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Measles Outbreak Among School-Aged Children — Juneau, Alaska, 1996

An outbreak of measles among school-aged children occurred in Juneau, Alaska, from February 16 through April 25, 1996. Of 63 confirmed cases*, 47 were serologically confirmed, and virus was cultured from 15; a total of 41 (65%) were among school-aged children (i.e., aged 6–18 years). This report summarizes results of the epidemiologic investigation conducted by the Division of Public Health, Alaska Department of Health and Social Services (ADPH), which found evidence of measles transmission at schools despite high rates of coverage with one dose of measlescontaining vaccine (MCV).

The first five cases occurred among four students and a teacher at an elementary school; all had rash onset during February 16–19. The 63 case-patients ranged in age from 8 months to 45 years (median: 11 years): one was aged <1 year; 10 (16%), 1–4 years; 41 (65%), 5–19 years; and 11 (18%), \geq 20 years. Two persons with measles were hospitalized, including a child with dehydration and an adult with neutropenia. Measles virus was isolated from nasopharyngeal specimens obtained from 15 patients and from urine specimens from three of these same patients; isolates were genotypically similar to viruses recently isolated from Europe but different from isolates circulating in the United States during 1989–1992 (1).

Probable sites of measles acquisition were school (31 [49%]), home (14 [22%]), indoor soccer games (seven [11%]), and other settings (six [10%]); the site was unknown for five (8%). Cases were more likely to have been acquired at school during the first 35 days of the outbreak (19 [59%] of 32) than during the remaining 35 days (12 [39%] of 31).

Cases occurred among 40 students and four faculty members at seven of eight public schools in Juneau; one case occurred in a student at a private school. School-specific incidence rates were highest at the high school annex[†] (five [4%] of 127), a

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^{*}A confirmed case was laboratory confirmed or met the clinical case definition and was epidemiologically linked to a confirmed or probable case. A clinical case was defined as an illness characterized by a generalized rash lasting ≥3 days; a temperature ≥101 F (≥38.3 C); and cough, coryza, or conjunctivitis. A probable case met the clinical case definition, had noncontributory or no laboratory testing, and was not epidemiologically linked to a probable or confirmed case.

[†]A separate building with a small number of students.

Measles Outbreak — Continued

middle school (15 [2%] of 687), and the elementary school attended by the index patient (seven [1%] of 525). At the beginning of the 1995–96 school year, approximately 99% of 5400 public school children in Juneau had received at least one dose of MCV. The number of children who had received more than one dose of MCV was unknown; however, a second dose of measles-mumps-rubella vaccine (MMR) for school-aged children enrolled in public or private school was not required in Alaska at the time of the outbreak.

Of the 63 case-patients, 33 (52%) had received only one dose of MCV on or after their first birthday, and 30 (48%) had never been vaccinated with MCV. Among the 30 who were not vaccinated, 24 (80%) were eligible to be vaccinated (i.e., aged \geq 12 months and born on or after January 1, 1957); of the 24 who were eligible to be vaccinated, all 12 school-aged children had religious exemptions, and two of nine children aged 1–4 years were siblings of these unvaccinated schoolchildren.

Although no source case was identified, this outbreak coincided with a measles outbreak associated with the Seattle-Tacoma (Washington) airport, the major airport gateway to Juneau. The first three case-patients in the Seattle area had onset of measles during February 2–4, 1996; these cases occurred among two airport workers and an airport visitor who, on January 20, were at the Seattle-Tacoma airport concourse of the main airline serving Juneau. Because measles transmission probably occurred in the airport on January 20, a Juneau-bound passenger also may have been exposed and may have become the source case for the Juneau outbreak. Isolates from the Seattle cases were not available for comparison.

Measures to control the outbreak were implemented beginning February 17 and included efforts to vaccinate school-aged children and contacts of persons with suspected cases with at least one dose of MCV; active surveillance for rash illness in doctor's offices, schools, and the one hospital emergency department in Juneau; and weekly fax transmissions of outbreak updates to health-care providers and public health nurses in Juneau and all other areas of southeast Alaska. As a result of this outbreak, ADPH is requiring all Alaska schoolchildren in kindergarten and first grade to receive a second dose of MCV for school entry.

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Editorial Note: In this measles outbreak, the large number of cases among schoolaged children was attributed primarily to sustained transmission in schools characterized by high coverage levels with one dose of MCV. Before this outbreak, no measles transmission had been documented in Alaska schools since 1976, and approximately 99% of Juneau schoolchildren had received at least one dose of MCV; however, outbreaks have occurred previously among school-aged children vaccinated with one dose of MCV (*2*). In addition, consistent with outbreaks that occurred in the United States during 1995, viral isolates from cases in Juneau were genotypically similar to viruses recently isolated outside the United States and were not related to

Measles Outbreak — Continued

viruses that circulated during the measles resurgence in the United States during 1989–1992 (1). This finding suggests that recent outbreaks have resulted from importation of measles with subsequent transmission in the United States (1).

In 1989, as a result of continued measles outbreaks among school-aged children vaccinated with one dose of MCV, the Advisory Committee on Immunization Practices (ACIP) and the American Academy of Pediatrics recommended a routine two-dose measles vaccination schedule. In addition, ACIP recommended that, during outbreaks, a second dose of MCV be administered to children who had received only one dose of MCV before the outbreak (3). A measles outbreak (i.e., one case of confirmed measles in a community) should prompt vaccination of potentially susceptible persons. During school outbreaks, revaccination with MMR in affected schools is recommended. Revaccination consists of providing a second dose of MCV to all students, their siblings, and school personnel who were born during or after 1957 and do not have documented receipt of two doses of MCV on or after their first birthday or evidence of measles immunity (3). Revaccination also should be strongly considered in unaffected schools within the same community. The extensiveness of revaccination programs may vary with the magnitude of interaction at sporting and other interscholastic events and should strongly be considered when children in more than two schools are affected.

