



JAN 8 1968

NCDC LIBRARY

ATLANTA, DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

EPIDEMIOLOGIC NOTES AND REPORTS

MEASLES - Greer County, Oklahoma

An explosive outbreak of measles has been reported from Greer County, Okla. A total of 41 cases have been reported, all with onsets of illness during the week ending Dec. 30, 1967. These were the only cases reported from the entire state during December 1967.

Greer County (1960 population 8,877) is located in an agricultural and ranching area in the southwestern part of the state. Twenty-four of the 41 patients reside in Mangum (1960 population 3,950), the largest community in the county. Cases also occurred in the towns of Granite and Brinkman. The age distribution of the 24 patients in Mangum is shown in Table 1, page 442.

CONTENTS

Epidemiologic Notes and Reports	
Measles - Greer County, Oklahoma	441
Influenza - New York City Area	444
Current Trends	
Measles	442
Influenza	442
Surveillance Summary	
Salmonellosis - July, August, and September 1967	445
Index - Volume 16 - 1967	445

None of the Mangum patients resided in homes with telephones, a fair indication of the relatively low socioeconomic status of these cases. None is known to have received measles vaccine. The presence of fever, generalized rash, conjunctivitis, cough, and Koplick spots was considered diagnostic of measles.

(Continued on page 442)

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

DISEASE	52nd WEEK ENDED		MEDIAN 1962 - 1966	CUMULATIVE, FIRST 52 WEEKS		
	DECEMBER 30, 1967	DECEMBER 31, 1966		1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	24	25	25	2,974	2,940	2,135
Brucellosis	2	9	9	244	252	382
Diphtheria	1	17	5	205	212	293
Encephalitis, primary:						
Arthropod-borne & unspecified	10	62	---	1,548	2,177	---
Encephalitis, post-infectious	5	7	---	754	713	---
Hepatitis, serum	71	24	715	2,374	1,487	37,652
Hepatitis, infectious	638	691	---	38,672	32,579	---
Malaria	45	50	4	2,101	559	107
Measles (rubeola)	340	1,232	3,400	62,232	203,010	387,973
Meningococcal infections, total	51	53	53	2,165	3,388	2,813
Civilian	50	47	---	2,034	3,057	---
Military	1	6	---	131	331	---
Poliomyelitis, total	2	3	7	44	102	116
Paralytic	—	3	4	29	96	96
Rubella (German measles)	306	234	---	44,159	45,899	---
Streptococcal sore throat & scarlet fever	9,349	9,506	6,827	447,840	422,918	389,563
Tetanus	2	5	5	228	203	280
Tularemia	3	12	11	168	192	298
Typhoid fever	3	3	13	397	371	461
Typhus, tick-borne (Rky. Mt. spotted fever)	—	2	2	298	254	226
Rabies in animals	46	97	61	4,133	4,005	4,005

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Rabies in man:	2
Botulism:	5	Rubella, Congenital Syndrome:	9
Leptospirosis:	45	Trichinosis:	60
Plague:	3	Typhus, murine: Wash.-1	44
Psittacosis:	44	Polio, Unsp. Calif.-1	14

MEASLES – Greer County, Oklahoma (Continued from front page)

Table 1
Age Distribution of 24 Patients with Measles in Mangum, Okla.

Age (Yrs.)		Cases
< 1		1
1-5		12
6-10		10
> 10		1
Total	Total	24

The rapid recognition of an epidemic in an area with no recent measles has facilitated prompt control efforts. Vaccination clinics utilizing vaccine from the NCDC Epidemic Stockpile are scheduled in the county by the Oklahoma State Department of Health for January 4 and 5, 1968. (Reported by Dr. R. LeRoy Carpenter, Director, Division of Epidemiology, Oklahoma State Department of Health; and an EIS Officer.)

CURRENT TRENDS MEASLES

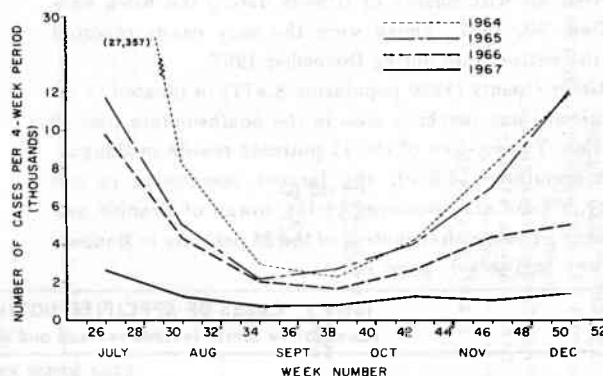
The preliminary 1967 total of 62,232 reported cases of measles is the lowest number for any year according to records dating back to 1912, when reporting of measles cases began on a national basis.

The 4-week total for December 3 through 30 is 1,493 cases (Figure 1), which is an increase of 393 over the preceding 4-week total, but is only 30 percent of the number of cases reported for the same period in 1966, and 12 percent of those reported for the same periods in 1964 and 1965.

During the past 4 weeks, 11 states reported no measles activity; 14 states and the District of Columbia reported at least one but fewer than 10 cases; and 10 states reported a total of 50 or more. Only two states (Illinois and Texas) reported more than 100 cases in this 4-week period.

(Reported by State Services Section, Epidemiology Program, NCDC.)

Figure 1
REPORTED CASES OF MEASLES IN THE UNITED STATES
4-WEEK TOTALS
JULY-DECEMBER, 1964-1967



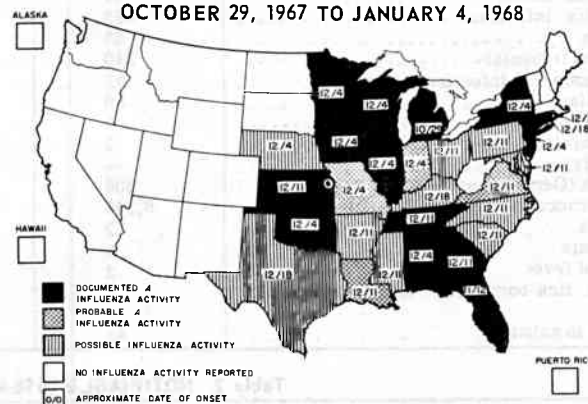
INFLUENZA

For the week ending December 30, 1967, reports from 29 states indicate that outbreaks of influenza-like illness are occurring (Figure 2). Most of the activity presently being reported began in the pre-holiday period.

