

COMMUNICABLE DISEASE CENTER



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WEEKLY
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May 7, 1966

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

EPIDEMIOLOGIC NOTES AND REPORTS

SALMONELLA ORANIENBURG - Arizona

Between March 15 and April 4, 1966, six patients in a community hospital developed gastroenteritis due to *Salmonella oranienburg*. One of the patients was admitted on March 16 with diarrhea; the other five patients developed a febrile diarrheal illness subsequent to hospital admission.

Since these six isolations of *Salmonella oranienburg* were obtained from six individuals in the hospital within a period of 3 weeks, a review of the patients' records was undertaken. There was no area of the hospital common to all patients; they were cared for by different doctors and nurses and received different diets. There

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was no evidence of increased incidence of diarrheal illness in the surrounding community or in other hospitals in the area.

Food for all patients and personnel in the hospital is prepared in a central kitchen from where it is distributed in appropriate containers to individual diet kitchens in patient-care units. It is then served by the employees

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	18th WEEK ENDED		MEDIAN 1961 - 1965	CUMULATIVE, FIRST 18 WEEKS		
	MAY 7, 1966	MAY 8, 1965		1966	1965	MEDIAN 1961 - 1965
Aseptic meningitis	25	26	23	488	516	433
Brucellosis	—	5	7	65	69	129
Diphtheria	1	1	6	50	73	107
Encephalitis, primary:						
Arthropod-borne & unspecified	23	24	—	433	534	—
Encephalitis, post-infectious	9	18	—	294	278	—
Hepatitis, serum	29	675	804	443	13,709	17,962
Hepatitis, infectious	609			12,206		
Measles (rubeola)	8,117	11,272	19,088	134,084	173,301	238,186
Poliomyelitis, Total (including unspecified)	—	1	1	7	7	48
Paralytic	—	1	1	6	5	43
Nonparalytic	—	—	—	—	2	—
Meningococcal infections, Total	102	80	58	1,799	1,534	1,081
Civilian	94	77	—	1,577	1,400	—
Military	8	3	—	222	134	—
Rubella (German measles)	1,780	—	—	26,409	—	—
Streptococcal sore throat & Scarlet fever	8,814	8,769	8,183	206,343	194,351	169,872
Tetanus	2	4	—	37	68	—
Tularemia	1	2	—	48	63	—
Typhoid fever	5	7	8	98	110	124
Typhus, tick-borne (Rky. Mt. Spotted fever)	1	1	—	10	9	—
Rabies in Animals	84	70	95	1,602	1,851	1,538

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Botulism:	1
Leptospirosis: Hawaii-1, Texas-1	12	Trichinosis:	37
Malaria: Md-5, Pa.-2, Colo.-1, Calif.-1	100	Rabies in Man:	1
Psittacosis:	16	Rubella, Congenital Syndrome:	10
Typhus, murine:	6		

EPIDEMIOLOGIC NOTES AND REPORTS

SALMONELLA ORANIENBURG - Arizona

(Continued from front page)

permanently assigned to the relevant unit. However, the scale of accommodation and equipment in the central kitchen has not maintained progress with demands. Adequate and efficient working space in the kitchen is at a premium until the new central kitchen unit, now under construction, has been completed. Water supplies are obtained from wells in the hospital grounds which are adequately and regularly checked bacteriologically. Milk from the local contractor is likewise checked and has always been within acceptable bacteriological limits.

During the investigation five employees concerned with the preparation and distribution of food were also found to have stool cultures positive for *Salmonella* C₁, later confirmed as *S. oranienburg*. Three of them worked permanently in the individual diet kitchens of three separate areas of the hospital; two others worked in the serving line of the employees' cafeteria. Although none worked in the central kitchen where food common to all patients was prepared, they frequently ate food from this kitchen. Two could recall a well defined recent diarrheal illness

compatible with salmonella infection.

Epidemiologic evidence indicated that this was a salmonella outbreak related to a source of infection present over a period of time and not a single common source of infection such as one meal. Attention was then focused on the central kitchen. Cultures obtained from stool specimens of personnel working in the central kitchen were negative for salmonella. Dietary histories then narrowed down the range of foodstuffs that were most commonly eaten until it was found that frozen unpasteurized egg products were being used in the preparation of puddings, custards and pie frequently consumed by all those affected. It was also noted that in March, about the time of the start of the outbreak, the dietary department had used up the stocks of commercially prepared pudding and custard mixes, and had begun to prepare its own mixes in the hospital central kitchen using basic ingredients which included frozen, unpasteurized egg products.

