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Epidemiologic Notes and Reports

Acute Pulmonary Hemorrhage/Hemosiderosis Among Infants — Cleveland, January 1993–November 1994

Hemosiderosis is an uncommon childhood disease characterized by spontaneous pulmonary hemorrhage often associated with iron deficiency anemia. During January 1993–November 1994, eight cases of acute pulmonary hemorrhage/hemosiderosis were diagnosed among infants at a children's referral hospital in Cleveland. In comparison, during 1983–1993, a total of three cases of pulmonary hemosiderosis were diagnosed among infants and children at this hospital. This report summarizes the preliminary results of the ongoing epidemiologic, clinical, and laboratory investigations by pediatric pulmonologists in Cleveland, the Ohio Department of Health, the City of Cleveland Department of Public Health, the Cuyahoga County Board of Health, and CDC.

In 1993, cases were diagnosed in January (one case) and October (one); in 1994, cases were diagnosed in March (one), June (one), July (two), September (one), and November (one). For each of the eight infants (mean age: 10.3 weeks; range: 4 weeks–16 weeks), onset of hemoptysis was associated with pallor and an abrupt cessation in crying; fever was not reported for any of the infants. Other reported symptoms on admission included limpness, lethargy, and grunting. At the time of initial evaluation at the hospital, seven infants required admission to the pediatric intensive-care unit because of hemoptysis and respiratory distress.

All eight infants were black, and seven were male. The median age of their mothers was 20 years (range: 15–29 years). Seven of the pregnancies and deliveries occurred without complications; one infant born at 27 weeks' gestation and weighing 2 lbs, 2 oz (950 g) had complications of severe prematurity. All infants lived within a 6-mile radius of the hospital. No infants were breast fed; before admission, all were fed cow's-milk-based formula.

Laboratory findings on admission included a normal white blood cell count (median=13.8 cells/mm³) and features consistent with a normocytic, normochromic anemia characteristic of acute blood loss with a mean hematocrit of 27.1% (normal: 36.0%–47.0%) and a mean hemoglobin of 9.1 g/dL (normal: 10.0–15.0 g/dL). Red blood cell morphology was suggestive of a microangiopathic process: microscopic exam-

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ination indicated that five of the eight infants had mild to moderate (1+ to 2+) hemolysis characterized by the presence of microcytes, burr cells, spherocytes, and bizarre fragments. Based on guaiac testing, occult blood was present in the stool of three infants. Results of coagulation studies included normal prothrombin and partial thromboplastin time for all infants. Chest radiographs of all infants showed diffuse, bilateral infiltrates consistent with pulmonary hemorrhage. In six infants, the mean serum magnesium level was 2.1 mg/dL (normal: 1.4–1.9 mg/dL).

Cultures of blood, urine, and bronchoalveolar lavage from seven infants were negative for bacterial, mycotic, and viral pathogens. Cultures of bronchoalveolar lavage from one infant grew *Bacillus* sp. Hemosiderin-laden macrophages—indicating continued pulmonary hemorrhage—were detected in each of the seven infants who underwent bronchoscopy more than 2 weeks after the acute hemorrhage. No other source of bleeding (i.e., gastrointestinal or nasopharyngeal) was identified during endoscopic evaluation. Immunoglobulin G levels to cow's milk proteins were above normal (>20 U/mL) in five of seven infants.

Five infants required mechanical ventilation for an average of 5 days. All infants survived the first hospitalization and were discharged in stable condition without evidence of hemoptysis after a median length of stay of 10 days (range: 2–35 days). In five infants, acute hemoptysis necessitating readmission recurred within 1 day to 6 months of discharge. One death—attributed to severe hypoxic encephalopathy secondary to recurring pulmonary hemorrhage—occurred in a 9-week-old full-term infant.

Local surveillance measures and active case finding have not identified additional cases in the Cleveland area. A case-control study is under way to determine risk factors for acute pulmonary hemorrhage among infants.