Within the past week, four additional states have documented influenza A activity: Wisconsin, Tennessee, Minnesota, and Connecticut.

In Davidson County, Tenn., five paired sera taken from a single outbreak in an industry had diagnostic rises in influenza A2 antibody when tested by the hemagglutination-inhibition (HI) technique. Paired serologies taken from an outbreak in a school in southern Minnesota also showed diagnostic rises by HI tests for influenza A2 antibody. An influenza A2 virus has been grown from a specimen taken from a student at the University of Wisconsin. In addition, direct smears taken from the same student and from three other students were positive when tested by the experimental fluorescent antibody technique for A influenza. An A2 influenza virus has also been isolated by the Connecticut State Health Department from a specimen taken from Fairfield County near New York City.

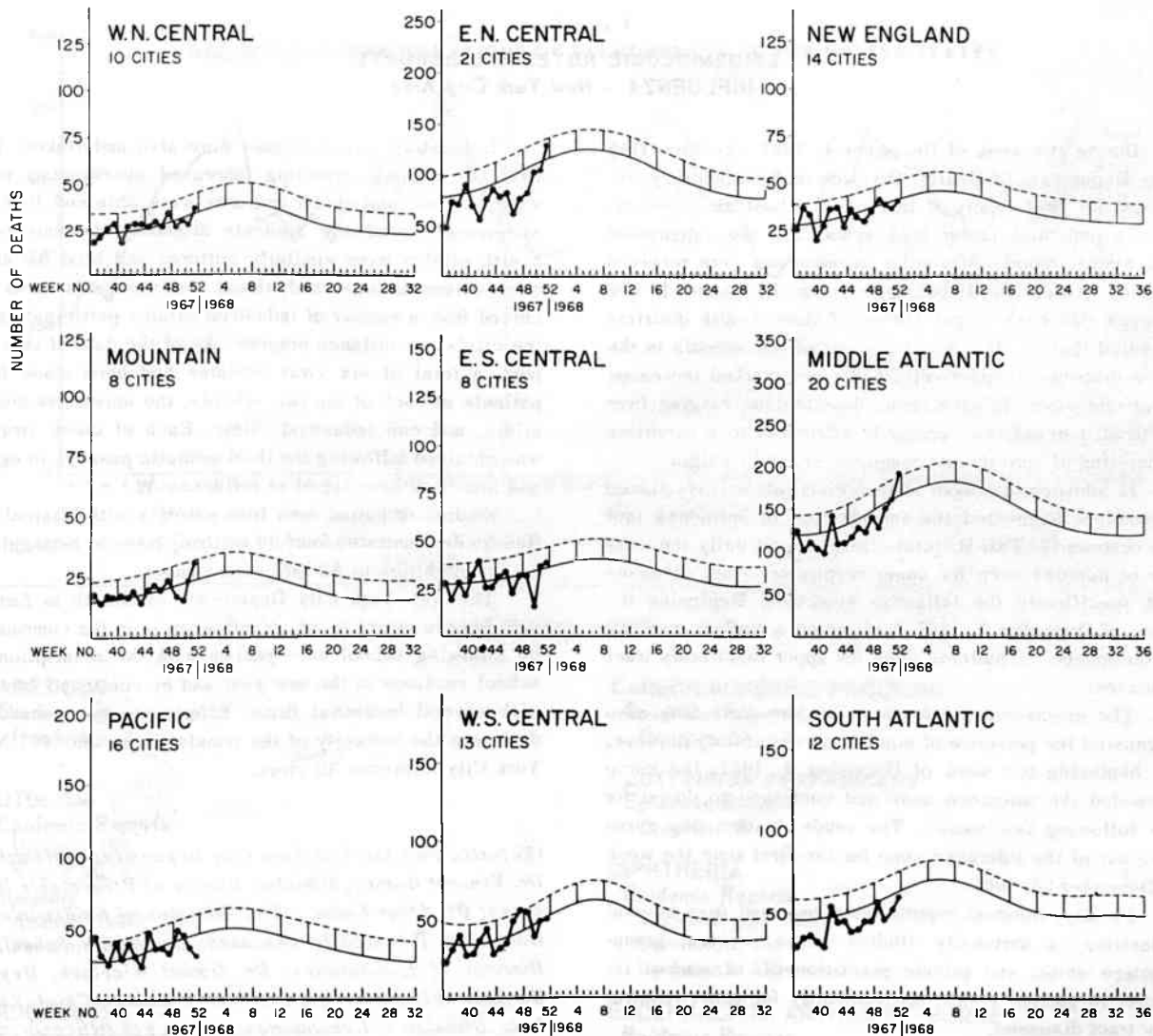
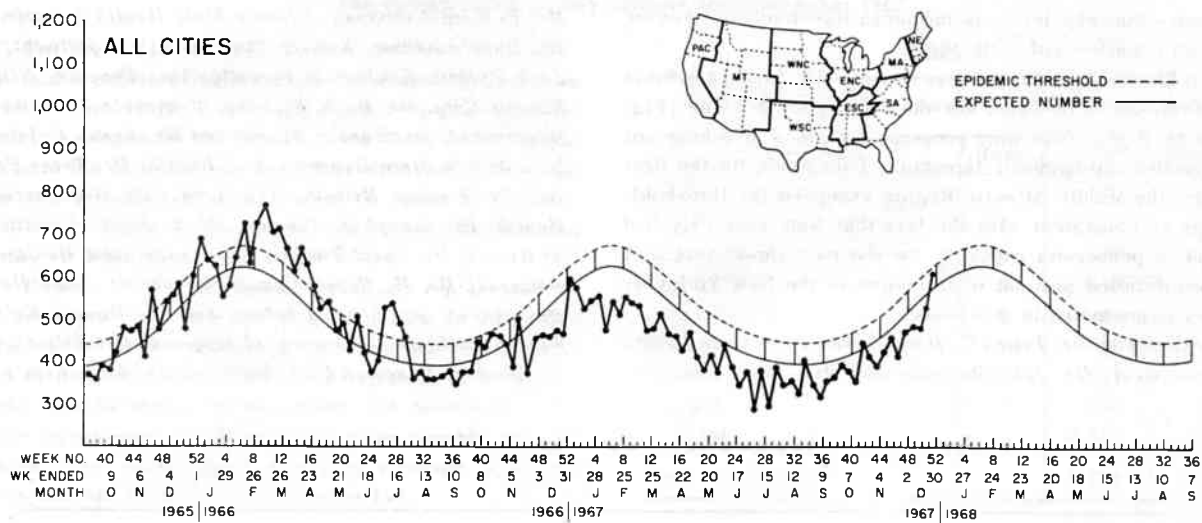
Figure 2
INCIDENCE OF INFLUENZA AND INFLUENZA-LIKE
DISEASE BY STATE AS REPORTED TO NCDC
OCTOBER 29, 1967 TO JANUARY 4, 1968



Illinois, New York City, Kansas, and Georgia have reported further isolations of A2 influenza virus. New Jersey has recently isolated 4 strains of A2 influenza virus.

