

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

CURRENT TRENDS MEASLES - 1967

Figure 1, which has appeared in all except one issue of the 1967 MMWR, has been changed in this issue to permit an extension through May 1967 of the time period covered by this graph. To do so, it was necessary to omit the initial weeks (October 15 through December 3, 1966) of the epidemiologic year during which there was comparatively little difference in the epidemiologic curves. The ordinate (vertical) scale of the graph has been reduced by one-half.

CONTENTS	
Current Trends	
Measles - 1967	69
Epidemiologic Notes and Reports	
Salmonellosis - New Mexico	70
Surveillance Summary	
Hepatitis - Summer and Fall Quarters,	
Epidemiologic Year 1966-67	71
International Notes	
Quarantine Measures	76

The total of 2,390 cases* of measles reported for the 9th week of 1967 (ending March 4) represents a decrease of 75 cases when compared to the total of 2,465 reported

(Continued on page 70)

*Report from Alaska not included.



MEASLES - 1967 (Continued from front page)

for the preceding week and 6,274 cases less than the total of 8,664 cases reported for the comparable week of 1966. Four states reported 57 percent of the cases for the 9th week: Arkansas-195; California-242; Texas-755; and Washington-168. The number of reported cases by week for the period December 4 through March 4 is shown in Figure 1 (page 69).

(Reported by the Childhood Viral Diseases Section, Epidemiology Program, NCDC.)

EPIDEMIOLOGIC NOTES AND REPORTS SALMONELLOSIS - New Mexico

Between October 30, 1966, and January 20, 1967, Salmonella thompson has been isolated from 97 individuals residing in Rio Arriba, Santa Fe, Sandoval, and Bernalillo Counties in New Mexico. The epidemic curve reached its peak during the week ending January 7, 1967.

Of the 97 individuals with positive stool specimens, 41 have been interviewed. Beef jerky (carne seca) has been incriminated in 38 of these 41 interviews. The beef jerky processed at one local company in Albuquerque has been specifically named as the brand eaten by 21 persons; in nine other instances, stores have been named which sell the same brand as well as other brands. Two of the 41 persons interviewed are believed to have no relation to the current epidemic.

Salmonella thompson has also been isolated from numerous samples of beef jerky. All positive samples of the jerky were processed in Bernalillo County, with the exception of one from out of state.

Recommendations have been made by the New Mexico Department of Health to the food industries involved regarding methods of safe and sanitary production of beef jerky. Further investigations are in progress.

(Reported by Dr. Daniel E. Johnson, Chief, Public Health Laboratory, and Dr. Thomas H. Tomlinson, Jr., Associate Director of Human Factors, New Mexico Department of Public Health; and two EIS Officers.)

Editorial Note:

Beef jerky is thinly sliced beef which has been treated with preservatives and thoroughly heated and dried. The meat is first sliced so it will have a maximum thickness of 1/8-inch at the end of the drying process. After the slices are uniformly salted, they are placed in single layers on metal racks in a drying chamber or room which should have a minimum temperature of 165°F for the first hour and a minimum of 145°F for an additional 24 hours. Final packing and labeling is often done in the same work area in which the meat was prepared for drying. The product needs to be carefully protected against contamination during the entire process since jerky is ordinarily eaten without further processing or cooking.

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)										
	9th WEEK	ENDED	MEDIAN	CUMULA	CUMULATIVE, FIRST 9 WEEKS					
DISEASE	MARCH 4, 1967	MARCH 5, 1966	1962 - 1966	1967	1966	MEDIAN 1962 - 1966				
Aseptic meningitis Brucellosis Diphtheria	22 4 1	29 4 4	27 4 4	236 30 25	258 34 25	231 51 35				
Arthropod-borne & unspecified Encephalitis, post-infectious Hepatitis, serum	21 19 37 823	19 20 21 784	955	192 92 318 6.966	209 138 186 6,452	8,431				
Malaria	53 2,390 61 48	5 8,664 125	1 12,273 79	319 17,587 524	48 57,056 826	18 71,382 514				
Military Poliomyelitis, total Paralytic	13 1 1	110 15 		484 40 1 1	130 2 1	 9 5				
Rubella (German measles) Streptococcal sore throat & scarlet fever Tetanus	1,209 14,662 1	1,489 13,089 1	12,202 4	7,400 106,654 26	9,771 97,449 18	90,321 32				
Tularemia . Typhoid fever . Typhus, tick-borne (Rky. Mt. spotted fever) .	$ \begin{array}{c} 1\\ 6\\ - \end{array} $	2 8 -	2 8 -	19 47 6	40 44 8	43 59 3				
Rabies in animals	100	73	73	690	646	636				

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.	¹⁰ Construction of the second se	Cum.
Anthrax Botulism	Ξ	Rabies in man Rubella. Congenital Syndrome	
Leptospirosis: La2 Plague	8	Trichinosis: Wash1 Typhus, murine	14 4
Psittacosis	7		

SURVEILLANCE SUMMARY HEPATITIS — Summer and Fall Quarters Epidemiologic Year 1966-67*

During the summer quarter (July 3 - October 1) of the current epidemiologic year 1966-67, 7,298 cases of viral hepatitis were reported in the United States. During the fall quarter (October 2 - January 1) 9,150 cases were reported. These represent rates of 3.7 and 4.6 cases per 100,000 population for the two quarters, respectively. Tables 1 and 2 show the numbers of cases and rates, respectively, for these two quarters in relation to those for the last 8 epidemiologic years.