A routine two-dose MCV schedule for school-aged children will protect almost all of the estimated 2%–5% of children who do not respond to the first dose (4). The first dose of MCV should be given at age 12–15 months and the second dose at age 4–6 years or 11–12 years (3). Efforts to vaccinate the entire school-aged population in the United States with two doses of MCV are necessary to decrease the number and size of future measles outbreaks and to achieve elimination of measles in the United States. The speed at which this occurs locally depends on when two-dose MCV requirements were implemented in each state and the number of cohorts covered by the requirement. Forty-two states, including Alaska, require at least one school-grade cohort to be vaccinated with two doses of MCV. ACIP is revising recommendations for measles prevention that will encourage all states to achieve full coverage with two doses of MCV for all school-aged children in kindergarten through 12th grade by 2001.

Implementation of the two-dose strategy has been important in reducing measles incidence levels to current record low levels. In Finland, measles transmission was successfully eliminated following initiation of a two-dose MMR vaccination program in 1982 (5), similar in concept to the U.S. strategy. Countries of the Western Hemisphere, with the technical assistance of the Pan American Health Organization, have reduced measles incidence more than 95% by using a strategy based on periodic mass vaccination campaigns (6). These successful efforts to control measles outside the United States are important because long-term success in measles-control efforts in the United States and other countries require strengthened global control of measles.

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Acute Pesticide Poisoning Associated with Use of a Sulfotepp Fumigant in a Greenhouse — Texas, 1995

Pesticide fumigants that eradicate pests but do not damage flowers or foliage can be used to protect market-ready florals. During November 1995, a pesticide applicator worker in Texas became ill during fumigation despite wearing the personal protective equipment (PPE) recommended on the fumigant product label. This report summarizes the results of the case investigation by the Texas Department of Health (TDH) and CDC's National Institute for Occupational Safety and Health (NIOSH) and a survey of growers about pesticide use. The findings indicate that the recommended PPE may be inadequate to protect workers using sulfotepp fumigants from pesticide poisoning.

Case Investigation

On November 30, 1995, the Environmental and Occupational Epidemiology Program at TDH was notified by the Texas Poison Center Network of a 32-year-old man who had visited an emergency department (ED) because of symptoms consistent with acute pesticide poisoning, including headache, nausea, diarrhea, vomiting, cough, slight dizziness, sweating, fatigue, abdominal pain, anxiety, muscle aches, chest tightness, drowsiness, restlessness, shortness of breath, and excessive salivation. The patient was a pesticide applicator employed at a greenhouse and had applied sulfotepp fumigants (Plantfume 103 and Fulex)* the previous night. Sulfotepp, a highly toxic organophosphate pesticide and cholinesterase inhibitor, is used in greenhouses to control aphids, spider mites, thrips, and whiteflies; sulfotepp does not damage delicate flowers or foliage (1).

The patient reported onset of symptoms shortly after igniting the sulfotepp fumigant canisters in the first of four interconnected greenhouses where chrysanthemums, poinsettias, and other plants were grown. Despite feeling ill and smelling the chemical, he and three other workers completed fumigating all four greenhouses. He did not seek medical care until the following day. Physical examination at the ED was unremarkable, and he was released without treatment.

The patient was a licensed pesticide applicator and had been employed at the greenhouse for 2 years. Although he had applied other fumigants in the past, this was the first time he had applied sulfotepp and the first time the chemical was used in this greenhouse. During the application, he wore the PPE recommended on the product label, including a laminated full-body suit, rubber boots, nitrile gloves, and a full-face air-purifying respirator equipped with a pesticide prefilter and organic vapor cartridge.

^{*}Use of trade names and commercial sources is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

Pesticide Poisoning — Continued

He had undergone a qualitative (smoke) respirator fit test in November, and no leakage was detected. A qualitative fit test conducted after the incident indicated an adequate fit.

On December 3, TDH and NIOSH interviewed the other applicators, inspected the PPE, and observed the next fumigant application at the greenhouse. All three applicators reported wearing the label-recommended equipment, and two of these three workers reported nausea and detecting the odor of the chemical during application on November 30; however, they did not vomit or seek medical care.

During the second application, unopened canisters of Plantfume 103 and Fulex were set out in a grid-like fashion within each greenhouse. In accordance with the label instructions, a total of 80 canisters were set out (one canister per 20,000 cubic feet). The internal air circulation system and the exhaust ventilation system were turned off. The internal air circulation system had not been turned off during the previous application because the applicators misinterpreted the instructions. To avoid the smoke, the workers ignited the canisters as they exited each greenhouse, but each canister rapidly generated smoke. After the final canister was ignited, the workers moved to a shipping area not being treated with the fumigant, removed their PPE, and left the facility. The time necessary to complete the application was approximately 45 minutes and, even though all product label instructions were followed, the index patient again reported some symptoms.

Survey of Growers

During December, TDH conducted a telephone survey of greenhouse operators in Texas to assess the prevalence of greenhouse fumigant use and the occurrence of possibly related adverse health effects among workers. TDH contacted 413 Texas companies listed under Standard Industrial Classification (SIC) code 5193 (nursery stock for florists and the same SIC code as the greenhouse) and identified 53 companies with greenhouses in which plants were grown. All 53 companies participated in the survey. Of these, 43 (81%) reported ever using fumigants, and 30 (70%) of the 43 reported using sulfotepp. Of the 43 companies using any type of fumigant, 33 (77%) reported that workers used respirators during fumigant application, including five that used respirators with an independent supply of compressed air. Three (7%) companies reported that at least one worker had become ill during the application of fumigants, none of which contained sulfotepp; none of the workers sought medical care for their illness. At two of these three companies, workers wore all labelrecommended PPE during the fumigant application; at the third company, workers did not use PPE during the application.

