

MORBIDITY AND MORTALITY WEEKLY REPORT

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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. Schoolspecific incidence rates were highest at the high school annex ${ }^{\dagger}$ (five [4\%] of 127), a

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## 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.

## References

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## Measles Outbreak - Continued

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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.

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## 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 19891990, 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. ${ }^{\dagger}$ 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 NIOSHrecommended procedures (5).

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${ }^{\dagger} 42$ CFR 84.

## Foodborne Outbreak of Diarrheal IIIness 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: $1 / 2$ 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.
Reported by: JW Besser-Wiek, MS, J Forfang, MPH, CW Hedberg, PhD, JA Korlath, MPH, MT Osterholm, PhD, State Epidemiologist, Minnesota Dept of Health. CR Sterling, PhD, Univ of Arizona, Tucson. L Garcia, PhD, Univ of California at Los Angeles Medical Center. Div of Parasitic

Cryptosporidium parvum - Continued
Diseases, National Center for Infectious Diseases; Div of Applied Public Health Training (proposed), Epidemiology Program Office, CDC.
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
Beyond Historical Limits
*Ratio of current 4-week total to mean of 154 -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.

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

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

[^2]* Not notifiable in all states.
$\dagger$ Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).
§ Updated monthly to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention (NCHSTP), last update August 27, 1996.
IThree suspected cases of polio with onset in 1996 has been reported to date.
** Updated quarterly from reports to the Division of STD Prevention, NCHSTP.

