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Morbidity and Mortality

Weekly Report

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

Prepared by the **COMMUNICABLE DISEASE CENTER** 634-5131

For release September 4, 1964 ATLANTA, GEORGIA 30333 Vol. 13, No. 35

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED AUGUST 29, 1964

ENCEPHALITIS

A total of 355 cases of primary encephalitis was reported for the week ended August 29. This brings to 1,813 the cumulative total thus far in 1964. A comparison of this year's sum with that of comparable periods for previous years is not possible because reporting of primary encephalitis, as a separate category, did not begin until January 1, 1964.

Of the cases reported during the past week, 321 were from Texas; these reports were based on clinical diag-

noses. The remainder were scattered throughout the country. In Texas, the cases were reported from 2 known epidemic areas (see MMWR Vol. 13, pp. 289-292). There were 293 cases in Harris County (Houston) and 28 in the South Plains area (centered around Plainview).

Further epidemiologic reports on these 2 epidemics, and outbreaks in Illinois and Colorado are included in this issue on pages 302-305.

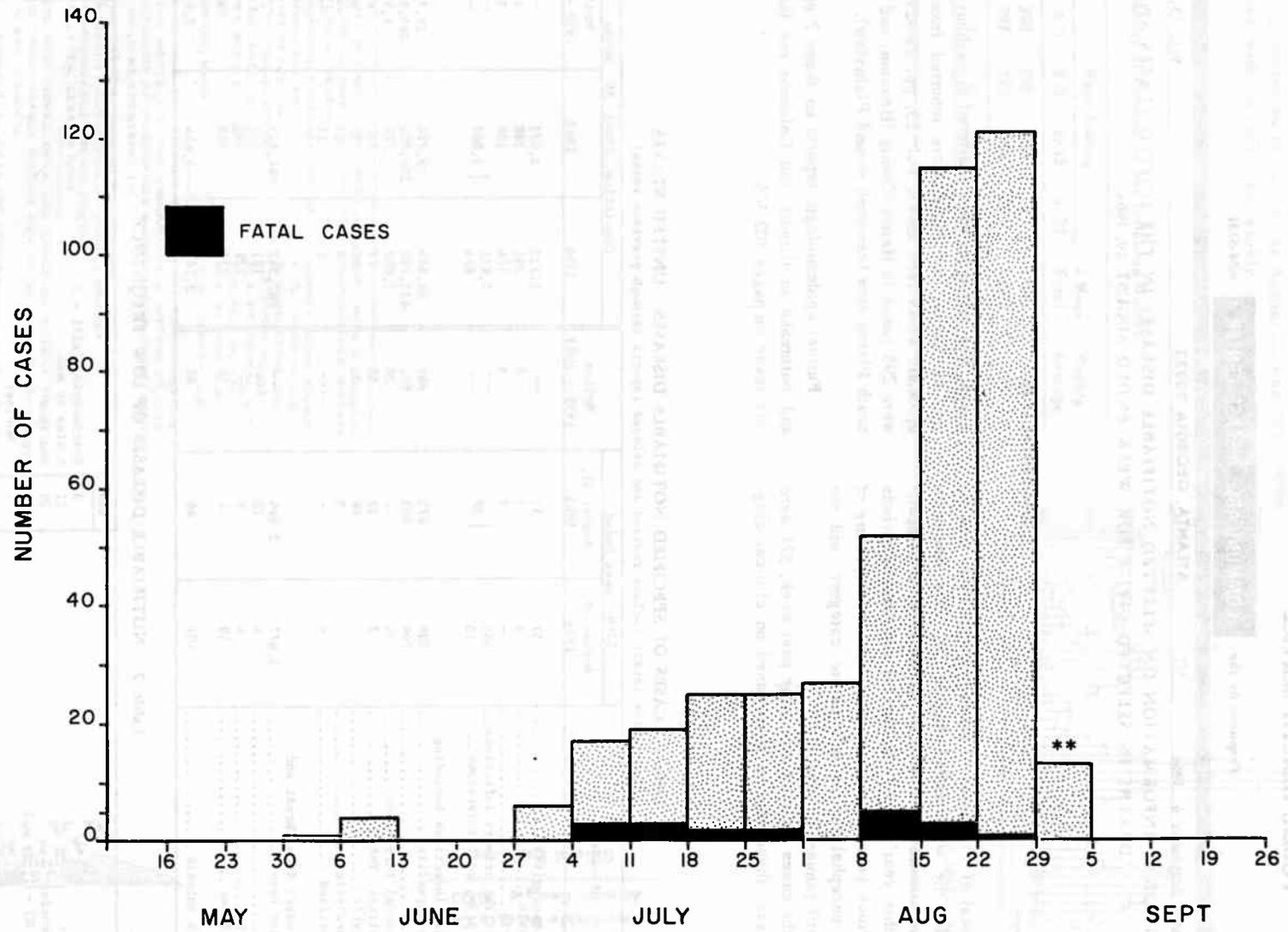
Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
 (Cumulative totals include revised and delayed reports through previous weeks)

Disease	35th Week Ended		Median 1959 - 1963	Cumulative, First 35 Weeks		
	August 29, 1964	August 31, 1963		1964	1963	Median 1959 - 1963
Aseptic meningitis	57	53	---	1,233	1,071	---
Brucellosis	6	5	8	291	248	413
Diphtheria	-	2	8	174	158	374
Encephalitis, primary infectious ..	355	39	---	1,813	1,066	---
Encephalitis, post-infectious	10		---	674		---
Hepatitis, infectious including serum hepatitis	536	675	689	26,544	29,714	29,714
Measles	704	663	871	433,292	357,005	385,628
Meningococcal infections	24	32	26	1,849	1,720	1,535
Poliomyelitis, Total	2	33	58	72	237	617
Paralytic	2	28	35	60	202	417
Nonparalytic	-	5	---	9	24	---
Unspecified	-	-	---	3	11	---
Streptococcal Sore Throat and Scarlet fever	3,877	2,994	---	287,363	244,813	---
Tetanus	4	10	---	181	167	---
Tularemia	6	9	---	229	195	---
Typhoid fever	10	17	18	273	318	510
Rabies in Animals	101	46	46	3,163	2,614	2,614

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Psittacosis: Calif - 2	30
Botulism:	11	Rabies in Man:	-
Leptospirosis:	29	Smallpox:	-
Malaria: NJ - 1, Ky - 1	59	Typhus-	
Plague:	-	Murine:	19
		Rky Mt. Spotted: Mo-1, NC-2, Kans-1, Va-1	162

REPORTED CASES OF SUSPECT ENCEPHALITIS* BY WEEK OF ONSET HARRIS COUNTY, TEXAS-1964



* 425 Cases with known date of onset.
 ** Through August 31

EPIDEMIOLOGIC REPORTS

ENCEPHALITIS

TEXAS

Harris County

Through August 31, a total of 445 cases of clinical encephalitis, including 19 deaths, was reported in Harris County (Houston), Texas. Serologic evidence of infection by the virus of St. Louis encephalitis is definite in 7 cases, and presumptive in 30 additional cases. Virus isolations have not been made from any human cases.