(Continued on page 160)

SURVEILLANCE SUMMARY

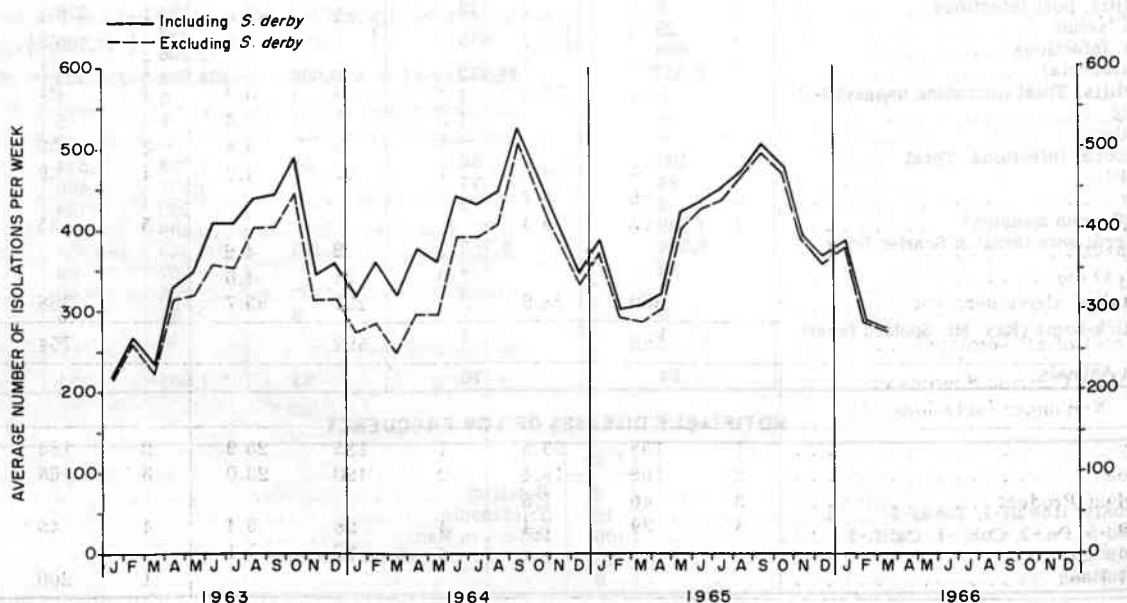
SALMONELLOSIS - January, February and March, 1966

During the months of January, February and March, 1966, the reported numbers of human isolations of salmonellae were 1,531, 1,149 and 1,374 respectively. The numbers generally correspond to the expected seasonal pattern, although the February total was the lowest

recorded for any one month since the same period during 1963 (See Figure 1).

The seven most frequently reported human serotypes for the 3 months are listed in Table 1. The seven most common ones accounted for 68.1 percent, 62.4 percent and

Figure 1
REPORTED HUMAN ISOLATIONS OF SALMONELLA
IN THE UNITED STATES



SURVEILLANCE SUMMARY
SALMONELLOSIS - January, February and March, 1966
(Continued from page 154)

Table 1
The Seven Most Commonly Reported Serotypes From Human Sources - January-March, 1966

Serotype	January			February			March		
	Rank	Number	Percent	Rank	Number	Percent	Rank	Number	Percent
<i>S. typhi-murium</i> & <i>S. typhi-murium</i> <i>var. copenhagen</i>	1	492	32.1	1	286	24.9	1	420	30.6
<i>S. heidelberg</i>	4	104	6.8	4	78	6.8	3	97	7.1
<i>S. newport</i>	5	82	5.4	3	81	7.0	4	77	5.6
<i>S. enteritidis</i>	2	123	8.0	5	68	5.9	5	68	4.9
<i>S. infantitis</i>	3	117	7.6	2	111	9.7	2	144	10.5
<i>S. thompson</i>	6	68	4.4						
<i>S. saint-paul</i>				7	46	4.0			
<i>S. typhi</i>	7	57	3.7	6	47	4.1	6	58	4.2
<i>S. oranienburg</i>							7	48	3.5
Total of above serotypes		1,043	68.1		717	62.4		912	66.4
Total of all serotypes		1,531			1,149			1,374	

66.4 percent respectively of all isolations in each month. The age and sex distribution of persons with salmonellae for the 3 months is compatible with past experience. The percentage of persons reported as harboring salmonellae who had other members in their families simultaneously infected was consistent: 21.3 percent in January; 19.2 percent in February; 23.1 percent in March.