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

| Reporting Area | AIDS* |  | Chlamydia <br> Cum. <br> 1996 | Escherichia coli 0157:H7 |  | Gonorrhea |  | Hepatitis C/NA,NB |  | Legionellosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NETSS $^{\dagger}$ <br> Cum. <br> 1996 | $\begin{gathered} \hline \text { PHLIS }^{\mathbf{5}} \\ \hline \text { Cum. } \\ 1996 \end{gathered}$ |  |  |  |  |  |  |
|  | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ |  |  | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1995 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1996 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ |
| 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 | 31 | 75 | 610 | 18 | - | 34 | 64 |  |  | 2 | 5 |
| N.H. | 58 | 70 | 397 | 27 | 26 | 80 | 77 | 7 | 12 | 1 | 1 |
| Vt. | 14 | 21 | U | 16 | 14 | 41 | 43 | 28 | 9 | 3 |  |
| Mass. | 873 | 999 | 4,621 | 117 | 10 | 1,511 | 1,806 | 39 | 62 | 16 | 11 |
| R.I. | 123 | 179 | 1,354 | 10 | - | 357 | 348 | 6 | 4 | 9 | 3 |
| Conn. | 750 | 1,039 | 4,739 | 48 | - | 2,915 | 2,794 | - | - | N | N |
| MID. ATLANTIC | 12,627 | 12,731 | 30,341 | 144 | 34 | 22,233 | 30,762 | 190 | 315 | 130 | 135 |
| Upstate N.Y. | 1,672 | 1,609 | N | 100 | 12 | 4,150 | 6,657 | 154 | 156 | 49 | 36 |
| N.Y. City | 7,052 | 6,551 | 15,097 | 8 | - | 7,762 | 12,169 | 1 | 1 | 5 | 4 |
| N.J. | 2,402 | 2,970 | 3,103 | 36 | 5 | 3,344 | 3,163 | - | 127 | 9 | 20 |
| Pa . | 1,501 | 1,601 | 12,141 | N | 17 | 6,977 | 8,773 | 35 | 31 | 67 | 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. | 462 | 379 | 6,692 | 51 | 34 | 4,330 | 6,448 | 7 | 2 | 31 | 56 |
| III. | 1,579 | 1,514 | 16,939 | 171 | 84 | 12,163 | 13,471 | 50 | 66 | 9 | 22 |
| Mich. | 570 | 713 | U | 65 | 53 | U | 12,539 | 229 | 144 | 31 | 23 |
| Wis. | 195 | 247 | 5,898 | N | 48 | 2,822 | 4,622 | - | - | 13 | 28 |
| W.N. CENTRAL | 1,060 | 1,077 | 19,547 | 341 | 196 | 8,589 | 13,822 | 87 | 63 | 31 | 54 |
| Minn. | 189 | 242 | 2,702 | 132 | 115 | U | 1,890 | 1 | 2 | 3 | 2 |
| Iowa | 69 | 55 | 2,705 | 84 | 55 | 680 | 983 | 39 | 12 | 8 | 17 |
| Mo. | 541 | 474 | 8,579 | 47 | - | 5,731 | 7,979 | 29 | 17 | 6 | 13 |
| N. Dak. | 10 | 4 | 2 | 10 | 12 | - | 21 | - | 5 | - | 3 |
| S. Dak. | 9 | 11 | 704 | 13 | - | 101 | 140 | - | 1 | 2 | 1 |
| Nebr. | 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 | 11,216 | 12,139 | 37,413 | 85 | 50 | 66,608 | 74,369 | 178 | 169 | 97 | 137 |
| Del. | 215 | 219 | 1,148 |  | 1 | 1,007 | 1,502 | 1 |  | 9 | 2 |
| Md. | 1,324 | 1,621 | 4,607 | N | 7 | 9,656 | 8,750 | 1 | 7 | 18 | 24 |
| D.C. | 799 | 739 | N | - | - | 3,099 | 3,121 | - | - | 8 | 4 |
| Va . | 795 | 961 | 7,521 | N | 21 | 6,410 | 7,647 | 10 | 10 | 13 | 18 |
| W. Va. | 83 | 75 | 1 | N | 2 | 350 | 470 | 9 | 41 | 1 | 3 |
| N.C. | 603 | 712 | - | 23 | 12 | 12,727 | 16,430 | 34 | 43 | 7 | 29 |
