<u>Rank</u>	<u>Serotype</u>	<u>Predominant Source and Number</u>	<u>Number</u>	<u>Percent</u>	<u>Rank Last Month</u>
1	<u>S. typhi-murium</u> and <u>S. typhi-murium var. copenhagen</u>	cattle(17) and turkeys(15)	68	11.2	1
2	<u>S. tennessee</u>	dry milk(27)	61	10.1	2
3	<u>S. anatum</u>	dry milk(12)	58	9.6	5
4	<u>S. eimsbuettel</u>	animal feed(14) and glandular material(11)	42	6.9	Not listed
5	<u>S. heidelberg</u>	turkeys(27)	39	6.4	Not listed
6	<u>S. saint-paul</u>	turkeys(14)	25	4.1	4
7	<u>S. cubana</u>	vitamins(8)	24	4.0	Not listed
	Total		317	52.4	
	Total (all serotypes)		605		

The most prominent nonhuman sources of salmonellae reported during July were turkeys, 100 (16.5 percent); dry milk, 57 (9.4 percent); animal feed, 56 (9.3 percent); bone meal/meat scraps, 50 (8.3 percent); and cattle, 40 (6.6 percent).

III. CURRENT INVESTIGATIONS

NONE

IV. REPORTS FROM THE STATES

NONE

V. SPECIAL REPORTS

NONE

VI. INTERNATIONAL

NONE

VII. FOOD AND FEED SURVEILLANCE

Progress Report on Food and Feed Surveillance Project

One hundred twenty-seven frozen dessert pies, representing 28 brands, were received from North Carolina, New York City, Washington, Louisiana, Florida, Illinois, and New Mexico. They were examined for the presence of salmonellae and Escherichia coli. Twenty-one samples were positive for E. coli; whereas, all samples were negative for salmonellae. In addition, 21 samples of mixed feeds and 4 samples of wheat flour were examined for salmonellae; all were found negative.

TABLE I (Continued)

SEROTYPE	GEOGRAPHIC DIVISION AND REPORTING CENTER																										OTHER VI	JULY TOTAL	% OF JULY TOTAL	JAN-JULY 1967 TOTAL	% OF JAN-JULY 1967 TOTAL	JAN-JULY 1966 TOTAL	% OF JAN-JULY 1966 TOTAL	SEROTYPE
	EAST SOUTH CENTRAL					WEST SOUTH CENTRAL					MOUNTAIN							PACIFIC																
	KY	TENN	ALA	MISS	TOT	ARK	LA	OKLA	TEX	TOT	MONT	IDA	WYO	COLO	NM	ARI	UTAH	NEV	TOT	WASH	ORE	CAL	ALAS	HAW	TOT									
anatum																											20	1.1	169	1.6	173	1.6	anatum	
bareilly						1	5		1	6					1				2					3	8		6	0.3	33	0.3	22	0.2	bareilly	
berta							1		1	3														1			4	0.2	22	0.2	21	0.2	berta	
blockley										4															4		43	2.3	319	3.1	357	3.4	blockley	
braenderup																											7	0.4	45	0.4	52	0.5	braenderup	
bredeney																											4	0.2	57	0.5	65	0.6	bredeney	
chester																											6	0.3	46	0.4	67	0.6	chester	
cholerae-suis v.k.																											2	0.1	10	0.1	15	0.1	cholerae-suis v.k.	
cubana																											5	0.3	41	0.4	95	0.9	cubana	
derby														1					1					2	2		18	1.0	178	1.7	203	1.9	derby	
enteritidis																											126	6.7	608	5.8	689	6.6	enteritidis	
give																											4	0.2	34	0.3	45	0.4	give	
heidelberg																											251	13.4	996	9.6	886	8.4	heidelberg	
indiana																											2	0.1	25	0.2	50	0.5	indiana	
infantis																											91	4.9	512	4.9	816	7.8	infantis	
java																											33	1.8	173	1.7	240	2.3	java	
javana																											45	2.4	161	1.5	110	1.0	javana	
kentucky																											4	0.2	20	0.2	10	0.1	kentucky	
litchfield																											10	0.5	46	0.4	32	0.3	litchfield	
livingstone																											0	0.0	38	0.4	12	0.1	livingstone	
manhattan																											37	2.0	171	1.6	52	0.5	manhattan	
meleagridis																											0	0.0	5	0.05	4	0.0	meleagridis	
miami																											12	0.6	29	0.3	31	0.3	miami	
mississippi																											6	0.3	30	0.3	27	0.3	mississippi	
montevideo																											32	1.7	242	2.3	168	1.6	montevideo	
muenchen																											18	1.0	124	1.2	113	1.1	muenchen	
newington																											6	0.3	31	0.3	27	0.3	newington	
newport																											108	5.8	553	5.3	586	5.6	newport	
oranienburg																											32	1.7	202	1.9	243	2.3	oranienburg	
panama																											3	0.1	10	0.5	137	1.3	panama	
paratyphi B																											10	0.5	48	0.5	92	0.9	paratyphi B	
poona																											7	0.4	26	0.3	21	0.2	poona	
saint-paul																											78	4.2	416	4.0	403	3.8	saint-paul	
san-diego																											4	0.3	107	1.0	71	0.7	san-diego	
schwarzengrund																											8	0.4	45	0.4	31	0.3	schwarzengrund	
senftenberg																											5	0.3	31	0.3	34	0.3	senftenberg	
tennessee																											5	0.3	42	0.4	80	0.8	tennessee	
thompson																											44	2.3	191	1.8	313	3.0	thompson	
typhi																											2	0.1	13	0.1	7	0.1	typhi	
typhi-murium																											67	3.6	402	3.9	391	3.7	typhi-murium	
typhi-murium v.c.																											445	23.7	3,013	28.9	2,882	27.5	typhi-murium v.c.	
urbana																											32	1.7	161	1.5	84	0.8	urbana	
weltvreden																											0	0.0	12	0.1	16	0.2	weltvreden	
worthington																											2	0.1	42	0.4	19	0.2	worthington	
untyp., group B																											3	0.2	17	0.2	25	0.2	untyp., group B	
untyp., group B																											83	4.4	227	2.2	194	1.8	untyp., group B	
untyp., group C1																											10	0.5	106	1.0	59	0.6	untyp., group C1	
untyp., group C2																											36	1.9	56	0.5	22	0.2	untyp., group C2	
untyp., group D																											14	0.7	36	0.3	25	0.2	untyp., group D	
untyp., group E																											4	0.2	13	0.1	7	0.1	untyp., group E	
untyp. or unk.																											19	1.0	93	0.9	41	0.4	untyp. or unk.	
Total Common	6	24	16	9	55	24	44	17	122	207	2	-0-	-0-	16	28	7	3	1	57	27	18	168	3	41	257	1,820	97.1	10,105	97.0	10,165	96.7	Total Common		
Total Other	-0-	-0-	-0-	-0-	-0-	1	2	2	4	9	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	1	-0-	2	-0-	4	7	55	2.9	317	3.0	362	3.3	Total Other	
Grand Total	6	24	16	9	55	25	46	19	126	216	2	-0-	-0-	16	28	7	3	1	57	28	18	170	3	45	264	1,875		10,422		10,507		Grand Total		