The seven most commonly reported serotypes from

nonhuman sources for this period are listed in Table 2. It is evident that the frequent nonhuman sources of salmonellae have been turkeys, chickens, and bovines. In March, however, a variation in this pattern was introduced with the high number of isolations from various types of animal feed. A large portion of the latter isolates were from surveys of animal feed conducted in one State. (Reported by the *Salmonella Surveillance Unit, CDC.*)

Table 2
The Seven Most Commonly Reported Serotypes From Nonhuman Sources - January-March, 1966

Serotype	January			February			March		
	Rank	Number	Percent	Rank	Number	Percent	Rank	Number	Percent
<i>S. typhi-murium</i> & <i>S. typhi-murium</i> <i>var. copenhagen</i>	1	76	14.5	1	115	22.0	1	131	17.4
<i>S. heidelberg</i>	3	52	9.9	2	46	8.8	2	68	9.0
<i>S. infantitis</i>	4	40	7.6				7	31	4.1
<i>S. saint-paul</i>	2	54	10.3	4	26	5.0	6	34	4.5
<i>S. oranienburg</i>				3	33	6.3			
<i>S. montevideo</i>				5	25	4.8	3	50	6.6
<i>S. anatum</i>	5	34	6.5	7	22	4.2	4	39	5.2
<i>S. derby</i>	6	30	5.7						
<i>S. blockley</i>	7	23	4.4				5	35	4.6
<i>S. thompson</i>				7	22	4.2			
<i>S. senftenberg</i>				6	24	4.6			
Total of above serotypes		309	58.9		291	55.7		388	51.5
Total of all serotypes		525			522			754	
Most Common Sources of Nonhuman Isolations									
Turkey	1	155	29.5	1	135	25.9	2	185	24.5
Chicken	2	102	19.4	2	120	23.0	3	168	22.3
Pork Meat Product	3	40	7.6						
Bovine	4	39	7.4	4	28	5.4	4	45	6.0
Frozen Egg				3	37	7.1			
Animal Feed							1	200	26.5