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Editorial Note: Although pesticide use in the United States has doubled since the 1960s (*2*), the health effects of pesticide use on agricultural workers has not been well documented. In Texas, where occupationally related acute pesticide poisoning is a reportable condition, 247 cases were reported during 1986–1994. However, during 1989–1990, only 20% of cases were reported (TDH, unpublished data, 1991).

The findings of the TDH investigation indicate that the acute illness among workers in this report most likely was associated with exposure to the sulfotepp fumigant and

Pesticide Poisoning — Continued

underscore the importance of reporting pesticide poisonings. Exposure occurred even though the workers followed the pesticide label instructions and properly used all recommended PPE during the second application. Because there was no evidence of oral or dermal contact with the chemical and workers smelled the chemical, inhalation was the most likely route of exposure. Other factors potentially associated with exposure may have included the technique employed in igniting the canisters and operation of the internal air-circulation system during the first application, which may have increased dispersion of the fumigant throughout the greenhouse.

The sulfotepp label instructions state that applicators and other handlers must use "a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (approval prefix TC-23C) or a canister approved for pesticides (approval prefix TC-14G)" (*3,4*). In general, such filters do not provide adequate protection against the high ambient chemical concentration and small particle size characteristic of fumigants. In addition, a single type of filter may not be appropriate for all types and forms of pesticides and, in July 1995, NIOSH discontinued certifying cartridges specifically for use with pesticides.[†] The survey findings in this report indicated that many greenhouses use fumigants, most workers use only a respirator, and other greenhouse workers had become ill during fumigant applications, despite the use of label-recommended PPE.

Neither the product distributor nor the formulators of Plantfume 103 and Fulex had received reports of illness related to these products; however, neither maintained surveillance for potentially related problems or illnesses. During 1985–1992, the U.S. Environmental Protection Agency (EPA) received 23 reports of illness in persons occupationally exposed to sulfotepp (EPA, unpublished data, 1996); 70% of these persons were referred to health-care facilities, and 7% were hospitalized.

As a result of this investigation, TDH and NIOSH recommended to EPA that sulfotepp fumigant labels be amended to indicate the appropriate respiratory protection. Label instructions for other pesticide fumigants also may need to be reviewed for appropriateness. In addition, advertising material and labels for pesticide prefilters, cartridges, and canisters should clearly state they are not for use with fumigants. Professional associations and licensing and regulatory agencies should provide applicators with educational materials regarding the safe use of pesticide fumigants, including appropriate PPE, efficient fumigant application procedures, and less toxic pest-control options. Employers should implement comprehensive PPE programs, including selection of appropriate respirators by qualified staff using NIOSH-recommended procedures (*5*).

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[†]42 CFR 84.

Foodborne Outbreak of Diarrheal Illness Associated with *Cryptosporidium parvum* — Minnesota, 1995

On September 29, 1995, the Minnesota Department of Health (MDH) received reports of acute gastroenteritis among an estimated 50 attendees of a social event in Blue Earth County on September 16. This report summarizes the epidemiologic and laboratory investigations of the outbreak, which indicate the probable cause for this foodborne outbreak was *Cryptosporidium parvum*.

Of the 26 persons who attended the function and who completed telephone interviews with MDH, 15 (58%) reported onset of diarrhea (three or more stools during a 24-hour period) within 14 days after attending the event (range: 1–9 days; median: 6 days). Symptoms included watery diarrhea (100%), abdominal cramps (93%), and chills (79%). The median length of illness was 4 days (range: $\frac{1}{2}$ day–14 days). Three persons who sought medical care received outpatient treatment for acute gastroenteritis. Stool specimens obtained from two of these persons were negative for bacterial pathogens and for ova and parasites but were not tested for *C. parvum*. There were no other reports of cryptosporidiosis in the community at the time of this outbreak.

To identify risk factors for illness, MDH conducted a case-control study using the 15 ill and 11 well attendees. In addition, MDH collected stools from three ill persons, and these were cultured for *Salmonella*, *Shigella*, *Campylobacter*, and *Escherichia coli* O157:H7; examined for ova and parasites; and tested for *C. parvum* using acid-fast staining and direct-fluorescent antibody (DFA) methods.

Based on the case-control study, only consumption of chicken salad was associated with increased risk for illness (15 of 15 cases versus two of 11 controls; odds ratio= undefined). Water consumption at the event was not associated with illness.

The chicken salad was prepared by the hostess on September 15 and was refrigerated until served. The ingredients were cooked chopped chicken, pasta, peeled and chopped hard-boiled eggs, chopped celery, and chopped grapes in a seasoned mayonnaise dressing. The hostess operated a licensed day-care home (DCH) and prepared the salad while attendees were in her home. She denied having recent diarrheal illness and refused to submit a stool specimen. In addition, she denied knowledge of diarrheal illnesses among children in her DCH during the week before preparation of the salad. She reported changing diapers on September 15 before preparing the salad and reported routinely following handwashing practices.

Stool specimens from two of the persons whose illnesses met the case definition were obtained by MDH 7 days after resolution of their symptoms; one sample was positive for oocysts and *Cryptosporidium* sporozoites on acid-fast staining, but the DFA test was negative. The presence of oocysts containing sporozoites was confirmed by acid-fast tests at two other reference laboratories. Stool specimens obtained from a third person—the spouse of a case-patient—who did not attend the event but had onset of diarrhea 8 days after onset of diarrhea in his spouse was positive for *C. parvum* by acid-fast staining and DFA. All stools obtained by MDH were negative for bacteria and for parasites. No chicken salad was available for testing.