| S.C. | 586 | 673 | $7{ }^{-}$ | 7 | 7 | 7,747 | 8,333 | 21 | 16 | 4 | 28 |
| Ga. | 1,651 | 1,638 | 7,947 | 22 | - | 13,144 | 13,915 | U | 15 | 3 | 14 |
| Fla. | 5,160 | 5,501 | 16,189 | 23 | - | 12,468 | 14,201 | 102 | 37 | 34 | 15 |
| E.S. CENTRAL | 1,563 | 1,544 | 20,452 | 40 | 37 | 21,764 | 28,157 | 420 | 740 | 36 | 48 |
| Ky. | 272 | 196 | 4,548 | 7 | 4 | 2,860 | 3,260 | 20 | 23 | 3 | 9 |
| Tenn. | 580 | 636 | 9,042 | 19 | 30 | 7,869 | 9,582 | 320 | 715 | 18 | 23 |
| Ala. | 431 | 410 | 5,779 | 9 | 3 | 9,246 | 11,637 | 4 | 2 | 3 | 6 |
| Miss. | 280 | 302 | U | 5 | - | 1,789 | 3,678 | 76 | U | 12 | 10 |
| W.S. CENTRAL | 4,562 | 4,141 | 30,403 | 38 | 10 | 22,547 | 37,517 | 320 | 207 | 17 | 15 |
| Ark. | 186 | 186 | - | 11 | 3 | 2,451 | 3,607 | 7 | 5 | 1 | 5 |
| La. | 1,046 | 707 | 4,962 | 5 | 4 | 5,336 | 7,863 | 142 | 130 | 1 | 2 |
| Okla. | 189 | 194 | 5,327 | 8 | 1 | 3,385 | 3,758 | 69 | 33 | 5 | 3 |
| Tex. | 3,141 | 3,054 | 20,114 | 14 | 2 | 11,375 | 22,289 | 102 | 39 | 10 | 5 |
| MOUNTAIN | 1,325 | 1,466 | 11,203 | 123 | 63 | 5,021 | 6,461 | 410 | 327 | 29 | 87 |
| Mont. | 23 | 16 | 1,203 | 13 | - | 24 | 51 | 12 | 11 | 1 | 4 |
| Idaho | 29 | 37 | 1,073 | 26 | 6 | 78 | 107 | 92 | 43 | - | 2 |
| Wyo. | 3 | 10 | 402 | - | 2 | 24 | 39 | 132 | 131 | 3 | 8 |
| Colo. | 362 | 493 | - | 50 | 30 | 1,077 | 1,975 | 39 | 50 | 7 | 33 |
| N. Mex. | 118 | 123 | 2,633 | 7 | - | 564 | 716 | 54 | 37 | 1 | 4 |
| Ariz. | 370 | 390 | 4,541 | N | 17 | 2,524 | 2,502 | 51 | 30 | 13 | 7 |
| Utah | 127 | 98 | 1,035 | 17 |  | 199 | 163 | 21 | 10 | 2 | 12 |
| Nev. | 293 | 299 | 1,519 | 10 | 8 | 531 | 908 | 9 | 15 | 2 | 17 |
| PACIFIC | 7,597 | 8,109 | 41,807 | 202 | 136 | 13,830 | 19,117 | 299 | 594 | 41 | 81 |
| Wash. | 508 | 662 | 6,455 | 64 | 42 | 1,411 | 1,830 | 41 | 152 | 5 | 18 |
| Oreg. | 339 | 298 | U | 56 | 35 | 398 | 533 | 6 | 33 | - | - |
| Calif. | 6,594 | 6,914 | 30,042 | 79 | 50 | 11,484 | 15,873 | 106 | 381 | 32 | 58 |
| Alaska | 23 | 53 | 776 | 3 | 2 | 282 | 465 | 2 | 1 | 1 | - |
| Hawaii | 133 | 182 | 872 | N | 7 | 255 | 416 | 144 | 27 | 3 | 5 |
| Guam | 4 | - | 168 | N | - | 31 | 79 | 1 | 5 | 2 | 1 |
| P.R. | 1,524 | 1,828 | N | 13 | U | 210 | 416 | 77 | 168 | - | - |
| V.I. | 17 | 27 | N | N | U | - | - | - | - | - | - |
| Amer. Samoa | - | - | - | N | U | $\stackrel{-}{-}$ | 18 | - | - | - | - |
| C.N.M.I. | 1 | - | N | N | U | 11 | 41 | - | 5 | - | - |
| N : Not notifiable | U: Un | ailable | -: no rep | orted cas |  | N.M.I.: C | monweatr | of No | ern Ma | Island |  |
| ${ }^{*}$ Updated monthly <br> ${ }^{\dagger}$ National Electron <br> ${ }^{\S}$ Public Health Lab | the Divis Telecom ratory In | on of H unicatio mation | V/AIDS Preve s System for System. | ntion, Nat Surveilla | nal Cent ce. | for HIV, | D, and | Preve | , last | te Aug | 27, 19 |