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MAY 7, 1966 AND MAY 8, 1965 (18th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	ENCEPHALITIS			DIPHTHERIA		HEPATITIS		
				Primary including unsp. cases		Post- Infectious			Serum	Infectious	Both Types
	1966	1965		1966	1965	1966	1966	1965	1966	1966	1965
UNITED STATES...	25	26	-	23	24	9	1	1	29	609	675
NEW ENGLAND.....	-	1	-	1	2	1	-	-	-	31	46
Maine.....	-	-	-	-	-	-	-	-	-	4	5
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	6
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	1	-	1	2	1	-	-	-	20	19
Rhode Island.....	-	-	-	-	-	-	-	-	-	3	8
Connecticut.....	-	-	-	-	-	-	-	-	-	4	8
MIDDLE ATLANTIC.....	2	5	-	4	9	2	-	1	12	121	101
New York City.....	1	1	-	1	4	-	-	-	9	22	13
New York, Up-State.....	-	2	-	-	1	-	-	-	-	23	36
New Jersey.....	1	-	-	2	3	-	-	-	2	38	24
Pennsylvania.....	-	2	-	1	1	2	-	1	1	38	28
EAST NORTH CENTRAL...	6	2	-	5	3	-	-	-	2	80	152
Ohio.....	1	1	-	3	1	-	-	-	1	19	36
Indiana.....	-	-	-	2	1	-	-	-	-	2	20
Illinois.....	4	1	-	-	1	-	-	-	-	26	22
Michigan.....	-	-	-	-	-	-	-	-	1	27	68
Wisconsin.....	1	-	-	-	-	-	-	-	-	6	6
WEST NORTH CENTRAL...	-	1	-	-	2	-	-	-	-	49	53
Minnesota.....	-	1	-	-	1	-	-	-	-	5	6
Iowa.....	-	-	-	-	-	-	-	-	-	16	24
Missouri.....	-	-	-	-	-	-	-	-	-	17	8
North Dakota.....	-	-	-	-	1	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	1	-
Nebraska.....	-	-	-	-	-	-	-	-	-	5	-
Kansas.....	-	-	-	-	-	-	-	-	-	5	15
SOUTH ATLANTIC.....	2	-	-	6	1	2	-	-	3	73	68
Delaware.....	1	-	-	-	-	-	-	-	-	4	-
Maryland.....	-	-	-	-	-	-	-	-	-	13	9
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	1	1
Virginia.....	-	-	-	2	-	-	-	-	-	7	15
West Virginia.....	-	-	-	4	-	-	-	-	-	-	7
North Carolina.....	1	-	-	-	1	-	-	-	2	10	4
South Carolina.....	-	-	-	-	-	-	-	-	-	1	4
Georgia.....	-	-	-	-	-	-	-	-	-	11	-
Florida.....	-	-	-	-	-	2	-	-	1	26	28
EAST SOUTH CENTRAL...	2	2	-	2	-	-	-	-	-	59	46
Kentucky.....	-	1	-	-	-	-	-	-	-	11	17
Tennessee.....	-	-	-	1	-	-	-	-	-	24	15
Alabama.....	1	1	-	-	-	-	-	-	-	17	8
Mississippi.....	1	-	-	1	-	-	-	-	-	7	6
WEST SOUTH CENTRAL...	1	1	-	1	-	2	-	-	1	57	38
Arkansas.....	-	-	-	1	-	1	-	-	-	7	10
Louisiana.....	-	-	-	-	-	-	-	-	-	15	7
Oklahoma.....	-	-	-	-	-	-	-	-	-	-	-
Texas.....	1	1	-	-	-	1	-	-	1	35	21
MOUNTAIN.....	-	2	-	3	3	-	1	-	-	19	31
Montana.....	-	-	-	-	-	-	-	-	-	1	2
Idaho.....	-	-	-	-	-	-	-	-	-	4	-
Wyoming.....	-	1	-	-	-	-	-	-	-	-	2
Colorado.....	-	-	-	1	3	-	-	-	-	-	9
New Mexico.....	-	-	-	-	-	-	1	-	-	8	7
Arizona.....	-	1	-	2	-	-	-	-	-	5	10
Utah.....	-	-	-	-	-	-	-	-	-	1	1
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	12	12	-	1	4	2	-	-	11	120	140
Washington.....	1	-	-	1	2	1	-	-	-	5	10
Oregon.....	1	-	-	-	-	-	-	-	-	18	10
California.....	9	12	-	-	2	1	-	-	11	96	115
Alaska.....	-	-	-	-	-	-	-	-	-	-	3
Hawaii.....	1	-	-	-	-	-	-	-	-	1	2
Puerto Rico.....	-	-	-	1	-	-	-	-	-	24	33