Figure 2 presents the number of reported cases per 100,000 population by 4-week periods from July 1952 through December 1966. The overall pattern since 1960-61 has been one of continuing decline in incidence; the downward trend, however, has been less marked since 1964-65.

Since the peak summer quarter incidence in 1961-62 (7.8), successive summer quarters through 1966-67 reflect a continuing decline in rates. Although a similar pattern has generally been observed for corresponding years in the fall quarters, the rate noted in the fall of 1966-67 (4.6) was greater than that of the fall for the previous year(4.2).

Subsequent to the peak year (1953-54) of the first epidemic cycle, the downward trend in rates during successive fall quarters was reversed in 1958-59. The fall quarter rate rose to 2.3 from the rate of 1.6 noted during the 1957-58 fall quarter; this reversal took place 2 years before the peak of the second cycle of 1960-61. If the same pattern were to continue as in the 2 years prior to the peak year 1960-61, one might expect an increasing incidence over the next 2 years with another peak occurring in the epidemiologic year 1968-69.

(Reported by the Hepatitis Unit, Epidemiology Program, NCDC.)

*Hepatitis morbidity data are summarized in terms of an "Epidemiologic year," which runs from the 27th week of each year through the 26th week of the succeeding year.



 Table 1

 Number of Reported Cases of Viral Hepatitis Per Quarter

 (Values include revised and delayed weekly reports

 through current week)

Epidemi- ologic year	Summer Quarter	ner Fall Winter ter Quarter Quarter		Spring Quarter	Total Year
1956-57	3,469	4,115	5,019	3,938	16,541
1957-58	2,925	2,782	4,414	3,876	13,997
1958-59	3,262	4,243*	7,088	4,864	19,457
1959-60	4,630	6,434	9,793	9,917	30,774
1960-61	8,940	12,403	23,026	19,898	64,267
1961-62	14,229	15,637	18,028	13,626	61,520
1962-63	10,273	11,383	13,805	9,861	45,322
1963-64	8,969	10,256	12,118	9,330	40,673
1964-65	7,590	9,350*	10,311	7,876	35,127
1965-66	7,361	8,100	9,208	7,744	32,413
1966-67	7,298	9,150			a , se tar

Table 2 Reported Cases of Viral Hepatitis Per 100,000 Population Per Quarter

Population as of	f January	1, middle a	of epidemiol	logic year)
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Epidemi- ologic Year	Summer Quarter	Fall Quarter	Winter Quarter	Spring Quarter	Total Year
1956-57	2.1	2.4	2.9	2.3	9.7
1957-58	1.7	1.6	2.5	2.2	8.0
1958-59	1.9	2.3	4.0	2.7	10.9
1959-60	2.6	3.6	5.4	5.5	17.1
1960-61	5.0	6.9	12.6	10.9	35.4
1961-62	7.8	8.5	9.7	7.3	33.3
1962-63	5.5	6.1	7.3	5.2	24.1
1963-64	4.8	5.4	6.3	4.9	21.4
1964-65	4.0	4.5	5.3	4.1	17.9
1965-66	3.8	4.2	4.8	4.1	16.9
1966-67	3.7	4.6	and the second		

*14-week periods

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MARCH 4, 1967 AND MARCH 5, 1966 (9TH WEEK)

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Indiana	-	2	-	-	-	-	-	-		28	17	
Illinois		2				1	2		1	44	115	
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MEASLES ERADICATION 2067



INTRODUCTION

The development of a live, attenuated measles virus vaccine by Dr. John F. Enders and colleagues and the vaccine's licensing in 1963 heralded the eventual elimination of measles as a disease of childhood in the United States. On November 1, 1966, Dr. William H. Stewart, Surgeon General of the Public Health Service, U.S. Department of Health, Education, and Welfare, challenged medical, public health, and other groups responsible for health care to eradicate measles in 1967. Dr. Stewart emphasized four major targets in the development of plans for achieving success:

- 1. Routine immunization of all children when they are one year old. Nearly all health departments have measles vaccine available for those who cannot afford it.
- 2. Immunization of any susceptible children found in kindergartens, first, and second grades.
- 3. The development of improved reporting systems for finding out when and where measles cases occur, so more effective control measures can be designed.
- 4. The stopping of epidemics where not enough children have been vaccinated by launching crash immunization programs. Epidemics of measles need no longer be tolerated in the United States.

