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Topics in Minority Health

MORBIDITY AND MORTALITY WEEKLY REPORT

## Lead Poisoning Associated with Use of Traditional Ethnic Remedies — California, 1991–1992

Exposure to lead-based paint is the leading cause of high-dose lead exposure among children in the United States. However, previous reports have documented childhood lead poisoning related to the use of traditional ethnic remedies (1-4), and such exposures may not be considered routinely. This article describes a case report of lead poisoning resulting from use of a traditional ethnic remedy and summarizes the identification of this problem as a result of lead poisoning surveillance in California from December 1991 through December 1992.

## **Case Report**

In March 1992, a 2-year-old boy of Mexican origin was tested for lead poisoning as part of a routine well-child examination in Los Angeles. His blood lead level (BLL) was  $83 \mu g/dL$ , a level classified by CDC as a medical emergency. The child had no apparent clinical manifestations, and his mother was unaware of obvious sources of lead exposure, including traditional ethnic remedies. However, when the term "greta" (a traditional Mexican remedy employed as a laxative) was used in the interview, the mother acknowledged giving the boy this remedy regularly since he was 8 months of age.

## Analysis of Surveillance in California

From December 1, 1991, through December 31, 1992, the California Department of Health Services received reports of 40 cases of BLLs  $\geq$ 20 µg/dL in children who had received traditional ethnic remedies (Table 1). BLLs ranged from 20 µg/dL to 86 µg/dL (median: 33 µg/dL). Ages of the children ranged from 8 months to 5 years (median: 2 years). Of the 36 children for whom sex was known, 27 (75%) were male. Of the 37 children with known surnames, 33 (89%) had Hispanic surnames; two (5%), Asian/ Pacific Islander; and two (5%), Asian Indian. More than half (57%) of the children resided in southern California, 24% in the San Francisco Bay area, 12% in the Central Valley, and 7% in rural northern California. By comparison, 72% of all publicly funded

	Description/	No.			Age o pat	f index ient	Ma BLL	<b>ximum</b> (μg <i>l</i> dL)	
emedy (Area where Dosage/Administra sed)/Use on		amples	Lead content	No. cases	Median	(Range)	Media	n (Range)	Symptoms
Azarcon (Mexico)—Used for digestive problems	Bright orange powder. Usually $\frac{1}{4}$ -1 teaspoon, often mixed with oil, milk, or sugar. Sometimes given as a tea. Sometimes a pinch is added to a baby bottle or tortilla dough for preventive purposes.	2	76%– 86%	22	2 yrs	(8 mos– 5 yrs)	33	(21–64)	<ul> <li>55% had n</li> <li>symptoms.</li> <li>23% had symptom</li> <li>including irritabilitidiarrhea, abdomin</li> <li>pain, or vomiting.</li> <li>22% had unknow</li> <li>symptoms.</li> </ul>
Greta (Mexico)–Used fo digestive problems	rYellow-orange powder. Same dosage and administration as above.	3	4%-90%	14	2 yrs	(1–5 yrs)	33	(20–83)	•57% had results of the symptoms. •43% had symptom including loss appetite, vomitin abdominal pai headache, irritabili and muscle soreness.

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childhood blood lead screening tests were performed in southern California, 11% in the Bay area, 14% in the Central Valley, and 3% in rural northern California.

Of the 40 children, 24 were asymptomatic; of these, five had BLLs >50  $\mu$ g/dL, including two in whom the BLL was >80  $\mu$ g/dL. For 36 of the 40 cases, the traditional remedies reported were the Hispanic remedies azarcon or greta. Other remedies were paylooah (Southeast Asia, two cases), surma (India, one case), and an unnamed ayurvedic substance from Tibet (one case). In many cases, family members initially denied remedy use but reported such use during subsequent case follow-up efforts.

Results of environmental investigations were available for 18 of the 40 children. For seven of these children, investigators identified other environmental lead sources at levels that probably contributed to the exposures. These sources included paint (levels >5000 parts per million [ppm], maximum of 150,000 ppm), bean pots or other large hollowware (leaching >1 ppm lead), and soil (lead levels above 500 ppm).

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Editorial Note: In this report, more than half the children had clinically inapparent cases of lead poisoning; nearly all were identified as a result of routine screening of children that had been initiated in California in late November 1991. All of these children had BLLs that substantially exceeded the CDC level of concern (10  $\mu$ g/dL) (5). Investigation of these cases resulted in the recognition that traditional ethnic medicines may be used not only to treat abdominal complaints but also to prevent illness.

Although neurobehavioral development may be impaired in children with BLLs as low as 10  $\mu$ g/dL (6–8), overt manifestations of lead poisoning generally may not be detected until BLLs exceed 50  $\mu$ g/dL (9). Frank encephalopathy has been noted in children with levels as low as 70  $\mu$ g/dL (10). The detection of BLLs >50  $\mu$ g/dL in children who were asymptomatic underscores the role of screening as a means for identifying children with dangerous levels of lead exposure.

The reluctance of family members to report the use of traditional ethnic medicines during initial interviews may reflect factors such as uncertainty about the legality of using such medicines, belief in the effectiveness of these remedies, and concerns regarding responsibility for the child's elevated BLL. In addition, because some persons may not consider these substances to be "remedies" or "medicines," health-care providers and public health investigators should ask about the use of these substances by their common names.

The finding of additional sources of lead probably contributing to exposure in seven cases underscores the importance of searching for all possible sources of lead exposure in cases of lead poisoning. Health professionals serving communities with

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high-risk populations should be aware of these high-dose sources of lead exposure. Education of parents about the risks of administering lead-containing substances to their children should be a routine part of health-care maintenance in such high-risk groups or settings.

### References

- 1. CDC. Use of lead tetroxide as a folk remedy for gastrointestinal illness. MMWR 1981;30:546-7.
- 2. CDC. Lead poisoning from Mexican folk remedies—California. MMWR 1983;32:554-5.
- 3. CDC. Folk remedy-associated lead poisoning in Hmong children—Minnesota. MMWR 1983; 32:555–6.
- 4. CDC. Lead poisoning-associated death from Asian Indian folk remedies—Florida. MMWR 1984;33:638,643–5.
- 5. CDC. Preventing lead poisoning in young children: a statement by the Centers for Disease Control, October 1991. Atlanta: US Department of Health and Human Services, Public Health Service, 1991.
- 6. Bellinger DC, Stiles KM, Needleman HL. Low-level exposure, intelligence and academic achievement: a long-term follow-up study. Pediatrics 1992;90:855–61.
- 7. Baghurst PA, McMichael AJ, Wigg NR, et al. Environmental exposure to lead and children's intelligence at the age of seven years. N Engl J Med 1992;327:1279–84.
- Dietrich KN, Berger OG, Succop PA, et al. Thedevelopmental consequences of low to moderate prenatal and postnatal lead exposure: intellectual attainment in the Cincinnati lead study cohort following school entry. Neurotoxicol Teratol 1993;15:37–44.
- 9. Piomelli S, Rosen JF, Chisolm JJ Jr, Graef JW. Management of childhood lead poisoning. J Pediatr 1984;105:523–32.
- 10. Chisolm JJ Jr. Chelation therapy in children with subclinical plumbism. Pediatrics 1974; 53:441–3.

## Epidemiologic Notes and Reports

## Malaria Among U.S. Military Personnel Returning from Somalia, 1993

U.S. military personnel were first deployed to Somalia in late December 1992 as part of Operation Restore Hope. From the time of deployment through April 1993, malaria was diagnosed in 48 personnel who had onset of illness while in Somalia. In addition, through late June, malaria was diagnosed in 83 military personnel following their return from Somalia. This substantial number of cases has reinforced concerns regarding malaria prophylaxis, the estimated risk for infection, and the need for prompt recognition and treatment of malaria in military personnel. This report summarizes the occurrence of malaria in returning personnel and underscores for health-care providers the importance of considering malaria in the diagnostic evaluation of military personnel returning from Somalia and in other persons who have traveled to malarious areas.

Malaria infections were documented in 21 Marine and 62 Army personnel, all of whom had onset of illness after returning to the United States. Of the 62 Army personnel, 55 (89%) were stationed at Fort Drum, New York; approximately 60% of all Army troops sent to Somalia originally were stationed at Fort Drum. Detailed investigations have been completed for 32 (58%) of the Army personnel stationed at Fort Drum and all 21 Marines. Of these 53 persons, 43 (81%) had been stationed south of Mogadishu.

#### Malaria — Continued

*Plasmodium vivax* was detected in 41 (77%) of the cases, *P. falciparum* in nine (17%), a mixed vivax and falciparum infection in two (4%), and *P. ovale* infection in one.

Mefloquine was used for malaria prophylaxis by 38 persons and doxycycline by 15 persons. Because of the reportedly low frequency of vivax and ovale malaria in Somalia, terminal prophylaxis with primaquine to prevent relapses of vivax or ovale malaria following departure from Somalia had not been recommended for Army personnel. Although terminal prophylaxis had been recommended for Marine and Navy personnel, only eight of the 15 Marines with vivax or ovale malaria had completed terminal prophylaxis. Use of prophylaxis, including terminal prophylaxis, was not supervised after arrival in the United States, and compliance was reportedly low.

Manifestations of illness included a history of fever and chills (100%), headache (97%), gastrointestinal symptoms (72%), myalgia and/or arthralgia (69%), lumbosacral pain (63%), and upper respiratory symptoms (59%). Patients with falciparum malaria had onset of symptoms an average of 34 days (range: 10–86 days) after return to the United States and 18 days (range: 0–58 days) after discontinuation of prophylaxis; patients with vivax malaria had onset at intervals of 60 days (range: 12–119 days) after return to the United States and 42 days (range: 0–102 days) after discontinuation of prophylaxis. The patients were ill an average of 4 days (range: 0–23 days) before seeking medical attention. In 13 (25%) patients, the diagnosis of malaria was delayed for 3 or more days after initial medical contact.

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**Editorial Note:** Most U.S. military personnel who developed malaria in Somalia or after their return to the United States had been stationed in the southern riverine area of Somalia, where malaria transmission is intense and is characterized by seasonal exacerbations from May through August and during November and December. Transmission in the central and northern parts of the country is relatively low. *P. falciparum* is the predominant species of malaria infection among the population and accounts for 94% of malaria cases in Somalia. *P. vivax* accounts for 4% of cases and *P. malariae* for 2%; malaria caused by *P. ovale* occurs rarely (1).

The incubation period for vivax malaria is similar to that for falciparum malaria. Because patients infected with *P. vivax* became ill several weeks later than those infected with *P. falciparum*, cases of vivax malaria in military personnel following their return to the United States probably represented relapses of parasitemia from hepatic stages (hypnozoites). Because of the unexpectedly high rate of these relapses, on May 21, the Office of the Surgeon General of the Army mandated primaquine as part of the terminal prophylactic regimen for troops returning from Somalia.

The probability of mosquitoborne transmission of malaria in the United States as a consequence of the return of these military personnel is considered low. From 1966 through 1972, four episodes of transmission in the United States—resulting in nine cases of malaria—were identified in association with the 13,843 military personnel subsequently diagnosed with vivax malaria in the United States at the time of their return from Vietnam. Prompt recognition and treatment of malaria is the most important approach for preventing introduction of malaria into the United States.