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

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

N : Not notifiable

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

| Reporting Area | H. influenzae, invasive |  | Hepatitis (viral), by type |  |  |  | Measles (Rubeola) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A |  | B |  | Indigenous |  | Imported $^{\dagger}$ |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \text { 1996* } \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | 1996 | $\begin{aligned} & \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | 1996 | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ |
| 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. | 8 | 8 | 11 | 8 | 10 | 17 | - | - | - | - |
| Vt. | 1 | 2 | 6 | 4 | 10 | 4 | - | 1 | - | 1 |
| Mass. | 11 | 10 | 129 | 78 | 43 | 60 | - | 8 | - | 3 |
| R.I. | 2 | 3 | 13 | 24 | 9 | 8 | - | - | - | - |
| Conn. | - | 6 | 75 | 55 | 65 | 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 | 25 | 27 | 399 | 591 | 425 | 306 | - | 9 | - | 3 |
| N.J. | 39 | 13 | 231 | 171 | 171 | 250 | - | - | - | - |
| Pa. | 25 | 43 | 154 | 159 | 101 | 147 | - | 11 | - | 2 |
| E.N. CENTRAL | 122 | 142 | 1,547 | 2,295 | 683 | 781 | - | 5 | - | 4 |
| Ohio | 74 | 73 | 571 | 1,285 | 91 | 82 | - | 2 | - | - |
| Ind. | 7 | 18 | 228 | 124 | 114 | 149 | U | - | U | - |
| III. | 29 | 33 | 336 | 474 | 170 | 205 | - | 2 | - | 1 |
| Mich. | 7 | 16 | 299 | 261 | 262 | 291 | - | - | - | 3 |
| Wis. | 5 | 2 | 113 | 151 | 46 | 54 | - | 1 | - | - |
| W.N. CENTRAL | 38 | 55 | 1,585 | 1,359 | 302 | 456 | 3 | 21 | - | 2 |
| Minn. | 23 | 28 | 90 | 126 | 40 | 36 | 2 | 16 | - | 2 |
| Iowa | 5 | 3 | 260 | 63 | 66 | 34 | - | - | - | - |
| Mo. | 6 | 17 | 747 | 983 | 145 | 324 | 1 | 4 | - | - |
| N. Dak. | - | - | 75 | 22 | 2 | 4 | - | - | - | - |
| S. Dak. | 1 | 1 | 41 | 37 | 3 | 2 | - | - | - | - |
| Nebr. | 1 | 3 | 151 | 37 | 21 | 23 | U | - | U | - |
| Kans. | 2 | 3 | 221 | 91 | 25 | 33 | - | 1 | - | - |
| S. ATLANTIC | 184 | 161 | 872 | 771 | 1,029 | 884 | - | 6 | - | 8 |
| Del. | 2 | - | 11 | 8 | 6 | 6 | - | 1 | - | - |
| Md. | 47 | 55 | 145 | 152 | 216 | 179 | - | 2 | - | 2 |
| D.C. | 5 |  | 22 | 18 | 28 | 15 | - | - | - | - |
| Va . | 6 | 21 | 117 | 138 | 98 | 81 | - | - | - | 2 |
| W. Va. | 6 | 6 | 13 | 17 | 18 | 40 | - | - | - | - |
| N.C. | 22 | 25 | 101 | 80 | 253 | 203 | U | 3 | U | 1 |
| S.C. | 4 | 1 | 42 | 35 | 61 | 37 | - | - |  |  |
| Ga . | 73 | 48 | 87 | 51 | 8 | 62 | - | - | - | 2 |
| Fla. | 19 | 5 | 334 | 272 | 341 | 261 | - | - | - | 1 |
| E.S. CENTRAL | 21 | 8 | 990 | 1,231 | 570 | 612 | 1 | 1 | - | - |
| Ky. | 4 | 2 | 22 | 35 | 38 | 54 | - | - | - | - |
| Tenn. | 8 | - | 667 | 1,019 | 332 | 481 | 1 | 1 | - | - |
| Ala. | 8 | 5 | 139 | 63 | 46 | 77 | - | - | - | - |
| Miss. | 1 | 1 | 162 | 114 | 154 | - | - | - | - | - |
| W.S. CENTRAL | 31 | 49 | 3,741 | 2,488 | 829 | 865 | 1 | 26 | - | 2 |
| Ark. | 3 | 5 | 351 | 350 | 54 | 41 | - | 2 | - | 2 |
| La. | 3 | 1 | 109 | 82 | 84 | 148 | - | - | - | - |
| Okla. | 25 | 20 | 1,619 | 672 | 59 | 118 | - | ${ }^{-}$ | - | - |
| Tex. | 3 | 23 | 1,662 | 1,384 | 632 | 558 | 1 | 26 | - | 2 |
| MOUNTAIN | 78 | 90 | 2,912 | 2,857 | 746 | 582 | - | 152 | - | 5 |
| Mont. | - | - | 82 | 76 | 7 | 19 | - | - | - | - |
| Idaho | 1 | 2 | 154 | 239 | 70 | 70 | - | 1 | - | - |
| Wyo. | 35 | 5 | 26 | 85 | 33 | 17 | - | 1 | - | - |
| Colo. | 11 | 13 | 321 | 358 | 97 | 85 | - | 4 | - | 3 |
| N. Mex. | 9 | 12 | 282 | 594 | 254 | 218 | - | 16 | - | - |
| Ariz. | 9 | 22 | 1,216 | 818 | 185 | 87 | - | 8 | - | - |
| Utah | 7 | 9 | 665 | 526 | 69 | 48 | - | 117 | - | 2 |
| Nev. | 6 | 27 | 166 | 161 | 31 | 38 | - | 5 | - | - |
| PACIFIC | 172 | 158 | 5,187 | 7,131 | 1,178 | 1,508 | 1 | 147 | - | 4 |
| Wash. | 2 | 8 | 335 | 584 | 65 | 133 | - | 45 | - | - |
| Oreg. | 22 | 22 | 594 | 1,851 | 50 | 90 | - | 4 | - | - |
| Calif. | 144 | 123 | 4,173 | 4,539 | 1,045 | 1,263 | - | 33 |  | 2 |
| Alaska | 2 | 1 | 32 | 31 | 10 | 10 | U | 63 | U | - |
| Hawaii | 2 | 4 | 53 | 126 | 8 | 12 | 1 | 2 | - | 2 |
| Guam | - | - | 2 | 6 | - | 4 | U | - | U | - |
| P.R. | 1 | 3 | 80 | 74 | 261 | 445 | U | 6 | U | - |
| V.I. |  |  |  | 6 | - | 13 | U | - | U | - |
| Amer. Samoa | 0 | 1 | 1 | 5 | - | - | U | - | U | - |
| C.N.M.I. | 10 | 11 | 1 | 22 | 5 | 16 | U | - | U | - |
| N : Not notifiable | U: Unav |  | report |  |  |  |  |  |  |  |

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)