The Morbidity and Mortality Weekly Report has enlarged its regular coverage of measles to present an up-to-date appraisal of what is clearly an unprecedented period in preventive medicine. Never before has the eradication of an important communicable disease been readily within reach. The enthusiastic and collaborative efforts of the medical, public health, and allied professions have set this effort into unique perspective among the cooperative health activities for which the United States has become recognized.

The present *MMWR* supplement has been prepared to keep readers informed generally of the status of measles eradication and its broader implications. The *MMWR* as an archive is not a suitable vehicle for describing much of the evolution of the measles eradication campaign. Supplements similar to the present one will be included intermittently in the *MMWR* during the coming months, and will be directed toward broader interpretations and coverage of the total measles eradication effort. The *MMWR* will, of course, continue to emphasize measles surveillance in its regular reviews.

The seasonal characteristic of measles, with a peak in reported cases occurring in the late winter of each year, is shown in the chart below. From 1954 through 1963, the decade before measles vaccine became available, the number of reported cases ranged annually from a low of nearly 400,000 to a high of more than 700,000. Since 1963, when measles vaccine was licensed, there has been a gradual but constant decline in total cases and a tendency for the curve to flatten.

The number of cases reported in recent weeks reflects the lowest incidence since measles data first began to be compiled early in the century. Through 1966, an estimated 20 million doses of measles vaccine have been distributed in the United States. Most of these have been used by private practitioners in infants and small children. An estimated additional 8 to 10 million susceptible children must be immunized in 1967 if eradication is to be achieved.





The two U.S. maps show the geographical extent of reported cases of measles in early 1967, when the eradication efforts were beginning, compared with the same time period in 1966. Arbitrary levels of reported numbers of cases rather than rates are presented for simplicity. It is evident that the disease is still occurring widely, although the relative amount is noted to be lower.

Twenty-one States show a lower level of reported measles cases in 1967, twenty are unchanged, and only nine States have increased to a higher level. A more detailed analysis of reporting data indicates that epidemics in a few particular counties of the State often account for the bulk of its reported cases.

MEASLES ERADICATION PLANNING

The basic responsibility for measles eradication resides with the medical and public health professions and official agencies which contribute to the Nation's health. Surgeon General William H. Stewart charged the National Communicable Disease Center to coordinate the efforts of the Public Health Service and to assist in formulating plans to support programs developed generally by organized medicine and public health.

Already many of the Nation's professional groups have endorsed the concept of measles eradication in 1967 and offered their active support. Statements from some of them are abstracted in the present supplement. A large number of voluntary health, civic, and fraternal organizations have also given their enthusiastic encouragement and assistance in developing community measles eradication activities.

Federal support for measles eradication beyond the coordinative efforts of the NCDC has been developed. The Immunization Program, NCDC, which administers the Vaccination Assistance Act of 1962, offers direct assistance through its established project grants to 42 States and 62 local or urban areas. Under its authority, measles vaccine is provided for preschool children as part of a comprehensive immunization program. A stockpile of vaccine is maintained at the Center to be used by States in helping to control measles epidemics. This often becomes the initial phase of broader community measles immunization programs. The Children's Bureau of the Welfare Administration is encouraging use of its grant funds for purchase of measles vaccine for children not eligible under the Vaccination Assistance Act. The Office of Education is urging schools to participate in the planning and implementation of measles eradication programs as part of total community efforts. The Surgeon Generals of the Armed Forces have implemented comprehensive measles immunization programs among dependents of military personnel.

Promotional efforts for measles eradication are largely being developed as part of State and local programs. In addition, a national awareness of measles eradication is indicated by the coverage in medical and public health journals and in a great variety of news and health related publications.

For example, *Peanuts*, the popular comic strip drawn by Charles Schulz, dealt with measles immunization on six successive days. These strips appeared early in 1967, examples of which are reprinted by permission of United Feature Syndicate, Inc. To Dr. Mary Jean Trudeau, Immunization Project Leader of the California State Department of Public Health goes credit for stimulating the cartoonist's interest in measles immunization.



SELECTED ENDORSEMENTS

The American Medical Association's Council on Environmental and Public Health has called attention to the seriousness of measles and has urged immediate concerted action: "The great cyclic waves of the disease can be expected to continue among children unless better use is made of available vaccines . . .

"Now is the time for concerted action, and physicians should take the initiative before another winter-spring season of greatest incidence arrives. Each medical society ought to alert its members. Each can work with the health groups, the governmental agencies, and the communities in its area to review the situation, to plan cooperatively and act to immunize all the susceptibles against measles.