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MAY 7, 1966 AND MAY 8, 1965 (18th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS				RUBELLA
	1966	Cumulative		1966	Cumulative		Total		Paralytic		
		1966	1965		1966	1965	1966	1965	1966	Cumulative 1966	
UNITED STATES...	8,117	134,084	173,301	102	1,799	1,534	-	1	-	6	1,780
NEW ENGLAND.....	100	1,559	31,159	4	79	77	-	-	-	-	164
Maine.....	4	166	2,204	-	7	9	-	-	-	-	7
New Hampshire.....	7	33	345	-	7	5	-	-	-	-	3
Vermont.....	-	204	639	-	3	2	-	-	-	-	1
Massachusetts.....	22	586	17,176	1	31	28	-	-	-	-	104
Rhode Island.....	17	79	3,412	-	7	11	-	-	-	-	6
Connecticut.....	50	491	7,383	3	24	22	-	-	-	-	43
MIDDLE ATLANTIC.....	566	14,884	7,678	16	198	214	-	-	-	-	95
New York City.....	205	7,407	860	4	30	31	-	-	-	-	28
New York, Up-State.....	57	1,579	2,323	4	55	56	-	-	-	-	63
New Jersey.....	48	1,578	1,331	4	56	64	-	-	-	-	-
Pennsylvania.....	256	4,320	3,164	4	57	63	-	-	-	-	4
EAST NORTH CENTRAL...	2,465	49,336	33,530	11	267	182	-	-	-	-	453
Ohio.....	511	4,573	6,670	3	73	53	-	-	-	-	23
Indiana.....	243	3,411	1,169	4	45	25	-	-	-	-	89
Illinois.....	313	9,462	1,412	2	51	48	-	-	-	-	77
Michigan.....	455	8,127	17,589	1	72	32	-	-	-	-	82
Wisconsin.....	943	23,763	6,690	1	26	24	-	-	-	-	182
WEST NORTH CENTRAL...	392	6,343	13,208	3	96	83	-	-	-	1	238
Minnesota.....	64	1,449	424	-	24	17	-	-	-	1	-
Iowa.....	264	3,610	7,362	-	13	3	-	-	-	-	234
Missouri.....	5	381	2,070	3	38	39	-	-	-	-	1
North Dakota.....	35	831	2,967	-	4	4	-	-	-	-	3
South Dakota.....	-	4	68	-	3	2	-	-	-	-	-
Nebraska.....	24	68	317	-	7	9	-	-	-	-	-
Kansas.....	NN	NN	NN	-	7	9	-	-	-	-	-
SOUTH ATLANTIC.....	601	10,248	19,185	20	290	302	-	-	-	1	176
Delaware.....	18	152	413	-	3	3	-	-	-	-	2
Maryland.....	65	1,522	762	4	29	31	-	-	-	-	4
Dist. of Columbia..	12	338	31	1	7	4	-	-	-	-	1
Virginia.....	58	1,080	3,077	4	42	31	-	-	-	-	43
West Virginia.....	156	3,771	10,981	1	10	23	-	-	-	-	16
North Carolina.....	18	185	213	8	62	51	-	-	-	-	-
South Carolina.....	20	471	795	-	39	45	-	-	-	-	6
Georgia.....	7	192	538	1	42	41	-	-	-	1	-
Florida.....	247	2,537	2,375	1	56	73	-	-	-	-	104
EAST SOUTH CENTRAL...	851	14,983	10,719	15	159	110	-	-	-	-	230
Kentucky.....	106	4,085	2,000	3	69	47	-	-	-	-	52
Tennessee.....	673	8,850	6,004	6	47	33	-	-	-	-	172
Alabama.....	12	1,279	1,863	4	32	22	-	-	-	-	6
Mississippi.....	60	769	852	2	11	8	-	-	-	-	-
WEST SOUTH CENTRAL...	1,157	16,231	24,546	11	271	234	-	1	-	3	4
Arkansas.....	5	528	883	1	15	12	-	-	-	-	1
Louisiana.....	2	74	60	3	108	134	-	-	-	-	-
Oklahoma.....	42	365	136	1	11	16	-	-	-	1	-
Texas.....	1,108	15,264	23,467	6	137	72	-	1	-	2	3
MOUNTAIN.....	711	7,775	13,509	7	67	53	-	-	-	-	193
Montana.....	82	1,155	2,936	-	4	1	-	-	-	-	10
Idaho.....	35	747	1,862	1	4	7	-	-	-	-	-
Wyoming.....	7	100	660	2	3	2	-	-	-	-	-
Colorado.....	46	783	3,410	3	36	12	-	-	-	-	34
New Mexico.....	156	686	506	-	9	8	-	-	-	-	-
Arizona.....	319	3,998	621	1	9	15	-	-	-	-	147
Utah.....	66	282	3,371	-	-	6	-	-	-	-	2
Nevada.....	-	24	143	-	2	2	-	-	-	-	-
PACIFIC.....	1,274	12,725	19,767	15	372	279	-	-	-	1	227
Washington.....	202	2,162	5,768	2	24	21	-	-	-	1	83
Oregon.....	71	914	2,515	-	24	21	-	-	-	-	49
California.....	997	9,511	9,048	13	307	226	-	-	-	-	80
Alaska.....	3	61	107	-	14	6	-	-	-	-	10
Hawaii.....	1	77	2,329	-	3	5	-	-	-	-	5
Puerto Rico.....	120	1,673	1,270	1	4	3	-	-	-	-	3