A histogram of the 425 cases with known dates of onset is shown (left); fatal cases with known dates of onset are so identified. The earliest case had onset during the week ended June 6 and 4 cases became ill the following week. Cases resumed with 6 during the week ended July 4 and gradually increased to 27 for the week ended August 8. Then an abrupt increase to 52 cases occurred in the week ended August 15, and continued with 115 and 121 cases for the weeks ended August 22 and 29, respectively.

The 19 deaths mentioned above are 3 fewer than the total previously reported (see MMWR Vol. 13, page 290). While 3 additional deaths have been reported, in 6 others previously included the cause of death has been changed from encephalitis. These 19 deaths constitute a 4 percent case fatality rate. With one exception, the deaths for which ages are known have occurred in persons over 50 years.

Fourteen of the deaths have been in males.

Early in the epidemic, the cases were chiefly from a single lower socioeconomic area of Houston; since, cases have occurred throughout Houston and a few elsewhere in Harris County.

Of the 419 cases, for which sex and race are known, 243 are in males, 176 in females.

Totals of 317 have occurred in whites and 102 in non-whites, as seen in the following table:

	M	F	Total
White	186	131	317
Non-White	57	45	102
	<u>243</u>	<u>176</u>	<u>419</u>

The overall attack rate is 35.8 per 100,000. The age specific attack rates are of similar magnitude for all age groups under 50. After 50 years, a progressive rise in incidence with advancing age is found. The age and sex distribution of the cases are presented in the table above.

Culex quinquefasciatus has been identified as the predominant mosquito in collections made in Harris County. No virus isolations have been obtained from mosquitoes as yet. Vector control operations, including larviciding and fogging, are being continued.

(Reported by Charles A. Pigford, M.D., Director of Public Health, Houston, Van C. Tipton, M.D., Director, Communicable Disease Division, Texas State Department of Health, and a team from the Communicable Disease Center.)

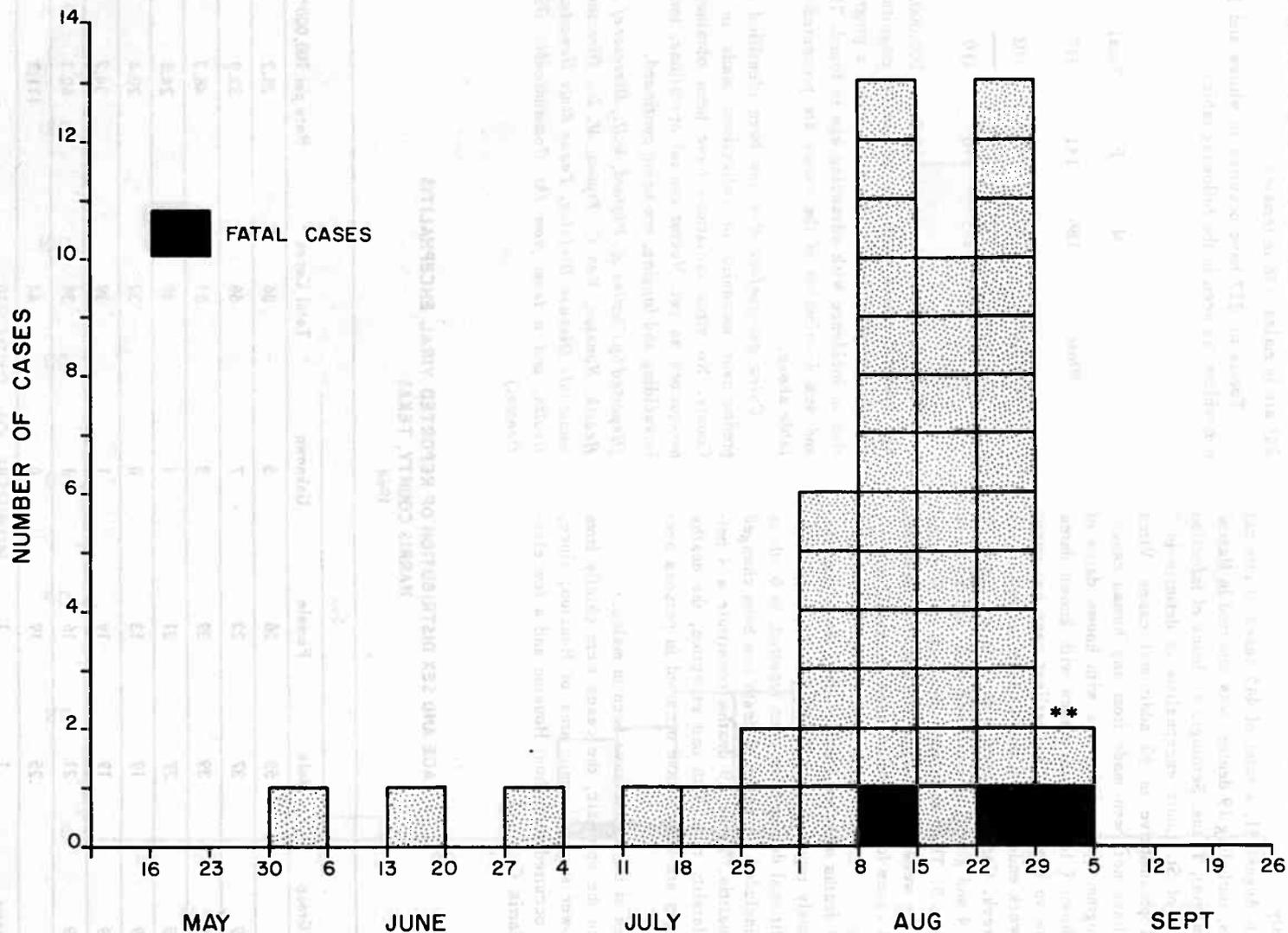
AGE AND SEX DISTRIBUTION OF REPORTED VIRAL ENCEPHALITIS
HARRIS COUNTY, TEXAS
1964

Age Group	Sex			Total Cases	Rate per 100,000*
	Male	Female	Unknown		
0-9	55	26	5	86	28.2
10-19	37	22	7	66	32.9
20-29	39	39	3	81	48.3
30-39	27	21	1	49	24.8
40-49	19	13	0	32	20.4
50-59	19	19	1	39	34.7
60-69	21	16	1	38	60.3
70+	25	19	0	44	111.3
Unknown	1	1	8	10	-
Total	243	176	26	445	35.8

*1960 Census

REPORTED CASES OF ENCEPHALITIS* BY WEEK OF ONSET

HALE COUNTY, TEXAS-1964



* 51 Cases with known date of onset.