(Text continued on page 444)

PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES



INFLUENZA - (Continued from page 442)

Beginning December 25, Rhode Island has received reports from physicians of influenza-like disease occurring in all counties within the State.

There has been no excess mortality from pneumonia and influenza observed for the country as a whole (Figure 3). Eight of the nine geographic regions also have not exceeded the epidemic threshold. This week, for the first time, the Middle Atlantic Region exceeded the threshold. This is consistent with the fact that New York City had excess pneumonia mortality for the past three weeks. A more detailed account of influenza in the New York City area is presented in this issue.

(Reported by Dr. James C. Hart, Connecticut State Health Department; Dr. John McCroan and Mrs. Julia Eubanks,

Georgia State Health Department; Dr. Norman Rose and Mr. Richard Norrissey, Illinois State Health Department; Dr. Donald Wilcox, Kansas State Health Department; Dr. Jack Poland, Ecological Investigations Program, NCDC, Kansas City; Dr. D. S. Fleming, Minnesota State Health Department; Dr. Ronald Altman and Dr. Martin Goldfield, New Jersey State Department of Health; Dr. Tibor Fodor and Dr. Stephen Millian, New York City Department of Health; Dr. Joseph E. Cannon, Rhode Island Department of Health; Dr. Cecil Tucker, Tennessee State Health Department; Dr. H. Grant Skinner, Wisconsin State Health Department; Dr. Stanley Inhorn and Mr. Donald Nelson, Wisconsin State Laboratory of Hygiene; Dr. Elliot Dick, Respiratory Research Unit, University of Wisconsin.)

EPIDEMIOLOGIC NOTES AND REPORTS
INFLUENZA - New York City Area

During the week of December 4, 1967, the New York City Department of Health, Division of Epidemiology, received its first report of increased school absenteeism, from a parochial junior high school. In the subsequent two weeks, reports of similar occurrences were received from 64 schools in all boroughs except Richmond. In one borough (Queens) a spot survey of three health districts revealed that 10, 12, and 35 percent of the schools in the three districts, respectively, had noted marked increases in absenteeism. In each case, absenteeism, ranging from 15 to 30 percent, was primarily attributed to a syndrome consisting of sore throat, cough, fever, and myalgia.

In addition to school absenteeism, other surveillance parameters suggested the introduction of influenza into the community. Two hospital clinics report daily the number of persons seen for upper respiratory tract diseases and specifically the influenza syndrome. Beginning the week of December 9, 1967, both noted a marked increase in the number of patients seen for upper respiratory tract diseases.

The pneumonia death curve for New York City also suggested the presence of significant respiratory disease, for beginning the week of December 9, 1967, the curve exceeded the tolerance zone and continued to do so for the following two weeks. The crude death index curve rose out of the tolerance zone for the first time the week of December 23, 1967.

Finally, informal reports were received from several industries, a university student clinic, several group-practice units, and private practitioners, of marked increase in patient visits, predominantly for upper respiratory tract diseases.

Laboratory investigations were also undertaken. The first two schools reporting increased absenteeism were visited, and throat cultures were obtained from 45 symptomatic students. Students attending the university health clinics were similarly cultured and bled for antibody determinations, and throat cultures were also received from a number of industrial clinics participating in the city's surveillance program. As of the date of this report, a total of six virus isolates had been made from patients at each of the two schools, the university health clinic, and one industrial clinic. Each of these viruses was obtained following the third amniotic passage in eggs, and four have been typed as influenza A2.

Studies of paired sera from patients with clinical influenza demonstrated fourfold antibody rises by hemagglutination inhibition to A2 influenza strains.

The New York City Department of Health is further defining the extent to which influenza is in the community by following school absenteeism with the resumption of school sessions in the new year and by continued contact with several industrial firms. Efforts are being made to delineate the immunity of the population to the 1967 New York City influenza A2 virus.

(Reported from the New York City Department of Health by Dr. Vincent Guinee, Director, Bureau of Preventable Diseases; Dr. Tibor Fodor, Chief, Division of Epidemiology, Bureau of Preventable Diseases; Dr. Morris Schaeffer, Director of Laboratories; Dr. Daniel Widelock, Deputy Director of Laboratories; Dr. Stephen Millian, Chief, Virus Unit, Division of Laboratories; and an EIS Officer.)

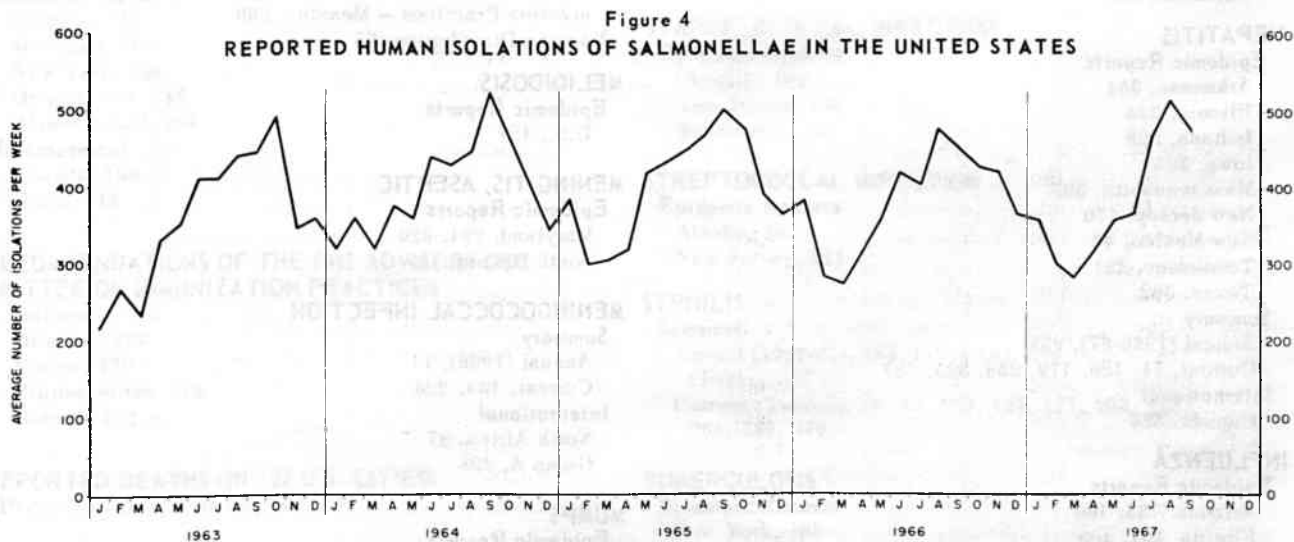
SURVEILLANCE SUMMARY
SALMONELLOSIS – July, August, and September 1967