"Many but not all of the susceptibles can be reached within the private practice of medicine. For the rest of the children, however, some direct community immunization program is usually necessary. Otherwise susceptible children will be missed and will remain a problem in future years."

The Report of the Committee on the Control of Infectious Diseases, American Academy of **Pediatrics** is in agreement: "Measles can be the next infectious disease to be eliminated from the United States . . . To eliminate it, we need only take the last step in the long chain of events which leads eventually to the control of an infectious disease, i.e., public acceptance and use of vaccines now available. All physicians and public health personnel are urged to immunize all susceptible children."

The Public Health Service Advisory Committee on Immunization Practices "strongly urged all health authorities to take further effective action toward the goal of measles eradication from the United States during 1967."

A similar statement by the Executive Committee of the Conference of State and Territorial Epidemiologists concluded that "it is possible that measles can be eradicated in the United States. To accomplish this purpose it is incumbent on state health departments, state medical societies, local health departments and local medical societies to exert leadership in measles surveillance and immunization activities."

The American Public Health Association says "Among our children today, measles is a major cause of morbidity, an important cause of death and a not infrequent cause of brain damage. We now have the technical resources available which can, if they are appropriately applied, quickly eliminate this disease from our population.

The Surgeon General of the Public Health Service has announced the initiation of a program of measles eradication.

The American Public Health Association applauds this action and urges all official health agencies to move rapidly and vigorously in the implementation of this program in collaboration with their colleagues in the health professions and with voluntary health agencies."

In a recent resolution, The American School Health Association asserted:

"Measles is a serious disease with many complications. In the past measles has killed hundreds of children each year and left many others with handicapping conditions. Now there is no longer any reason for any child to die or suffer disability from measles. An effective vaccine is available and once a child is immunized, lasting protection is provided. Medical and health authorities are now agreed that measles can be eradicated within the foreseeable future if all concerned unite in a concerted attack on this disease. Accordingly the American School Health Association pledges its support to the measles eradication programs currently being sponsored by the American Medical Association and the Public Health Service of the United States Department of Health, Education, and Welfare. Also, the Association urges each of its members - physicians, nurses, health educators and others to join with their local medical and health agencies in a vigorous campaign to eradicate measles throughout the United States."

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MARCH 4, 1967 AND MARCH 5, 1966 (9th WEEK) - CONTINUED

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and the second s	1967	1967	1967	1966	1967	1967	1966	1967	1967	Cum. 1967	1967
UNITED STATES	53	2,390	17,587	57,056	61	524	826	1	1	1	1,209
NEW ENGLAND	6	5	135	720	1	17	45	- 64	- 1	1 A. J	78
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Vermont	-	-	21	153	-	-	1		-		1
Massachusette	6	4	66	292		6	19			1	16
Rhode Toland	-	- C 1	20	36		-	2		_		10
Connecticut	-	1	20	136	1	10	13	-	-	-	46
MIDDLE ATLANTIC	5	75	613	8,127	11	70	97	1	1	1	42
New York City	-	10	98	4,018	1	12	16	1	1	~ -1	24
New York, Up-State.	1	21	154	877	2	20	19		- 1.	- - 13	17
New Jersey	2	22	147	793	7	29	34	·	-	- -	-
Pennsylvania	2	22	214	2,439	1	9	28	-	-	-	1
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Indiana	2	26	180	1,400	2	17	16				16
Illinois	1	20	109	5,021		5	10		-		20
Michigan	1	44	324	3,461		12	35				71
Wisconsin	-	68	565	11,850	1	5	12	_	_	_	95
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Missouri	3		15	139	1	8	16	1 - 15			2
North Dakota	-	34	298	443	1 <u>-</u>	-	3		-	- -	2
South Dakota	-	1	16	2	1	4	1		- 1		1. Conduct
Nebraska	-	3	272	35	1	5	3		- 1,		5.1 L 0.45
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Delawaro	14	192	1,040	4,410	15	104	145				2
Maryland		0	37	799	1	14	17	4			46
Dist. of Columbia	-	2	6	235	<u> </u>	14	1/	1.1.2.1.1			40
Virginia	5	43	470	355	-	11	15	- 081			5
West Virginia	-	39	412	1.871	_	11	5		-		12
North Carolina	4	44	446	51	7	25	30		-		-
South Carolina	1	6	30	212	2	7	25	3 <u>-</u>	-	-	1
Georgia	4		9	93		11	21		- 1- i - i	-	
Florida	-	48	420	745	3	21	30	-	-	-	27
EAST SOUTH CENTRAL	j	101	2 207	6 020	7	57	76	1.4		st proditive et	112
Kentuchan		191	2,397	0,030	2	16	10		-		115
Tennessoo	- 2	63	732	2,505	2	26	18	d Degl			24
Alabama		52	386	5,009	1	20	10				24
Mississippi	_	28	433	143	1	6	3	_	_	_	-
			100	115	-	, Č		1.		1	
WEST SOUTH CENTRAL	1	1,006	5,799	4,538	10	87	127	-	- 1	-	41
Arkansas	-	195	1,100	102	3	4	7	-			3
Louisiana	1	2	30	40	5	36	46	-		· · · · · · · · · · · · · · · · · · ·	
Oklahoma	-	54	915	58	1	4	4		-	1. - . 1.	1.000
lexas	-	755	3,754	4,338	1	43	70	-	-	-	38
MOUNTAIN	4	156	1 117	2 502		12	22		·		0/.
Montana	0	136	1,117	2,303		15	32				04
Idaho	<u></u>	10	10/	408		1	2				0
Wyoming		19	120	45	1.12		1				
Colorado	6	30	226	233	1.	6	19	6 - Co	_	_	64
New Mexico	-	33	176	64	-	3	4	1. D		-	-
Arizona	1	52	226	1,393		ĩ	4	1 2001			8
Utah	*** · · ·	16	61	92		ĩ	1.1.1.2.1		- 114	-	4
Nevada	-	- (1 -)	123	4		1	1		-	-	-
PACTETO					1.013	1.000		1 243			2012/2014
Wash.	15	479	3,399	4,048	13	102	134	S		1.1.1	476
Oraș	1	168	1,761	1,074	1	7	9		-	· · · · ·	65
Calie		54	448	320	2	10	5		1. T. • 1973	11-07-022	46
Alasha	8	242	1,086	2,614	10	83	110		1.0	1.00	355
Hawaii		15	59	10	and a barrier	2	8	belle and a second		and the last	10
Puese	6	15	45	30		-	2	-	-		10
Serto Rico	-	67	503	589	2	7	1				1