| Reporting Area | Measles (Rubeola), cont'd. <br> Total |  | Mumps |  |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | 1996 | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | 1996 | $\begin{gathered} \hline \text { Cum. } \\ 1996 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | 1996 | $\begin{aligned} & \hline \text { Cum. } \\ & 1996 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ |
| 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 |  | - | - | - | 4 | - | 19 | 21 | - | - | - |
| N.H. | - | - | - | - | 1 | 2 | 66 | 28 | - | - | 1 |
| V t. | 2 | - | - | - | - | 3 | 41 | 56 | - | 2 | - |
| Mass. | 11 | 2 | - | 1 | 2 | - | 485 | 258 | - | 20 | 7 |
| R.I. | - | 5 | - | - | 1 | 12 | 25 | 2 | - | - | - |
| Conn. | 1 | 1 | - | - | 3 | - | 19 | 13 | - | 3 | 36 |
| MID. ATLANTIC | 25 | 12 | 1 | 60 | 91 | 14 | 242 | 224 | - | 8 | 12 |
| Upstate N.Y. | 25 | 1 | - | 19 | 23 | 9 | 129 | 105 | - | 4 | 3 |
| N.Y. City | 12 | 5 | - | 14 | 13 | - | 22 | 35 | - | 2 | 7 |
| N.J. | - | 6 | - | 2 | 14 | - | 5 | 16 | - | 2 | 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. | - | - | U | 6 | 7 | U | 31 | 21 | U | - | - |
| III. | 3 | 2 | - | 19 | 30 | 5 | 96 | 65 | - | 1 | - |
| Mich. | 3 | 5 | - | 20 | 34 |  | 26 | 55 | - | 2 | 3 |
| Wis. | 1 | 6 | - | 1 | , | - | 5 | 96 | - | - | - |
| W.N. CENTRAL | 23 | 2 | 2 | 12 | 36 | 35 | 208 | 139 | - | 1 | - |
| Minn. | 18 | - | 2 | 5 | 2 | 29 | 157 | 42 | - | - | - |
| lowa | - | - | - | 1 | 9 | - | 9 | 7 | - | 1 | - |
| Mo. | 4 | 1 | - | 3 | 20 | 5 | 27 | 45 | - | - | - |
| N. Dak. | - | - | - | 2 | 1 |  | 1 | 8 | - | - | - |
| S. Dak. | - | - | - | - | - | 1 | 4 | 10 | - | - | - |
| Nebr. | - | - | U | - | 4 | U | 6 | 8 | U | - | - |
| Kans. | 1 | 1 | - | 1 | - | - | 4 | 19 | - | - | - |
| S. ATLANTIC | 14 | 11 | - | 76 | 88 | 13 | 376 | 235 | - | 91 | 9 |
| Del. | 1 | - | - |  |  | - | 11 | 9 | - | , | - |
| Md. | 4 | 1 | - | 21 | 27 | 5 | 132 | 31 | - | - | 1 |
| D.C. | - | - | - | - | - | - | - | 4 | - | 1 | - |
| Va . | 2 | - | - | 12 | 17 | 4 | 43 | 15 | - | 2 | - |
| W. Va. | - | - | - |  |  |  | 2 |  | - |  | - |
| N.C. | 4 | - | U | 17 | 16 | U | 75 | 84 | U | 77 | 1 |
| S.C. | - | - | - | 5 | 9 | 1 | 26 | 20 | - | 1 | - |
| Ga. | 2 | 2 | - | 2 | 6 |  | 17 | 18 | - | - | - |
| Fla. | 1 | 8 | - | 19 | 13 | 3 | 70 | 54 | - | 10 | 7 |
| E.S. CENTRAL | 1 | - | - | 19 | 7 | 4 | 67 | 255 | - | 2 | 1 |
| Ky. | - | - | - |  |  | - | 26 | 17 | - | - | - |
| Tenn. | 1 | - | - | 1 | - | , | 17 | 203 | - | - | 1 |
| Ala. | - | - | - | 3 | 4 | 4 | 16 | 34 | - | 2 | - |
| Miss. | - | - | - | 15 | 3 | - | 8 | 1 | N | N | N |
| W.S. CENTRAL | 28 | 23 | 3 | 23 | 39 | 5 | 77 | 213 | 1 | 3 | 7 |
| Ark. | 2 | 2 | 3 | 1 | 6 | 3 | 7 | 29 | - |  | - |
| La. | - | 18 | - | 12 | 8 | - | 7 | 12 | - | 1 | - |
| Okla. | - | - | - | - | - | - | 8 | 20 | - | - | - |
| Tex. | 28 | 3 | 3 | 10 | 25 | 2 | 55 | 152 | 1 | 2 | 7 |
| MOUNTAIN | 157 | 68 | - | 22 | 26 | 24 | 294 | 459 | - | 6 | 4 |
| Mont. |  | - | - | - | 1 |  | 17 | 3 | - | - | - |
| Idaho | 1 | - | - | - | 2 | 4 | 98 | 87 | - | 2 | - |
| Wyo. | 1 | - | - | - | - | 1 | 5 | 1 | - | - | - |
| Colo. | 7 | 26 | - | 2 | 1 | 9 | 77 | 68 | - | 2 | - |
| N. Mex. | 16 | 31 | N | N | N | 3 | 42 | 78 | - | - | - |
| Ariz. | 8 | 10 | N | 1 | 2 | 7 | 22 | 153 | - | 1 | 3 |
| Utah | 119 | - | - | 2 | 11 | - | 11 | 18 | - | , | 1 |
| Nev. | 5 | 1 | - | 17 | 9 | - | 22 | 51 | - | 1 | , |
| PACIFIC | 151 | 128 | 4 | 153 | 200 | 140 | 921 | 500 | 1 | 54 | 25 |
| Wash. | 45 | 19 | - | 18 | 10 | 110 | 413 | 121 | - | 2 | 1 |
| Oreg. | 4 | 1 | , | - | - | - | 29 | 37 | , | 1 | - |
| Calif. | 35 | 106 | 2 | 111 | 171 | 30 | 458 | 300 | 1 | 48 | 19 |
| Alaska | 63 | - | U | 2 | 12 | U | 2 | - | U | - | - |
| Hawaii | 4 | 2 | 2 | 22 | 7 | - | 19 | 42 | - | 3 | 5 |
| Guam | - | - | U | 5 | 3 | U | 1 | 2 | U | - | 1 |
| P.R. | 6 | 3 | U | 1 | 2 | U | 1 | 1 | U | - | 1 |
| V.I. |  | - | U |  | 3 | U |  | , | U | - | - |
| Amer. Samoa | - | - | U | - | - | U | - | - | U | - | - |
| C.N.M.I. | - | - | U | - | - | U | - | - | U | - | - |