For the months of July, August, and September 1967, the total numbers of salmonellae isolations reported from humans were 1,875, 2,566, and 1,908, respectively. The weekly averages for the 3 months (469, 513, and 477) demonstrate the expected seasonal pattern (Figure 4). The age and sex distributions were similar to those of previous months. In Table 2, the seven most frequently reported serotypes from human sources are listed.

Reports of 605 nonhuman isolations represented by 66 serotypes were received from 30 states in July. The total number of reported nonhuman isolations decreased to 358 in August; 53 serotypes were represented in the reports from 25 states. In September, 275 nonhuman isolations represented by 46 serotypes were reported from 21 states. The seven most commonly reported nonhuman serotypes are listed in Table 3, page 452.

Table 2
Summary of Seven Most Frequently Reported Serotypes
from Humans for July, August, and September 1967

Serotypes	Rank	Number	Percent
<i>S. typhi-murium</i> and <i>S. typhi-murium</i> var. <i>copenhagen</i>	1	1,665	26.2
<i>S. heidelberg</i>	2	574	9.0
<i>S. newport</i>	3	468	7.4
<i>S. enteritidis</i>	4	466	7.3
<i>S. infantis</i>	5	290	4.6
<i>S. saint-paul</i>	6	277	4.4
<i>S. typhi</i>	7	128	2.0
Total		3,868	60.9
Total all serotypes		6,349	100.0



(Continued on page 452)

INDEX – VOLUME 16 – 1967

BABESIOSIS

Epidemic Reports
 California, 8

BOTULISM

Epidemic Reports
 Illinois, 193
 New York, 419
 Summary
 Annual (1966), 26
 Preliminary (1967),

BRUCELLOSIS

Epidemic Reports
 Virginia, 293

CARBON MONOXIDE POISONING

Epidemic Reports
 Georgia, 33

CLOSTRIDIUM PERFRINGENS

Epidemic Reports
 Oregon, 209

DIPHTHERIA

Epidemic Reports
 Alabama, 345, 363
 California, 135
 Louisiana, 377

ENCEPHALITIS, ARTHROPOD-BORNE

Epidemic Reports
 New Jersey, 338

INDEX - VOLUME 16 - 1967 (Continued)

ENCEPHALITIS, POST-INFECTIOUS**Epidemic Reports**

Texas, 362

Summary

Current (Tables), 38, 171, 287, 317

GASTROENTERITIS**Epidemic Reports**

Minnesota, 267

Oregon, 336

Virginia, 246

Washington, 336

West Virginia, 346

International

Canada, 336

GENERAL

Postal Fee Waived for Health Officers, 327

GUILLAIN-BARRE SYNDROME**Epidemic Reports**

Arkansas, 378

HEPATITIS**Epidemic Reports**

Arkansas, 354

Illinois, 395

Indiana, 229

Iowa, 395

Massachusetts, 395

New Jersey, 170

New Mexico, 46

Tennessee, 201

Texas, 302

Summary

Annual (1966-67), 258

Current, 71, 126, 179, 258, 325, 387

International

Canada, 386

INFLUENZA**Epidemic Reports**

Arizona, 133, 160

Florida, 401, 409

Michigan, 401, 409

New York, 444

Summary

Annual (1966-67, U.S.), 162, 402

Current, 54, 63, 124, 417, 418, 429, 442

International

Czechoslovakia, 68

France, 68

Italy, 68

Poland, 68

Russia, 68

Yugoslavia, 68

LEUKEMIA**Epidemic Reports**

Georgia, 161

Kansas, 161

Missouri, 161

MALARIA**Epidemic Reports**

California, 119, 311

Connecticut, 421

Florida, 421

Kentucky, 239, 303

New York, 277, 421

Summary

Annual (1966), 202, 422

Current, 117, 247

MEASLES**Epidemic Reports**

Illinois, 62, 411

Kansas, 134

Louisiana, 151

Maine, 26

New Jersey, 25

Oklahoma, 303, 441

Summary

Current, 1, 10, 17, 25, 34, 45, 54, 61, 69, 77, 85, 109, 125, 143, 238, 265, 309, 333, 352, 369, 386, 402, 411, 423, 442

Recommendations of PHS Advisory Committee on Immunization Practices - Measles, 269

Vaccine Distribution, 95

MELIOIDOSIS**Epidemic Reports**

U.S., 127

MENINGITIS, ASEPTIC**Epidemic Reports**

Maryland, 294, 326

South Dakota, 169

MENINGOCOCCAL INFECTION**Summary**

Annual (1966), 11

Current, 135, 223

International

North Africa, 87

Group A, 228

MUMPS**Epidemic Reports**

Kentucky, 420

Michigan, 370

PARAINFLUENZA**International**

Trinidad, 403

PENTACHLOROPHENOL POISONING**Epidemic Reports**

Missouri, 334, 360

PERTUSSIS**Epidemic Reports**

Michigan, 379

Oklahoma, 318

PLAGUE**Epidemic Reports**

Arizona, 222

Colorado, 245, 420

International

Nepal, 393

INDEX - VOLUME 16 - 1967 (Continued)

POLIOMYELITIS**Epidemic Reports**

Indiana, 310, 371
Pennsylvania, 257

Summary

Annual (1966), 212
Current, 237

International

Nicaragua, 228, 319

PSITTACOSIS**Summary**

Annual (1966), 287

QUARANTINE MEASURES

68, 76, 92, 100, 124, 140, 148, 160, 168, 176, 192, 215,
264, 368, 384, 408, 416, 428