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Cryptosporidium parvum — Continued

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Editorial Note: Known modes of transmission of *C. parvum* include consumption of contaminated surface or ground water (1,2), exposure to contaminated recreational water (3), animal-to-person contact (2), and person-to-person contact (2). Because outbreaks of cryptosporidiosis and asymptomatic carriage of *Cryptosporidium* have been documented in child-care settings (4), the food preparer in this outbreak may have contaminated the implicated salad after contact with an asymptomatically infected child in the DCH. The salad required extensive handling in preparation, was moist, and was served cold—conditions conducive to initial contamination and preservation of infectious oocysts.

The outbreak of gastroenteritis described in this report was associated with eating chicken salad at a social function. Despite the small number of stools submitted for testing by ill persons who attended the event, the symptoms, incubation period, and the presence of *C. parvum* in the stool of an ill attendee all indicate that this was a foodborne outbreak of cryptosporidiosis.

Although foodborne transmission of *C. parvum* has been suspected previously, evidence supporting this mode has been limited to one report of a point source outbreak associated with raw apple cider (*5*) and reports of sporadic cases attributed to contaminated foods (*6*). The reported low infectious dose of *C. parvum* (ID₅₀=132 organisms) suggests that transmission in food is possible (*7*). Cryptosporidiosis should be considered in the differential diagnosis of suspected foodborne gastroenteritis.

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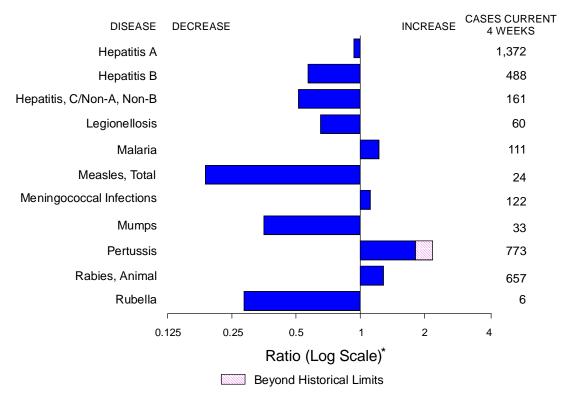


FIGURE I. Selected notifiable disease reports, comparison of 4-week totals ending September 7, 1996, with historical data — United States

*Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

	Cum. 1996		Cum. 1996
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome* [†]	58 2 1 1,279 1 35 2 - 71 11	HIV infection, pediatric* [§] Plague Poliomyelitis, paralytic [¶] Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal toxic-shock syndrome* Syphilis, congenital** Tetanus Toxic-shock syndrome Trichinosis Typhoid fever	195 1 27 1 468 13 225 19 97 15 232

TABLE I. Summary — cases of selected notifiable diseases, United States, cumulative, week ending September 7, 1996 (36th Week)

-: no reported cases

-: no reported cases *Not notifiable in all states. ¹ Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID). ⁵ Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention (NCHSTP), last update August 27, 1996. [¶] Three suspected cases of polio with onset in 1996 has been reported to date. **Updated quarterly from reports to the Division of STD Prevention, NCHSTP.

	Je	Jiempe	er 7, 199	o, anu	Septe	inder 5,	1995	Sour V	veek)			
				Escherichia coli O157:H7				Нера	atitis			
		DS*	Chlamydia	NETSS [†]	PHLIS [§]	Gono			A,NB	Legion		
Reporting Area	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1996	Cum. 1996	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	
UNITED STATES	45,416	47,222	245,757	1,598	852	194,627	269,203	2,294	2,722	561	821	
NEW ENGLAND	1,849	2,383	11,721	236	50	4,938	5,132	80	87	31	20	
Maine N.H.	31 58	75 70	610 397	18 27	26	34 80	64 77	- 7	12	2 1	5 1	
Vt.	14	21	U	16	14	41	43	28	9	3	-	
Mass. R.I.	873 123	999 179	4,621 1,354	117 10	10	1,511 357	1,806 348	39 6	62 4	16 9	11 3	
Conn.	750	1,039	4,739	48	-	2,915	2,794	-	-	Ň	Ň	
MID. ATLANTIC Upstate N.Y.	12,627 1,672	12,731 1,609	30,341 N	144 100	34 12	22,233 4,150	30,762 6,657	190 154	315 156	130 49	135 36	
N.Y. City	7,052	6,551	15,097	8	-	7,762	12,169	154	150	5	4	
N.J. Pa.	2,402 1,501	2,970 1,601	3,103 12,141	36 N	5 17	3,344 6,977	3,163 8,773	35	127 31	9 67	20 75	
E.N. CENTRAL	3,616	3,632	42,870	389	276	29,097	53,866	310	220	149	244	
Ohio	810	779	13,341	102	57	9,782	16,786	24	8	65	115	
Ind. III.	462 1,579	379 1,514	6,692 16,939	51 171	34 84	4,330 12,163	6,448 13,471	7 50	2 66	31 9	56 22	
Mich. Wis.	570 195	713 247	U 5,898	65 N	53 48	U 2,822	12,539 4,622	229	144	31 13	23 28	
WIS. W.N. CENTRAL	1,060	1,077	19,547	341	40 196	8,589	13,822	87	63	31	20 54	
Minn.	189	242	2,702	132	115	Ū	1,890	1	2	3	2	
lowa Mo.	69 541	55 474	2,705 8,579	84 47	55	680 5,731	983 7,979	39 29	12 17	8 6	17 13	
N. Dak. S. Dak.	10 9	4 11	2 704	10 13	12	101	21 140	-	5 1	2	3 1	
Nebr.	9 74	80	1,779	27	3	668	823	5	14	9	11	
Kans.	168	211	3,076	28	11	1,409	1,986	13	12	3	7	
S. ATLANTIC Del.	11,216 215	12,139 219	37,413 1,148	85	50 1	66,608 1,007	74,369 1,502	178 1	169	97 9	137 2	
Md.	1,324	1,621	4,607	Ν	7	9,656	8,750	1	7	18	24	
D.C. Va.	799 795	739 961	N 7,521	N	21	3,099 6,410	3,121 7,647	- 10	10	8 13	4 18	
W. Va. N.C.	83 603	75 712	1	N 23	2 12	350 12,727	470 16,430	9 34	41 43	1 7	3 29	
S.C.	586	673	-	7	7	7,747	8,333	21	16	4	28	
Ga. Fla.	1,651 5,160	1,638 5,501	7,947 16,189	22 23	-	13,144 12,468	13,915 14,201	U 102	15 37	3 34	14 15	
E.S. CENTRAL	1,563	1,544	20,452	40	37	21,764	28,157	420	740	36	48	
Ky. Tenn.	272 580	196	4,548	7 19	4 30	2,860	3,260	20	23 715	3 18	9 23	
Ala.	431	636 410	9,042 5,779	9	30	7,869 9,246	9,582 11,637	320 4	2	3	6	
Miss.	280	302	U	5	-	1,789	3,678	76	U	12	10	
W.S. CENTRAL Ark.	4,562 186	4,141 186	30,403	38 11	10 3	22,547 2,451	37,517 3,607	320 7	207 5	17 1	15 5	
La.	1,046	707	4,962	5 8	4 1	5,336	7,863	142	130	1 5	2 3	
Okla. Tex.	189 3,141	194 3,054	5,327 20,114	0 14	2	3,385 11,375	3,758 22,289	69 102	33 39	10	5	
MOUNTAIN	1,325	1,466	11,203	123	63	5,021	6,461	410	327	29	87	
Mont. Idaho	23 29	16 37	- 1,073	13 26	- 6	24 78	51 107	12 92	11 43	1	4 2	
Wyo.	29 3	10	402	-	2	24	39	132	131	3	2 8	
Colo. N. Mex.	362 118	493 123	2,633	50 7	30	1,077 564	1,975 716	39 54	50 37	7 1	33 4	
Ariz.	370 127	390 98	4,541 1,035	N 17	17	2,524 199	2,502 163	51 21	30	13 2	7 12	
Utah Nev.	293	299	1,519	10	8	531	908	9	10 15	2	12	
PACIFIC	7,597	8,109	41,807	202	136	13,830	19,117	299	594	41	81	
Wash. Oreg.	508 339	662 298	6,455 U	64 56	42 35	1,411 398	1,830 533	41 6	152 33	5	18	
Calif.	6,594	6,914	30,042	79	50	11,484	15,873	106	381	32	58	
Alaska Hawaii	23 133	53 182	776 872	3 N	2 7	282 255	465 416	2 144	1 27	1 3	- 5	
Guam	4	-	168	Ν	-	31	79	1	5	2	1	
P.R. V.I.	1,524 17	1,828 27	N N	13 N	U U	210	416	77	168 -	-	-	
Amer. Samoa	-	-	-	N	U	-	18	-	-	-	-	
C.N.M.I.	1	-	N	N	U	11	41	-	5	-	-	