### Malaria — Continued

Malaria must be considered in the differential diagnosis for military personnel and all other persons with fever or a history of fever who have traveled to a malarious area. The diagnosis of malaria initially may not be considered because a complete foreign travel history has not been elicited or because the initial symptoms do not include the classic pattern of repeated episodes of fever and chills and may have a dominant gastrointestinal or respiratory component. For patients who have continued taking prophylaxis or who have recently discontinued prophylaxis, the clinical presentation often is milder than in patients who have not taken any prophylaxis (*2,3*). Malaria infection can be excluded only after microscopic examination of serial thick and thin blood smears over a 72-hour period. Many of the cases of malaria described in this report were characterized by a low density of parasitemia that was diagnosed only on thick smears.

Physicians should report confirmed cases of malaria to their local health departments and are requested to report confirmed cases to the Office of the Surgeon General of the Army (Col. J.P. Tomlinson, telephone [703] 756-0135) for patients in the U.S. Army, the San Diego Naval Medical Center (LCDR J. Newton, telephone [619] 532-7475) for patients in the U.S. Marines or U.S. Navy, or the Office of the Surgeon General of the Air Force (Col. J. Wright, telephone [202] 767-1835) for patients in the U.S. Air Force.

#### References

- 1. World Health Organization. Review of the malaria situation and of research activities carried out on the control of malaria in Somalia. Geneva: World Health Organization, 1984; publication no. WHO/MAL.CT/AFT/5.13.
- 2. Wetsteyn JCFM, De Geus A. Chloroquine-resistant falciparum malaria imported into the Netherlands. Bull WHO 1985;63:101–8.
- 3. Lewis SJ, Davidson RN, Ross EJ, Hall AP. Severity of imported falciparum malaria: effect of taking antimalarial prophylaxis. BMJ 1992;305:741–3.

### Foodborne Hepatitis A — Missouri, Wisconsin, and Alaska, 1990–1992

Person-to-person spread is the predominant mode of transmission of hepatitis A virus (HAV) infection. However, based on findings for national surveillance for viral hepatitis, since 1983, 3%–8% of reported hepatitis A cases have been associated with suspected or confirmed foodborne or waterborne outbreaks (1). This report summarizes three recent foodborne outbreaks of hepatitis A and addresses the prevention of this problem.

#### Missouri

On November 26, 1990, hepatitis A was diagnosed in an employee of a restaurant in Cass County, Missouri. The employee's duties involved washing pots and pans in the restaurant. From December 7, 1990, through January 9, 1991, hepatitis A was diagnosed in 110 persons, including four waitresses, who had eaten at the restaurant; two persons died as a result of fulminant hepatitis.

To identify risk factors for hepatitis A in restaurant patrons, CDC, in collaboration with the Missouri Department of Health (MDH), conducted a case-control study. A case was defined as an anti-HAV immunoglobulin M (IgM)-positive diagnosis in a per-

### Hepatitis A — Continued

son who had eaten at the restaurant three or more times during the 6-week period before onset of illness. Eating companions of case-patients were selected as controls. Twenty-three case-patients and 31 controls were included. Case-patients were asked about risk factors for hepatitis A (including contact [i.e., sexual, household, or other] with a person with hepatitis A, employment as a food handler, injecting-drug use, recent international travel, association with child care centers, consumption of raw shellfish, and eating at other restaurants in town) during the 2–6 weeks before onset of illness. Foods at the restaurant that were either uncooked or were handled after cooking were included in a food-history questionnaire.

Case-patients were more likely than controls to have consumed a salad (odds ratio [OR]=8.6; 95% confidence interval [CI]=2.0–40.6). In addition, case-patients (100%) were more likely than controls (48%) to have eaten lettuce, either in a salad or as a garnish for a sandwich (OR=undefined; lower 95% confidence limit=6.2). On follow-up interview, the index case-patient reported that he occasionally helped unpack fresh produce and prepare lettuce for salads. From December 1990 through January 1991, immune globulin (IG) was administered to 22 restaurant employees and approximately 3000 potentially exposed restaurant patrons. No cases of hepatitis A were reported among restaurant patrons after January 9, 1991.

### Wisconsin

On April 10, 1991, a food handler employed at sandwich shops in downtown Milwaukee and at a university campus sought medical attention following onset of fatigue, loss of appetite, diarrhea, and fever. He was jaundiced and excluded from work. Acute hepatitis A was diagnosed serologically, and the case was reported to the Milwaukee Health Department (MHD).

Inspection by the MHD of the downtown shop found no health-code violations, and medical histories and serologies obtained from other employees were negative for evidence of hepatitis A. The case-patient reported his hygiene to be good, although this report could not be confirmed by his supervisor. His coworkers received prophylaxis with IG. Because of the report of good hygiene and a good report following inspection of the facility, the risk to patrons was considered minimal. Because 2 weeks had elapsed since the employee had last worked in the campus sandwich shop, this shop was not inspected, and IG was not administered to other employees.

On April 27, eight students presented to the student health service of a university in Milwaukee with symptoms of hepatitis. On April 28, 60 additional persons with hepatitis A were reported to local public health agencies. Review of food histories from these patients suggested both the downtown and university sandwich shops as probable sources. Because no new cases were identified among food handlers, and because a 2-week period had passed between the food handler's last working at the campus sandwich shop and recognition of the outbreak, IG was not offered to restaurant patrons.

The two sandwich shops were owned by the same person and received some produce from the same commercial suppliers; no other common links were identified. Although the infected food handler reported his personal hygiene to be good, one coworker and several customers reported his hygiene was poor. To prevent secondary transmission of hepatitis from shop customers who might be food handlers, more

### Hepatitis A — Continued

than 350 centrally located restaurants were visited by MHD inspectors and advised on proper precautions.

Overall, outbreak-related hepatitis A was diagnosed in 230 persons: 50 reported eating at the university sandwich shop and 180 reported eating at the downtown sandwich shop during April 17–May 29, 1992. The 2-week peak period for onset of jaundice (in 85% of cases) occurred approximately 1 month after the 2-week period in which the infected food handler staffed both shops. Because 228 of the 230 case-patients ate exclusively at one of the two shops and because no prepared food was shared between them, food was considered to have been contaminated independently at each site. Through July 15, one second generation case (in a household contact of a sandwich shop patron) was documented.

### Alaska

On May 4, 1992, a food handler who routinely prepared uncooked sandwiches at a fast-food restaurant in Juneau, Alaska, had onset of nausea, vomiting, and diarrhea. Although his employer instructed him not to handle food, he was allowed to continue work. On May 8, he sought medical attention and was jaundiced; IgM anti-HAV was negative. On May 18, repeat testing was positive for IgM anti-HAV. The case-patient reported his hygiene to be good, and this was confirmed by his supervisor and co-workers.

From June 1 through June 11, 11 cases of acute hepatitis A were diagnosed in residents of or visitors to Juneau. To identify risk factors for infection, the Alaska Department of Health and Social Services conducted a case-control study. A case was defined as an anti-HAV IgM-positive diagnosis in a Juneau resident or visitor with onset of illness during June 1–11. Twenty-four controls were selected from among coworkers of case-patients. Case-patients were asked about risk factors for hepatitis A, including contact (i.e., sexual, household, or other) with a person with hepatitis A, employment as a food handler, injecting-drug use, recent international travel, association with child care centers, consumption of raw shellfish, and eating at restaurants in town. All case-patients, compared with six (25%) controls, ate at least once during May 4–8 at the fast-food restaurant where the index case-patient worked (OR= undefined; lower 95% confidence limit=5.1). Because 2 weeks had elapsed between the index case-patient's onset of illness and serologic confirmation of HAV infection, IG was not administered to coworkers or restaurant patrons.

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**Editorial Note:** Foodborne hepatitis A outbreaks are most often caused by contamination of food during preparation by an infected food handler. An important method of prevention is attention to personal hygiene, including frequent handwashing during all phases of food preparation. In addition, when hepatitis A is diagnosed in a food handler, IG should be administered to all other food handlers at the establishment. Administration of IG to patrons should be considered if 1) the infected person is directly involved in handling, without gloves, foods that will not be cooked before they are eaten; 2) the hygienic practices of the food handler are deficient or the food

## Hepatitis A — Continued

handler has had diarrhea; and 3) patrons can be identified and treated within 2 weeks of exposure (2,3).

The outbreaks in this report highlight several important aspects concerning recognition and reporting of persons with hepatitis A and decisions on the use of IG. Restaurant employees other than food handlers may handle food and, if infected with hepatitis A virus, pose a risk for foodborne transmission. Therefore, regardless of their job description and duties, restaurant employees with hepatitis A should be asked about any handling of uncooked food during the period that they may have been infectious.

In the Milwaukee outbreak, despite the self-reported good hygienic practices of the food handler, criteria were sufficient to recommend IG to restaurant patrons. Without the presence of diarrhea in a food handler with hepatitis A, a self-report of good hygienic practice may be inadequate to assess the level of risk to patrons. Evaluation of the hygienic practices of an infected food handler should include interviews with supervisors and coworkers.

In the outbreak in Alaska, all criteria were met for the consideration of administration of IG to restaurant customers. However, because the food handler was initially IgM anti-HAV negative at the time of jaundice, diagnosis was delayed beyond the 2-week interval for recommended use of IG. Even though specific antibody is almost always present at the time of the onset of symptoms (4-8), in food handlers with acute onset of jaundice and no identified cause, retesting for IgM anti-HAV is recommended.

Factors that are essential in the prevention and control of foodborne hepatitis A include accurate assessment of the hygienic status of food handlers; identification of food handlers and other restaurant employees with hepatitis A; and rapid diagnosis and reporting of cases in food handlers. Because IG must be administered within 2 weeks of exposure to HAV to be effective, health-care providers should promptly evaluate food handlers with symptoms of hepatitis and report food handlers with hepatitis A to appropriate public health agencies.

### References

- 1. CDC. Hepatitis surveillance report no. 54. Atlanta: US Department of Health and Human Services, Public Health Service, 1992:16–17.
- 2. CDC. Protection against viral hepatitis: recommendations of the Immunization Practices Advisory Committee (ACIP). MMWR 1990;39(no. RR-2):2–5.
- 3. Carl M, Francis DP, Maynard JE. Food-borne hepatitis A: recommendations for control. J Infect Dis 1983;148:1133–5.
- 4. Lemon SM. Type A viral hepatitis: new developments in an old disease. N Engl J Med 1985;313:1059-67.
- 5. Decker RH, Overby LR, Ling CM, Frosner C, Deinhardt F, Boggs J. Serologic studies of transmission of hepatitis A in humans. J Infect Dis 1979;139:74–82.
- 6. Bradley DW, Fields HA, McCaustland KA, et al. Serodiagnosis of viral hepatitis A by a modified competitive binding radioimmunoassay for immunoglobulin M anti-hepatitis A virus. J Clin Microbiol 1979;9:120–7.
- 7. Lemon SM, Brown CD, Brooks DS, Simms TE, Bancroft WH. Specific immunoglobulin M response to hepatitis A virus determined by solid-phase radioimmunoassay. Infect Immun 1980;28:927–36.
- 8. Locarnini SA, Ferris AA, Lehmann NI, Gust ID. The antibody response following hepatitis A infection. Intervirology 1977;8:309–18.

#### FIGURE I. Notifiable disease reports, comparison of 4-week totals ending July 10, 1993, with historical data — United States



\*The large apparent decrease in reported cases of measles(total) reflects dramatic fluctuations in the historical baseline. (Ratio (log scale) for week twenty-seven is 0.01638).