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
 FOR WEEKS ENDED
 MAY 7, 1966 AND MAY 8, 1965 (18th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966
UNITED STATES...	8,814	2	37	1	48	5	98	1	10	84	1,602
NEW ENGLAND.....	1,150	-	2	-	1	-	4	-	-	-	22
Maine.....	44	-	-	-	-	-	-	-	-	-	2
New Hampshire.....	13	-	-	-	-	-	-	-	-	-	8
Vermont.....	19	-	-	-	-	-	-	-	-	-	12
Massachusetts.....	227	-	2	-	1	-	1	-	-	-	-
Rhode Island.....	46	-	-	-	-	-	-	-	-	-	-
Connecticut.....	801	-	-	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC.....	415	1	6	-	-	-	24	-	1	3	113
New York City.....	30	-	3	-	-	-	12	-	-	-	-
New York, Up-State.....	260	-	-	-	-	-	3	-	-	3	107
New Jersey.....	NN	-	-	-	-	-	6	-	-	-	-
Pennsylvania.....	125	1	3	-	-	-	3	-	1	-	6
EAST NORTH CENTRAL...	1,191	-	3	-	12	-	15	-	-	12	228
Ohio.....	159	-	-	-	3	-	7	-	-	7	124
Indiana.....	231	-	1	-	3	-	1	-	-	2	49
Illinois.....	276	-	1	-	5	-	2	-	-	1	18
Michigan.....	284	-	1	-	-	-	2	-	-	2	19
Wisconsin.....	241	-	-	-	1	-	3	-	-	-	18
WEST NORTH CENTRAL...	658	-	2	-	3	1	11	-	1	23	349
Minnesota.....	17	-	-	-	-	-	-	-	-	7	69
Iowa.....	258	-	-	-	-	-	3	-	-	6	77
Missouri.....	4	-	2	-	1	-	5	-	-	7	130
North Dakota.....	221	-	-	-	-	-	-	-	-	-	6
South Dakota.....	12	-	-	-	-	-	-	-	-	1	34
Nebraska.....	3	-	-	-	-	-	1	-	-	-	7
Kansas.....	143	-	-	-	2	1	2	-	1	2	26
SOUTH ATLANTIC.....	949	-	8	-	6	1	19	1	7	10	212
Delaware.....	25	-	-	-	-	-	-	-	-	-	-
Maryland.....	160	-	-	-	-	1	6	1	1	-	-
Dist. of Columbia..	4	-	-	-	-	-	-	-	-	-	-
Virginia.....	282	-	-	-	2	-	6	-	2	5	134
West Virginia.....	180	-	-	-	1	-	1	-	-	1	30
North Carolina.....	20	-	-	-	2	-	2	-	3	-	-
South Carolina.....	12	-	1	-	1	-	2	-	-	-	-
Georgia.....	7	-	3	-	-	-	-	-	1	4	31
Florida.....	259	-	4	-	-	-	2	-	-	-	17
EAST SOUTH CENTRAL...	1,484	-	2	1	13	1	8	-	-	9	227
Kentucky.....	73	-	-	-	2	-	1	-	-	1	34
Tennessee.....	1,225	-	-	1	7	-	4	-	-	7	184
Alabama.....	92	-	2	-	4	-	2	-	-	1	9
Mississippi.....	94	-	-	-	-	1	1	-	-	-	-
WEST SOUTH CENTRAL...	750	-	8	-	11	1	5	-	1	15	328
Arkansas.....	-	-	2	-	9	1	1	-	1	1	39
Louisiana.....	-	-	3	-	1	-	1	-	-	2	19
Oklahoma.....	34	-	-	-	-	-	1	-	-	6	94
Texas.....	716	-	3	-	1	-	2	-	-	6	176
MOUNTAIN.....	1,197	-	1	-	1	-	6	-	-	2	31
Montana.....	44	-	-	-	-	-	-	-	-	-	7
Idaho.....	64	-	-	-	-	-	-	-	-	-	-
Wyoming.....	50	-	-	-	-	-	-	-	-	-	-
Colorado.....	450	-	1	-	-	-	2	-	-	-	1
New Mexico.....	228	-	-	-	-	-	-	-	-	-	5
Arizona.....	147	-	-	-	-	-	1	-	-	2	17
Utah.....	214	-	-	-	1	-	3	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	1
PACIFIC.....	1,020	1	5	-	1	1	6	-	-	10	92
Washington.....	268	-	-	-	-	-	-	-	-	-	-
Oregon.....	47	-	-	-	-	-	1	-	-	-	-
California.....	642	1	5	-	1	-	3	-	-	10	92
Alaska.....	33	-	-	-	-	-	-	-	-	-	-
Hawaii.....	30	-	-	-	-	1	2	-	-	-	-
Puerto Rico.....	4	4	19	-	-	-	4	-	-	1	4

Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MAY 7, 1966

18

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	775	491	42	34	SOUTH ATLANTIC:	1,185	636	57	61
Boston, Mass.-----	264	150	10	15	Atlanta, Ga.-----	123	47	4	7
Bridgeport, Conn.-----	58	37	5	2	Baltimore, Md.-----	288	163	11	21
Cambridge, Mass.-----	31	21	-	-	Charlotte, N. C.-----	46	24	3	-
Fall River, Mass.-----	18	9	-	-	Jacksonville, Fla.-----	57	29	2	6
Hartford, Conn.-----	64	40	6	4	Miami, Fla.-----	72	38	2	1
Lowell, Mass.-----	35	27	2	1	Norfolk, Va.-----	53	35	4	2
Lynn, Mass.-----	29	20	2	1	Richmond, Va.-----	85	39	3	3
New Bedford, Mass.-----	34	27	1	1	Savannah, Ga.-----	35	15	3	1
New Haven, Conn.-----	52	32	-	1	St. Petersburg, Fla.-----	72	56	3	2
Providence, R. I.-----	61	41	4	3	Tampa, Fla.-----	83	53	5	2
Somerville, Mass.-----	14	12	2	-	Washington, D. C.-----	218	104	15	14
Springfield, Mass.-----	32	24	2	2	Wilmington, Del.-----	53	33	2	2
Waterbury, Conn.-----	33	20	-	1					
Worcester, Mass.-----	50	31	8	3	EAST SOUTH CENTRAL:	720	399	52	41
MIDDLE ATLANTIC:	3,213	1,884	151	133	Birmingham, Ala.-----	101	54	4	6
Albany, N. Y.-----	56	25	4	3	Chattanooga, Tenn.-----	63	38	6	3
Allentown, Pa.-----	34	19	4	2	Knoxville, Tenn.-----	52	33	6	2
Buffalo, N. Y.-----	154	92	6	8	Louisville, Ky.-----	142	77	16	9
Camden, N. J.-----	33	14	2	2	Memphis, Tenn.-----	158	97	7	6
Elizabeth, N. J.-----	38	24	3	2	Mobile, Ala.-----	45	20	-	4
Erie, Pa.-----	44	19	1	5	Montgomery, Ala.-----	46	24	8	4
Jersey City, N. J.-----	69	41	4	4	Nashville, Tenn.-----	113	56	5	7
Newark, N. J.-----	92	36	5	5	WEST SOUTH CENTRAL:	1,103	556	55	68
New York City, N. Y.-----	1,711	1,052	78	52	Austin, Tex.-----	31	18	6	1
Paterson, N. J.-----	39	18	5	-	Baton Rouge, La.-----	39	26	-	-
Philadelphia, Pa.-----	421	225	8	22	Corpus Christi, Tex.-----	24	12	2	-
Pittsburgh, Pa.-----	155	82	3	12	Dallas, Tex.-----	174	86	9	13
Reading, Pa.-----	50	37	3	3	El Paso, Tex.-----	52	23	5	8
Rochester, N. Y.-----	102	69	7	5	Fort Worth, Tex.-----	63	38	2	1
Schenectady, N. Y.-----	25	15	5	-	Houston, Tex.-----	190	89	8	18
Scranton, Pa.-----	40	26	6	1	Little Rock, Ark.-----	68	35	6	2
Syracuse, N. Y.-----	51	33	1	5	New Orleans, La.-----	162	79	5	9
Trenton, N. J.-----	34	16	-	1	Oklahoma City, Okla.-----	91	38	2	6
Utica, N. Y.-----	22	14	3	1	San Antonio, Tex.-----	98	54	3	2
Yonkers, N. Y.-----	43	27	3	-	Shreveport, La.-----	56	27	1	6
EAST NORTH CENTRAL:	2,633	1,539	83	153	Tulsa, Okla.-----	55	31	6	2
Akron, Ohio-----	70	34	-	7	MOUNTAIN:	373	234	22	18
Canton, Ohio-----	30	19	1	2	Albuquerque, N. Mex.-----	47	32	8	1
Chicago, Ill.-----	812	452	25	54	Colorado Springs, Colo.-----	21	15	1	1
Cincinnati, Ohio-----	173	106	3	6	Denver, Colo.-----	92	64	5	3
Cleveland, Ohio-----	203	116	3	15	Ogden, Utah-----	15	7	4	4
Columbus, Ohio-----	106	63	2	5	Phoenix, Ariz.-----	62	38	1	2
Dayton, Ohio-----	80	45	1	4	Pueblo, Colo.-----	21	13	-	1
Detroit, Mich.-----	334	202	15	18	Salt Lake City, Utah-----	63	33	-	3
Evansville, Ind.-----	36	22	3	5	Tucson, Ariz.-----	52	32	3	3
Flint, Mich.-----	65	37	2	4	PACIFIC:	1,538	888	30	76
Fort Wayne, Ind.-----	43	31	3	1	Berkeley, Calif.-----	17	11	1	-
Gary, Ind.-----	42	29	6	1	Fresno, Calif.-----	55	30	2	3
Grand Rapids, Mich.-----	50	33	5	1	Glendale, Calif.-----	20	11	-	-
Indianapolis, Ind.-----	138	78	3	3	Honolulu, Hawaii-----	46	22	-	5
Madison, Wis.-----	35	19	-	3	Long Beach, Calif.-----	66	39	2	4
Milwaukee, Wis.-----	126	75	3	9	Los Angeles, Calif.-----	480	286	6	18
Peoria, Ill.-----	37	22	1	4	Oakland, Calif.-----	85	43	1	9
Rockford, Ill.-----	38	22	-	6	Pasadena, Calif.-----	42	29	-	1
South Bend, Ind.-----	46	28	3	1	Portland, Oreg.-----	110	65	2	3
Toledo, Ohio-----	112	63	4	4	Sacramento, Calif.-----	62	39	2	5
Youngstown, Ohio-----	57	43	-	-	San Diego, Calif.-----	108	53	5	7
WEST NORTH CENTRAL:	890	538	41	58	San Francisco, Calif.-----	177	98	4	11
Des Moines, Iowa-----	53	34	4	2	San Jose, Calif.-----	38	25	-	2
Duluth, Minn.-----	26	17	1	1	Seattle, Wash.-----	143	74	2	5
Kansas City, Kans.-----	42	21	4	5	Spokane, Wash.-----	40	25	-	2
Kansas City, Mo.-----	138	88	6	7	Tacoma, Wash.-----	49	38	3	1
Lincoln, Nebr.-----	37	24	4	1	Total	12,430	7,165	533	642
Minneapolis, Minn.-----	109	66	2	10	Cumulative Totals				
Omaha, Nebr.-----	88	56	5	2	including reported corrections for previous weeks				
St. Louis, Mo.-----	241	140	8	22	All Causes, All Ages-----	238,210			
St. Paul, Minn.-----	108	67	4	5	All Causes, Age 65 and over-----	138,568			
Wichita, Kans.-----	48	25	3	3	Pneumonia and Influenza, All Ages-----	11,654			
					All Causes, Under 1 Year of Age-----	12,150			