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Editorial Note: The eight cases of acute pulmonary hemorrhage/hemosiderosis described in this report exceed the number expected at this hospital during a 2-year period. Massive acute pulmonary hemorrhage occurs rarely in infants; it usually is attributed to cardiac or vascular malformations, infectious processes, immune vasculitides, trauma, or known milk protein allergies. Cases for which the etiology is undetermined, such as these eight reported from Cleveland, traditionally have been classified as idiopathic pulmonary hemosiderosis (IPH) and account for less than 5% of all cases of pulmonary hemorrhage during infancy.

The pathologic mechanism for IPH in children is unknown. Recent histomorphologic techniques suggest that the initial histopathologic damage occurs at the alveolar epithelial surface (1). IPH has been associated with circulating antibodies to cow's milk protein; however, this association has not been consistently reproduced (1,2). In addition, some reports have described familial occurrences of pulmonary hemosiderosis, suggesting a possible genetic vulnerability to a toxicant (3,4).

To identify additional cases of acute pulmonary hemorrhage/hemosiderosis, CDC has established the following provisional surveillance case definition: hemoptysis in an infant aged <1 year not attributed to cardiac or vascular malformations, infectious

Pulmonary Hemorrhage/Hemosiderosis - Continued

processes, or trauma. A case report form is available from CDC. Physicians should report possible cases through state health departments to CDC's Air Pollution and Respiratory Health Branch, Division of Environmental Hazards and Health Effects, National Center for Environmental Health; Internet: rae1@cehdeh1.em.cdc.gov; telephone (404) 488-7320; or fax (404) 488-7335.

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Epidemiologic Notes and Reports

Injuries Among Construction Workers During the Raising of Wood-Framed Walls — Colorado and California

In Colorado, traumatic spinal cord injuries that produce documentable motor, sensory, bowel, and/or bladder impairments must be reported to the state or local health department. Persons with such injuries are interviewed by staff of the Colorado Department of Public Health and Environment (CDPHE) Spinal Cord Injury Early Notification System (ENS)*; injuries that occur in workplaces are investigated by staff of the CDPHE Sentinel Event Notification System for Occupational Risk (SENSOR) program[†]. This report describes the investigation of a construction-related spinal cord injury reported to the CDPHE SENSOR program on February 8, 1993, and summarizes information about a similar case in California.

On February 1, 1993, the construction worker sustained a spinal cord injury—which resulted in permanent paraplegia—while attempting to raise a preconstructed wood-framed wall of a single-family house. A crew of three workers was using a standard procedure that consisted of laying the wall on the ground and "walking it up" to a vertical orientation. The wall was approximately 18 feet wide and 25 feet high at the center peak. During the procedure, two workers were positioned at the outer edges of the wall and one in the center. As the workers were raising the wall, they realized it was too heavy for them to control, possibly because it had become wet from snow that had accumulated on it during the previous evening. While the crew was attempting to lower the wall back to a horizontal orientation, the weight of the wall shifted; the crew lost control of the wall, and it fell to the ground. The worker in the center could

^{*}Colorado is one of 21 states with spinal cord injury registries. Colorado's registry, the ENS, begun in January 1986, is a collaborative project between the Rocky Mountain Regional Spinal Injury System and the CDPHE and is funded through a National Institute on Disability, Rehabilitation, and Research grant and a cooperative agreement with CDC.

[†]During 1987–1992, CDC funded SENSOR projects in 10 states to develop state-based capacity for recognizing, reporting, investigating, and preventing selected occupational disorders. These 10 states and four additional states received renewed SENSOR funding in 1992.

Construction Work Injuries — Continued

not escape the falling wall and was trapped under it, sustaining a fracture dislocation of the seventh thoracic vertebra and spinal cord injury.