<sup>†</sup>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 thehatched area begins is based on the mean and two standard deviations of these 4-week totals.

	Cum. 1993		Cum. 1993
AIDS*	59,979	Measles: imported	18 150
Botulism: Foodborne	8	Plaque	109
Infant	14	Poliomvelitis, Paralytic <sup>§</sup>	-
Other	2	Psittacosis	28
Brucellosis	42	Rabies, human	-
Cholera	14	Syphilis, primary & secondary	13,633
Congenital rubella syndrome	5	Syphilis, congenital, age < 1 year	677
Diphtheria	-	Tetanus	15
Encephalitis, post-infectious	88	Toxic shock syndrome	124
Gonorrhea	195,792	Trichinosis	8
Haemophilus influenzae (invasive disease) <sup>†</sup>	670	Tuberculosis	10,549
Hansen Disease	91	Tularemia	58
Leptospirosis	18	Typhoid fever	159
Lyme Disease	2,370	Typhus fever, tickborne (RMSF)	111

## TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending July 10, 1993 (27th Week)

\*Updated monthly: last update July 3, 1993. <sup>†</sup>Of 612 cases of known age, 202 (33%) were reported among children less than 5 years of age. <sup>§</sup>No cases of suspected poliomyelitis have been reported in 1993; 10 cases of suspected poliomyelitis were reported in 1992; 6 of the 9 suspected cases with onset in 1991 were confirmed; the confirmed cases were vaccine associated.

		Aseptic	Encept	nalitis		-	He	oatitis (\	/iral), by i	type		
Reporting Area	AIDS*	Menin- gitis	Primary	Post-in- fectious	Gono	rrhea	Α	В	NA,NB	Unspeci- fied	Legionel- losis	Lyme Disease
	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	59,979	3,739	274	88	195,792	252,969	10,701	6,039	2,367	320	569	2,370
NEW ENGLAND	2,815	58	4	4	3,920	5,249	154	176	238	5	14	435
Maine N H	60 66	12	-	- 2	42	48 64	8 13	9 45	- 217	- 1	4	4 26
Vt.	14	9	2	-	14	14	3	5	2	-	-	1
R.I.	1,491	11	-	2	1,309	1,941 393	47 49	66 15	15	4	5	20 69
Conn.	992	-	-	-	2,332	2,789	34	36	-	-	-	315
MID. ATLANTIC	13,675	326	13	7	21,502	26,804	610	761	168	4	119	1,502
N.Y. City	2,162 7,455	134	о 1	4	4,228 5,067	5,675 8,844	193	121	98 1	-	37	994 3
N.J.	2,561	-	-	- 2	3,717	3,889	163	216	49	- 2	16	232
Γά. Ε Ν. ΟΕΝΤΡΑΙ	1,497	/71	78	15	38 58/	16 020	1 032	621	368	2	157	273
Ohio	809	146	26	3	10,267	14,511	164	121	29	-	76	15
Ind.	585 1 776	71 92	6 16	7	4,031 12,862	4,298 14 886	434 310	129 129	7 21	1	34	1
Mich.	1,290	152	26	5	8,620	11,073	118	237	290	5	32	2
Wis.	507	10	4	-	2,804	2,161	6	5	21	-	8	-
Minn.	2,274 480	48	6	-	10,340	13,305	1,348	358 34	105	6 4	37	41
lowa	131	47	1	-	602	923	18	13	5	1	5	5
N. Dak.	1,292	53	2	-	5,919	49	866 50	264	/8	-	1	2
S. Dak.	21	7	3	-	154	89 750	10	-	-	-	- 14	- ว
Kans.	230	57	-	-	1,861	2,685	59	39	10	-	3	21
S. ATLANTIC	12,950	906	47	38	52,642	78,163	668	1,134	297	42	97	288
Del. Md	235 1 425	21 77	3 11	-	708 8 306	915 7 491	7 92	81 147	66 9	- 5	8 23	141 46
D.C.	774	19		-	2,761	3,666	3	14	-	-	12	2
Va. W Va	899 46	87 8	16 7	3	5,882 293	9,179 468	77	78 20	20 16	16	3	30 2
N.C.	742	67	9	-	12,840	12,689	32	163	32	;	15	43
S.C. Ga.	854 1.661	62	- 1	-	5,246 4,660	5,728 24,569	63	20	- 29	-	10	- 3
Fla.	6,314	558	-	35	11,946	13,458	383	539	125	20	12	21
E.S. CENTRAL	1,588	203	11	4	22,239	24,641	125	634	446	1	22	10
Tenn.	640	29	5	-	6,805	7,902	26	523	432		11	6
Ala. Miss	490 273	60 32	1	-	7,872	8,253 5 941	25 10	60 3	3	1	1	2
W.S. CENTRAL	6.332	376	22	-	22.937	27,240	992	799	123	92	15	13
Ark.	248	23	-	-	4,412	4,240	27	32	2	1	-	1
La. Okla.	806 542	35 1	4	-	6, 192 1,895	2,658	44 58	109	50 33	2	2 9	- 5
Tex.	4,736	317	17	-	10,438	13,025	863	533	38	83	4	7
MOUNTAIN Mont	2,789 17	225	14	4	5,607 22	6,472 56	2,197 55	310 4	164	55	49 5	3
Idaho	49	7	-	-	96	61	96	25	-	1	1	-
Wyo. Colo	30 925	4 47	-	-	41 1 710	29 2 344	11 553	16 41	53 27	- 35	5	2
N. Mex.	220	47	3	2	482	468	185	125	52	2	3	-
Ariz. Utah	956 195	87 6	5 1	-	2,124 176	2,270 144	767 478	51 23	9 19	7 10	9 7	- 1
Nev.	397	27	1	1	956	1,100	52	25	4	-	14	-
PACIFIC Wash	12,589	953	73	16	18,021	24,166	3,575	1,246	458	107	59	58 1
Oreg.	522	-	-	-	947	812	54	21	9	-	-	1
Calif. Alaska	11,030 20	891 x	69 3	16	14,580 258	20,560 376	2,614 464	1,097	344	97	45	55
Hawaii	135	54	1	-	252	254	49	16	2	3	5	1
Guam	-	2	-	-	38	45	2	2	-	1	-	-
Р.К. V.I.	1,786	31	-	-	229 61	91 55	43	199 2	23	2	-	-
Amer. Samoa	-	-	-	-	22	21	10	-	-	-	-	-
	-	2	-	-	4/	38	-	-	-	<u> </u>	-	-

## TABLE II. Cases of selected notifiable diseases, United States, weeks endingJuly 10, 1993, and July 4, 1992 (27th Week)

N: Not notifiable U: Unavailable \*Updated monthly; last update July 3, 1993. C.N.M.I.: Commonwealth of Northern Mariana Islands