** Through August 31

South Plains Area

A total of 51 cases with 3 deaths of clinical encephalitis in humans has been reported through August 31 in the South Plains area of Texas. Hale County reported 48 of these cases; the remainder were from surrounding counties (see MMWR Vol. 13, p. 291).

The histogram (left) depicts the cases in Hale County by week on onset of symptoms. The onset of the first case was May 21. Single cases occurred in 5 of the following 8 weeks. For the subsequent week ended August 1, 2 persons became ill then 6 the following week. The cases totalled 13, 10, and 13 for the weeks ended August 15, 22, and 29, respectively. The 3 fatalities, all infants, had onsets in August.

As seen from the table below, the over-all attack rate is 130 per 100,000, with the highest rate in the 0-4 age group.

Age Specific Attack Rates for Reported Viral Encephalitis
Hale County, Texas, 1964

Age Group	No. Cases	Attack Rate/100,000
0-4	17	361
5-9	7	156
10-19	4	58
20-29	8	167
30-39	7	154
40-59	5	67
60+	0	0
Total	48	130

The 3 cases which occurred outside of Hale County involved children in the 0-4 year age group.

Hemagglutination inhibition tests against Western and St. Louis Encephalitis viruses were performed on convalescent phase serum specimens from 10 patients in the South Plains area. Titers against Western Encephalitis ranging from 1:80 to 1:2560 were obtained in 7 cases. The serum of one reacted to St. Louis Encephalitis antigen in a titer of 1:80. Sera from the remaining 2 were negative to both agents.

About 80 percent of the more than 3,000 adult mosquitoes collected in the outbreak areas August 20-22 were *Culex tarsalis*, a known vector of Western Encephalitis.

The State laboratory at Austin has isolated the virus of Western Encephalitis from pools of mosquitoes collected in Hale County. Of 47 additional pools collected and tested by CDC Disease Ecology Section, Greeley, Colorado, 26 have yielded the same agent, with 2 other isolates yet unidentified. The mosquitoes were caught during the period July 27 through August 17.

(Reported by Dr. Van C. Tipton, Director, Division of Communicable Disease Control, Texas State Department of Health, and a team from the Communicable Disease Center)

Editor's Note: The age distribution of cases in the South Plains area is markedly different from that of the cases reported in Houston. One half the South Plains cases are in children under 10; no illnesses have occurred in patients aged 60 or older.

ILLINOIS

Eight cases of clinical encephalitis, including 2 deaths, were reported in Illinois. The dates of onset ranged from July 29 to this past week. The 2 fatalities occurred on August 11 and 30. All cases involved residents of one community in Hamilton County in south-central Illinois. All but one of the patients were over the age of 70; the oldest was 83 years, the youngest 39.

The patients symptoms have included headache, lethargy, coma, pronounced nuchal rigidity, and fevers to 104 F. Gastrointestinal symptoms have not been noted. The clinical illnesses were more severe than that seen in the 4 patients with encephalitis-like illness reported from the Pekin area (see MMWR Vol. 13, page 292).

Laboratory studies are in progress.

(Reported by Norman J. Rose, M.D., Chief, Bureau of Epidemiology, Illinois Department of Public Health, and a team from CDC)

COLORADO

Eleven cases of clinical encephalitis were reported from widely separate areas of Colorado; 4 were from Fort Collins, 4 from the Denver area, 2 from Durango and one from Greeley. All cases have occurred since August 10. Results of laboratory studies are not yet available.

The symptoms experienced were headache, lethargy, and coma. Some patients were noted to be hyperactive prior to becoming comatose; several victims experienced transient paralysis of the facial muscles and/or extremities. Two patients had ocular weakness and constricted pupils. Cerebral spinal fluid examination of 8 patients revealed the presence of an abnormal number of cells; in 6, these were predominantly lymphocytes.

The 4 patients in the Denver area resided near a fish hatchery, where the mosquito population has been unusually large. The patients were males, aged 9, 11, 18 and 24 years. Dates of onset ranged from August 15 through 27.

The patients in Fort Collins included a 59-year-old male and 3 females aged 8, 36 and 49. Onset dates were from August 10 through 20. Since August 5, there have been several horse deaths in Fort Collins; these were attributed clinically, to encephalitis.

The 2 patients in Durango were 3 and 5 year old boys who became ill August 21 and 25, respectively.

The Greeley case involved an 8 year old boy who became ill on August 27.

(Reported by Dr. C. S. Mollohan, Chief, Section of Epidemiology, Division of Preventive Medical Services, Colorado State Department of Health and a team from CDC).

RABIES – Michigan

Six persons are receiving prophylactic treatment for rabies as the result of bites from a confirmed rabid dog, which developed clinical signs of the illness after shipment from Haiti to Detroit.

On July 29 the dog, a miniature male pinscher, left Port-au-Prince, Haiti via a commercial airline. Upon arrival in Detroit on July 31 the dog was placed in a boarding kennel until its new master, the father-in-law of its owner in Haiti, claimed it on August 2.

Prior to leaving, the dog bit the kennel owner and an attendant. In its new home, the dog bit 2 children, aged 11 and 8, and 2 adult women; the dog was returned to the kennel later the same day.

On August 3 the dog appeared sick and was brought to a veterinary hospital. During a physical examination the dog stopped breathing, but was revived. The dog lapsed into coma again August 4 and died in the hospital. Post-mortem examination of the dog's head was positive for rabies.

Epidemiologic investigation indicated that the rabid dog was attacked and severely mauled by another dog in Haiti. The pinscher had been vaccinated against rabies

with modified live virus vaccine in Michigan on August 17, 1962.

All persons who were bitten by the dog are under treatment.