TABLE II
OTHER SALMONELLA SEROTYPES ISOLATED FROM HUMANS DURING JULY, 1967

SEROTYPE	REPORTING CENTER																				7 MO		SEROTYPE		
	ARK	CAL	FLA	GA	HAI	ILL	IND	LA	MD	MASS	MICH	MO	NJ	NYA	NYC	OHIO	OKLA	PA	TEX	WASH	WISC	TOTAL		TOTAL	
adelaide																				1		1	1	3	adelaide
amager																		1					1	2	amager
atlanta				2																			2	7	atlanta
berlin																							5	9	berlin
binza												1											1	5	binza
california						1		1															2	6	california
cerro							1							1									2	6	cerro
cholerae-suis																1							1	1	cholerae-suis
dublin			1																				1	3	dublin
eimsbuettel													1										1	15	eimsbuettel
eppendorf													1										1	1	eppendorf
gaminara				1				1															2	5	gaminara
gatuni																						1	1	1	gatuni
georgia												2											2	3	georgia
hartford				1																			1	13	hartford
irumu											2						1						3	10	irumu
johannesburg																						1	1	10	johannesburg
loma-linda		1																					1	3	loma-linda
manchester													1										1	2	manchester
minnesota			2								1					1				2			6	14	minnesota
mission					2							1											3	13	mission
muenster											1						1						2	16	muenster
nottingham																			1				1	10	nottingham
orion								1															1	2	orion
oslo					2																		2	10	oslo
paratyphi-A															1								1	5	paratyphi-A
pensacola																							1	3	pensacola
reading											1												1	27	reading
rubislaw			2					1			1												3	16	rubislaw
saphra																			1				1	4	saphra
siegburg						1																	1	4	siegburg
untypable group H	1																						1	3	untypable group H
untypable group M			1																				1	1	untypable group M
Total	1	2	5	4	4	2	2	2	1	2	2	6	3	1	1	2	2	6	4	1	2	55	317	Total	

NY-A = Albany, NY-C = City

TABLE III

Age and Sex Distribution of Individuals Reported as Harboring Salmonellae
During July 1967