 TABLE II. Cases of selected notifiable diseases, United States, weeks ending

 September 7, 1996, and September 9, 1995 (36th Week)

N: Not notifiable U: Unavailable -: no reported cases C.N.M.I.: Commonwealth of Northern Mariana Islands

*Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention, last update August 27, 1996. [†]National Electronic Telecommunications System for Surveillance. [§]Public Health Laboratory Information System.

	Lyme Disease		Mal	aria	Mening Dise			hilis Secondary)	Tubero	ulosis	Rabies,	Animal
Reporting Area	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995	Cum. 1996	Cum. 1995
UNITED STATES	7,628	7,552	933	860	2,306	2,187	7,420	11,386	12,980	14,091	4,166	5,458
NEW ENGLAND	2,470	1,479	37	35	97	101	115	257	282	340	496	1,107
Maine N.H.	22 27	16 19	6 1	4 1	12 3	7 18	- 1	2 1	4 9	11 9	67 46	21 114
Vt. Mass.	15 186	8 86	2 12	1 10	3 37	6 35	- 54	- 43	1 144	2 190	114 80	135 335
R.I. Conn.	333 1,887	240 1,110	6 10	4 15	10 32	4 31	1 59	3 208	24 100	33 95	33 156	237 265
MID. ATLANTIC	4,379	4,962	228	226	201	280	290	208 589	2,265	2,992	536	1,428
Upstate N.Y. N.Y. City	2,561 189	2,507 333	55 113	45 118	62 30	76 38	49 94	63 255	286 1,113	326 1,711	291	847
N.J.	516	1,322	46	46	53	70	77	120	489	514	98	257
Pa. E.N. CENTRAL	1,113 52	800 329	14 95	17 120	56 316	96 313	70 913	151 1,959	377 1,410	441 1,320	147 69	324 77
Ohio	35	21	9	9	121	89	333	626	204	182	11	9
Ind. III.	15 2	13 15	12 35	15 63	48 82	46 83	146 312	227 761	120 761	124 694	5 18	12 12
Mich. Wis.	Ū	5 275	28 11	13 20	33 32	56 39	U 122	197 148	251 74	264 56	23 12	32 12
W.N. CENTRAL	109	72	36	18	190	134	269	546	332	422	382	261
Minn. Iowa	39 18	5 9	17 2	3 2	25 39	22 25	51 13	29 34	78 44	101 48	19 178	13 94
Mo. N. Dak.	22	37	8 1	6 1	78 3	50 1	174	463	142 6	162 3	16 51	25 23
S. Dak.	-	-	-	1	9	5	-	-	15	15	91	72
Nebr. Kans.	2 28	4 17	3 5	3 2	16 20	12 19	12 19	11 9	13 34	17 76	3 24	5 29
S. ATLANTIC	414	490	203	165	479	361	2,596	2,861	2,403	2,490	1,917	1,461
Del. Md.	50 232	37 324	3 55	1 44	2 49	6 31	26 442	10 318	20 207	40 281	52 445	74 296
D.C. Va.	3 32	2 38	7 32	15 35	10 43	4 47	104 300	77 446	93 178	70 167	9 401	11 286
W. Va. N.C.	11 58	21 44	3 19	2 14	11 60	8 62	1 715	8 796	44 329	54 299	74 482	85 346
S.C.	4	12	9	1	45	47	276	412	244	222	69	99
Ga. Fla.	1 23	9 3	16 59	23 30	118 141	72 84	465 267	536 258	449 839	448 909	214 171	194 70
E.S. CENTRAL	48	50	23	18	132	143	1,660	2,330	1,211	980	149	205
Ky. Tenn.	9 17	12 20	3 11	2 7	21 16	36 53	97 584	128 607	163 297	202 319	33 54	22 68
Ala. Miss.	6 16	7 11	3 6	6 3	55 40	29 25	393 586	460 1,135	586 165	283 176	59 3	108 7
W.S. CENTRAL	84	81	22	33	269	261	1,116	2,252	1,510	1,916	266	526
Ark. La.	21 1	6 4	- 4	2 3	29 47	26 39	121 381	344 715	126 59	146 181	15 13	33 24
Okla. Tex.	13 49	34 37	- 18	1 27	25 168	28 168	137 477	139 1,054	129 1,196	146 1,443	21 U	28 441
MOUNTAIN	-5	7	41	43	130	160	107	160	403	429	105	112
Mont. Idaho	-	-	6	3 1	4 19	2 7	- 4	4	14 6	10 9	18	34 1
Wyo.	2	3	3	-	3	7	2	- 87	5	1	23	22
Colo. N. Mex.	- 1	- 1	18 2	18 4	28 21	40 30	23 1	5	54 54	38 60	30 4	5
Ariz. Utah	2	- 1	6 4	7 5	33 12	47 13	64 2	32 4	171 39	209 19	24 3	34 10