N : Not notifiable

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

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\mathbf{P} \& \mathbf{I}^{\dagger}$Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | >65 | 45-64 | 25-44 | 1-24 | <1 |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | >65 | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 549 | 391 | 80 | 44 | 20 | 14 | 32 | S. ATLANTIC | 951 | 586 | 200 | 120 | 31 | 13 | 54 |
| Boston, Mass. | 152 | 106 | 21 | 12 | 8 | 5 | 10 | Atlanta, Ga. | 116 | 53 | 31 | 23 | 7 | 2 | 3 |
| Bridgeport, Conn. | 38 | 28 | 4 | 4 | 2 |  | 4 | Baltimore, Md. | 126 | 73 | 23 | 23 | 6 | 1 | 12 |
| Cambridge, Mass. | 24 | 17 | 7 |  |  |  | 2 | Charlotte, N.C. | 83 | 51 | 20 | 9 | 1 | 2 | 9 |
| Fall River, Mass. | 29 | 26 | 1 | 2 |  |  | - | Jacksonville, Fla. | 84 | 52 | 19 | 10 | 3 | - | 1 |
| Hartford, Conn. | 38 | 23 | 4 | 4 | 4 | 3 | 1 | Miami, Fla. | 98 | 63 | 20 | 10 | 4 | 1 |  |
| Lowell, Mass. | 21 | 20 |  | 1 |  |  | 1 | Norfolk, Va. | 48 | 32 | 10 | 4 | 1 | 1 | 5 |
| Lynn, Mass. | 13 | 8 | 3 | 1 | 1 |  | 1 | Richmond, Va. | U | U | U | U | U | U | U |
| New Bedford, Mass. | 24 | 17 | 2 | 5 |  |  | - | Savannah, Ga. | 56 | 43 | 7 | 3 | 1 | 1 | 4 |
| New Haven, Conn. | 31 | 21 | 4 | 1 | 2 | 3 | 1 | St. Petersburg, Fla. | 38 | 32 |  | 3 | 2 | - | 1 |
| Providence, R.I. | 48 | 37 | 6 | 4 | 1 | - | 2 | Tampa, Fla. | 124 | 91 | 23 | 5 | 2 | 3 | 14 |
| Somerville, Mass. | 5 | 1 | 3 | 1 | - | $\overline{-}$ |  | Washington, D.C. | 153 | 81 | 42 | 24 | 4 | 2 | 2 |
| Springfield, Mass. | 36 | 23 | 9 | 1 | 2 | 1 | 3 | Wilmington, Del. | 25 | 15 | 4 | 6 | - | - | 3 |
| Waterbury, Conn. | 36 | 24 | 7 | 5 | - | - | 3 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 54 | 40 | 9 | 3 | - | 2 | 4 | E.S. CENTRAL <br> Birmingham, Ala. | $\begin{array}{r} 615 \\ 83 \end{array}$ | 405 49 | $\begin{array}{r} 133 \\ 17 \end{array}$ | 45 10 | 17 | 14 4 | 27 4 |
| MID. ATLANTIC | 2,138 | 1,416 | 439 | 202 | 43 | 37 | 97 | Chattanooga, Tenn. | 58 | 45 | 7 | 4 | 1 | 1 | 6 |
| Albany, N.Y. | 43 | 25 | 9 | 3 | - | 6 | 1 | Knoxville, Tenn. | 50 | 37 | 10 | 3 | - | - |  |
| Allentown, Pa. | 35 | 30 | 3 | 2 |  |  | - | Lexington, Ky. | 57 | 38 | 11 | 4 | - | 3 | 5 |
| Buffalo, N.Y. | 90 | 65 | 20 | 3 | 1 | 1 | 2 | Memphis, Tenn. | 166 | 108 | 41 | 11 | 5 | 1 | 7 |
| Camden, N.J. | 27 | 19 | 4 | 2 | 2 | - | 2 | Mobile, Ala. | 52 | 30 | 16 | 2 | 3 | 1 | 1 |
| Elizabeth, N.J. | 16 | 14 | 1 | 1 | - |  | - | Montgomery, Ala. | 56 | 40 | 7 | 5 | 3 | 1 | 2 |
| Erie, Pa.§ | 32 | 28 | 2 | 1 | 1 | $\overline{-}$ | 1 | Nashville, Tenn. | 93 | 58 | 24 | 6 | 2 | 3 | 2 |
| Jersey City, N.J. | 58 | 31 | 11 | 13 | - | 3 | 2 |  |  |  |  |  |  |  |  |