RABIES**Epidemic Reports**

Georgia, 150
Michigan, 268
New York, 258
Oregon, 119, 246
Rhode Island, 284

International

Canada, 150
Guam, 149

RECOMMENDATIONS OF THE PHS ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES

Influenza, 210
Measles, 269
Mumps, 430
Poliomyelitis, 278
Rabies, 152

REPORTED DEATHS (IN 122 U.S. CITIES)

Pneumonia-Influenza, 63, 163, 402

RUBELLA**Epidemic Reports**

Georgia, 195

Summary

Annual (1966), 248

SALMONELLOSIS**Epidemic Reports**

Connecticut, 141
Georgia, 9
Illinois, 53
Maine, 141
Michigan, 18
Nebraska, 318
New Jersey, 141
New Mexico, 70
New York, 141
Washington, 178

Summary

Current, 39, 142, 294, 445

International

Germany, 302

SHIGELLOSIS**Epidemic Reports**

Missouri, 276
Pennsylvania, 363
Vermont, 285

Summary

Current, 347

SMALLPOX**Epidemic Reports**

Hawaii, 101, 116

Summary

Annual (1966, U.S.), 231
Current, 102, 116

International

Czechoslovakia, 87
Germany, 93
Kuwait, 184, 192
London, 360, 376
West Germany, 84, 86

STAPHYLOCOCCAL INFECTION**Epidemic Reports**

Georgia, 292
New Jersey, 337
Washington, 32

STREPTOCOCCAL INFECTION**Epidemic Reports**

Alaska, 103
New Jersey, 221

SYPHILIS**Summary**

Annual (1966-67), 185, (1941-66), 186
(Table), 187
Current (Tables), 19, 47, 103, 127, 171, 203, 248,
268, 339, 379

TUBERCULOSIS**Epidemic Reports**

New York, 195

Summary

Annual (1966, U.S.), 436

TYPHOID FEVER**Epidemic Reports**

California, 177
Louisiana, 170
Oregon, 336
Washington, 162, 336

International

Canada, 332, 336

UNKNOWN ETIOLOGY

Febrile Illness, Illinois, 327

African Monkeys, Germany, 301, 316, 324, 332, 344,
353, 354, 361

VACCINIA VIRUS**Epidemic Reports**

Indiana, 385, 410
Louisiana, 236

SUPPLEMENT

Errata, 437

FOR WEEKS ENDED

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS		HEPATITIS					
					Primary including unsp. cases		Post- Infectious		Serum		Infectious	
	1967	1966			1967	1966	1967		1967	1966	1967	1966
UNITED STATES...	24	25	2	1	10	62	5		71	24	638	691
NEW ENGLAND.....	-	-	-	-	-	4	1		1	2	24	40
Maine.....	-	-	-	-	-	-	-		-	-	2	1
New Hampshire.....	-	-	-	-	-	1	-		-	-	-	7
Vermont.....	-	-	-	-	-	-	-		-	-	-	-
Massachusetts.....	-	-	-	-	-	1	-		-	-	9	14
Rhode Island.....	-	-	-	-	-	2	-		-	-	2	8
Connecticut.....	-	-	-	-	-	-	1		1	2	11	10
MIDDLE ATLANTIC.....	-	2	-	-	-	6	-		14	11	102	105
New York City.....	-	1	-	-	-	6	-		11	10	36	29
New York, up-State.....	-	-	-	-	-	-	-		-	1	17	34
New Jersey.....	-	-	-	-	-	-	-		3	-	23	13
Pennsylvania.....	-	1	-	-	-	-	-		-	-	26	29
EAST NORTH CENTRAL...	2	2	1	-	1	31	-		1	1	112	95
Ohio.....	-	-	-	-	-	29	-		-	1	32	18
Indiana.....	-	-	-	-	1	-	-		-	-	5	9
Illinois.....	-	1	-	-	-	-	-		1	-	42	21
Michigan.....	2	-	-	-	-	1	-		-	-	27	38
Wisconsin.....	-	1	1	-	-	1	-		-	-	6	9
WEST NORTH CENTRAL...	-	-	1	-	-	7	1		-	-	43	43
Minnesota.....	-	-	-	-	-	7	1		-	-	8	23
Iowa.....	-	-	1	-	-	-	-		-	-	6	8
Missouri.....	-	-	-	-	-	-	-		-	-	25	3
North Dakota.....	-	-	-	-	-	-	-		-	-	2	3
South Dakota.....	-	-	-	-	-	-	-		-	-	-	-
Nebraska.....	-	-	-	-	-	-	-		-	-	-	1
Kansas.....	-	-	-	-	-	-	-		-	-	2	5
SOUTH ATLANTIC.....	1	2	-	1	1	3	-		7	-	58	61
Delaware.....	-	-	-	-	-	-	-		-	-	4	9
Maryland.....	-	-	-	-	-	1	-		-	-	12	13
Dist. of Columbia..	-	-	-	-	-	-	-		-	-	-	1
Virginia.....	1	-	-	-	1	-	-		-	-	25	4
West Virginia.....	-	-	-	-	-	-	-		6	-	-	2
North Carolina.....	-	-	-	-	-	-	-		-	-	5	8
South Carolina.....	-	-	-	-	-	-	-		-	-	-	-
Georgia.....	-	-	-	-	-	-	-		-	-	6	15
Florida.....	-	2	-	1	-	2	-		1	-	6	9
EAST SOUTH CENTRAL...	3	1	-	-	2	3	1		-	1	28	30
Kentucky.....	-	-	-	-	-	-	-		-	-	10	6
Tennessee.....	1	1	-	-	-	-	1		-	-	12	15
Alabama.....	-	-	-	-	-	-	-		-	1	4	7
Mississippi.....	2	-	-	-	2	3	-		-	-	2	2
WEST SOUTH CENTRAL...	1	1	-	-	-	3	-		5	-	49	46
Arkansas.....	-	-	-	-	-	-	-		3	-	-	1
Louisiana.....	-	-	-	-	-	-	-		1	-	8	12
Oklahoma.....	-	-	-	-	-	1	-		-	-	9	3
Texas.....	1	1	-	-	-	2	-					