Nev.	1	2	2	5	10	14	11	28	60	83	3	6
PACIFIC Wash.	66 12	82 8	248 16	202 16	492 76	434 72	354 5	432 11	3,164 163	3,202 186	246 4	281 7
Oreg. Calif.	11 42	13 61	15 207	13 162	86 321	79 273	10 338	18 402	72 2,772	81 2,760	- 234	1 266
Alaska	-	-	207 3 7	1	6	6	-	1	43	48	8	200
Hawaii Guam	1	-	-	10 1	3 1	4 2	1 3	- 8	114 35	127 83	-	-
P.R.	-	-	-	1	5	18	97	192	63	120	32	35
V.I. Amer. Samoa	-	-	-	2	-	-	-	-	-	3	-	-
C.N.M.I.	-	-	-	1	-	-	1	5	-	29	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending September 7, 1996, and September 9, 1995 (36th Week)

N: Not notifiable U: Unavailable -: no reported cases

			<u> </u>			Т	Measles (Rubeola)				
	<i>H. influ</i> inva	-		Hepatitis (vi	rai), by type B	Indi	igenous		a) ported [†]		
Reporting Area	Cum. 1996*	Cum. 1995	Cum. 1996	Cum. 1995	- Cum. 1996	Cum. 1995	1996	Cum. 1996	1996	Cum. 1996	
UNITED STATES	797	809	18,149	19,523	6,411	6,818	6	388	-	34	
NEW ENGLAND	22	32	247	189	139	165	-	10	-	4	
Maine	-	3	13	20	2	7	-	-	-	-	
N.H. Vt.	8 1	8 2	11 6	8 4	10 10	17 4	-	- 1	-	- 1	
Mass.	11	10	129	78	43	60	-	8	-	3	
R.I. Conn.	2	3 6	13 75	24 55	9 65	8 69	-	- 1	-	-	
MID. ATLANTIC	129	114	1,068	1,202	935	965	-	20	-	5	
Upstate N.Y.	40	31	284	281	238	262	-	-	-	-	
N.Y. City N.J.	25 39	27 13	399 231	591 171	425 171	306 250	-	9	-	3	
Pa.	25	43	154	159	101	147	-	11	-	2	
E.N. CENTRAL	122	142	1,547	2,295	683	781	-	5	-	4	
Ohio Ind.	74 7	73 18	571 228	1,285 124	91 114	82 149	Ū	2	Ū	-	
III.	29	33	336	474	170	205	-	2	-	1	
Mich. Wis.	7 5	16 2	299 113	261 151	262 46	291 54	-	- 1	-	3	
W.N. CENTRAL	38	55	1,585	1,359	302	456	3	21	_	2	
Minn.	23	28	90	126	40	36	2	16	-	2	
lowa Mo.	5 6	3 17	260 747	63 983	66 145	34 324	- 1	- 4	-	-	
N. Dak.	-	-	75	22	2	4	-	-	-	-	
S. Dak. Nebr.	1 1	1 3	41 151	37 37	3 21	2 23	- U	-	- U	-	
Kans.	2	3	221	91	25	33	-	1	-	-	
S. ATLANTIC	184	161	872	771	1,029	884	-	6	-	8	
Del. Md.	2 47	- 55	11 145	8 152	6 216	6 179	-	1 2	-	2	
D.C.	5	-	22	18	28	15	-	-	-	-	
Va. W. Va.	6 6	21 6	117 13	138 17	98 18	81 40	-	-	-	2	
N.C.	22	25	101	80	253	203	Ū	3	Ū	1	
S.C. Ga.	4 73	1 48	42 87	35 51	61 8	37 62	-	-	-	2	
Fla.	19	40 5	334	272	341	261	-	-	-	1	
E.S. CENTRAL	21	8	990	1,231	570	612	1	1	-	-	
Ky. Tenn.	4 8	2	22 667	35 1,019	38 332	54 481	- 1	- 1	-	-	
Ala.	8	5	139	63	46	401	-	-	-	-	
Miss.	1	1	162	114	154	-	-	-	-	-	
W.S. CENTRAL Ark.	31	49 5	3,741 351	2,488 350	829 54	865 41	1	26	-	2	
La.	3	1	109	82	84	148	-	-	-	-	
Okla. Tex.	25 3	20 23	1,619 1,662	672 1,384	59 632	118 558	- 1	26	-	2	
MOUNTAIN	78	90	2,912	2,857	746	582	-	152	-	5	
Mont.	-	-	82	76	7	19	-	-	-	-	
ldaho Wyo.	1 35	2 5	154 26	239 85	70 33	70 17	-	1 1	-	-	
Colo.	11	13	321	358	97	85	-	4	-	3	
N. Mex. Ariz.	9 9	12 22	282 1,216	594 818	254 185	218 87	-	16 8	-	-	
Utah	7	9	665	526	69	48	-	117	-	2	
Nev.	6	27	166	161	31	38	-	5	-	-	
PACIFIC Wash.	172 2	158 8	5,187 335	7,131 584	1,178 65	1,508 133	1	147 45	-	4	
Oreg.	22	22	594	1,851	50	90	-	4	-	-	
Calif.	144	123	4,173	4,539	1,045	1,263	-	33		2	
Alaska Hawaii	2 2	1 4	32 53	31 126	10 8	10 12	U 1	63 2	U -	2	
Guam	-	-	2	6	-	4	U	-	U	-	
P.R.	1	3	80	74	261	445	U	6	U	-	
V.I. Amer. Samoa	-	-	-	6 5	-	13	U U	-	U U	-	
C.N.M.I.	10	11	1	22	5	16	Ũ	-	Ũ	-	