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

MARCH 4, 1967 AND MARCH 5, 1966 (9th WEEK) - CONTINUED

ADEA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	ANUS	TULAI	REMIA	TYPI	TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
AREA	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	
UNITED STATES	14,662	1	26	1	19	6	47		6	100	690	
NEW ENGLAND	1,939	1 X-14	1. A. 4.	huge i			1.13		10 - - 102	4	9	
Maine	98	5-5-5 - - 5	신 영 구 (종	0.000-0.0	1	S		(* 16) - (* 1	- R. 74		2	
New Hampshire	1		1 di - 2 di	이 이상 유지 것	-		- 15 C	- 19 - 19 - 19	the second second	1	2	
Vermont	98	ine end d	이 같은 가슴 가슴?	24.00-01-0		-	1. J C J.		-	3	5	
Massachusetts	345	1 m - 1 1	1.1.1	1					이상 두 있는 것			
Rhode Island	118	1 m - Ch.)	1986 - 64	10 - 14 - 010	-			6	1	H	-	
Connecticut	1,279		10 - 10	. T.	-	-	-	-	-		-	
MIDDLE ATLANTIC	941	10 - X - X	3	5		1	8	-	- 1	1	16	
New York City	28	14.4	2		i . (= adj	1	6	- CC- 1	1 1 - 3 - 4	21 - 29 , 1 4 - 24	-	
New York, Up-State.	725		이 안 가 있는 것	1 1 - 1	-		1	0°° -	나는 동생이	1	10	
New Jersey	NN	1 (B) - 42 H	-02	10.0 - 1	1 - Cal	-11 - 11 14	-	-		이 것을 물었다.		
Pennsylvania	188		1	-	1-04	- -	1		1.)	-	6	
EAST NORTH CENTRAL	1,507	Pr 4 - 2 -	1	1	3	1	3	· 전날학문	1 - A.	10	50	
Ohio	227	101 - 1973	12 (19)	전 말을 다	·		1	1 .		1 /	22	
Indiana	298		1.1 • <u>1.6</u>	1	1	-	(10 A	-	10 - H (10)	3	13	
Illinois	264	1.1	1		2				1 1944	3	8	
Michigan	404		⊾ોનેલ નેવેલ	3. C. C. S. S.	· · · · ·	1 - S-	1	-			1	
Wisconsin	314	0.0		1.1.5.1	1-13	1	1		1 - 1 - 1	3	6	
WEST NORTH CENTRAL	797	- 1	1	-	6	2	2	61 <u>12</u> (0)	소리가 물통을	10	171	
Minnesota	12		1		E-in his	all - const		a and the second	Store-good	2	41	
Iowa	350			213 - 21	1-1.1	2	2		1. - 1 1	1	17	
Missouri	41			- 신 - 그로	3	1		-	C	1	39	
North Dakota	289	-1 -3 D.					-	-	1 1.1	4	35	
South Dakota	21			-Al - 1				-	 - 5112 	2	20	
Nebraska	5	-	1.1.1		Sec. 3. 17			-	1 . - 1	승규는 승규는 것을 물었다.	7	
Kansas	79	2-5-0	6.10-01	武法・正義	3		199 - 6	in the second	요. 비생		12	
SOUTH ATLANTIC	1,183	nis in m	4	a	3	-1 <u>1</u> 33	4		4	20	86	
Delaware	24	- "ALT	· . · - 684	331 - ÷	1 1-01	11. 이 글 이 안 수	이상의 잘 가능	영 사람 활동을	主要是感到		-	
Marvland	286		1 - and	6 G 4 33			CO 1		성고 나는 것	이 아파 <u>파</u> 가 가지?	0.04	
Dist. of Columbia	9	11 - 200 4	1. da	d.i - 1	-			-	1 - C - C - C		11451246	
Virginia	307		2	요즘 두 것	- 1- 12	19 - Carlor	1	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	14.00 - 1.000	10	43	
West Virginia	302	elli sevente i		vol - h	1 - 2		1	-		3	15	