| New York City, N.Y. | 1,118 | 743 | 230 | 113 | 17 | 15 | 47 | W.S. CENTRAL Austin, Tex. | 1,105 59 | 713 37 | 213 | 105 7 | 45 4 | 29 |  |
| Newark, N.J. | 76 | 22 | 33 | 15 | 4 | 2 | 6 | Austin, Tex. Baton Rouge, La. | 59 37 | 37 29 | 11 7 | 1 | 4 | - | 5 |
| Paterson, N.J. | 14 | 9 | 2 | 2 | 1 |  |  | Baton Rouge, La. Corpus Christi, Tex. | 37 22 | 29 15 | 7 | 1 | - | - | 1 |
| Philadelphia, Pa. | 300 | 172 | 77 | 30 | 13 | 7 | 14 | Corpus Christi, Tex. Dallas, Tex. | 143 | 82 | 7 3 | 19 | 7 | 3 | 1 3 |
| Pittsburgh, Pa.§ | 46 | 38 | 6 | 1 | 1 | - | 3 | Dallas, Tex. El Paso, Tex. | 143 | 82 | 32 9 | 19 5 | 7 | 3 | 3 |
| Reading, Pa. | 7 | 5 | 1 |  | 1 | $\overline{-}$ |  | El Paso, Tex. Ft. Worth, Tex. | 64 84 | 44 64 | 13 | 5 3 | 1 3 | 1 | 7 |
| Rochester, N.Y. | 127 | 98 | 21 | 7 | - | 1 | 10 | Ft. Worth, Tex. Houston, Tex. | 84 267 | 64 169 | 13 57 | 26 | 9 | 6 | 29 |
| Schenectady, N.Y. | 21 | 16 | 4 | 1 | - |  | 2 | Houston, Tex. Little Rock, Ark. | 267 43 | 169 29 | 57 | 2 | 9 | 6 3 | 29 3 |
| Scranton, Pa.§ Syracuse, N.Y. | 24 | 18 | 4 | 2 3 | 2 |  | 2 | Little Rock, Ark. | 98 | 47 | 22 | 15 | 10 | 4 | 3 |
| Syracuse, N.Y. Trenton, N.J. | 65 19 | 51 14 | 7 | 3 3 | 2 | 2 | 4 | New Orleans, La. | 168 | 114 | 28 | 20 | 3 | 3 |  |
| Trenton, N.J. Utica, N.Y. | 19 | 14 | 2 | 3 | - |  | 2 | San Antonio, ${ }^{\text {Sex. }}$ Shreveport, La. | 168 35 | 114 24 | 28 | 20 | 3 3 | 2 | 4 |
| Utica, N.Y. <br> Yonkers, N.Y. | $\stackrel{20}{\cup}$ | 18 | $\stackrel{2}{\cup}$ | U | U | U | U | Tulsa, Okla. | 85 | 59 | 17 | 4 | 3 | 2 | 5 |
| E.N. CENTRAL | 1,702 | 1,085 | 337 | 176 | 56 | 47 | 100 | MOUNTAIN | 699 | 452 | 142 | 66 | 23 | 16 | 40 |
| Akron, Ohio | 34 | 24 | 7 | - | 1 | 2 | - | Albuquerque, N.M. | 83 | 60 | 13 | 7 | 3 | - | 3 |
| Canton, Ohio | 30 | 25 | 5 | - | - | - | 2 | Colo. Springs, Colo. | 50 | 33 | 8 | 5 | 3 | 1 | 2 |
| Chicago, III. | 473 | 257 | 114 | 66 | 22 | 13 | 29 | Denver, Colo. | 83 | 50 | 21 | 9 | 1 | 2 | 14 |
| Cincinnati, Ohio | 33 | 17 | 10 | 2 | 2 | 2 | 3 | Las Vegas, Nev. | 115 | 75 | 24 | 9 | 5 | 2 | 3 |
| Cleveland, Ohio | 128 | 82 | 32 | 11 | 1 | 2 | 3 | Ogden, Utah | 27 | 22 | 2 |  | 2 | - | 4 |
| Columbus, Ohio | 116 | 81 | 21 | 8 | 4 | 2 | 7 | Phoenix, Ariz. | 126 | 59 | 32 | 18 | 8 | 9 | 3 |
| Dayton, Ohio | 91 | 55 | 20 | 11 | 2 | 3 | 5 | Pueblo, Colo. | 22 | 13 | 7 | 2 | - | - | 1 |
| Detroit, Mich. | 132 | 76 | 24 | 24 | 6 | 2 | 8 | Salt Lake City, Utah | 76 | 50 | 17 | 7 | - | 2 |  |
| Evansville, Ind. | 45 | 32 | 9 | 3 | - | 1 | 1 | Tucson, Ariz. | 117 | 90 | 18 | 8 | 1 | - | 9 |
| Fort Wayne, Ind. | 44 | 33 | 8 | 3 | - | , | 2 | PACIFIC | 1,591 | 1,098 | 276 | 137 | 43 | 37 | 107 |