<u>Age (Years)</u>	<u>Male</u>	<u>Female</u>	<u>Unknown</u>	<u>Total</u>	<u>Percent</u>	<u>Cumulative Percent</u>
< 1	115	115	2	232	17.5	17.5
1 - 4	179	155	3	337	25.5	43.0
5 - 9	75	68	1	144	10.9	53.9
10 - 19	63	133		196	14.8	68.7
20 - 29	46	80		126	9.5	78.2
30 - 39	36	52	1	89	6.7	84.9
40 - 49	27	24	1	52	3.9	88.8
50 - 59	25	34		59	4.5	93.3
60 - 69	16	28		44	3.3	96.6
70 - 79	6	19		25	1.9	98.5
80 +	<u>7</u>	<u>11</u>	<u> </u>	<u>18</u>	1.4	99.9
Subtotal	595	719	8	1322		
Child (Unspec.)	9	5		14		
Adult (Unspec.)	6	7	1	14		
Unknown	<u>200</u>	<u>278</u>	<u>47</u>	<u>525</u>		
Total	810	1009	56	1875		
Percent of Total	44.5	55.5				

TABLE VI
OTHER SEROTYPES REPORTED DURING 1967
FROM NONHUMAN SOURCES

SEROTYPE	MONTH(S)	REPORTING CENTER(S)	NUMBER OF ISOLATIONS
adelaide	Jun	Ill	1
amager	Mar	Ill	4
arkansas	Mar	La	1
berlin	May	Pa	1
carrau	Jan	La	1
corvallis	Jan-Feb	La	3
duesseldorf	Mar	Ohio(8)	
	Apr	Mich(1)	9
duisburg	Jun	Ohio	1
eastbourne	Jan	Minn	1
gallinarum	Jan	Ark(2)	
	May-Jun	Pa(5)	7
gadow	Apr	Wash(4)	
	May	Kan(1)	5
grumpeu's	Jan	La(2)	
	Jun	Mich(1)	3
habana	Apr	Fla	2
hartford	Jan	Hai	1
hato	Jun	La	1
irumu	Apr	Hai	1
kottbus	Jun	Cal	1
lexington	Jan-Mar-Apr	Ill(6)	
	Jan-Feb	La(2)	
	Jan	Ohio(1)	
	Mar-Jun	Cal(2)	
	May	Ariz(1)	12
litchfield	Feb-Mar-May	Va	3
meleagridis	Jan-Mar	Ind(2)	
	Jan-Feb-Mar	La(3)	
	Feb	Hai(1)	
	Feb-Mar-Apr	Mo(4)	
	Mar	Cal(1)	
	Mar	DC(3)	
	Apr	Ark(1)	
	Apr	Ill(1)	
	Apr	Minn(1)	17
miami	Apr	Fla	1
mission	May	Ohio	1
mississippi	Feb	La	2
mokola	Feb	La	1
muenster	Jan	Ark(2)	
	Jan-Feb	La(4)	6

TABLE VI
OTHER SEROTYPES REPORTED DURING 1967
FROM NONHUMAN SOURCES CONTINUED

SEROTYPE	MONTH(S)	REPORTING CENTER(S)	NUMBER OF ISOLATIONS
new-haw	Feb	Iowa(1)	
	Apr	Ill(1)	2
okerara	Feb	La	1
oslo	Feb	Fla	2
pomona	Jan	La	1
poona	Jan	Fla(4)	
	Jan	Ill(1)	
	Jan-Apr	Neb(7)	
	Feb	Mo(1)	
	Apr	Mich(1)	14
putten	Jun	Cal	1
redlands	Feb	La	1
saphra	Jun	Tex	1
shubra	Feb	La	1
siegburg	Jan-Apr	Ill(7)	
	Jan	Minn(1)	
	Jan	Ohio(5)	
	Feb-Apr	Ind(2)	
	Feb	La(1)	
	Feb	Mo(1)	
	Feb-Mar	Utah(4)	
	Mar	Mich(1)	22
simsbury	Mar	Mo(1)	
	Apr	Kan(2)	3
stanley	Apr	La	1
taksony	Jan-Feb	Utah	2
thomasville	Jan-Mar-May	Iowa(4)	
	Jan	La(1)	
	Mar-May	Ill(2)	
	Jun	Minn(1)	8
tucson	Feb	Cal	1
tuindorp	Feb	Ill(1)	
	Apr	Cal(1)	2
vejle	Feb	La	1
wichita	Feb	Utah	1
TOTAL			151

Figure 1.

REPORTED HUMAN ISOLATIONS OF SALMONELLAE
IN THE UNITED STATES