(Reported by C. P. Anderson, M.D., Health Commissioner, and Robert F. Willson, D.V.M., Director, Bureau of Food Sanitation Inspection, Detroit Health Department; and Donald Coohon, D.V.M., Public Health Veterinarian, and George H. Agate, M.D., Director, Division of Epidemiology, Michigan Department of Health.)

Editor's Note: The modified live virus vaccine used to immunize this animal has been shown to provide protection for a 3-year period. Vaccines prepared from inactivated rabies virus suspensions offer protection for one year.

This case of rabies in a vaccinated dog appears to be the result of an immunologic failure. Documented vaccination failures occur infrequently; they are most common in young animals which have been vaccinated but once.

CHEMICAL FOOD POISONING – New York

Eleven caddies experienced nausea, severe vomiting and severe abdominal cramps within 15 minutes after consuming a "soft drink" at a Nassau County golf club on April 3. No diarrhea, or systemic symptoms were reported. None required hospitalization; all recovered without known sequelae. The beverage was commercially prepared by the mixture of syrup with carbonated water in a vending machine.

Epidemiologic investigation revealed that a pipe carrying water into the machine was connected to the recirculating hot water heating system instead of the drinking water system. Although the wrong connection had been present for one year, there had been no incidents

reported previously. The day prior to this incident, 2 gallons of a rust and corrosive preventive were added to the hot water heating system; the product contained sodium bichromate, trisodium phosphate, and a 50 percent solution of sodium hydroxide.

Laboratory analysis revealed 440 ppm of hexavalent chromium in the water (pH 12.39) and 420 ppm in the carbonated water of the vending machine (pH 6.28).

(Reported by I.J. Tartakow, M.D., Deputy Commissioner, Nassau County Health Department, and Julia L. Freitag, M.D., Assistant Director, Office of Epidemiology, New York State Health Department.)

SALMONELLOSIS – Utah

Forty-four cases of gastroenteritis occurred following a college sorority alumnae luncheon held on April 11 in Salt Lake County, Utah. A total of 700 women consumed the meal. Eight of the 44 cases were culturally confirmed, and in all of these, *S. heidelberg* was the etiologic agent.

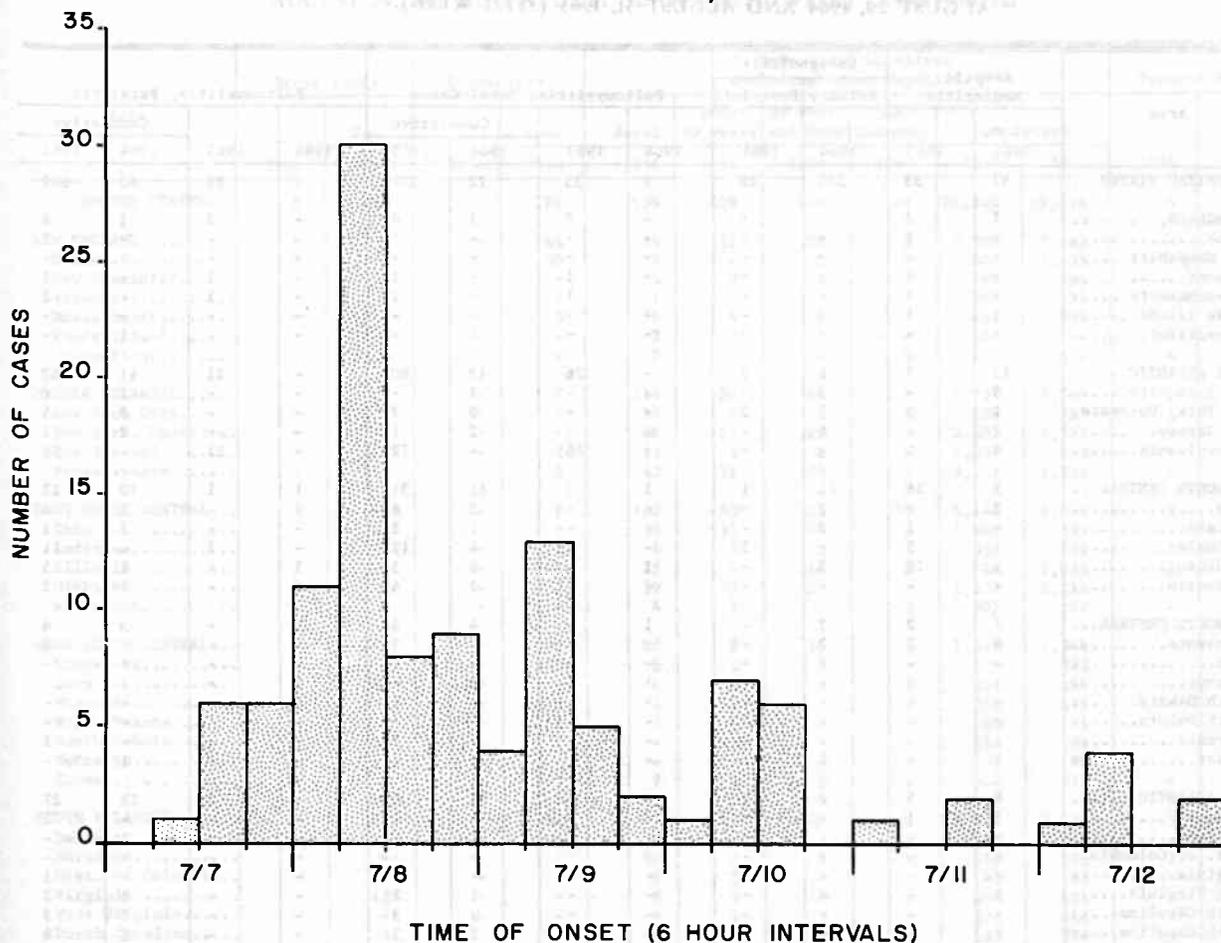
Epidemiologic investigation implication bulk, un-

pasteurized, frozen whole eggs used in the preparation of banana cream pie as the probable source of contamination.

(Reported by Dr. Elton Newman, Director of Division of Preventive Medicine and Medical Facilities, Utah State Health Department; and Dr. A. A. Jenkins, Director, Communicable Diseases Section, Utah State Health Department, and a team from CDC.)