| Gary, Ind. | U | U | U | U | U | U | U | Berkeley, Calif. | 1,51 | 12 | 4 | 1 | - | - | 2 |
| Grand Rapids, Mich. | 53 | 41 | 3 | 5 | 2 | 2 | 3 | Fresno, Calif. | 63 | 45 | 8 | 6 | 2 | 2 | 3 |
| Indianapolis, Ind. | 164 | 100 | 28 | 24 | 8 | 4 | 9 | Glendale, Calif. | 14 | 7 | 2 | 2 | 2 | 1 | 1 |
| Madison, Wis. | 50 | 36 | 8 | 4 | 1 | 1 | 4 | Honolulu, Hawaii | 79 | 63 | 9 | 6 | 1 | - | 9 |
| Milwaukee, Wis. | 102 | 68 | 22 | 5 | 1 | 6 | 8 | Long Beach, Calif. | 71 | 46 | 13 | 10 | 1 | 1 | 10 |
| Peoria, III. | 33 | 29 | 1 | 1 | - | 2 | 1 | Los Angeles, Calif. | 424 | 296 | 73 | 35 | 11 | 9 | 13 |
| Rockford, III. | 43 | 33 | 4 | 2 | 2 | 2 | 5 | Pasadena, Calif. | 24 | 19 | 2 | 1 | 1 | 1 | 2 |
| South Bend, Ind. | 38 | 28 | 7 | 1 | 2 | 3 | 4 | Portland, Oreg. | 104 | 72 | 15 | 9 | 4 | 4 | 5 |
| Toledo, Ohio | 93 | 68 | 14 | 6 | 2 | 3 | 6 | Sacramento, Calif. | 145 | 83 | 31 | 18 | 6 | 7 | 14 |
| Youngstown, Ohio | U | U | U | U | U | U | U | San Diego, Calif. | 127 | 87 | 25 | 11 | 4 | - | 13 |
| W.N. CENTRAL | 545 | 362 | 88 | 40 | 25 | 15 | 13 | San Francisco, Calif. | 117 | 79 | 28 | 10 | - | 5 | 14 |
| Des Moines, lowa | U | U | U | U | U | U | U | San Jose, Calif. | 130 33 | 96 | 21 | 6 | 2 | 5 | 10 |
| Duluth, Minn. | 21 | 14 | 4 | - | 2 | 1 | 1 | Santa Cruz, Calif. | 33 | 28 | 3 | 2 | 6 | 5 | 2 |
| Kansas City, Kans. | 33 | 17 | 6 | 5 | 4 | 1 | 1 | Seattle, Wash. | 114 48 | 75 33 | 16 | 12 | 6 | 5 |  |
| Kansas City, Mo. | 98 | 63 | 10 | 6 | 3 | 1 | 2 | Tacoma, Wash. | 81 | 57 | 13 | 7 | 3 | 1 | 4 5 |
| Lincoln, Nebr. | 46 | 36 | 6 | 2 | 1 |  | 1 |  |  |  |  |  |  |  |  |
| Minneapolis, Minn. | 137 | 88 | $\stackrel{29}{U}$ | 13 | 6 | 1 | 5 | TOTAL | 9,895 ${ }^{\text {¹ }}$ | 6,508 | 1,908 | 935 | 303 | 222 | 541 |
| Omaha, Nebr. St. Louis, Mo. | U | U | U | U | U | U | U |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 36 | 28 | 6 | - | 2 |  | 3 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 86 | 53 | 14 | 12 | 5 | 2 | - |  |  |  |  |  |  |  |  |

*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.
${ }^{\dagger}$ Pneumonia and influenza.
${ }^{\S}$ 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.
TTotal includes unknown ages.

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[^0]:    *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 $\geq 3$ days; a temperature $\geq 101 \mathrm{~F}(\geq 38.3 \mathrm{C}$ ); 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.
    ${ }^{\dagger}$ A separate building with a small number of students.

[^1]:    *Use of trade names and commercial sources is for identifcation only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

[^2]:    -: no reported cases