During the investigation of this injury, Colorado SENSOR staff determined that the building technique used in this incident is common in the construction industry and that many companies employ similar practices for raising prefabricated walls. Colorado SENSOR staff learned of a similar incident that had occurred in California and resulted in a permanently disabling spinal cord injury. In that incident, an unspecified number of workers were raising a 19 x 17½-foot rain-soaked wood-framed wall with an attached chimney chase. As the workers attempted to lift the wall, the base slipped forward, causing the wall to fall back toward the workers. Although most of the workers were able to clear the area before the wall collapsed, three were pinned beneath the wall as it fell. One of the three sustained fracture dislocations of the T12 and L1 vertebrae, spinal cord injury, and subsequent permanent paralysis.

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Editorial Note: The estimated annual incidence of acute traumatic spinal cord injury in the United States ranges from 28 to 50 injuries per million persons $(1)^{\$}$. During 1988 (the most recent year for which national published data are available), the estimated prevalence of spinal cord injuries that resulted in paraplegia and quadriplegia was approximately 177,000 (2). Most injuries (61%) occurred in persons aged 16–30 years (3). During 1988, the estimated total cost of spinal cord injuries in the United States was \$5.6 billion: \$3.4 billion in direct costs (i.e., hospitalization and other medical care, home modifications, equipment, and pharmaceuticals) and \$2.2 billion in indirect costs (i.e., the value of productivity lost to society) (2).

During January 1989–December 1992, the average annual rate for spinal cord injury in Colorado ranged from 34 to 43 cases per 1 million population (mean: 37) (4). Of the 506 spinal cord injury cases reported in Colorado during this period, 51 (10%) occurred on the job (4), including 14 (27%) among workers in the construction industry.

The California Occupational Safety and Health Standards Board has promulgated regulations for the raising of wood-framed walls at construction sites. The regulation requires that temporary restraints (e.g., cleats on the foundation or floor, or straps on the wall bottom plate) be used when raising wood-framed walls measuring 10 or more feet to prevent inadvertent sliding or uplift of the bottom plate; anchor bolts cannot be used to brace such walls. Compliance with the procedures outlined in this standard—if it had been in effect—may have prevented the incidents in both California and Colorado.

Securing the base of a wall being raised manually is an important measure for reducing some risks associated with raising wood-framed walls. Other measures include 1) establishing industry guidelines that classify size categories of walls according to linear feet of wood in the wall, specify the personnel or equipment required for raising each category of wall, and provide an upper limit beyond which cranes or

[§]The range in estimated incidence rates reflects differences in case definitions. Some studies, for example, include hospital admissions only, which exclude acute fatal injuries.

Construction Work Injuries - Continued

boom trucks must be used to raise the wall; 2) using pulley systems or hydraulic jacks to raise walls; 3) developing a bracing system to arrest the fall of a wall; and 4) establishing and enforcing company and industry policies that prohibit raising of wet wood-framed walls unless additional employees or other raising techniques are used.

To further characterize incidents similar to those described in this report and to assist in developing prevention measures, information about other injuries that have resulted from raising wood-framed walls in construction operations should be reported to Acting Chief, Injury Surveillance Section, Surveillance and Field Investigation Branch, Division of Safety Research, National Institute for Occupational Safety and Health; telephone (304) 285-5916.

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International Notes

Progress Toward the Global Elimination of Neonatal Tetanus, 1989–1993

Neonatal tetanus (NT) is a leading cause of neonatal mortality in many parts of the world. During the 1980s, NT accounted for half of all neonatal deaths and one fourth of all infant mortality in some countries (1). In addition, in 1993, an estimated 515,000 neonatal deaths were caused by NT* (2) for a global mortality rate of 4.1 per 1000 live births. In 1989, the World Health Organization (WHO) adopted a resolution to eliminate NT worldwide (3), and in 1990, the World Summit for Children issued a declaration for global elimination of NT by the end of 1995 (4). In 1993, WHO's goal was defined as the elimination of NT as a public health problem by reducing its incidence to less than one case per 1000 live births for each health district (2) (baseline: in 1988, a total of 32,454 NT cases were reported to WHO and an estimated 787,000 NT deaths occurred; the global NT mortality rate was 6.5 cases per 1000 live births [5])[†]. To achieve and maintain NT elimination, 80% or more of infants need to be protected at birth through vaccination of their mothers with at least two doses of tetanus toxoid (TT2+) or through clean delivery and cord-care practices (2). In addition, effective surveillance