<table-container>          Image         <t< th=""><th></th><th></th><th></th><th>Measle</th><th>s (Rube</th><th>eola)</th><th></th><th>Menin-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<></table-container>				Measle	s (Rube	eola)		Menin-								
Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung.Cung. <th< th=""><th>Reporting Area</th><th>Malaria</th><th>Indig</th><th>enous</th><th>Impo</th><th>orted*</th><th>Total</th><th>gococcal Infections</th><th>Mu</th><th>mps</th><th>F</th><th>Pertussi</th><th>s</th><th></th><th>Rubella</th><th>۱ </th></th<>	Reporting Area	Malaria	Indig	enous	Impo	orted*	Total	gococcal Infections	Mu	mps	F	Pertussi	s		Rubella	۱ 
UNITED STATES 494 7 159 - 18 1,90 1,362 16 945 66 1,400 889 7 120 109 NEW ENGLAND 24 - 42 - 3 5 1 58 - 5 11 309 77 - 1 1 6 NEW ENGLAND 24 - 42 - 3 1 1 14 18 - 1 3 12 - 1 3 142 2 - 1 - 1 Name		Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	1993	Cum. 1993	Cum. 1992
NEW ENGLAND 24 - 42 - 3 51 88 - 5 1 1 309 7 - 1 1 6 Name	UNITED STATES	494	7	159	-	18	1,990	1,362	16	945	66	1,400	889	7	120	109
Nithe         5         -         -         -         1         1         -         -         -         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>NEW ENGLAND</td> <td>24</td> <td>-</td> <td>42</td> <td>-</td> <td>3</td> <td>51</td> <td>58</td> <td>-</td> <td>5</td> <td>11</td> <td>309</td> <td>77</td> <td>-</td> <td>1</td> <td>6</td>	NEW ENGLAND	24	-	42	-	3	51	58	-	5	11	309	77	-	1	6
Yi       1                                                                                                              <	N.H.	1 5	-	-	-	-	- 13	5 12	-	-	- 3	8 198	3 22	-	-	-
Mass         2         -         3         -         1         14         18         -         -         2         2         3         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>Vt.</td> <td>1</td> <td>-</td> <td>30</td> <td>-</td> <td>1</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> <td>-</td> <td>42</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td>	Vt.	1	-	30	-	1	-	4	-	-	-	42	2	-	-	-
Conn.         13         ·         9         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<<	Mass. R I	2	-	3	-	1	14 20	18	-	- 2	1	26	36	-	-	- 4
MID. ATLCANTIC       90       -       6       -       2       187       170       2       76       9       198       53       5       10         N.Y. CIY       24       -       2       -       -       43       19       -       -       79       5       10       -         N.Y. CIY       24       -       4       -       -       -       40       2       42       4       88       -       -       1       -       -       -       36       193       11       13       -       -       1       -       -       36       123       11       120       124       -       -       -       -       -       -       -       37       1       120       124       -       -       -       -       -       -       36       10       -       -       -       -       -       -       -       -       36       14       -       -       -       -       -       -       -       10       -       -       10       -       -       -       -       -       -       -       -       -       -       -       - </td <td>Conn.</td> <td>13</td> <td>-</td> <td>9</td> <td>-</td> <td>-</td> <td>4</td> <td>18</td> <td>-</td> <td>3</td> <td>-</td> <td>32</td> <td>14</td> <td>-</td> <td>-</td> <td>1</td>	Conn.	13	-	9	-	-	4	18	-	3	-	32	14	-	-	1
Upstale NY. 32 1 108 78 - 26 5 85 25 5 10 7 7 N.J. 22 - 2 43 10 7 9 - 15 - N.J. 22 - 4 - 1 36 3 19 - 6 7 9 - 16 3 Pa.E.N.CHTRAL 29 - 1 36 193 - 186 3 191 87 - 1 7 M.L. 3 25 61 - 57 1 120 26 - 1 - M.L. 3 22 41 - 47 1 120 26 - 1 - M.L. 3 22 41 - 47 1 120 26 - 1 - M.L. 3 22 41 - 47 1 120 26 - 1 - M.L. 3 22 41 - 47 1 120 26 - 1 - M.L. 3 2 8 88 - 27 5 99 68 - 1 5 Minn. 14 - 1 28 857 - 3 46 23 7 7 M.L. 3 1 10 - 7 - 1 3 3 M.L. 3 1 10 - 7 - 1 3 3 M.N. CINTRAL 16 - 1 7 33 - 4 - 3 7 - 1 3 M.N. 0. 4 - 1 1 10 - 7 - 1 3 28 - 1 - M.N. 0. 4 1 1 10 - 7 - 1 3 - 28 S. Dak. 2 1 10 - 7 - 1 - S. Dak. 2	MID. ATLANTIC	90	-	6	-	2	187	170	2	76	9	198	53	5	35	10
N.J.       26       -       4       -       1       36       24       -       8       -       1       16       3       19       -       6       3       3         E.N.CENTRAL       29       -       1       -       -       36       193       -       163       3       11       187       -       1       7         Ind.       3       -       -       -       20       33       -       3       1       190       4       -       -       7         Mich.       5       -       -       -       2       41       -       47       1       19       4       -       -       7         Minn.       3       -       -       -       7       3       3       1       -       3       3       1       -       -       -       3       -       1       1       3       3       1       1       -       -       -       -       1       1       3       3       1       -       -       -       -       3       -       1       1       -       -       -       -       -       -	Upstate N.Y.	32	-	- 2	-	1	108	78 10	-	26	5	85	25	5	10 15	7
Pa.         B         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·<         ·         ·<         ·<         ·<         ·         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<         ·<	N.J.	26	-	4	-	1	36	24	-	8	-	21	19	-	6	3
E.N.CENTRAL 29 - 1 36 193 - 136 3 191 87 - 1 7 DAID 7 5 61 - 57 1 120 26 - 1 Ind. 3 20 33 - 3 1 20 12 - 2 1 Mich. 5 - 0 2 1 1 - 47 1 19 4 W. CENTRAL 16 - 1 - 2 8 88 - 27 5 9 68 - 1 5 W. CENTRAL 16 - 1 - 2 8 88 - 27 5 9 68 - 1 5 W. CENTRAL 16 - 1 - 2 8 88 - 1 5 Nome 1 3 46 23 I 1 3 46 23 I 3 3 46 23 I 3 3 46 23 I 1 1 16 - 7 - 1 3 2 S. Dak. 2 1 18 - 7 - 1 1 6 - 7 - 1 3 2 S. Dak. 2 S. Dak. 2 Nebr. 3 Nebr. 3	Pa.	8	-	-	-	-	-	49	2	42	4	85	-	-	4	-
DIU         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	E.N. CENTRAL	29	-	1	-	-	36	193	-	136	3	191	87	-	1	7
III.       14       -       -       -       -       2       41       -       20       14       -       -       7         Wis.       -       -       -       -       1       1       -       -       3       31       -       -       -         Wis.       -       -       -       7       8       -       7       3       31       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       3       -       -       -       -       -       -       3       -       -       -       -       -       3       -       -       -       -       -       -       3       -       -       -       -       -       -       3       -       -       -       -       -       -       -       1       1       0       0       0       -       -       -       -       1       1       -       -       20       1       1       -       -       1       1       -       1       1       1       1       1       1	Ind.	3	-	-	-	-	20	33	-	3	1	29	20 12	-	-	-
Mich.       5       -       -       -       2       41       -       47       1       19       4       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       1       1       1       2       3       1       1       -       -       -       -       -       -       -       -       -       -       -       -       3       1       1       1<	III.	14	-	1	-	-	8	57	-	29	-	20	14	-	-	7
NUN       CENTRAL       16       .       1       .       2       8       88       .       27       5       99       66       .       1       5         Minn.       3       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .	Wich. Wis	5	-	-	-	-	2	41	-	4/	1	19	4	-	-	-
Minn, Linde         3         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         . <th< td=""><td>W.N. CENTRAL</td><td>16</td><td>_</td><td>1</td><td>_</td><td>2</td><td>8</td><td>88</td><td>-</td><td>27</td><td>5</td><td>99</td><td>68</td><td>-</td><td>1</td><td>5</td></th<>	W.N. CENTRAL	16	_	1	_	2	8	88	-	27	5	99	68	-	1	5
lowa       1       -       -       -       1       16       -       7       -       1       3       -       -       -         N. Dak.       2       -       -       -       3       -       4       -       3       -       -       -       -       -       -       3       -       1       1       6       2       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       1       1       0       -       -       2       16       26       1       5       3       -       2       4       0       -       -       1       1       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Minn.	3	-	-	-	-	7	3	-	-	3	46	23	-	-	-
Numbek	lowa Mo	1	-	-	-	-	1	16	-	7	-	1	3	-	- 1	- 1
S. Dak.       2       -       -       -       -       3       -       -       1       1       2       4       -       -       -         Kans.       1       -       -       2       -       21       -       -       11       1       -       -       4         S. ATLANTIC       145       -       20       -       3       113       274       2       302       11       1       -       -       4       4       -       -       -       4       5       5       -       2       -       1       11       -       4       50       13       -       2       -       -       -       1       11       -       4       10       -       -       -       -       -       1       1       1       -       1       -       -       -       24       50       13       14       -       10       -       -       22       23       14       -       5       8       -       -       24       40       38       16       -       11       -       2       2       11       -       -       2       14 <td>N. Dak.</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> <td>-</td> <td>4</td> <td>-</td> <td>30</td> <td>20</td> <td>-</td> <td>-</td> <td>-</td>	N. Dak.	2	-	-	-	-	-	3	-	4	-	30	20	-	-	-
Nebr.       3       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       1       1       1       -       -       -       4       0       1       1       -       -       4       0       0       0       -       -       2       1       1       -       4       0       0       0       -       -       -       1       1       -       4       0       0       0       -       -       -       -       1       1       1       0       2       -       -       2       4       0       0       2       -       -       -       2       1       -       -       2       0       1       1       1       0       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th1< th=""> <th1< th=""></th1<></th1<>	S. Dak.	2	-	-	-	-	-	3	-	-	1	2	4	-	-	-
S. ATLANTIC       145       .       20       .       3       113       274       2       302       11       152       64       .       8       9         Del.       1       .       .       .       .       1       11       .       4       3       5       .       .       2       .         Del.       1       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .	Nebr. Kans.	3 1	-	-	-	2	-	21	-	-	-	6 11	2	-	-	4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	S. ATLANTIC	145	-	20	-	3	113	274	2	302	11	152	64	-	8	9
Md.       14       -       -       2       16       26       1       33       4       50       13       -       2       4         Va.       10       -       -       1       11       25       -       16       -       17       4       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Del.	1	-	3	-	-	1	11	-	4	3	5	-	-	2	-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Md. D.C.	14 5	- U	-	-	2	16	26 4	1 U	53	4	50	13	- U	2	4
	Va.	10	-	-	-	1	11	25	-	16	-	17	4	-	-	-
No. 79 1 1 1 1 1 1 1 2 1 2 2 2 2 3 1 1 4 1 5 7 1 2 4 3 3 4 3 4 3 6 4 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W. Va.	2	-	-	-	-	- 24	11 50	-	6 176	-	6	2	-	-	-
Ga5 <t< td=""><td>S.C.</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>24 29</td><td>23</td><td>-</td><td>14</td><td>-</td><td>24 5</td><td>7</td><td>-</td><td>-</td><td>2</td></t<>	S.C.	1	-	-	-	-	24 29	23	-	14	-	24 5	7	-	-	2
ria. 26 - 17 - 450 - 32 60 1 24 4 38 10 - 4 3 E.S. CENTRAL 12 - 1 - 450 85 1 34 3 64 15 - 1 Tenn. 7 1 - 18 3 26 9 - 1 Miss. 2 - 1 - 1 - 18 3 26 9 - 1 Miss. 2 - 1 - 1 - 18 3 36 129 - 12 6 Ark. 2 - 1 - 1 - 1 - 108 125 6 138 3 36 129 - 12 6 Ark. 2 - 1 - 1 - 1 - 12 - 12 6 138 3 36 129 - 12 6 Ark. 2 - 1 - 1 - 12 - 14 - 4 - 3 6 - 1 - 1 Chia. 4 - 1 - 1 - 12 - 12 6 138 3 36 129 - 12 6 MOUNTAIN 17 - 2 - 1 1 12 - 7 2 14 20 - 1 - 1 Tex. 5 - 1 1 1 2 - 7 2 14 20 - 1 - 1 Mont. 2 - 1 - 1,027 74 6 116 - 13 103 - 10 6 MOUNTAIN 17 - 2 - 1 13 121 - 35 6 121 145 - 4 5 Mont. 2 1 - 11 2 - 7 2 14 20 - 1 - 1 Wyo 1 - 1 - 1 12 - 1 1 1 - 1 Wyo 1 - 1 - 1 1 2 - 1 1 1 1 1 Wyo 1 - 1 - 1 1 2 - 1 1 - 1 - 1 - 1 Wyo 1 - 1 - 1 1 1 1 2 - 1 1 - 1 - 1	Ga.	5	-	-	-	-	-	58	-	9	-	5	8	-	-	-
E.S. CENTRAL 12 - 1 - 430 85 1 34 3 64 15 - 1 1 Tenn. 7 - 3 - 433 17 - 3 3 5 - 1 Tenn. 7 - 3 1 - 433 17 - 3 3 5 - 1 Miss. 2 - 1 - 1 - 1 1 1 - 1 1 - 33 5 - 1 1 Miss. 2 - 1 - 1 - 1 1 1 - 1 1 - 1 1 6 - 1 1 Miss. 2 - 1 - 1 - 1 1 1 2 - 1 2 1 1 6 - 1 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 4 20 - 1 - 1 Okla. 4 - 1 - 1 - 1 1 1 2 - 7 2 1 1 2 - 1 1 1 0 MOUNTAIN 17 - 2 - 1 1 1 2 - 7 2 1 1 2 - 1 - 1 1 1 Myo. 1 - 1 - 1 - 1 1 1 2 - 1 1 1 - 1 - 1 1 1 - 1		28	-	17	-	-	32	00	1	24	4	38	10	-	4	3
Tenn.718111-3351Ala.3-131-183269Miss.21719-5-21W.S. CENTRAL11-11,0381256138336129-126Ark.21112-721420-1-Ckia.413121-356121145-45MOUNTAIN17-213121-356121145-45Mont.21220-8-502311-1111010-331615-111 <td>E.S. CENTRAL Kv.</td> <td>12</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>450 433</td> <td>85 17</td> <td>-</td> <td>- 34</td> <td>3</td> <td>64 3</td> <td>15</td> <td>-</td> <td>-</td> <td>-</td>	E.S. CENTRAL Kv.	12	-	-	-	-	450 433	85 17	-	- 34	3	64 3	15	-	-	-
Ala.3.1183.269Miss.21.1.1.1	Tenn.	7	-	-	-	-	-	18	1	11	-	33	5	-	-	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ala. Miss	3	-	1	-	-	- 17	31 19	-	18	3	26	9		-	-
Ark.1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111	W/S CENTRAL	11	_	1	_	_	1 038	125	6	138	3	36	120		12	6
La125-11161Okla.41112-721420-1-Tex.51,027746116-13103-106MOUNTAIN17-213121-356121145-45Mont.2111	Ark.	2	-	-	-	-	1,050	14	-	4	-	3	6	-	-	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	La.	-	-	1	-	-	- 11	25	-	11	1	6	-	-	1	-
MOUNTAIN       17       -       2       -       -       13       121       -       35       6       121       145       -       4       5         Mont.       2       -       -       -       -       11       -       -       -       1       -       -       1       -       -       1       -       -       1       -       -       -       1       -       -       1       -       -       1       -       -       1       -       -       1       -       -       1       -       -       1       -       -       1       1       -       1       1       -       1       1       -       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 </td <td>Tex.</td> <td>4 5</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1,027</td> <td>74</td> <td>6</td> <td>116</td> <td>-</td> <td>14</td> <td>103</td> <td></td> <td>10</td> <td>6</td>	Tex.	4 5	-	-	-	-	1,027	74	6	116	-	14	103		10	6
Mont.       2       -       -       -       -       11       -       -       -       1       -       -       1       -       -       -       -       -       -       -       1       -       -       -       -       -       -       1       -       -       1       -       -       1       -       -       1       1       -       -       -       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td>MOUNTAIN</td> <td>17</td> <td>-</td> <td>2</td> <td>-</td> <td>-</td> <td>13</td> <td>121</td> <td>-</td> <td>35</td> <td>6</td> <td>121</td> <td>145</td> <td>-</td> <td>4</td> <td>5</td>	MOUNTAIN	17	-	2	-	-	13	121	-	35	6	121	145	-	4	5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mont.	2	-	-	-	-	-	11	-	-	-	-	1	-	-	-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Idano Wyo.	-	-	-	-	-	- 1	2	-	5	2	21	17	-	-	-
N. Mex.       4       -       -       -       -       3       N       N       -       21       32       -       -       -         Ariz.       -       -       -       -       61       -       6       1       12       56       -       1       2         Utah       -       -       -       -       -       10       -       3       3       16       15       -       1       1         PACIFIC       150       7       85       -       8       94       248       5       192       15       230       251       2       58       60         Wash.       14       -       -       -       10       39       -       8       -       22       61       -       -       6         Oreg.       3       -       -       -       3       21       N       N       -       3       14       -       1       1         Calif.       129       7       74       -       3       47       168       5       164       15       195       163       1       34       36         Al	Colo.	10	-	2	-	-	12	20	-	8	-	50	23	-	-	-
Internation10-33121005-11Nev7-11111PACIFIC150785-89424851921523025125860Wash.141039-8-22616Oreg.3321NN-314-11Calif.129774-34716851641519516313436Alaska912-5-31-1-Hawaii4-11-5258-15-71212217Guam1U2U-101U6U1-11PR371592446-1-19	N. Mex. Ariz	4	-	-	-	-	-	3 61	N	N 6	- 1	21 12	32 56	-	- 1	- 2
Nev.       -       -       -       -       7       -       11       -       -       1       -       1       1         PACIFIC       150       7       85       -       8       94       248       5       192       15       230       251       2       58       60         Wash.       14       -       -       -       10       39       -       8       -       22       61       -       -       6         Oreg.       3       -       -       -       3       21       N       N       -       3       14       -       1       1         Calif.       129       7       74       -       3       21       N       N       -       3       14       -       1       1         Calif.       129       7       74       -       3       47       168       5       164       15       195       163       1       34       36         Alaska       -       -       10       1       U       6       U       -       U       1       22       17         Guam       1 <td< td=""><td>Utah</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>10</td><td>-</td><td>3</td><td>3</td><td>16</td><td>15</td><td>-</td><td>1</td><td>1</td></td<>	Utah	-	-	-	-	-	-	10	-	3	3	16	15	-	1	1
PACIFIC       150       7       85       -       8       94       248       5       192       15       230       251       2       58       60         Wash.       14       -       -       -       10       39       -       8       -       22       61       -       -       60         Oreg.       3       -       -       -       3       21       N       N       -       3       14       -       1       1         Calif.       129       7       74       -       3       47       168       5       164       15       195       163       1       34       36         Alaska       -       -       -       9       12       -       5       -       3       1       -       1       -         Hawaii       4       -       11       -       5       25       8       -       15       -       7       12       1       22       17         Guam       1       U       2       U       -       10       1       U       6       U       -       -       U       1       PR.<	Nev.	-	-	-	-	-	-	7	-	11	-	-	1	-	1	1
Wash.14111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <td>PACIFIC</td> <td>150</td> <td>7</td> <td>85</td> <td>-</td> <td>8</td> <td>94 10</td> <td>248</td> <td>5</td> <td>192</td> <td>15</td> <td>230</td> <td>251</td> <td>2</td> <td>58</td> <td>60</td>	PACIFIC	150	7	85	-	8	94 10	248	5	192	15	230	251	2	58	60
Calif.       129       7       74       -       3       47       168       5       164       15       195       163       1       34       36         Alaska       -       -       -       -       9       12       -       5       -       3       1       -       1       -         Hawaii       4       -       11       -       5       25       8       -       15       -       7       12       1       22       17         Guam       1       U       2       U       -       10       1       U       6       U       -       -       U       -       1         P.R.       -       37       159       -       -       244       6       -       1       -       U       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       1       -       -       -       -       -       -       -       -       -       - </td <td>Oreg.</td> <td>3</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> <td>21</td> <td>N</td> <td>o N</td> <td>-</td> <td>22</td> <td>14</td> <td>-</td> <td>1</td> <td>1</td>	Oreg.	3	-	-	-	-	3	21	N	o N	-	22	14	-	1	1
Alaska912-5-31-1-Hawaii4-11-5258-15-71212217Guam1U2U-101U6UU-1P.R371592446-1-19VIU-UU3UUAmer. Samoa1111C.N.M.I1111	Calif.	129	7	74	-	3	47	168	5	164	15	195	163	1	34	36
Guam       1       U       2       U       -       10       1       U       6       U       -       12       17         Guam       1       U       2       U       -       10       1       U       6       U       -       -       U       -       1       P       P       -       1       P       P       -       1       P       P       -       -       1       P       P       -       -       1       P       P       -       -       1       P       P       -       -       1       P       P       -       -       1       P       P       -       -       1       P       P       -       -       -       1       P       -       -       -       1       P       -       -       -       1       P       -       -       -       -       -       1       P       -       -       -       -       1       -       -       1       P       -       -       -       -       -       -       1       -       -       -       -       -       1       -       1       -       <	Alaska Hawaii	- 4	-	- 11	-	- 5	9 25	12	-	5 15	-	3	1 12	- 1	1 22	- 17
PR.       37       159       -       244       6       -       1       9       -       -         V.I.       -       U       -       -       -       U       3       U       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       <	Guam	1	IJ	2	U	-	10	1	IJ	.5	U	-		U		
V.I U - U U 3 U U Amer. Samoa 1 2 6 C.N.M.I 1 1 1 1	P.R.	-	37	159	-	-	244	6	-	1	-	1	9	-	-	-
C.N.M.I 1 11 1	V.I. Amer Samoa	-	U	- 1	U	-	-	-	U	3	U	- 2	- 6	U	-	-
	C.N.M.I.	-	-		-	1		-	-	11	-	-	1	-	-	-