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

DECEMBER 30, 1967 AND DECEMBER 31, 1966 (52nd WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)		MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA	
	1967	1967	Cumulative		1967	Cumulative		Total	Paralytic		1967
			1967	1966		1967	1966	1967	1967	Cum. 1967	
UNITED STATES...	45	340	62,232	203,010	51	2,165	3,388	2	-	29	306
NEW ENGLAND.....	-	12	966	2,609	3	87	155	-	-	-	69
Maine.....	-	-	262	307	-	3	12	-	-	-	5
New Hampshire.....	-	-	78	80	-	4	11	-	-	-	-
Vermont.....	-	-	42	348	-	2	4	-	-	-	-
Massachusetts.....	-	7	416	844	1	39	62	-	-	-	8
Rhode Island.....	-	-	62	80	1	7	21	-	-	-	1
Connecticut.....	-	5	106	950	1	32	45	-	-	-	55
MIDDLE ATLANTIC.....	12	37	2,658	18,685	5	359	449	-	-	5	17
New York City.....	-	5	528	8,381	4	72	67	-	-	1	7
New York, Up-State.....	-	21	677	2,687	-	87	116	-	-	1	7
New Jersey.....	3	9	661	2,101	-	113	140	-	-	-	2
Pennsylvania.....	9	2	792	5,516	1	87	126	-	-	3	1
EAST NORTH CENTRAL...	1	88	6,373	70,625	7	297	535	-	-	6	68
Ohio.....	1	2	1,220	6,511	2	97	157	-	-	-	11
Indiana.....	-	5	678	5,834	1	32	89	-	-	3	3
Illinois.....	-	64	1,306	11,555	3	70	97	-	-	-	16
Michigan.....	-	9	1,048	15,221	-	76	135	-	-	3	20
Wisconsin.....	-	8	2,121	31,504	1	22	57	-	-	-	18
WEST NORTH CENTRAL...	2	15	3,018	9,397	-	101	183	1	-	3	21
Minnesota.....	1	-	139	1,691	-	22	45	-	-	-	3
Iowa.....	-	7	825	5,478	-	22	23	-	-	1	16
Missouri.....	-	-	340	539	-	22	66	-	-	-	-
North Dakota.....	-	5	896	1,439	-	3	11	-	-	-	1
South Dakota.....	-	-	58	40	-	7	6	-	-	-	-
Nebraska.....	-	3	663	210	-	15	13	-	-	-	1
Kansas.....	1	-	97	NN	-	10	19	1	-	2	-
SOUTH ATLANTIC.....	16	14	7,399	16,395	11	425	571	-	-	2	16
Delaware.....	-	1	52	268	-	8	7	-	-	-	-
Maryland.....	-	-	182	2,133	3	60	54	-	-	1	8
Dist. of Columbia..	-	-	26	394	3	19	16	-	-	-	-
Virginia.....	1	4	2,346	2,276	-	47	71	-	-	-	3
West Virginia.....	-	2	1,486	5,580	-	38	46	-	-	-	3
North Carolina.....	10	3	942	830	-	88	142	-	-	1	-
South Carolina.....	-	3	517	664	2	36	55	-	-	-	1
Georgia.....	-	-	42	244	-	60	79	-	-	-	-
Florida.....	5	1	1,806	4,006	3	69	101	-	-	-	1
EAST SOUTH CENTRAL...	-	22	5,540	20,837	11	179	289	-	-	2	10
Kentucky.....	-	4	1,437	4,877	5	53	97	-	-	-	1
Tennessee.....	-	18	2,068	12,754	3	77	98	-	-	-	9
Alabama.....	-	-	1,357	1,842	3	32	63	-	-	-	-
Mississippi.....	-	-	678	1,364	-	17	31	-	-	2	-
WEST SOUTH CENTRAL...	-	111	18,346	27,649	6	276	452	-	-	11	-
Arkansas.....	-	-	1,404	1,389	2	43	38	-	-	1	-
Louisiana.....	-	-	159	144	1	105	175	-	-	1	-
Oklahoma.....	-	41	3,400	676	-	18	24	-	-	1	-
Texas.....	-	70	13,383	25,440	3	110	215	-	-	8	-
MOUNTAIN.....	5	19	4,924	12,810	1	41	95	-	-	-	17
Montana.....	-	2	339	1,935	1	6	5	-	-	-	2
Idaho.....	-	4	413	1,715	-	3	5	-	-	-	-
Wyoming.....	-	1	207	236	-	1	6	-	-	-	-
Colorado.....	5	3	1,635	1,467	-	13	49	-	-	-	3
New Mexico.....	-	3	612	1,282	-	5	10	-	-	-	-
Arizona.....	-	6	1,066	5,386	-	6	13	-	-	-	7
Utah.....	-	-	383	715	-	4	2	-	-	-	-
Nevada.....	-	-	269	74	-	3	5	-	-	-	5
PACIFIC.....	9	22	13,008	24,003	7	400	659	1	-	-	88
Washington.....	-	8	5,689	5,342	1	39	61	-	-	-	53
Oregon.....	2	4	1,717	2,596	1	32	43	-	-	-	13
California.....	5	10	5,279	15,254	5	314	533	1	-	-	21
Alaska.....	-	-	141	646	-	11	18	-	-	-	1
Hawaii.....	2	-	182	165	-	4	4	-	-	-	-
Puerto Rico.....	-	2	2,245	3,588	-	15	20	-	-	-	-

Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

DECEMBER 30, 1967 AND DECEMBER 31, 1966 (52nd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES...	9,349	2	228	3	168	3	397	-	298	46	4,133
NEW ENGLAND.....	1,110	-	3	-	1	-	10	-	1	1	100
Maine.....	54	-	-	-	-	-	-	-	-	1	25
New Hampshire.....	7	-	-	-	-	-	-	-	-	-	48
Vermont.....	26	-	-	-	-	-	-	-	-	-	20
Massachusetts.....	189	-	1	-	1	-	6	-	1	-	5
Rhode Island.....	111	-	-	-	-	-	1	-	-	-	2
Connecticut.....	723	-	2	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC.....	232	-	16	-	1	1	41	-	35	-	102
New York City.....	13	-	9	-	-	-	21	-	-	-	-
New York, Up-State.....	151	-	1	-	1	-	11	-	9	-	86
New Jersey.....	NN	-	1	-	-	-	4	-	15	-	-
Pennsylvania.....	68	-	5	-	-	1	5	-	11	-	16
EAST NORTH CENTRAL...	788	1	28	-	15	-	43	-	22	6	384
Ohio.....	77	-	4	-	-	-	15	-	11	5	136
Indiana.....	150	-	3	-	2	-	11	-	1	1	87
Illinois.....	125	-	13	-	13	-	7	-	10	-	72
Michigan.....	291	1	7	-	-	-	8	-	-	-	25
Wisconsin.....	145	-	1	-	-	-	2	-	-	-	64
WEST NORTH CENTRAL...	388	-	17	-	23	-	21	-	4	15	978
Minnesota.....	4	-	6	-	-	-	2	-	1	6	199
Iowa.....	123	-	2	-	2	-	3	-	-	2	136
Missouri.....	25	-	7	-	9	-	10	-	1	3	175
North Dakota.....	66	-	-	-	-	-	-	-	-	1	171
South Dakota.....	24	-	1	-	2	-	-	-	-	-	116
Nebraska.....	146	-	-	-	-	-	4	-	2	1	72
Kansas.....	-	-	1	-	10	-	2	-	-	2	109
SOUTH ATLANTIC.....	802	-	48	-	12	-	63	-	120	4	489
Delaware.....	6	-	-	-	-	-	-	-	-	-	-
Maryland.....	256	-	-	-	-	-	2	-	21	-	4
Dist. of Columbia..	-	-	-	-	-	-	3	-	-	-	6
Virginia.....	210	-	11	-	2	-	9	-	28	2	211
West Virginia.....	176	-	1	-	2	-	2	-	1	1	63
North Carolina.....	17	-	8	-	-	-	4	-	47	-	3
South Carolina.....	57	-	1	-	2	-	10	-	5	-	2
Georgia.....	19	-	4	-	5	-	21	-	18	1	120
Florida.....	61	-	23	-	1	-	12	-	-	-	80
EAST SOUTH CENTRAL...	1,349	1	35	-	13	-	65	-	53	9	794
Kentucky.....	18	-	4	-	2	-	24	-	15	9	193
Tennessee.....	1,155	-	8	-	8	-	12	-	26	-	540
Alabama.....	128	1	13	-	1	-	12	-	12	-	51
Mississippi.....	48	-	10	-	2	-	17	-	-	-	10
WEST SOUTH CENTRAL...	1,035	-	55	3	86	-	43	-	43	7	923
Arkansas.....	3	-	6	-	48	-	13	-	14	-	115
Louisiana.....	-	-	5	-	8	-	17	-	2	2	72
Oklahoma.....	21	-	4	3	23	-	8	-	16	2	361
Texas.....	1,011	-	40	-	7	-	5	-	11	3	375
MOUNTAIN.....	1,971	-	3	-	11	-	23	-	9	1	116
Montana.....	35	-	-	-	2	-	2	-	-	-	-
Idaho.....	95	-	-	-	-	-	-	-	-	-	-
Wyoming.....	24	-	-	-	2	-	2	-	-	-	5
Colorado.....	1,355	-	2	-	1	-	12	-	9	-	10
New Mexico.....	231	-	1	-	-	-	3	-	-	-	34
Arizona.....	105	-	-	-	-	-	4	-	-	1	55
Utah.....	125	-	-	-	6	-	-	-	-	-	3
Nevada.....	1	-	-	-	-	-	-	-	-	-	9
PACIFIC.....	1,674	-	23	-	6	2	88	-	11	3	247
Washington.....	910	-	-	-	2	-	2	-	2	-	2
Oregon.....	143	-	1	-	1	-	3	-	3	-	4
California.....	601	-	18	-	3	2	80	-	6	3	241
Alaska.....	9	-	-	-	-	-	-	-	-	-	-
Hawaii.....	11	-	4	-	-	-	3	-	-	-	-
Puerto Rico.....	-	-	18	-	-	1	9	-	-	1	36

Morbidity and Mortality Weekly Report

451

Week No. Table 4. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED DECEMBER 30, 1967