^{*} Estimates of NT deaths are derived from national mortality data, NT mortality rates from NT surveys, or in the absence of surveys, by assuming that rates are similar for countries with similar socioeconomic conditions and from tetanus toxoid coverage levels.

[†]Because the case-fatality rate for NT is high (100% in some countries), WHO estimates only the number of deaths for NT, not number of cases.

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systems must be developed to detect NT cases and enable timely investigation of them. This report, which is based on data from WHO, presents reported coverage with TT2+ in developing countries[§] only and reported number of NT cases and estimated number of NT deaths in all countries, and summarizes progress toward the global elimination of NT during 1989–1993 (WHO, unpublished data, 1994).

Global. From 1989 to 1993, vaccination coverage with TT2+ among pregnant women increased from 27% to 45% (Figure 1). During the same period, the number of NT cases reported to WHO decreased from 29,494 in 1989 to 14,232 in 1993. However, only 2%–5% of all NT cases were reported (2). Of the estimated 515,000 deaths worldwide, approximately 80% occurred in 12 countries (Table 1). Most deaths (34.2%) occurred in the Southeast Asian Region (Table 2). Overall, an estimated 724,300 deaths attributable to NT were prevented[¶] in 1993 by vaccination with tetanus toxoid. Of the 156 countries reporting NT incidence to WHO in 1993, a total of 79 (51%) reported zero cases. In 1993, a total of 66% of live births occurred in areas with NT surveillance, compared with 39% in 1985 and 73% in 1989.

African Region. Coverage with TT2+ increased from 25% in 1989 to 40% in 1993. In 1993, a total of 3461 cases (24% of the global total) were reported, compared with 7299 cases in 1989. Of the 47 countries in the region, 36 (77%) reported NT incidence to WHO for 1993; of these, four reported zero cases.

Region of the Americas. From 1989 through 1993, TT2+ coverage increased from 29% to 40% in the Region of the Americas, where major efforts were undertaken to

[¶]The number of NT deaths prevented was calculated for each country using the number of live births, NT mortality rate, and tetanus toxoid coverage and efficacy.





^{*} In developing countries only.

Source: Global Program for Vaccines and Immunization, World Health Organization, 1994.

[§]Countries are categorized as developing based on criteria developed by the United Nations and used by WHO for analytic purposes only.

Neonatal Tetanus — Continued

vaccinate women of childbearing age in high-risk areas. Reported cases decreased from 1430 in 1989 to 708 (5% of the global total) in 1993; Brazil reported 216 cases (31% of the regional total for 1993). Of the 47 countries in the region, 40 (85%) reported NT incidence to WHO for 1993; of these, 25 reported zero cases.

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TABLE 1. Number of reported cases of neonatal tetanus (NT), estimated number of NT deaths* and NT deaths that were prevented[†], and percentage of pregnant women who had received two or more doses of tetanus toxoid (TT2+) among the 12 countries that represent 80% of NT deaths worldwide, 1993

Country	No. reported cases	Estimated no. deaths	Estimated no. prevented deaths	TT2+ coverage (%) among pregnant women
India	4,339	101,000	289,700	78
China	NA§	98,000	1,900	2
Pakistan	1,685	44,000	34,000	46
Nigeria	1,984	39,000	17,700	33
Bangladesh	720	30,000	144,700	73
Indonesia	566	28,000	49,200	67
Ethiopia	NA	23,000	3,300	13
Zaire	90	13,000	4,900	29
Nepal	20	10,000	1,300	12
Somalia	NA	10,000	500	5
Sudan	71	9,000	800	9
Ghana	8	6,000	900	14

* Estimates of NT deaths are derived from national mortality data, NT mortality rates from NT surveys, or in the absence of surveys, by assuming that rates are similar for countries with similar socioeconomic conditions and from tetanus toxoid coverage levels.