OUTBREAK OF SALMONELLOSIS—WADSWORTH VA HOSPITAL

JULY 7 - 12, 1964



SALMONELLOSIS - California

An outbreak of gastroenteritis occurred in the James Wadsworth Veterans Administration Hospital, Los Angeles, during July. At least 121 patients and 7 kitchen employees in the intermediary care unit of the hospital were affected. The symptoms included fever, diarrhea, cramps, nausea, and vomiting. The epidemic curve (see accompanying graph) suggested a common source outbreak. Fifty-two of the ill patients had stool cultures positive for *S. heidelberg*.

Although bacteriologic confirmation of the suspected vehicle of infection could not be made, epidemiologic data suggested that tapioca pudding was responsible for the outbreak.

The ingredients used in making tapioca pudding consisted of milk, tapioca, cornstarch, sugar, egg yolks, and egg whites. The day before the pudding was prepared, shell eggs were cracked by hand and the yolks and whites placed in separate containers. These were refrigerated overnight. Between 10:00 and 11:00 a.m. the following morning the pudding was prepared. Milk, sugar, tapioca

and cornstarch were boiled and allowed to cool slightly. The egg yolks were then added and the mixture was brought to the "breaking point" (just before boiling). After allowing the mixture to cool, the refrigerated egg whites were added into the pudding. The pudding was not reheated and was allowed to stand for two to three hours before being served during the evening meal.

(Reported by Dr. Philip Condit, Director, Division of Communicable Diseases, California State Department of Health, Dr. William Davis, Director, James Wadsworth VA Hospital, Los Angeles, and a team from CDC).

Editor's Note: *S. heidelberg* accounts for about 8 percent of the total isolations of Salmonella from humans in the United States as reported to the Salmonella Surveillance Unit, CDC. The greatest number of *S. heidelberg* isolations are reported from California; that State accounts for 20 percent of the nation's total of this serotype.

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 29, 1964 AND AUGUST 31, 1963 (35TH WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
	1964	1963	Primary	Post-Inf.	1964	1963	Cumulative		1964	1963	Cumulative	
							1964	1963			1964	1963
UNITED STATES...	57	53	355	10	2	33	72	237	2	28	60	202
NEW ENGLAND.....	1	7	-	-	-	2	1	4	-	2	1	4
Maine.....	-	1	-	-	-	-	-	1	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	4	-	-	-	1	-	1	-	1	-	1
Massachusetts.....	-	1	-	-	-	1	-	2	-	1	-	2
Rhode Island.....	1	1	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	-	1	-
MIDDLE ATLANTIC.....	13	7	8	2	-	26	12	80	-	21	11	62
New York City.....	6	-	1	-	-	-	1	-	-	-	1	-
New York, Up-State.....	1	5	1	2	-	-	9	7	-	-	8	5
New Jersey.....	2	-	6	-	-	-	2	1	-	-	2	1
Pennsylvania.....	4	2	-	-	-	26	-	72	-	21	-	56
EAST NORTH CENTRAL...	5	16	11	1	1	1	11	31	1	1	10	23
Ohio.....	2	-	7	-	-	-	2	8	-	-	2	4
Indiana.....	-	1	2	-	-	-	2	2	-	-	2	1
Illinois.....	1	5	-	1	-	1	4	12	-	1	4	11
Michigan.....	2	10	2	-	1	-	2	5	1	-	1	5
Wisconsin.....	-	-	-	-	-	-	1	4	-	-	1	2
WEST NORTH CENTRAL...	7	2	3	-	1	-	4	5	1	-	3	4
Minnesota.....	6	2	2	-	-	-	-	3	-	-	-	3
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	1	-	3	-	1	-	2	-
North Dakota.....	-	-	-	-	-	-	-	1	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	1	-	-	-	1
Kansas.....	1	-	1	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	6	5	2	1	-	2	23	30	-	2	18	27
Delaware.....	1	1	-	-	-	-	-	1	-	-	-	1
Maryland.....	-	-	-	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	-	-	1	-	-	-	2	-	-	-	1
West Virginia.....	1	-	-	-	-	-	1	2	-	-	1	2
North Carolina.....	-	-	-	-	-	-	9	3	-	-	5	3
South Carolina.....	3	-	-	-	-	-	2	5	-	-	2	4
Georgia.....	-	-	-	-	-	2	1	10	-	2	1	9
Florida.....	1	4	2	-	-	-	9	7	-	-	8	7
EAST SOUTH CENTRAL...	5	-	1	-	-	2	5	45	-	2	4	43
Kentucky.....	5	-	-	-	-	-	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	2	3	7	-	2	2	7
Alabama.....	-	-	-	-	-	-	2	35	-	-	2	33
Mississippi.....	-	-	1	-	-	-	-	3	-	-	-	3
WEST SOUTH CENTRAL...	5	-	323	1	-	-	6	21	-	-	6	21
Arkansas.....	-	-	1	1	-	-	-	3	-	-	-	3
Louisiana.....	-	-	1	-	-	-	-	13	-	-	-	13
Oklahoma.....	-	-	-	-	-	-	2	-	-	-	2	-
Texas.....	5	-	321	-	-	-	4	5	-	-	4	5
MOUNTAIN.....	1	2	2	-	-	-	7	2	-	-	4	1
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	2	-	-	-	2	-	-	-	2	-
Colorado.....	-	2	-	-	-	-	1	-	-	-	1	-
New Mexico.....	-	-	-	-	-	-	3	1	-	-	-	-
Arizona.....	1	-	-	-	-	-	-	-	-	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	14	14	5	5	-	-	3	19	-	-	3	17
Washington.....	-	1	2	-	-	-	-	2	-	-	-	2
Oregon.....	-	-	-	1	-	-	1	2	-	-	1	1
California.....	14	13	3	4	-	-	2	15	-	-	2	14
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	4	-	-	-	4