North Carolina	39	_	1.1	ad - 1	- 2	14 14 18	1	같은 다니 것	3	56. J 11. S	1	
South Carolina	13	St. Date	1.1.1.2.2.2.3	S. Land	2	6 J. 19	1.1.1		10	a sel state	-	
Georgia	12	-		e li int	1	10.00	1.1.1.1.1.1.1.1.1.1	_	1	2	15	
Florida	191	14-16-1	1	승규는 것	1.1-1.	18 - 1878	1	1 5 .	\$1. J. 1997	5	12	
EAST SOUTH CENTRAL	2,103	1	8	1362-11	2	に上間	4	100	1	35	180	
Kentucky	305	1 10	1921-411	-	. Stand		Sec A	A. 182.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1.	37	
Tennessee	1,645	171-01	4	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2		1	20.4	1	31	137	
Alabama	121	- -	3	- 1 C		-	3	1 AL - 1 B	12-0 - 12-14 m	3	5	
Mississippi	32	1	1	: 1 :	10.000	and the second	0 C	21 - 12		2011 - 189 19	1	
WEST SOUTH CENTRAL	1,309	1 <u>1</u> 1.	3		1	1.1	14		A	10	121	
Arkansas	8		e - i	2 1 - 16,2	- 22		2	8		1	28	
Louisiana	1	Sec		S	1.1.4.18		11	80.	faile-later	3	12	
Oklahoma	84	a na sain	1.805-527	A Stands The gal	1	-	30.54		5 1 1 H.	1	22	
Texas	1,216	the start	3	11-1	이 물건		1	1.1.2	1991年19月	5	59	
MOUNTAIN	2,873	her Lin	1	and south	4		2	an Salas		2	15	
Montana	125	-1.11	1.00-5	A3. • A	1	1.142.183	1	CONTRACT.	Test-Str.	AL-10.	-	
Idaho	131	ALL TIS	S. A. Markey				1.5 2.08	1. St St. 1	1 - 193.0		-	
Wyoming	83	bergin al	612.0 - 100	1480 - 53	1000	1.00	1000	1 201		1.42103	1.1.1.1.	
Colorado	1.975		13.5	1962	1	120	1.00		Se a cine	and and	-	
New Mexico	172	1	1. 1. 1. 1.		and a second	1.1.1.2.1.2.1.1	Contraction of the second	1. 1. 1. 1. 1.	A PANE		5	
Arizona	167	1	2.	1 2 7		1 <u>1</u> A 12	1 1	C. S. Lans	Sec. Lander	2	10	
lltah	220	1. 11 1 . S.	No. Sec.	- I 54	2		1		1000	Sec. 2019	ord, which	
Nevada		1 -	-	1 4- 1				0.001-0-0.11	12.24860	e di cin	-	
PACIFIC	2,010	1611.51	6	(Sugar	1.1.1	2	10	1997 43	C TALL	8	42	
Washington	658	Prese de la	1		1.1.1	14 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	and en	area has	13 32 - Sec.	-		
Oregon	79	and the state	Martin and	1941234	S T WHY	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	28 M 1 1	1.1			0111240	
California	1 162	Beerly of a	5	Sec. 2.	1978	1. 1. 144		Salah e.	1 C C Later		42	
Alaska	1,102	endarer.		42.3	224 1	1 836			l distri	0	0.52.063	
Hawaii	111	12 13 23 23	1000	3 1 1 7 8	I PAR	3.4, 388	5. 19126	1.122	10000	1.181.544	12 20 20	
Buento Piec			1		1 Preserve	VAP Dat	1	17 2335 C	(August 21)	2161 14 2,23	1	
ruerto kico	2	Same I while	Sectore deter	min manage	Second Second Second	5	3	-	1	1		