*Estimate - based on average percent of divisional total.

EPIDEMIOLOGIC NOTES AND REPORTS

SALMONELLA ORANIENBURG - Arizona

(Continued from page 154)

Cultures were then made from both opened and unopened cans of frozen, unpasteurized egg products which were all processed by and obtained from the same company. *S. oranienburg* as well as two other serotypes were isolated as a result (Table 3). The isolation of multiple serotypes of salmonella from unpasteurized egg products was not unexpected, but no cases of illness could be traced which were related to the *S. thompson* and *S. kentucky* serotypes.

Table 3
Results of Bacteriologic Cultures from Foods

Item	Result*
Whole Eggs - Thawed (opened can)	<i>S. thompson</i>
Egg Whites - Thawed (opened can)	Negative
Egg Yolks - Thawed (opened can)	Negative
Whole Eggs - Frozen (unopened can)	Negative
Egg Whites - Frozen (unopened can)	<i>S. kentucky</i>
Egg Yolks - Frozen (unopened can)	<i>S. oranienburg</i>
Cooked Custard (4 samples)	Negative

* Cultured only for salmonellae.

A bacteriological survey was made of work areas in the central kitchen and included tables, meat slicers, serving trays, chopping boards and cooking utensils. All specimens were negative for salmonella.

The outbreak of *S. oranienburg* infection in both patients and employees coincided with a change in the method of preparation of a food consumed by all involved. Used as an ingredient in pudding and custard mixes, the unpasteurized frozen eggs contaminated with *S. oranienburg* would suggest this food item as the likely source of infection.

(Reported by Dr. Frederick J. Brady, Director, Pima County Health Department, Arizona; Dr. Philip Hotchkiss, Chief, Section of Acute Communicable Diseases, Arizona State Department of Health; Dr. George Spendlove, Director, Preventive Medical Services, Arizona State Department of Health; and an EIS Officer.)

INTERNATIONAL NOTES

VARIOLA MINOR - Britain

Following on the report published in the MMWR, Vol. 15, No. 17, the United Kingdom on May 5 has declared infected with smallpox the Stoke-on-Trent County Borough, the Wallsall County Borough and the Warley New Administrative District, all in Staffordshire, north of Birmingham, England. The total of cases of variola minor reported from Britain, as of May 9, is eight.

(Compiled from reports by the World Health Organization, Geneva.)

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 15,000, IS PUBLISHED AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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