TABLE III. Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending September 7, 1996, and September 9, 1995 (36th Week)

N: Not notifiable U: Unavailable -: no reported cases

*Of 187 cases among children aged <5 years, serotype was reported for 42 and of those, 12 were type b.

[†]For imported measles, cases include only those resulting from importation from other countries.

	Measles (Rub	oeola), cont′d.										
Total				Mump		<u> </u>	Pertussi		Rubella			
Reporting Area	Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	1996	Cum. 1996	Cum. 1995	
UNITED STATES	422	266	10	447	601	257	3,157	2,735	2	193	105	
NEW ENGLAND	14	8	-	1	11	17	655	378	-	25	44	
Maine N.H.	-	-	-	-	4 1	- 2	19 66	21 28	-	-	- 1	
Vt.	2	-	-	-	-	2	41	28 56	-	2	-	
Mass.	11	2	-	1	2	-	485	258	-	20	7	
R.I. Conn.	- 1	5 1	-	-	1 3	12	25 19	2 13	-	- 3	36	
MID. ATLANTIC	25	12	1	60	91	14	242	224	-	8	12	
Upstate N.Y.	-	1	-	19	23	9	129	105	-	4	3	
N.Y. City N.J.	12	5 6	-	14 2	13 14	-	22 5	35 16	-	2 2	7 2	
Pa.	13	-	1	25	41	5	86	68	-	-	-	
E.N. CENTRAL	9	14	-	81	103	5	317	332	-	3	3	
Ohio	2	1		35	32		159	95	-	-	-	
Ind. III.	- 3	- 2	U -	6 19	7 30	U 5	31 96	21 65	U -	- 1	-	
Mich.	3	5	-	20	34	-	26	55	-	2	3	
Wis.	1	6	-	1	-	-	5	96	-	-	-	
W.N. CENTRAL Minn.	23 18	2	2 2	12 5	36 2	35 29	208 157	139 42	-	1	-	
lowa	-	-	-	1	9	-	9	7	-	1	-	
Mo. N. Dak.	4	1	-	3 2	20 1	5	27 1	45 8	-	-	-	
S. Dak.	-	-	-	-	-	1	4	10	-	-	-	
Nebr. Kans.	-	- 1	U	- 1	4	U -	6 4	8	U	-	-	
S. ATLANTIC	1 14	11	-	76	- 88	- 13	4 376	19 235	-	91	9	
Del.	14	-	-	/0	- 00	- 13	376	235	-	- 91	9	
Md.	4	1	-	21	27	5	132	31	-	-	1	
D.C. Va.	2	-	-	12	- 17	- 4	- 43	4 15	-	1 2	-	
W. Va.	-	-		-	-	-	2	-		-	-	
N.C. S.C.	4	-	U	17 5	16 9	U 1	75 26	84 20	U	77 1	1	
Ga.	2	2	-	2	6	-	17	18	-	-	-	
Fla.	1	8	-	19	13	3	70	54	-	10	7	
E.S. CENTRAL Ky.	1	-	-	19	7	4	67 26	255 17	-	2	1	
Tenn.	1	-	-	1	-	-	17	203	-	-	1	
Ala.	-	-	-	3	4	4	16	34	-	2	-	
Miss. W.S. CENTRAL	-	-	-	15	3	- 5	8	1	N	N	N 7	
Ark.	28	23 2	3	23 1	39 6	5	77 7	213 29	1	3	-	
La.	-	18	-	12	8	-	7	12	-	1	-	
Okla. Tex.	28	- 3	- 3	10	25	2	8 55	20 152	- 1	2	- 7	
MOUNTAIN	157	68	-	22	26	24	294	459	-	6	4	
Mont.	-	-	-	-	1	-	17	3	-	-	-	
ldaho Wyo.	1 1	-	-	-	2	4 1	98 5	87 1	-	2	-	
Colo.	7	26	-	2	1	9	77	68	-	2	-	
N. Mex. Ariz.	16 8	31 10	N	N 1	N 2	3 7	42 22	78 153	-	- 1	- 3	
Utah	119	-	-	2	11	-	11	153	-	-	3 1	
Nev.	5	1	-	17	9	-	22	51	-	1	-	
PACIFIC	151	128	4	153	200	140	921	500	1	54	25	
Wash. Oreg.	45 4	19 1	-	18	10	110	413 29	121 37	-	2 1	1	
Calif.	35	106	2	111	171	30	458	300	1	48	19	
Alaska Hawaii	63 4	- 2	U 2	2 22	12 7	U	2 19	42	U	- 3	- 5	
Guam	-	-	U	5	3	U	13	42	U	-	1	
P.R.	6	3	U	5 1	2	U	1	2 1	U	-	-	
V.I.	-	-	U	-	3	U	-	-	U	-	-	
Amer. Samoa	-	-	U U	-	-	U U	-	-	U U	-	-	