[†]The number of prevented NT deaths was calculated for each country using number of live births, NT mortality rate, and tetanus toxoid coverage and efficacy.

§Not available.

Source: Global Program for Vaccines and Immunization, World Health Organization, 1994.

Region	Estimated no. deaths	(%) †
 Southeast Asian	176,000	(34.2%)
African	145,000	(28.2%)
Western Pacific§	110,000	(21.4%)
Eastern Mediterranean	80,700	(15.7%)
Region of the Americas	2,000	(0.4%)
European [¶]	1,300	(0.3%)
Total	515,000	(100.0%)

TABLE 2. Estimated number of deaths* attributable to neonatal tetanus (NT), by region — worldwide, 1993

*Estimates of NT deaths are derived from national mortality data, NT mortality rates from NT surveys, or in the absence of surveys, by assuming that rates are similar for countries with similar socioeconomic conditions and from tetanus toxoid coverage levels. [†]Percentages do not total 100 because of rounding.

[§]Includes China, which began administering tetanus toxoid in selected areas in 1992.

[¶]In this region, only Turkey routinely reports tetanus toxoid coverage to WHO.

Source: Global Program for Vaccines and Immunization, World Health Organization, 1994.

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending December 3, 1994, with historical data — United States



- *The large apparent decrease in the number of reported cases of measles (total), and rubella reflect dramatic fluctuations in the historical baseline. (Ratio (log scale) for week 48 measles (total) and rubella are 0.03125 and 0.22388 respectively).
- [†]Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary — cases of specified notifiable diseases, United State	s,
cumulative, week ending December 3, 1994 (48th Week)	

	Cum. 1994		Cum. 1994
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea Haemophilus influenzae (invasive disease) [†] Hansen Disease	72,888 58 73 7 82 31 6 1 98 362,700 1,042 109 24	Measles: imported indigenous Plague Poliomyelitis, Paralytic [§] Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year [¶] Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tuberculosis Tuberculosis	183 691 14 1 38 2 18,751 1,123 34 167 32 20,245 81 284
Lyme Disease	10,624	Typhus fever, tickborne (RMSF)	422

*Updated monthly to the Division of HIV/AIDS, National Center for Infectious Diseases; last update November 29, 1994. [†]Of 992 cases of known age, 280 (28%) were reported among children less than 5 years of age. [§]This case was vaccine-associated. The remaining 6 suspected cases with onset in 1994 have not yet been confirmed. [¶]Total reported to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services,

through second quarter 1994.