Morbidity and Mortality Weekly Report

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 29, 1964 AND AUGUST 31, 1963 (35TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
	1964	Cum.	1964	Cum.	Total 1964	Under 20 years 1964	20 years and over 1964	Age Unknown 1964	Cumulative		1964	Cum.
		1964		1964					1964	1963		1964
UNITED STATES...	6	291	-	174	536	229	276	31	26,544	29,714	10	273
NEW ENGLAND.....	-	2	-	44	35	12	20	3	2,504	3,163	-	13
Maine.....	-	-	-	39	7	4	3	-	804	1,433	-	-
New Hampshire.....	-	-	-	-	5	3	2	-	189	284	-	-
Vermont.....	-	-	-	-	1	-	1	-	315	51	-	-
Massachusetts.....	-	2	-	5	10	4	6	-	537	905	-	6
Rhode Island.....	-	-	-	-	3	1	2	-	130	74	-	6
Connecticut.....	-	-	-	-	9	-	6	3	529	416	-	1
MIDDLE ATLANTIC.....	-	5	-	7	114	50	64	-	5,933	5,846	1	41
New York City.....	-	-	-	3	12	6	6	-	899	881	1	16
New York, Up-State.....	-	2	-	-	48	21	27	-	2,637	2,583	-	9
New Jersey.....	-	-	-	2	12	4	8	-	1,030	863	-	1
Pennsylvania.....	-	3	-	2	42	19	23	-	1,367	1,519	-	15
EAST NORTH CENTRAL...	3	41	-	8	102	40	52	10	4,144	4,854	3	64
Ohio.....	-	2	-	-	30	11	14	5	1,095	1,337	-	23
Indiana.....	-	1	-	1	4	1	3	-	357	435	1	13
Illinois.....	2	26	-	6	25	9	14	2	748	1,055	2	16
Michigan.....	1	6	-	1	39	18	21	-	1,637	1,810	-	9
Wisconsin.....	-	6	-	-	4	1	-	3	307	217	-	3
WEST NORTH CENTRAL...	-	127	-	26	25	8	16	1	1,428	1,344	-	26
Minnesota.....	-	7	-	11	8	3	5	-	155	203	-	3
Iowa.....	-	82	-	-	6	1	4	1	211	244	-	4
Missouri.....	-	9	-	1	2	2	-	-	352	499	-	9
North Dakota.....	-	2	-	2	2	-	2	-	55	44	-	2
South Dakota.....	-	14	-	1	-	-	-	-	116	89	-	1
Nebraska.....	-	11	-	4	-	-	-	-	35	94	-	3
Kansas.....	-	2	-	7	7	2	5	-	504	171	-	4
SOUTH ATLANTIC.....	-	27	-	40	49	23	24	2	2,500	3,031	3	59
Delaware.....	-	-	-	-	-	-	-	-	48	44	-	-
Maryland.....	-	-	-	-	16	7	9	-	476	376	1	4
Dist. of Columbia..	-	-	-	-	2	2	-	-	43	83	-	-
Virginia.....	-	13	-	-	9	4	4	1	390	624	-	10
West Virginia.....	-	-	-	-	4	1	3	-	374	468	-	-
North Carolina.....	-	3	-	-	6	3	3	-	433	774	1	17
South Carolina.....	-	-	-	7	-	-	-	-	92	127	1	11
Georgia.....	-	8	-	20	3	3	-	-	65	123	-	3
Florida.....	-	3	-	13	9	3	5	1	579	412	-	14
EAST SOUTH CENTRAL...	1	15	-	6	25	12	13	-	1,826	2,854	2	27
Kentucky.....	-	4	-	-	3	2	1	-	699	811	-	7
Tennessee.....	1	5	-	1	13	6	7	-	626	1,111	2	13
Alabama.....	-	4	-	3	7	4	3	-	329	451	-	5
Mississippi.....	-	2	-	2	2	-	2	-	172	481	-	2
WEST SOUTH CENTRAL...	1	31	-	27	47	30	17	-	2,027	2,099	-	20
Arkansas.....	-	5	-	-	5	2	3	-	200	241	-	10
Louisiana.....	-	4	-	5	11	7	4	-	472	415	-	3
Oklahoma.....	-	4	-	1	1	1	-	-	101	96	-	4
Texas.....	1	18	-	22	30	20	10	-	1,254	1,347	-	3
MOUNTAIN.....	-	25	-	2	26	11	2	13	1,616	1,925	-	7
Montana.....	-	-	-	-	1	1	-	-	141	241	-	-
Idaho.....	-	-	-	-	7	-	-	7	208	314	-	-
Wyoming.....	-	-	-	-	-	-	-	-	50	25	-	1
Colorado.....	-	-	-	-	3	-	1	2	436	398	-	-
New Mexico.....	-	1	-	1	5	5	-	-	232	226	-	2
Arizona.....	-	2	-	1	4	-	-	4	362	446	-	4
Utah.....	-	21	-	6	5	5	1	-	137	259	-	-
Nevada.....	-	1	-	-	-	-	-	-	50	16	-	-
PACIFIC.....	1	18	-	14	113	43	68	2	4,566	4,598	1	16
Washington.....	-	-	-	13	7	3	4	-	486	793	-	2
Oregon.....	-	2	-	-	18	6	10	2	505	564	-	-
California.....	1	16	-	1	79	30	49	-	3,339	3,094	1	14
Alaska.....	-	-	-	-	3	2	1	-	141	114	-	-
Hawaii.....	-	-	-	-	6	2	4	-	95	33	-	-
Puerto Rico	-	-	-	9	20	19	1	-	616	574	-	9