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending July 10, 1993, and July 4, 1992 (27th Week)

\*For measles only, imported cases include both out-of-state and international importations. N: Not notifiable U: Unavailable <sup>†</sup> International <sup>§</sup> Out-of-state

Reporting Area	Sypl (Primary & S	hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	13,633	17,839	124	10,549	11,016	58	159	111	3,949
NEW ENGLAND	221	327	7	223	177 14	-	8	1	489
N.H.	21	26	2	4	-	-	-	-	38
vt. Mass.	86	157	2	3 125	3 74	-	- 6	- 1	18 85
R.I. Conn	7 103	18 125	1	32 52	13 73	-	- 2	-	- 348
MID. ATLANTIC	1.269	2,508	25	2,318	2.637	1	46	11	1.556
Upstate N.Y.	108	206	14	206	325	1	11	1	1,192
N.J.	180	348	-	369	448	-	6	7	219
Pa.	353	582	10	344	317	-	3	3	145
Ohio	649	404	15	162	1,103	1	5	4	4
Ind. III.	179 796	123 1.112	1 5	120 551	89 551	1	1 5	- 1	- 4
Mich.	333	537	15	225	252	1	4	-	2
W.N. CENTRAL	876	403 695	- 9	236	258	17	2	9	20 196
Minn.	46	44	2	30	75	-	-	1	23
Mo.	702	523	-	123	104	6	2	5	5
N. Dak. S. Dak.	- 1	1	-	4 10	3 14	- 8	-	2	41 25
Nebr. Kaps	10 85	19 81	- 2	12 31	13 27	1	-	-	6 61
S. ATLANTIC	3,622	4,983	13	1,807	2,041	1	20	45	1,081
Del. Md	71	117	1	21	25 151	-	1	1	86 317
D.C.	202	236	-	85	67	-	-	-	7
va. W. Va.	329 5	404 9	-	237	145 37	-	-	4	196 46
N.C. S.C	1,009 552	1,242 662	3	260 216	265 217	-	-	20 5	43 90
Ga.	607	1,022	-	394	458	- 1	1	6 E	254
F S CENTRAL	1.946	2.308	4	540 689	819	3	2	5 11	42
Ky.	166	75	2	191	199		-	4	8
Ala.	441	899	1	244	235	1	2	-	40
Miss.	790	688	-	110	161	-	-	2	-
Ark.	476	3,099	-	86	1,097 89	20 14	-	- 25	302 18
La. Okla.	1,266 213	1,325 133	- 2	- 155	87 70	- 9	1	1 23	2 47
Tex.	902	1,164	-	874	851	3	1	1	235
MOUNTAIN Mont.	119 1	205 3	8	251 5	276	3	5	4	59 11
Idaho Wyo	-	1	1	6	12	- 2	-	-	2 11
Colo.	35	28	2	8	30	-	4	-	1
N. Mex. Ariz.	19 52	24 102	- 1	35 126	39 122	-	- 1	-	4 28
Utah Nev	3	5 41	3 1	11 58	42 31	1	-	-	- 2
PACIFIC	560	1,135	20	2,803	2,606	4	59	-	182
Wash. Oreg	28 48	51 25	3	132 57	157 60	1	4	-	-
Calif.	478	1,052	17	2,449	2,227	1	53	-	165
Hawaii	4 2	3 4	-	27 138	37 125	-	2	-	- 17
Guam	1	2	-	28	34	-	-	-	-
нк. V.I.	283	32	-	93	120	-	-	-	25
Amer. Samoa C.N.M.I.	- 3	- 4	-	2 19	- 28	-	-	-	-

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending July 10, 1993, and July 4, 1992 (27th Week)