52

(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:	808	516	42	30	SOUTH ATLANTIC:	1,148	612	61	56
Boston, Mass.-----	235	134	10	17	Atlanta, Ga.-----	90	45	3	5
Bridgeport, Conn.-----	40	25	3	1	Baltimore, Md.-----	233	114	9	6
Cambridge, Mass.-----	26	18	-	1	Charlotte, N. C.-----	49	23	2	4
Fall River, Mass.-----	40	27	2	-	Jacksonville, Fla.-----	81	49	5	3
Hartford, Conn.-----	64	48	2	3	Miami, Fla.-----	105	62	5	2
Lowell, Mass.-----	48	31	2	2	Norfolk, Va.-----	56	21	4	3
Lynn, Mass.-----	28	21	1	1	Richmond, Va.-----	86	39	5	6
New Bedford, Mass.-----	30	22	1	-	Savannah, Ga.-----	19	7	2	1
New Haven, Conn.-----	62	35	1	4	St. Petersburg, Fla.-----	91	70	7	2
Providence, R. I.-----	65	48	4	-	Tampa, Fla.-----	61	28	3	6
Somerville, Mass.-----	23	15	4	-	Washington, D. C.-----	248	137	12	17
Springfield, Mass.-----	55	33	7	1	Wilmington, Del.-----	29	17	4	1
Waterbury, Conn.-----	32	19	-	-					
Worcester, Mass.-----	60	40	5	-	EAST SOUTH CENTRAL:	531	280	39	25
					Birmingham, Ala.-----	91	40	1	7
MIDDLE ATLANTIC:	3,801	2,329	192	141	Chattanooga, Tenn.-----	30	15	6	4
Albany, N. Y.-----	59	40	1	4	Knoxville, Tenn.-----	39	26	1	1
Allentown, Pa.-----	33	21	3	-	Louisville, Ky.-----	95	55	12	3
Buffalo, N. Y.-----	151	81	4	11	Memphis, Tenn.-----	132	75	7	1
Camden, N. J.-----	54	35	2	-	Mobile, Ala.-----	31	15	5	1
Elizabeth, N. J.-----	40	23	2	1	Montgomery, Ala.-----	25	16	1	2
Erie, Pa.-----	46	24	4	-	Nashville, Tenn.-----	88	38	6	6
Jersey City, N. J.-----	67	40	4	5					
Newark, N. J.-----	99	55	8	5	WEST SOUTH CENTRAL:	1,077	567	51	48
New York City, N. Y.-----	2,113	1,326	113	73	Austin, Tex.-----	27	12	4	2
Paterson, N. J.-----	28	16	4	2	Baton Rouge, La.-----	10	10	-	-
Philadelphia, Pa.-----	438	243	11	12	Corpus Christi, Tex.-----	21	12	-	1
Pittsburgh, Pa.-----	200	120	4	8	Dallas, Tex.-----	150	73	11	10
Reading, Pa.-----	61	39	3	-	El Paso, Tex.-----	35	18	1	2
Rochester, N. Y.-----	125	92	14	6	Fort Worth, Tex.-----	86	50	3	5
Schenectady, N. Y.-----	38	20	1	1	Houston, Tex.-----	186	93	4	7
Scranton, Pa.-----	32	20	-	-	Little Rock, Ark.-----	35	20	4	3
Syracuse, N. Y.-----	71	41	-	6	New Orleans, La.-----	216	106	9	7
Trenton, N. J.-----	60	38	4	3	Oklahoma City, Okla.-----	73	43	2	5
Utica, N. Y.-----	31	23	8	-	San Antonio, Tex.-----	118	61	4	3
Yonkers, N. Y.-----	55	32	2	4	Shreveport, La.-----	49	26	6	1
					Tulsa, Okla.-----	71	43	3	2
EAST NORTH CENTRAL:	2,861	1,686	129	145					
Akron, Ohio-----	59	28	1	4	MOUNTAIN:	516	319	31	20
Canton, Ohio-----	45	28	3	2	Albuquerque, N. Mex.-----	55	35	9	4
Chicago, Ill.-----	954	545	52	46	Colorado Springs, Colo.-----	32	20	1	2
Cincinnati, Ohio-----	175	110	6	5	Denver, Colo.-----	115	72	6	4
Cleveland, Ohio-----	154	82	-	11	Ogden, Utah-----	24	15	2	1
Columbus, Ohio-----	142	82	5	12	Phoenix, Ariz.-----	149	84	9	7
Dayton, Ohio-----	88	53	3	6	Pueblo, Colo.-----	14	12	2	-
Detroit, Mich.-----	381	245	14	6	Salt Lake City, Utah-----	53	36	-	1
Evansville, Ind.-----	34	19	1	-	Tucson, Ariz.-----	74	45	2	1
Flint, Mich.-----	65	26	5	6					
Fort Wayne, Ind.-----	30	16	2	3	PACIFIC:	1,422	879	31	47
Gary, Ind.-----	49	29	9	3	Berkeley, Calif.-----	19	12	-	-
Grand Rapids, Mich.-----	59	44	9	3	Fresno, Calif.-----	60	40	1	4
Indianapolis, Ind.-----	157	94	1	12	Glendale, Calif.-----	31	24	-	-
Madison, Wis.-----	49	26	-	1	Honolulu, Hawaii-----	42	19	2	2
Milwaukee, Wis.-----	114	72	2	7	Long Beach, Calif.-----	104	71	2	4
Peoria, Ill.-----	44	22	2	3	Los Angeles, Calif.-----	425	244	10	13
Rockford, Ill.-----	43	30	2	1	Oakland, Calif.-----	75	42	2	1
South Bend, Ind.-----	41	25	6	2	Pasadena, Calif.-----	29	27	2	1
Toledo, Ohio-----	111	68	6	9	Portland, Oreg.-----	126	70	-	4
Youngstown, Ohio-----	67	42	-	3	Sacramento, Calif.-----	62	41	1	2
					San Diego, Calif.-----	97	56	3	4
WEST NORTH CENTRAL:	884	555	37	45	San Francisco, Calif.-----	162	100	4	3
Des Moines, Iowa-----	51	35	2	3	San Jose, Calif.-----	44	34	-	2
Duluth, Minn.-----	19	11	-	1	Seattle, Wash.-----	66	39	4	3
Kansas City, Kans.-----	42	33	4	3	Spokane, Wash.-----	50	35	-	3
Kansas City, Mo.-----	132	89	3	3	Tacoma, Wash.-----	30	25	-	1
Lincoln, Nebr.-----	33	24	3	3					
Minneapolis, Minn.-----	112	66	-	10	Total	13,048	7,743	613	557
Omaha, Nebr.-----	79	44	1	5	Cumulative Totals				
St. Louis, Mo.-----	279	167	14	7	including reported corrections for previous weeks				
St. Paul, Minn.-----	79	51	3	4	All Causes, All Ages -----	642,692			
Wichita, Kans.-----	58	35	7	6	All Causes, Age 65 and over-----	367,659			
					Pneumonia and Influenza, All Ages-----	22,720			
					All Causes, Under 1 Year of Age-----	32,363			

SALMONELLOSIS - (Continued from page 445)

Table 3
Summary of Seven Most Frequently Reported Serotypes
from Nonhumans for July, August, and September 1967

Serotypes	Rank	Number	Percent
<i>S. typhi-murium</i> and <i>S. typhi-murium</i> var. <i>copenhagen</i>	1	187	15.1
<i>S. heidelberg</i>	2	120	9.7
<i>S. tennessee</i>	3	95	7.7
<i>S. anatum</i>	4	70	5.7
<i>S. eimsbuettel</i>	5	42	3.4
<i>S. cubana</i>	6	34	2.7
<i>S. montevideo</i>	7	28	2.3
<i>S. senftenberg</i>	7	28	2.3
Total		604	48.9
Total all serotypes		1,238	100.0

(Reported by the Salmonellosis Unit, Bacterial Diseases Section, Epidemiology Program, NCDC.)

ERRATA, Vol. 16, No. 51

The third paragraph (first paragraph on page 430) reading:

"In Kansas," should have read

"In Kansas, hemagglutination inhibition tests on groups of acute and convalescent sera taken from a Kansas City high school show a significant rise in geometric mean titer against an influenza A2 antigen but not against an influenza B antigen. In addition, the Ecological Investigations Program, Kansas City, has isolated an A2 influenza virus from an outbreak in Franklin County."

The smears tested for fluorescent antibody in Louisiana were nasopharyngeal smears and not throat smears.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER

CHIEF, EPIDEMIOLOGY PROGRAM
ACTING CHIEF, STATISTICS SECTION

DAVID J. SENCER, M.D.
A.D. LANGMUIR, M.D.
IDA L. SHERMAN, M.S.

EDITOR, MMWR

MICHAEL B. GREGG, M.D.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL 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:

NATIONAL COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT

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

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL
NATIONAL
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333
OFFICIAL BUSINESS

Library
81
7 61
CDC

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF H. E. W.