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 29, 1964 AND AUGUST 31, 1963 (35TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis		Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals			
		1964	1964	Cumulative		1964	1963	1964	Cum.	1964	Cum.	1964	Cum.
				1964	1963								
UNITED STATES...	704	24	1,849	1,720	3,877	2,994	4	181	6	229	101	3,163	
NEW ENGLAND.....	79	2	52	109	309	144	-	8	-	1	1	29	
Maine.....	31	-	5	17	55	6	-	-	-	-	1	25	
New Hampshire.....	-	-	1	4	-	-	-	-	-	-	-	1	
Vermont.....	5	-	1	4	2	-	-	-	-	-	-	2	
Massachusetts.....	30	1	21	51	17	7	-	8	-	1	-	1	
Rhode Island.....	-	-	8	10	4	6	-	-	-	-	-	-	
Connecticut.....	13	1	16	23	231	125	-	-	-	-	-	-	
MIDDLE ATLANTIC.....	49	1	251	240	97	89	2	19	-	-	2	88	
New York City.....	22	-	35	37	1	2	-	-	-	-	-	-	
New York, Up-State.	5	-	71	75	80	62	1	7	-	-	2	84	
New Jersey.....	15	1	85	33	1	10	1	6	-	-	-	-	
Pennsylvania.....	7	-	60	95	15	15	-	6	-	-	-	4	
EAST NORTH CENTRAL...	84	6	264	265	304	175	-	32	2	19	17	440	
Ohio.....	10	1	69	75	24	17	-	9	-	1	9	229	
Indiana.....	15	1	41	31	37	43	-	5	-	2	-	21	
Illinois.....	9	2	67	51	28	39	-	11	2	12	4	87	
Michigan.....	19	1	59	81	154	41	-	6	-	1	1	44	
Wisconsin.....	31	1	28	27	61	35	-	1	-	3	3	59	
WEST NORTH CENTRAL...	20	1	118	109	95	106	-	9	1	48	26	1,010	
Minnesota.....	1	-	27	22	5	4	-	1	-	2	11	310	
Iowa.....	8	-	6	6	16	16	-	3	-	1	6	363	
Missouri.....	2	-	55	33	12	4	-	3	-	24	2	153	
North Dakota.....	6	1	16	10	56	20	-	-	-	-	3	53	
South Dakota.....	3	-	-	5	6	1	-	1	1	13	-	74	
Nebraska.....	-	-	6	22	-	-	-	-	-	-	-	31	
Kansas.....	NN	-	8	11	-	61	-	1	-	8	4	26	
SOUTH ATLANTIC.....	71	3	394	318	540	258	2	53	-	21	11	432	
Delaware.....	5	-	6	2	8	7	-	-	-	-	-	-	
Maryland.....	2	1	26	49	78	5	-	3	-	-	-	-	
Dist. of Columbia..	-	-	12	6	-	2	-	1	-	1	-	-	
Virginia.....	7	-	46	72	89	47	1	6	-	4	6	228	
West Virginia.....	18	1	30	16	242	78	-	1	-	-	1	26	
North Carolina.....	1	1	69	55	9	4	-	13	-	5	-	5	
South Carolina.....	1	-	50	15	10	13	-	4	-	-	-	2	
Georgia.....	-	-	55	24	15	1	1	4	-	11	4	97	
Florida.....	37	-	100	79	89	101	-	21	-	-	-	74	
EAST SOUTH CENTRAL...	78	2	158	126	769	760	-	19	-	25	6	375	
Kentucky.....	11	1	52	27	35	4	-	5	-	1	1	51	
Tennessee.....	61	1	54	56	684	719	-	9	-	17	5	308	
Alabama.....	6	-	34	21	36	-	-	4	-	3	-	16	
Mississippi.....	-	-	18	22	14	37	-	1	-	4	-	-	
WEST SOUTH CENTRAL...	109	2	169	163	478	436	-	18	1	75	18	459	
Arkansas.....	18	-	20	11	-	1	-	6	-	41	1	113	
Louisiana.....	2	1	111	66	6	2	-	3	-	3	5	40	
Oklahoma.....	3	1	8	29	9	-	-	-	-	19	6	81	
Texas.....	86	-	30	57	463	433	-	9	1	12	6	225	
MOUNTAIN.....	75	1	66	59	757	720	-	5	2	37	8	113	
Montana.....	10	-	-	3	14	24	-	-	-	18	-	-	
Idaho.....	12	-	3	6	11	46	-	-	-	-	-	-	
Wyoming.....	-	-	5	4	19	8	-	2	2	7	-	-	
Colorado.....	10	-	11	16	279	233	-	-	-	-	-	8	
New Mexico.....	8	1	27	4	289	268	-	1	-	-	-	47	
Arizona.....	11	-	5	9	74	51	-	1	-	-	2	48	
Utah.....	23	-	7	14	71	90	-	1	-	12	-	1	
Nevada.....	1	-	8	3	-	-	-	-	-	-	6	9	
PACIFIC.....	139	6	377	331	528	306	-	18	-	3	12	217	
Washington.....	1	-	29	26	54	-	-	1	-	-	-	-	
Oregon.....	16	-	21	25	11	5	-	-	-	1	-	8	
California.....	101	6	308	260	410	278	-	16	-	2	12	209	
Alaska.....	4	-	7	12	21	-	-	-	-	-	-	-	
Hawaii.....	17	-	12	8	32	23	-	1	-	-	-	-	
Puerto Rico	73	-	29	7	7	4	2	52	-	-	1	18	

Morbidity and Mortality Weekly Report

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Table 4 (C). TOTAL DEATHS UNDER 1 YEAR OF AGE IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)^o