U: Unavailable

	All Causes, By Age (Years)				P&I <sup>†</sup>			All Cau	ises, B	y Age (Y	/ears)		P&I <sup>†</sup>		
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 Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass.	563 167 34 26 66 16 13 39 34 39 34 3 42 22	380 96 20 21 44 12 9 10 27 25 3 29 29 18	100 33 5 5 9 3 2 3 6 7 - 9 4	54 23 2 1 - 9 1 1 2 4 2 4 2 - 4	17 8 - 3 - 1 3 2 - -	12 7 1 - - - - - - - - - - - -	43 19 2 1 2 1 2 1 2 1 3 1	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.	1,072 U 118 71 107 93 58 54 41 48 148 313 21	646 U 67 39 71 53 34 38 31 39 93 162 19	238 U 26 23 20 25 20 10 6 7 35 65 1	129 U 23 6 9 4 6 4 1 14 53	42 U 1 6 6 - - 1 4 23	16 U 1 - - - 2 9 1	43 U 7 4 5 2 2 3 1 3 11 5 -
Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ Jersev City, N.J.	57 2,510 37 18 142 20 9 46 38	41 1,563 27 13 74 9 6 35 28	8 488 6 4 23 2 1 8 8	5 330 1 20 6 2 2 1	- 88 2 - 24 1 - 1 1	3 40 1 - 1 2 -	11 116 - 10 2 - 2	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	690 71 67 53 39 196 106 30 128	433 44 49 28 23 133 69 21 66	155 17 12 17 12 34 24 8 31	64 6 5 3 16 8 - 20	15 2 - 2 4 - 5	23 2 1 1 11 11 1 6	56 6 5 3 4 23 8 - 7
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.	1,224 68 23 496 52 6 131 20 25 89 22 13 31	713 29 10 325 39 3 93 18 22 69 16 12 22	265 18 6 93 10 - 23 2 2 11 4 -	199 12 3 53 2 12 - 4 1 7	34 2 3 14 - 1 2 - 1 2 -	13 7 10 - 1 - 3 1 -	39 3 1 41 1 - 7 2 4 2 - 2	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	1,234 49 32 55 52 86 305 66 86 164 16 90	728 29 20 25 143 31 56 157 37 49 108 10 63	265 12 9 49 8 19 73 23 21 21 4 17	162 7 3 39 8 51 5 11 22 6	38 1 1 5 4 1 13 1 4 6 - 1	40 - - 14 1 2 10 - 1 7 2 3	76 8 2 4 5 28 6 13 2 8
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Malwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	$1,943 \\ 61 \\ 31 \\ 452 \\ 82 \\ 127 \\ 134 \\ 109 \\ 201 \\ 39 \\ 69 \\ 220 \\ 1.54 \\ 149 \\ 18 \\ 104 \\ 48 \\ 40 \\ 40 \\ 102 \\ 61 \\ 102 \\ 61 \\ 102 \\ 61 \\ 102 \\ 61 \\ 102 \\ 61 \\ 102 \\ 61 \\ 102 \\ 61 \\ 102 \\ 102 \\ 61 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ 102 \\ $	1,211 45 23 191 59 84 88 72 115 23 53 53 13 36 108 13 88 26 30 300 69 45	357 7 6 90 15 22 34 23 40 12 9 3 8 28 1 6 13 7 7 7 7 7 7 9	202 7 97 4 8 8 8 30 3 4 2 5 2 4 6 2 5 2 1 7 3	114 1 63 7 2 9 1 3 3 1 4 1 3 3 1 2 5 2	59 2 11 3 6 2 4 7 - 1 5 3 1 2 4 1 1 4 2	102 1 9 3 10 4 9 1 5 1 8 9 - 9 1 6 5 1 1 1	MOUNTAIN 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. Pasadena, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif.	755 85 92 117 21 167 25 96 108 1,716 1,716 18 66 76 493 17 122 123 151	467 54 24 63 89 17 65 72 1,091 14 49 306 8 77 73	$155 \\ 18 \\ 17 \\ 17 \\ 24 \\ 6 \\ 35 \\ 3 \\ 16 \\ 295 \\ 10 \\ 295 \\ 10 \\ 22 \\ 10 \\ 22 \\ 79 \\ 4 \\ 221 \\ 26 \\ 10 \\ 22 \\ 226 \\ 10 \\ 10 \\ 22 \\ 226 \\ 10 \\ 10 \\ 22 \\ 226 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$	91 9 3 21 28 3 10 11 212 3 5 1 4 12 73 - 15 18 11	29 3 3 11 15 3 72 3 1 - 1 26 5 8 8	13 1 3 1 4 1 3 4 1 3 4 1 - 2 5 5 3 2 13	38 4 3 6 3 10 1 5 3 103 1 2 - 2 25 - 2 12 22
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	596 54 16 12 116 20 127 62 119 38 32	427 38 10 89 16 86 44 85 30 21	77 9 2 11 1 20 8 12 4 5	49 1 8 3 11 3 16 2 5	24 3 1 7 3 3 4 1	19 4 - 1 - 7 4 2 1	29 3 1 7 - 8 3 5 2	San Diego, Cali San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	f. 145 168 34 106 44 73 11,079 <sup>¶</sup>	73 74 108 24 64 36 54 6,946	20 37 27 6 20 6 12 2,130	31 19 4 10 1 5 1,293	2 10 5 1 2 439	1 3 - 7 - 263	22 2 13 2 4 1 3 606

## TABLE III. Deaths in 121 U.S. cities,\* week ending July 10, 1993 (27th Week)

\*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.

<sup>†</sup>Pneumonia and influenza.

<sup>9</sup>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. <sup>1</sup>Total includes unknown ages.

U: Unavailable.

## **Course in Hospital Epidemiology**

CDC, the Society for Hospital Epidemiology of America (SHEA), and the American Hospital Association will cosponsor a hospital epidemiology training course September 12–14, 1993, in Seattle. The course is aimed at infectious disease fellows, new hospital epidemiologists, and infection-control practitioners. The course will provide hands-on exercises for detection, investigation, and control of epidemiologic problems encountered in the hospital setting, as well as lectures and seminars on fundamental aspects of hospital epidemiology.

Additional information is available from Ian Dockrill, SHEA Meetings Department, 875 Kings Highway, Suite 200, Woodbury, NJ 08096-3172; telephone (609) 845-1720; fax (609) 853-0411.

## **Epidemiology in Action Course**

CDC and Emory University will cosponsor a course designed for practicing state and local health department professionals. This course, "Epidemiology in Action," will be held at CDC November 8–19, 1993. It emphasizes the practical application of epidemiology to public health problems and comprises lectures, discussions, workshops, classroom exercises (including actual epidemiologic problems), and an on-site community survey. The topics covered will include descriptive epidemiology and biostatistics, analytic epidemiology, epidemic investigations, public health surveillance, surveys and sampling, computers and Epi Info 5, and discussions of selected prevalent diseases. There is a tuition charge.

Applications must be received by September 15. Additional information and applications are available from Department PSB, Emory University, School of Public Health, 1599 Clifton Road, NE, Atlanta, GA 30329; telephone (404) 727-3485 or (404) 727-0199; fax (404) 727-4590.

### Conference on Prevention of Transmission of Bloodborne Pathogens in Surgery and Obstetrics

CDC and the American College of Surgeons will cosponsor a conference, "Prevention of Transmission of Bloodborne Pathogens in Surgery and Obstetrics," February 13–15, 1994, in Atlanta. The conference will provide information about the risk for transmission of bloodborne pathogens, including human immunodeficiency virus and hepatitis B and C viruses, during surgical and obstetric procedures and describe methods to reduce that risk.

Abstracts will be accepted on the following topics: risk for transmission of bloodborne pathogens to health-care workers and patients in surgical and obstetric suites; new devices, techniques, and personal-protection equipment that decrease occupational exposure in surgical and obstetric suites; additional prevention measures (e.g., vaccination and postexposure management); and methods to conduct and evaluate

### Notices to Readers - Continued

studies of risk and prevention measures. The deadline for receipt of abstracts is October 31, 1993.

Additional information is available from John P. Lynch, Organization Department, American College of Surgeons, 55 East Erie Street, Chicago, IL 60611-2797; telephone (312) 664-4050.

## Final 1992 Reports of Notifiable Diseases

The notifiable diseases table on pages 537–542 summarizes final data from 1992, which will be published in more detail in the *MMWR Summary of Notifiable Diseases*, *United States*, *1992* (1).

Population estimates for the states are from the July 1, 1992, estimates by the U.S. Bureau of the Census, Population Division, Population Estimates Branch, Press Release CB92-276. Population estimates for territories are from the 1990 Census, U.S. Bureau of the Census, Press Releases CB91-142, 242, 243, 263, and 276.

### Reference

1. CDC. Summary of notifiable diseases, United States, 1992. MMWR 1993;41(no. 54) (in press).

## Addendum: Vol. 42, No. 15

In the article, "Malaria Among U.S. Embassy Personnel—Kampala, Uganda, 1992," the following names should appear in the credits on page 295: N Calhoun, L Marum, MD, US Embassy Health Unit, Kampala, Uganda. T Adera, PhD, Uniformed Svcs Univ of Health Sciences, Bethesda, Maryland. MS Wolfe, MD, K McGuire-Rugh, MPH, Office of Medical Svcs, Dept of State.

## Erratum: Vol. 42, No. RR-7

In the *MMWR Recommendations and Reports*, "Initial Therapy for Tuberculosis in the Era of Multidrug Resistance, Recommendations of the Advisory Council for the Elimination of Tuberculosis," dated May 21, 1993, on page 3, Option 1 in Table 1 should read as follows: Administer daily INH, RIF, and PZA for 8 weeks followed by 16 weeks of INH and RIF daily or 2–3 times/week\*. In areas where the INH resistance rate is not documented to be <4%, EMB or SM should be added to the initial regimen until susceptibility to INH and RIF is demonstrated. Continue treatment for at least 6 months and 3 months beyond culture conversion. Consult a TB medical expert if the patient is symptomatic or smear or culture positive after 3 months.

In addition, add the following citation to the reference section:

17. CDC. National action plan to combat multidrug-resistant tuberculosis. MMWR 199241(no. RR-11):1–30.

## Erratum: Vol. 42, No. 14

In the article "Impact of Adult Safety-Belt Use on Restraint Use Among Children <11 Years of Age—Selected States, 1988 and 1989," on page 277, the first sentence of the second paragraph should read "Educational attainment of adult respondents was *positively* associated with child restraint use in this report."

	Total resident					Во	tulism		Drugol
Area	(in thousands)	AIDS	Amebiasis	Anthrax	Aseptic meningitis	Foodborne	Infant	Other	losis
United States	255,082	45,472*	2,942	1	12,223	21	66	<b>4</b> <sup>†</sup>	105
New England	13,200	1,743	121	-	455	-	_	_	1
Maine	1,235	44	9	-	42	-	-	-	-
N.H.	1,111	46	2	-	44	-	-	-	-
Vt.	570	26	4	-	26	-	-	-	-
IVIASS.	5,998	875	104	-	1/1	-	-	-	I
Conn	3 281	646	NN	_	NN	_	_	_	_
Mid. Atlantic	37.918	11.764	648	_	971	4	4	1	3
N.Y.(excl.NYC)§	18,119	1,545	115	_	490	_	_	_	1
N.Y.C	NA	6,853	464	-	179	-	1	1	-
N.J.	7,789	2,040	23	-	NN	3	2	-	-
Pa.	12,009	1,326	46	-	302	1	1	-	2
E.N. Central	42,753	3,994	245	-	2,092	-	2	-	5
Ohio	11,016	/33	35	-	518	-	2	-	-
III.	0,002 11 631	402	56	-	233	_	_	-	- 4
Mich.	9,437	718	49	_	597	_	_	_	-
Wis.	5,007	229	91	-	77	-	-	-	1
W.N. Central	17,960	1,302	112	-	654	-	2	-	2
Minn.	4,480	218	75	-	112	-	-	-	-
lowa	2,812	111	-	-	105	-	-	-	1
Mo.	5,193	708	23	-	272	-	-	-	-
N.Dak. S Dak	636 711	5	2	-	2	-	- 1	-	-
S.Dak. Nehr	1 606	61	3 8	-	10	_	_	_	-
Kans.	2,523	191	1	_	114	_	1	_	_
S. Atlantic	45.061	10.288	203	_	1.923	1	3	_	24
Del.	689	140	5	-	53	-	2	-	
Md.	4,908	1,204	10	-	229	-	1	-	-
D.C.	589	706		-	28	-	-	-	-
Va.	6,377	784	36	-	310	-	-	-	-
VV.Va.	1,812	54 594	2	-	39	-	-	-	- 10
SC.	3 603	304	NN	_	232	-	_	_	17
Ga.	6,751	1.324	84	_	229	_	_	_	1
Fla.	13,488	5,101	57	-	777	-	-	-	2
E.S. Central	15,529	1,318	17	-	571	1	2	-	1
Ky.	3,755	213	2	-	213	-	-	-	-
Tenn.	5,024	408	NN	-	143	1	1	-	-
Ala.	4,136	437	7	-	137	-	-	-	1
IVIISS.	2,014	200	8	-	/8	-	1 2	-	-
w.s. central	27,334	4,182	2	-	1,303	-	3	-	29
Aik. La	2,399 4 287	200 710	3	_	30	_	1	_	1
Okla.	3,212	272	5	-	-	_	1	-	-
Tex.	17,656	2,920	108	-	1,242	-	1	-	27
Mountain	14,381	1,349	201	1	423	3	6	-	3
Mont.	824	22	-	-	12	-	-	-	1
Idaho	1,067	35	8	-	25	-	-	-	-
Wyo.	466	5	4	-	6 124	-	-	-	1
N Moy	3,470	410	57 25	_	60	3	- 2	_	-
Ariz	3.832	386	25 95	_	118	-	1	_	-
Utah	1,813	135	4	-	23	_	3	-	-
Nev.	1,327	249	8	1	53	-	-	-	-
Pacific	40,726	9,532	1,276	-	3,771	12	44	3	37
Wash.	5,136	551	38	-	NN	-	2	-	1
Oreg.	2,977	289	89	-	NN	1	1	-	-
Calif. Alaska	30,867	8,539	1,120	-	3,646	2	3/	3	35
АІд5Кд Наууаіі	587 1 140	120	ຽ ວ1	-	۱۵ 107	9	2	_	I
Guam	122	130	1		107	_	J _	_	
P.R.	3.522	1.623	3	_	189	_	_	_	_
V.I.	102	11	_	-	-	-	-	-	-
C.N.M.I.	43	-	1	-	-	-	-	-	-
American Samoa	a 47	-	-	-	-	-	-	-	-