TABLE III. (Cont'd.) Cases of selected notifiable diseases preventable by vaccination, United States, weeks ending September 7, 1996, and September 9, 1995 (36th Week)

N: Not notifiable U: Unavailable -: no reported cases

	4	All Cau	ises, By	/Age (Y	'ears)		P&I [†]			All Cau	ises, By	/ Age (Y	'ears)		P&I [†]
Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J.	31 48 5 36 54 2,138 43 35 90 27 16	391 106 28 17 20 8 17 21 37 1 23 24 40 1,416 25 30 65 19 14	4 7 1 4 3 2 4 6 3 9 7 9 4 39 9 3 20 4 1	44 12 4 2 4 1 5 1 4 1 5 3 202 3 2 202 3 2 3 2 1	20 8 2 4 1 2 1 2 4 3 4 3 1 2 4 3	14 5 - - 3 - - 3 - 1 - 2 37 6 - 1 - -	32 10 4 2 1 1 1 1 2 3 3 4 97 1 2 2	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala.	124 153 25 615 83 58 50 57 166 52 56	586 53 73 51 52 63 32 43 32 91 81 15 405 49 405 37 38 108 37 38 108 402	200 31 23 20 19 20 10 0 7 1 23 42 4 133 17 7 10 11 41 6 7	120 23 23 9 10 10 4 U 3 5 24 6 45 10 4 3 4 11 2 5	31 7 6 1 3 4 1 U 1 2 2 4 - 17 3 1 - 5 3 3	13 2 1 2 1 1 U 1 - 3 2 - 14 4 1 - 3 1 1 1	54 312 91 - 5U 41 42 3 27 46 - 57 12
Erie, Pa.§ Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y. E.N. CENTRAL	32 58 58 76 14 300 46 7 7 127 21 24 65 19 20 U 1,702	28 31 743 22 9 172 38 51 18 51 14 18 0 1,085	33 2 77 6 1 21 4 4 7	1 13 113 2 30 1 - 7 1 2 3 3 3 - U 176	1 17 4 1 13 1 - - 2 - U 56	3 15 2 - 7 - 1 - 2 - 2 - U 47	1 2 47 6 14 3 10 2 4 2 1 U 100	Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Houston, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	93 1,105 59 37 22 143 64 84 267 98 168 35 85 699	58 713 37 29 15 82 44 64 169 29 47 114 24 59 452	24 213 11 7 32 9 13 57 7 22 28 3 17 142	6 105 7 1 9 5 3 26 2 5 20 3 4 66	2 45 4 7 1 3 9 2 10 3 3 3 2 3	3 29 - 3 5 1 6 3 4 3 2 2 2 16	2 71 5 7 7 29 3 7 4 5 40
Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Cleveland, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Grand Rapids, Micl Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Kans. Chinneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	34 30 473 33 128 116 91 132 45 44 U 132 45 44 U 0 102 33 43 38 93 U 545 U 21 33 948 48	24 25 257 82 81 576 32 30 41 1006 68 29 332 88 0 362 14 17 68 88 0 362 14 17 68 88 0 362 14 17 68 88 0 362 14 17 55 55 17 17 17 17 17 18 28 10 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10	7 5 14 10 32 20 24 9 8 U 32 8 22 1 4 7 14 U 8 U 4 6 10 6 29 U 3 6	66 2 11 8 11 24 3 3 U 5 24 4 5 1 2 1 6 U 4 U 5 6 2 13 U 2 - 13 U 2 - 12	2221426 · · U2811 · 222U 5U24316U225	2 - 1322223211- - U2241622223211- - 3U 15U111111 1108- 2	293375812U39481546U 3U11215U 3	Albuquerque, N.M. Colo. Springs, Colo. Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Dorg Beach, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Jose, Calif. San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	83 115 27 126 22 76 117 1,591 17 63 14 79 71 424 24 24 24 24 24 104 145 127 5 117 130 33 114 88 1	60 33 50 75 22 59 13 50 90 1,098 45 7 6 296 19 72 96 285 33 57 6,508	13 8 21 24 2 7 17 18 276 4 8 2 9 13 73 25 21 31 25 21 31 25 21 31 13 13 1,908	7 9 9 1 8 2 7 8 137 6 2 6 10 35 1 9 18 11 6 2 12 1 7 935	3 3 1 5 2 8 - 1 4 3 2 2 1 1 1 1 4 6 4 2 - 6 - 3 303	- 1 2 2 - 9 - 2 - 2 1 - 1 9 - 2 - 2 1 - 1 9 9 1 4 7 - 5 - 5 1 1 2 2 2 - 9 - 2 2 - 2 - - 9 - 2 2 - - - -	3 2 4 3 4 3 1 1 9 107 2 3 1 9 10 13 2 5 14 3 4 3 1 1 9 10 7 2 3 1 9 10 13 2 5 14 13 4 10 2 4 5 541

TABLE IV. Deaths in 121 U.S. cities,* week ending September 7, 1996 (36th Week)

U: Unavailable -: no reported cases *Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. *Pneumonia and influenza. *Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. *Total includes unknown ages.

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Desktop Publishing and Graphics Support

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