Area	For weeks ending				Area	For weeks ending			
	8/8	8/15	8/22	8/29		8/8	8/15	8/22	8/29
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass.....	11	10	8	14	Atlanta, Ga.....	10	20	10	11
Bridgeport, Conn.....	-	1	1	1	Baltimore, Md.....	14	31	23	16
Cambridge, Mass.....	-	1	1	2	Charlotte, N.C.....	4	4	5	3
Fall River, Mass.....	-	-	-	1	Jacksonville, Fla.....	5	6	2	4
Hartford, Conn.....	6	5	4	4	Miami, Fla.....	5	5	7	6
Lowell, Mass.....	1	-	-	5	Norfolk, Va.....	4	7	3	3
Lynn, Mass.....	-	-	2	-	Richmond, Va.....	7	6	4	7
New Bedford, Mass.....	2	2	2	-	Savannah, Ga.....	1	-	4	3
New Haven, Conn.....	-	1	1	3	St. Petersburg, Fla.....	3	-	3	1
Providence, R.I.....	2	4	3	7	Tampa, Fla.....	9	9	6	5
Somerville, Mass.....	-	1	-	-	Washington, D.C.....	19	14	12	22
Springfield, Mass.....	-	2	-	1	Wilmington, Del.....	3	3	1	2
Waterbury, Conn.....	1	1	2	2	EAST SOUTH CENTRAL:				
Worcester, Mass.....	5	3	-	2	Birmingham, Ala.....	5	5	9	3
MIDDLE ATLANTIC:					Chattanooga, Tenn.....	8	2	2	-
Albany, N.Y.....	4	4	4	4	Knoxville, Tenn.....	2	3	1	3
Allentown, Pa.....	-	1	1	1	Louisville, Ky.....	6	6	3	4
Buffalo, N.Y.....	4	14	7	9*	Memphis, Tenn.....	17	11	12	6
Camden, N.J.....	2	5	5	4	Mobile, Ala.....	5	5	7	3
Elizabeth, N.J.....	-	2	3	2*	Montgomery, Ala.....	1	1	4	3
Erie, Pa.....	1	3	3	3	Nashville, Tenn.....	4	6	7	3
Jersey City, N.J.....	1	6	2	8	WEST SOUTH CENTRAL:				
Newark, N.J.....	9	7	13	5	Austin, Tex.....	-	5	4	-
New York City, N.Y.....	70	81	79	81	Baton Rouge, La.....	2	3	-	2
Paterson, N.J.....	-	1	2	1	Corpus Christi, Tex.....	4	1	4	1
Philadelphia, Pa.....	34	21	27	39	Dallas, Tex.....	15	10	11	14
Pittsburgh, Pa.....	10	13	3	5	El Paso, Tex.....	7	2	2	5
Reading, Pa.....	-	2	2	-	Fort Worth, Tex.....	4	6	11	7
Rochester, N.Y.....	7	6	4	4	Houston, Tex.....	21	21	19	19
Schenectady, N.Y.....	1	1	1	-	Little Rock, Ark.....	3	1	7	5
Scranton, Pa.....	2	2	2	3	New Orleans, La.....	20	36	25	16
Syracuse, N.Y.....	6	4	4	6	Oklahoma City, Okla.....	10	2	4	7
Trenton, N.J.....	5	4	2	2	San Antonio, Tex.....	8	6	7	9
Utica, N.Y.....	-	2	1	2	Shreveport, La.....	4	8	3	3
Yonkers, N.Y.....	1	1	1	3	Tulsa, Okla.....	6	5	2	2
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.....	3	7	5	6	Albuquerque, N. Mex.....	3	3	7	4
Canton, Ohio.....	1	2	-	-	Colorado Springs, Colo...	2	2	3	1
Chicago, Ill.....	46	60	36	48	Denver, Colo.....	6	6	11	7
Cincinnati, Ohio.....	9	7	4	12	Ogden, Utah.....	2	6	-	1
Cleveland, Ohio.....	32	12	8	18	Phoenix, Ariz.....	6	8	3	7
Columbus, Ohio.....	7	10	4	17	Pueblo, Colo.....	1	1	1	1
Dayton, Ohio.....	1	9	5	5	Salt Lake City, Utah.....	6	2	5	3
Detroit, Mich.....	18	14	16	18	Tucson, Ariz.....	3	2	1	2
Evansville, Ind.....	4	-	4	1	PACIFIC:				
Flint, Mich.....	3	4	4	-	Berkeley, Calif.....	-	-	2	-
Fort Wayne, Ind.....	5	3	1	1	Fresno, Calif.....	3	2	1	4
Gary, Ind.....	3	3	3	4	Glendale, Calif.....	2	1	2	2
Grand Rapids, Mich.....	1	2	2	5	Honolulu, Hawaii.....	4	6	6	6
Indianapolis, Ind.....	15	14	10	10	Long Beach, Calif.....	3	2	2	6
Madison, Wis.....	4	-	5	1	Los Angeles, Calif.....	38	40	26	25
Milwaukee, Wis.....	4	7	10	8	Oakland, Calif.....	4	4	1	6
Peoria, Ill.....	1	2	4	-	Pasadena, Calif.....	-	2	-	1
Rockford, Ill.....	4	1	4	2*	Portland, Oreg.....	5	8	4	6
South Bend, Ind.....	1	1	-	5	Sacramento, Calif.....	3	4	6	5
Toledo, Ohio.....	7	2	7	1	San Diego, Calif.....	13	5	10	2
Youngstown, Ohio.....	-	-	7	3	San Francisco, Calif.....	6	7	9	15
WEST NORTH CENTRAL:					San Jose, Calif.....	1	3	3	3
Des Moines, Iowa.....	4	5	3	2	Seattle, Wash.....	9	7	9	5
Duluth, Minn.....	1	2	1	2	Spokane, Wash.....	2	4	1	3
Kansas City, Kans.....	4	4	5	3	Tacoma, Wash.....	2	3	1	2
Kansas City, Mo.....	6	10	5	10					
Lincoln, Nebr.....	4	-	1	2					
Minneapolis, Minn.....	7	2	8	9					
Omaha, Nebr.....	8	4	7	7					
St. Louis, Mo.....	15	11	8	19					
St. Paul, Minn.....	6	9	3	2					
Wichita, Kans.....	6	8	2	-					

^oCurrent Week Mortality for 108 Selected Cities

- 4(A) Total Mortality, all ages..... 10,917
- 4(B) Pneumonia-Influenza Deaths, all ages..... 328
- 4(C) Total Deaths under 1 Year of Age..... 724
- 4(D) Total Deaths, Persons 65 years and over..... 5,905

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

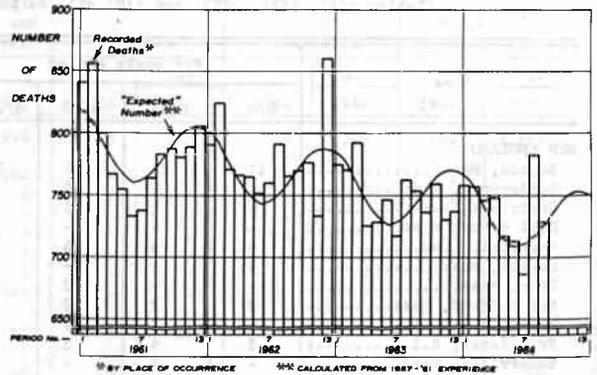
INFANT DEATHS IN 108 CITIES

The weekly average number of infant deaths in 108 cities for the four-week period ending August 29 was 728 as compared with an expected 727 weekly average.

INFANT DEATHS IN 108 CITIES

	Week Ending				4 Week Total	Weekly Average
	8/8	8/15	8/22	8/29		
Observed	739	777	671	724	2,911	728
Expected	723	726	728	731	2,908	727
Excess	16	51	-57	-7	3	1

DEATHS UNDER ONE YEAR OF AGE IN 108 U.S. CITIES
Average Number per Week by Four-Week Periods



(See table, page 311)

INTERNATIONAL NOTES - QUARANTINE MEASURES

Cholera - Japan

A non-imported fatal case of cholera El Tor, Ogawa Type, was reported on August 26 at Narashino, Chiba Prefecture. The patient was a 23-year-old plumber who was hospitalized August 23 and who died on the following day.

The patient stayed at a hotel where a healthy carrier was discovered among the boarders on August 26. Further epidemiological investigation is in progress.

This is the first non-imported case of cholera in Japan since 1946.

(Reported in *Weekly Epidemiological Record, World Health Organization, August 28, 1964*).

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 12,000 IS PUBLISHED BY 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 CASES, SUCH ACCOUNTS SHOULD BE ADDRESSED TO:

LAWRENCE K. ALTMAN, M.D., EDITOR
 MORBIDITY AND MORTALITY WEEKLY REPORT
 COMMUNICABLE DISEASE CENTER
 ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: --- DATA NOT AVAILABLE
 - QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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