\*Total reported through December 31, 1992. <sup>†</sup>Includes wound and unspecified botulism. <sup>§</sup>NY population estimate includes NYC.

NN: Not notifiable

NA: Not available

	Encephalitis Hansen									
Area	Chancroid	Cholera	Diphtheria	Primary infections	Post- infectious	Gonor- rhea	Granuloma inguinale	Haemophilus influenzae	disease (leprosy)	
United States	1,886*	103 <sup>†</sup>	4	774	129	501,409*	6*	1,412	172	
New England	15	2	-	28	1	10,192	1	48	6	
Maine N H	- 2	_	_	3	- 1	96 145	_	6	_	
Vt.	-	_	_	6	-	26	_	1	_	
Mass.	13	-	-	13	-	3,587	1	20	6	
R.I.	-	-	-	3	-	669 5 440	-	- 12	-	
Mid Atlantic	825	2 4	- 1	56	12	60 705	_	173	- 18	
N.Y.(excl.NYC	2) 3	-	-	31	-	11,935	_	58	1	
N.Y.C	818	3	-	6	3	21,813	-	33	15	
N.J. Pa	4	1	- 1	_ 10	-	6,822 20 135	_	22	2	
E.N. Central	145	_	-	182	29	<b>91.343</b>	_	220	_	
Ohio	7	-	-	56	2	27,765	-	116	-	
Ind.	2	-	-	13	12	9,273	-	19	-	
III. Mich	135	-	-	82	6	29,181	-	53	-	
Wis.	1	_	_	6	-	3,657	_	12	_	
W.N. Central	12	-	-	54	6	25,888	-	158	2	
Minn.	-	-	-	22	-	3,152	-	46	1	
lowa Mo	1	-	-	- 16	3	1,654	-	- 01	-	
N.Dak.	-	_	_	3	_	71	_	3	_	
S.Dak.	-	-	-	3	1	168	-	4	1	
Nebr.	-	-	-	5	2	1,556	-	10	-	
S Atlantic	ა 165	- 5	-	176	- 66	4,404 142 061	_	328	-	
Del.	2	-	-	7	-	1,787	_	2	-	
Md.	4	3	-	19	-	16,988	-	81	-	
D.C.	1	-	-	1	_ 12	8,031	-	- 24	-	
wa. W.Va.	_	_	-	43	-	800	_	12	2 _	
N.C.	38	-	-	26	-	26,367	-	64	-	
S.C.	3	-	-	-	-	11,128	-	37	-	
Ga. Fla	21	2	- 1	2	53	32,422	_	66 30	3 1	
E.S. Central	43	-	1	34	1	50,122	-	78	2	
Ky.	4	-	1	21	-	4,671	-	19	2	
Tenn.	39	-	-	7	-	15,732	-	34	-	
Ala. Miss	-	-	_	5	-	12,118	_	20	-	
W.S. Central	660	7	_	106	5	64,232	3	79	52	
Ark.	-	-	-	3	-	7,461	-	5	-	
La.	341	2	-	11	1	14,153	3	1	-	
Okia. Tex	319	- 5	_	5 87	2	36,157	_	31 42	- 52	
Mountain	3	17	1	33	5	12,622	2	129	1	
Mont.	-	-	-	1	1	110	-	4	-	
Idaho	-	-	-	-	-	121	-	3	-	
vvyo. Colo	-	_	_	2 11	- 1	4 679	_	8 29	_	
N.Mex.	-	-	1	4	1	921	-	9	1	
Ariz.	1	2	-	2	1	4,187	2	47	-	
Utan	1	- 15	_	5	1	385	_	9 20	_	
Pacific	18	68	_	105	4	44.244	_	199	85	
Wash.	2	2	-	2	_	4,169	-	22	14	
Oreg.	_	-	-	_	-	1,765	-	_	2	
Calif. Alaska	16	64	_	96 7	3	36,971	_	165	50	
Hawaii	-	2	-	-	- 1	686	-	10	- 19	
Guam	-	-	-	-	-	74	-	_	-	
P.R.	14	-	-	-	2	422	-	8	-	
V.I. C.N.M.I	6	-	-	-	-	114	-	-	ן ז	
American Sa	moa –	-	-	-	-	-	-	-	-	

## NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1992 (continued)

\*Cases updated through February 28, 1993.
 <sup>†</sup>Includes 100 imported cases. Seventy-five (75) cases were included in an outbreak reported to the Los Angeles County Health Department and the California Department of Health Services—57 in California, 15 in Nevada, 2 in Arizona, and 1 in Hawaii.

Area	Hepatitis A	Hepatitis B	Hepatitis non-A, non-B	Hepatitis unsp.	Legionel- losis	Lepto- spirosis	Lyme disease	Lympho- granuloma venereum	Malaria
United States	23,112	16,126	6,010	884	1,339	54	9,895	302*	1,087
New England	618	656	107	28	50	-	2,327	12	48
Maine	29	27	6	_	2	-	16	-	1
N.H.	32	50	24	5	7	-	44	-	3
VI. Mass	14	1/	1/ 52	-	2	-	222	- 12	24
R I	170	20	- 53	23	16	_	223	12	- 24
Conn.	81	159	-	-	NN	-	1,760	-	14
Mid. Atlantic	1,804	1,959	332	23	322	2	5,309	133	305
N.Y.(excl.NYC)	355	513	195	12	106	1	3,345	5	48
N.Y.C	883	440	6	-	10	-	103	128	169
N.J. Pa	311	511	97	- 11	32	- 1	688 1 172	-	54 24
F. Contral	200	490 1 022	34 831	30	353	1	655	-	34 82
Ohio	449	235	97	4	158	-	32	-	16
Ind.	799	233	27	2	37	2	22	1	10
III.	779	395	122	10	37	-	41	3	27
Mich.	151	584	486	14	73	1	35	-	15
Wis.	935	481	99	-	48	1	525	-	11
W.N. Central	3,203	/83	169	19	/8	1	422	3	48
iviinn. Iowa	885	95 33	26	35	0 18	-	197	_	21
Mo.	1,500	535	27	9	28	_	150	3	12
N.Dak.	143	4	4	1	2	-	1	_	1
S.Dak.	215	5	_	-	1	-	1	-	2
Nebr.	266	45	89	1	18	-	22	-	1
Kans.	141	00	16	-	5	_	18	-	0
	1,444	2,083	990 204	131	221	4	003 210	104	242
Md	256	402	36	11	39	_	183	2	63
D.C.	17	85	278	-	22	_	3	13	15
Va.	164	193	48	53	29	2	123	41	47
W.Va.	10	54	7	28	-	-	14	-	2
N.C.	110	431	91	-	48	2	6/	8	34
Ga	22	321	138	-	20	_	48	7	17
Fla.	581	934	193	36	28	_	24	31	57
E.S. Central	350	1,644	1,290	136	57	2	69	11	19
Ky.	139	110	6	1	27	-	28	3	2
Tenn.	115	1,053	1,265	133	24	1	31	8	9
Ala. Miss	53	138	18	1	6	1	10	-	6
WS Contral	43 2 426	2 001	160	202	42	-	- 167	17	56
Δrk	2,430	108	400	202	43	<del>7</del> 1	20		
La.	234	261	127	3	7	3	20	17	2
Okla.	219	189	47	5	11	_	27	-	5
Tex.	1,828	1,533	281	191	24	5	113	-	45
Mountain	3,494	810	332	78	118	-	16	1	34
Mont.	87	40	28	1	9	-	-	-	-
Wyo	130	84 22	-	3	2	_	2	_	1
Colo.	883	121	100	36	24	_	-	_	10
N.Mex.	343	209	53	8	3	-	2	-	4
Ariz.	1,225	198	34	18	40	-	-	1	10
Utah	695	29	36	11	11	-	6	-	5
Nev.	4 450	107 2 5 7 9	1 402	ן דכר	23	-	247	- 17	ა ენე
Wash	UCO,U 2A2	3, <b>3/8</b> 202	1,4 <b>73</b> 195	237 10	<b>91</b> 1 <i>1</i>	32	<b>∠4</b> / 1/	17 2	<b>202</b> 01
Oreq.	550	305	85	9	14	_	NN	<u>ک</u>	<u> </u>
Calif.	4,936	2,836	1,046	207	71	2	231	15	219
Alaska	130	21	7	2	-	-	-	-	1
Hawaii	171	18	170	9	5	30	2	-	11
Guam	8	8 201	[ ۲۰۵	9	- 1	-	-	-	3
r.n. VI	55	7	- 307	o _	-	-	_	_	_
C.N.M.I.	5	, _	-	-	-	-	_	-	-
American Sam	noa 5	5	-	-	-	-	-	-	-

\*Cases updated through February 28, 1993.