Week No. 9

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MARCH 4, 1967

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

	A11 C					A11 Ca	11606	-	
	All Ca	luses	Pneumonia	Under		AII Ca	uses	Pneumonia	Under
Area	All Ages	65 years and over	Influenza	A11	Area	All Ages	65 years and over	Influenza	All
	ana ang ang ang ang ang ang ang ang ang	4	All Ages	Causes	and share and share and	ale de		All Ages	causes
NEW ENGLAND:	832	507	43	41	SOUTH ATLANTIC:	1,307	673	57	69
Boston, Mass	299	166	21	18	Atlanta, Ga	151	71	4	11
Bridgeport, Conn	36	20	4	. 6	Baltimore, Md	311	162	7, 1	13
Cambridge, Mass	34	18			Charlotte, N. C	73	23	5	8
Fall River, Mass	27	19	2	1	Jacksonville, Fla	57	20	5	3
Hartford, Conn	69	38	10.000	2	Miami, Fla	91	53	2	4
Lowell, Mass	29	15	2	1997-1 1	Richmond Va	88	52	5	4
New Bedford Mass	24	15	1		Savannah Ga	60	20	4	1
New Haven Conn	59	35	i	1	St. Petersburg Fla	95	77	6	-
Providence R. T	71	42		4	Tampa, Fla,	80	38	7	4
Somerville, Mass	20	14	1	-	Washington, D. C	206	96	12	16
Springfield, Mass	46	29	7	2	Wilmington, Del	51	32		2
Waterbury, Conn	30	23		1	0				1.12.15
Worcester, Mass	68	50	4	5	EAST SOUTH CENTRAL:	592	367	27	18
MIDDLE ATLANTIC.	3 462	2 089	157	132	Chattanooga Tenn	93 50	38	3	11- 20-10
Albany N. Y	48	2,009	157	4	Knoxville, Tenn	33	24	2	- * 2 GST
Allentown, Pa	46	34	3	2	Louisville, Ky	119	80	9	2
Buffalo, N. Y	140	87	6	7	Memphis, Tenn	122	75	3	
Camden, N. J	50	28	7	1	Mobile, Ala	45	22		3
Elizabeth, N. J	37	23	2	-	Montgomery, Ala	37	26	8	1
Erie, Pa	34	17	4	-	Nashville, Tenn	91	49	1.	7
Jersey City, N. J	75	46	5	- 11	김 아이는 것 같은 것이 많이 많이 한 것이 같은 것이 같이 같이 같이 않는 것이 같이 많이 많이 했다.				M
Newark, N. J	105	57	5	4	WEST SOUTH CENTRAL:	1,161	610	67	67
New York City, N. Y	1,706	1,027	67	64	Austin, Tex	31	19	3	1
Paterson, N. J	- 38	24	2	2	Baton Rouge, La	33	13	1	2
Philadelphia, Pa	539	330	15	16	Corpus Christi, Tex	27	13	-gr. 0.31.37.51	3
Pittsburgh, Pa	241	133	5	17	Dallas, Tex	159	88	2	8
Reading, Pa	39	25	1	-	El Paso, Tex	35	16	5	2
Rochester, N. Y	122	86	1/	3	Fort Worth, Tex	90	54	4	2
Schenectady, N. Y	25	17	2	1	Houston, Tex	230	114	10	13
Scranton, Pa	49	31	2	3	Little Rock, Ark	53	27	6	1
Tront and N. Y	58	20	0	2	New Orleans, La.	152	/0	2	19
litica N V	28	13	2		San Antonio Toy	135	48	12	0
Yonkana N. Y.	20	13	2	4	San Antonio, lex	135	30	12	2
tonkers, N. I	55	22	2	1	Tulea Okla	73	46	8	2
EAST NORTH CENTRAL!	2.852	1,630	96	153	Turbu, okiu:	15	40	· BIRELS	1000
Akron, Ohio	81	51	1	7	MOUNTAIN:	523	319	36	28
Canton, Ohio	48	34	3	3	Albuquerque, N. Mex	63	34	9	6
Chicago, Ill	766	398	24	40	Colorado Springs, Colo.	35	22	3	2
Cincinnati, Ohio	191	121	4	7	Denver, Colo	139	76	4	11
Cleveland, Ohio	233	137	5	3	Ogden, Utah	18	14	4	1
Columbus, Ohio	138	82	5	7	Phoenix, Ariz	124	80	7	2
Dayton, Ohio	94	54	4	5	Pueblo, Colo	30	20	4	2
Detroit, Mich	341	173	7	21	Salt Lake City, Utah	56	41	2	1
Evansville, Ind	49	35		2	Tucson, Ariz	58	32	3	3
Flint, Mich	41	17	1	3			1. 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	497 - T. (NW
Fort Wayne, Ind	58	38	4	4	PACIFIC:	1,843	1,148	36	80
Cary, Ind	95	54	11	8	Berkeley, Calif.	34	20	3	2
Grand Rapids, Mich	58	36	4	3	Fresno, Calif.	38	23	100 X Gr. 1999	- 20 EA
Madianapolis, Ind	159	85	4	9	Giendale, Calif	37	34		1.192
Milson, Wis	34	19	-	2	Long Boach Calif	48	25	3	2
People Til	138	89		9	Long Beach, Callif	100	23	10	1 20
Rockfand TI	33	23	2	2	Oakland Calif	611	385	18	32
South Bond Ind	31	21	3	1	Pasadena Calif	30	21	- 1	- 10 Z
Toledo Obiossesses	150	08	6	8	Portland Oreg	145	31	1	interes 7
Youngstorm Objessor	130	50	3	8	Sacramento Calif	62	42	1 2	1
-oungstown, Onio	80	44	1	0	San Diego, Calif	02	42	2	6
WEST NORTH CENTRAL	054	595	33	64	San Francisco Calif	200	115	1	0
Des Moines Tours	80	505	2	6	San Jose Calif	200	30	1	2
Duluth, Minn	35	25	-	2	Seattle, Wash	204	129	2	6
Kansas City Kans	27	10	2	6	Spokane, Wash	55	35	-	2
Kansas City Mo	161	107	5	5	Tacoma, Wash	44	28	1	4
Lincoln, Nebr	20	15	1	1 1			20		A State
Minneapolis, Minn	143	96	10	7	Total	13,526	7,928	552	652
Omaha, Nebr	89	59	1	3					1 002
St. Louis. Mo	272	152	8	2.3	Cur	mulative T	otals		
St. Paul, Minn.*	81	53	2	5	including report	ed correct	ions for	previous w	eeks
Wichita, Kans	46	19	3	6				Sec. 1988	
		1		1	All Causes, All Ages			118,4	+44
					All Causes, Age 65 and	over		68,4	45
					Pneumonia and Influenza	, All Ages		4,8	57
*Estimate - based on av	verage per	cent of di	visional t	otal.	All Causes, Under 1 Year	r of Age		5,9	186

75

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

	INTERNATIONAL NOTES QUARANTINE MEASURES	THE MORBIDITY AND MORTALITY WEEKLY REPO TION OF 17,000, IS PUBLISHED AT THE NATH DISEASE CENTER, ATLANTA, GEORGIA.	RT, WITH A CIRCULA- DNAL COMMUNICABLE
Immuniza 1965-66 editia	ution Information for International Travel on – Public Health Service Publication No. 384	DIRECTOR, NATIONAL COMMUNICABLE DISEASE CHIEF, EPIDEMIOLOGY PROGRAM ACTING CHIEF, STATISTICS SECTION	CENTER DAVID J. SENCER, M.D. A.D. LANGMUIR, M.D. IDA L. SHERMAN, M.S.
The followin Yellow Fever	g information should be added to the list of Vaccination Centers in Section 6:	IN ADDITION TO THE ESTABLISHED PROCEDU MORBIDITY AND MORTALITY. THE NATIONAL CO CENTER WELCOMES ACCOUNTS OF INTERESTING INVESTIGATIONS WHICH ARE DIRECTLY RELATED OFFICIALS AND WHICH ARE DIRECTLY RELATED COMMUNICABLE DISEASES. SUCH COMMUNIC ADDRESSED TO:	RES FOR REPORTING MMUNICABLE DISEASE OUTBREAKS OR CASE ITEREST TO HEALTH TO THE CONTROL OF ATIONS SHOULD BE
Page 74		THE EDITOR MORBIDITY AND MORTALITY WEEKL NATIONAL COMMUNICABLE DISEASE ATLANTA, GEORGIA 30333	Y REPORT CENTER
City:	Gainesville, Florida	NOTE: THE DATA IN THIS REPORT ARE PR BASED ON WEEKLY TELEGRAMS TO THE NCDC STATE HEALTH DEPARTMENTS. THE REPORTI ON SATURDAY; COMPLEED DATA ON A NATIONAL	OVISIONAL AND ARE BY THE INDIVIDUAL NG WEEK CONCLUDES BASIS ARE RELEASED
Center:	Alachua County Health Department	ON THE SUCCEEDING FRIDAT.	
Clinic Hours:	Thursday, 1 p.m.		BC
Fee:	Yes		REAU
Page 78			HEA OF DISE,
Ci ty:	Duluth, Minnesota		U. PUI ASE PR
Center:	The Duluth Clinic		S. DEI BLIC H REVEN NICAB
Clinic Hours:	Friday, 11 a.m. to 12 noon	1 61	ATION EALTH TION A ATION A LE DIS , GEOR
Fee:	Yes	ary	AND EN AL GIA 3
			OF WELFARE IVIRONMENT CENTER 0333
			FAL CONTR
			ę