NN: Not notifiable

	Meas	les	Meningo- coccal		Murine typhus			Polio- myelitis,
Area	Indigenous	Imported	infections	Mumps	fever	Pertussis	Plague	paralytic
United States	2,084	153*	2,134	2,572	28	4,083	13	_ †
New England	53	13	134	23	-	736	-	-
N H	- 13	4	12	- 8	_	13 192	-	_
Vt.	-	-	11	2	-	32	-	-
Mass.	17	5	50	3	-	443	-	-
R.I.	21	-	7	2	-	6	-	-
Mid Atlantic	∠ 107	4 21	44 204	205	- 2	50 405	-	-
N Y (excl NYC)	102	10	<b>294</b> 118	205	3	405	_	-
N.Y.C	55	13	28	12	-	24	_	-
N.J.	38	4	51	18	-	60	-	-
Pa.	2	4	97	87	-	148	-	-
E.N. Central	46	15	351	363	1	743	-	-
Unio	- 20	6	86 38	11/	_	64	_	_
III.	20 14	4	99	128	- 1	54	_	_
Mich.	11	2	87	85	_	16	-	-
Wis.	1	3	41	21	-	490	-	-
W.N. Central	8	6	104	92	-	352	-	-
Minn.	7	5	21	26	-	141	-	-
Mo	_	-	18	13	_	120	_	_
N.Dak.	_	_	1	4	_	15	_	_
S.Dak.	-	-	1	_	-	17	-	-
Nebr.	-	-	14	7	-	14	-	-
Kans.	1	-	1/	3	-	34	-	-
S. Atlantic	118	15	391	840	3	221	-	-
Del. Md	I Q	- 7	2 34	93	- 2	8 47	_	_
D.C.	1	1	3	7	-	1	_	_
Va.	11	5	61	58	-	18	-	-
W.Va.	_	-	18	31	-	9	-	-
N.C.	23	1	87	219	-	43	-	-
Ga	29	-	27	52 84	-	28	_	_
Fla.	42	-	104	288	-	57	-	-
E.S. Central	450	18	133	66	-	47	-	-
Ky.	449	2	46	4	-	14	-	-
Tenn.	-	-	34	15	-	10	-	-
Ala. Miss	- 1	- 16	40 13	14	_	20	_	_
WS Central	1 097	15	193	460	18	248	_	_
Ark	-	-	23	16	-	17	_	_
La.	1	2	38	35	-	18	-	-
Okla.	12	-	21	21	-	52	-	-
Tex.	1,084	13	111	388	18	161	_	-
Mountain	28	9	105	163	1	448	12	-
Idaho	_	_	15	2	-	46	-	_
Wyo.	1	_	3	1	-	-	1	_
Colo.	23	8	30	34	-	111	-	-
N.Mex.	1	1	10	NN	-	103	4	-
Ariz.	3	-	21	84	-	132	4	-
Nev	-	-	11	14	-	45	1	_
Pacific	87	31	429	360	2	883	1	-
Wash.	_	11	86	18	_	241	-	-
Oreg.	2	1	-	NN	-	47	-	-
Calif.	52	9	326	311	2	521	1	-
Alaska Hawaii	8 25	1 0	10	ა ეგ	_	18 56	_	-
Guam	25	3	4	33	-	- 50		-
P.R.	1,058	6	7	3	-	14	-	-
V.I.	-	-	-	23	-	-	-	-
C.N.M.I.	_	7	-	2	-	2	-	-
American Samoa	1 –	-	-	-	-	-	-	-

\*For measles only, imported includes both out-of-state and international importations. <sup>†</sup>Ten (10) suspected cases of paralytic poliomyelitis were reported in 1992. To date, none have been confirmed.

NN: Not notifiable

		_		Rheumatic		Ru	ıbella		
Area	Psitta- cosis	Ra Animal	bies Human	fever, acute	RMSF*	Rubella	Cong. syndrome	Salmonel- losis	Shigel- Iosis
United States	92	8,589	1	75	502	160	11	40,912	23,931
New England	6	931	-	4	7	6	-	3,283	537
Maine	2	1	-	-	-	1	-	185	19
N.H.	-	10	-	NN	-	-	-	339	20
Vt. Mass	-	24	-		- 2	-	-	160	8
R I	4	57	_		3 2		-	1,000	274
Conn.	_	838	_	4	2	1	_	726	146
Mid. Atlantic	25	2,848	-	1	49	14	5	7,065	2,027
N.Y.(excl.NYC)	14	1,720	-	NN	16	8	3	2,010	455
N.Y.C	1	41	-	NN	7	-	-	1,824	750
N.J.	1	726	-	1	13	3	-	1,083	264
Pa.	9	361	-	NN 10	13	3	2	2,148	558
E.N. Central	9	162	-	10	25	11	-	5,090	3,019
Unio	2	14	-	4	14	-	-	1,139	355
III.	3	40	_	2	2	9	_	1.711	1.363
Mich.	2	15	-	-	3	2	_	872	577
Wis.	1	74	-	4	3	-	-	882	506
W.N. Central	5	1,042	-	7	36	8	2	2,019	1,785
Minn.	-	173	-	1	-	-	1	547	102
lowa	2	175	-	5	3	3	-	339	_46
MO. N Dak	1	3/	-	-	24	1	-	426	/42
N.Dak. S Dak	-	144	_	1	-	_	_	125	133
Nebr.	_	13	_	NN	3	_	_	207	485
Kans.	1	374	-	_	5	4	1	304	266
S. Atlantic	6	1,905	-	2	185	20	-	8,539	3,482
Del.	-	213	-	NN	15	-	-	239	21
Md.	2	553	-	NN	16	5	-	1,024	449
D.C.	-	18	-	NN	1	-	-	133	130
Va.	1	362	-	NN	26	- 1	-	957	253
VV.Va. N.C	- 2	54 70	_		5 70	-	_	055	13
S.C.	-	165	_	NN	8	7	_	626	131
Ga.	1	367	-	NN	42	-	-	1,517	565
Fla.	-	124	-	NN	2	7	-	2,950	1,464
E.S. Central	3	207	-	-	62	1	-	2,002	877
Ky.	-	62	-	NN	8	-	-	319	168
Tenn.	2	53	-	-	51	1	-	509	417
Ala. Miss	I	91	-	NN	3	-	-	519	1/0
WS Control	-	745	-	-	120	10	-	2 207	122
Ark	1	/43	-	-	24	10	1	3,291	4,077
la	_	47	_	NN	24	_	_	639	192
Okla.	_	219	_	NN	93	1	_	379	254
Tex.	1	471	-	NN	1	9	1	1,933	3,568
Mountain	9	247	-	33	12	10	-	1,888	2,050
Mont.	1	24	-	NN	3	-	-	109	214
Idaho	-	7	-	NN	1	1	-	122	59
Wyo.	-	82	-		4	-	-	48	72
COIO. N. Mox	2	25	-	1	- 1	2	-	523	308
Ariz	3	74	_	NN	_	2	_	243 551	816
Utah	1	6	_	23	1	3	_	159	186
Nev.	1	20	-	NN	2	2	-	133	63
Pacific	28	502	1	18	6	80	3	7,729	6,077
Wash.	12	7	-	-	-	8	-	609	439
Oreg.	5	2	-	NN	3	2	-	486	292
Calif.	11	468	1	16	3	47	3	6,227	5,198
Alaska Hawaii	-	25	-		_	22	_	80 207	24 124
Guam	_			-		<u>23</u>		64	165
P.R.	_	55	_	_	_	1	_	662	82
V.I.	-	-	-	2	-	-	-	8	4
C.N.M.I.	-	-	-	2	-	2	-	40	69
American Samoa	-	-	-	-	-	-	-	20	9

\*Rocky Mountain spotted fever.

NN: Not notifiable

	S	Syphilis			Toxic-					Varicella
Area	Primary & secondary	Cong. (<1 yr.)	All	Tetanus	shock	Trich- inosis	Tuber- culosis	Tularemia	Typhoid fever	(chicken- pox)
United States	33,973*	3,850*	112,581*	45	244	41	26,673	159	414	158,364
New England	667	32	2,148	3	14	4	687	1	31	11,652
Maine	8	-	12	-	2	-	24	-	-	2,011
N.H. Vt	48 1	-	63 2	- 1	6 1	_	18	-	1	NA NN
Mass.	323	4	1,046	1	3	2	428	1	20	7,739
R.I.	30	2	182	-	2	-	54	-	-	1,902
Conn.	257	26	843 22 547	1	-	2	156	-	9 115	NN 4 570
N V (eycl NVC)	4,209 347	1,330 60	23,307 1 967	5 1	25 10	2	0,310 763	_	20	0,3/9 NN
N.Y.C	2,243	898	13,459	1	-	-	3,811	-	50	6,579
N.J.	595	104	2,736	2	-	-	984	1	25	NN
Pa.	1,084 5 002	2/4	5,405	I E	15	-	/58 2 474	-	20	ININ 75 202
Ohio	3,092 888	59	2 153	-		-	2,470	- -	10	6 989
Ind.	294	3	766	-	5	-	247	-	1	NN
III.	2,380	396	6,297	1	12	-	1,270	2	25	33,601
Wis	95 I 579	/3 10	2,762 949	4	22	_	495 106	-	4	34,793 NA
W.N. Central	1.604	42	2.891	2	41	1	586	52	7	20.004
Minn.	90	6	275	_	8	1	165	-	2	NN
lowa	61	-	155	1	7	-	49	-	1	4,768
IVIO. N Dak	1,168	28	1,941	-	9 4	_	245 11	34	3	10,009
S.Dak.	1	-	1	-	-	-	32	11	-	471
Nebr.	22	4	64	-	5	-	28	4	1	33
Kans.	262	4	453	-	8	-	56	3	- 20	4,1/9
	9,159 209	907 A	29,371 437	5	28	_	4,783	0	30	9,811
Md.	592	43	2,207	-	4	-	442	2	8	NN
D.C.	431	217	2,124	-	-	-	146	-	1	19
Va. W/Va	/28	59	2,014	-	5	_	457	2	5	3,911
N.C.	2,476	72	5,230	1	3	_	604	1	-	5,007 NN
S.C.	1,270	56	2,816	-	1	-	387	-	2	861
Ga.	1,811	178	5,950	1	5	-	893	1	3	NN
FIG. FS Central	3 867	330 97	0,319 9 711	3 1	3 4	1	1,707	- 7	5	5 027
Ky.	182	8	394	-	_	-	402	2	1	2,147
Tenn.	1,212	51	3,263	-	4	1	527	5	-	2,880
Ala.	1,011	12	2,607	1	-	-	418	-	1	NN
WISS.	1,40∠ 7 304	20 <b>396</b>	3,447 20 431	10	- 9	_	3 356	- 54	د 25	20 555
Ark.	886	34	2,169	3	5	-	257	39	1	NN
La.	2,729	1	6,590	1	-	-	373	2	1	NN
Okla.	346	23	812	1	3	-	216	13	-	20 55 5
Mountain	3,343 <b>324</b>	330 26	1 148	5 1	27	_	2,510 678	- 28	23 6	20,555 8 344
Mont.	7	-	14	-	1	-	16	12	-	NA
Idaho	2	-	27	-	2	-	26	-	1	NN
Wyo.	2	1	6 207	-	2	-	104	1 5	-	NN
N.Mex.	40	-	138	_	10	_	88	5	2 -	NN
Ariz.	158	18	540	1	5	-	259	_	2	7,602
Utah	9	-	53	-	6	-	78	2	-	742
Nev.	44	0 /13	103 10 387	- 12	- 11	32	6 163	3 7	146	1 000
Wash.	85	11	415	3	7	-	306	2	11	NN
Oreg.	47	-	217	3	2	-	145	-	2	NN
Calif.	1,540	402	9,684	7	32	4	5,382	2	126	NN
Hawaii	5 10	_	30 41	_	_	28 _	57 273	3 -	- 7	1.009
Guam	-	-	2	-	-	-	-	-	2	586
P.R.	437	26	1,946	1	-	-	312	-	2	8,513
V.I. CNMU	21	2	51	- 1	-	-	2	-	- 1	192
American San	noa –	-	-	-	_	_	1	_	1	75

\*Cases updated through February 28, 1993.

NN: Not notifiable NA: Not available

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