Reporting Area Motions Optimary 1994 Protecture 1994 Comm 1994 Comm 1994 <th></th> <th></th> <th>Aseptic</th> <th>Enceph</th> <th>alitis</th> <th colspan="2"></th> <th>Не</th> <th>oatitis (\</th> <th>/iral), by</th> <th>type</th> <th></th> <th></th>			Aseptic	Enceph	alitis			Не	oatitis (\	/iral), by	type		
Lum. Lum. <thlum.< th=""> Lum. Lum. <thl< th=""><th>Reporting Area</th><th>AIDS*</th><th>Menin- gitis</th><th>Primary</th><th>Post-in- fectious</th><th>Gono</th><th>rrhea</th><th>Α</th><th>В</th><th>NA,NB</th><th>Unspeci- fied</th><th>Legionel- losis</th><th>Lyme Disease</th></thl<></thlum.<>	Reporting Area	AIDS*	Menin- gitis	Primary	Post-in- fectious	Gono	rrhea	Α	В	NA,NB	Unspeci- fied	Legionel- losis	Lyme Disease
UNITED STATES 7.456 612 96 36.200 367.46 0.902 10.423 39.33 382 1,473 10.257 Maine 79 31 5 4 7.48 27.48 27.33 31 15 5 5 27 Maine 7.48 27.47 31 12 1 15 57 27 VI 3.43 32 - 1.343 273 12 174 3 13 59 1.447 Conn 866 - - - 3.47 277 126 8 200 2 11 4.45 4.456 Conn 866 130 17 10 11.1339 11.033 6.03 3.41 4 - 102 122 10.62 1.036 3.41 4 - 103 4.44 - 103 4.44 - 103 101 - 1.041 1.03 1.041 1.041 <t< th=""><th></th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1993</th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1994</th><th>Cum. 1994</th></t<>		Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994
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Night Po 32 5 2 80 P< P P P	NEW ENGLAND	2,589	291	19	4	7,634	7,248	273	303	121	15	75	2,507
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B.N. CENTRAL 5.88 1.42 152 12 10.06 17.05 10.70 <th< td=""><td>N.J. Pa</td><td>4,655 2,466</td><td>- 310</td><td>- 17</td><td>- 10</td><td>4,530</td><td>5,557 16 948</td><td>248 165</td><td>324 317</td><td>170 34</td><td>-</td><td>38 132</td><td>1,245 1,255</td></th<>	N.J. Pa	4,655 2,466	- 310	- 17	- 10	4,530	5,557 16 948	248 165	324 317	170 34	-	38 132	1,245 1,255
	F.N. CENTRAL	5,883	1.420	152	22	70.062	77,501	2.225	1.036	287	12	429	130
	Ohio	1,095	364	54	4	20,225	20,819	998	154	23	-	191	74
$ \begin{array}{c} \mbox{Mich.} & \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Ind. III	589 2.896	194 358	11 50	1 5	8,484 17,879	7,970 26,030	346 428	1/1 216	10 61	- 5	104 30	14 11
Wis. CENTRAL 1,502 406 32 8 20,590 20,120 10,58 589 102 12 88 256 Minn. 1,375 25 4 - 3,325 2,262 221 59 13 11 30 16 Mo. 671 150 7 4 11,147 12,206 523 446 39 - 35 61 Mo. 1,004 152 2 4 - 190 243 35 2 1 1 - 2 165 Nok. 15 2 4 - 190 243 35 2 1 1 - 1 Nebr. 84 36 5 3 1,060 484 118 28 14 - 10 2 X Kars. 239 69 7 - 3,000 3,366 99 29 15 - 6 12 X Kars. 239 69 7 - 3,400 3,366 99 29 15 - 6 12 X Kars. 239 5,37 1 - 1,841 1,417 17 17 5 1 - 26 78 Mo. 253 446 1,00 2 233 2,114 596 50 331 819 Del. 247 37 1 - 1,841 1,417 17 7 5 1 - 26 78 Mo. 252 0,000 20 5 1 - 0 0 2 2 378 31 - 0 0 2 2 378 31 - 0 0 2 2 378 31 - 0 0 2 2 378 31 - 0 0 2 12 2 2 378 31 - 0 0 2 12 2 378 31 - 0 0 2 12 2 2 12 2,34 - 10 0 2 2 378 31 - 0 0 2 12 2 2 12 2,35 - 0 0 12 127 W Wa. 76 37 49 - 7 58 606 21 44 41 - 4 26 10 - 2 127 W Wa. 76 37 49 - 7 58 606 21 44 41 - 4 26 10 - 2 127 W Wa. 76 37 49 - 7 58 606 21 44 41 - 4 26 10 - 2 127 W Wa. 76 37 49 - 7 58 606 21 44 41 - 4 26 10 - 2 17 77 75 5. 2 10 - 12 127 W Wa. 76 37 49 - 13,229 4,600 39 25 50 - 27 77 77 5 3. 2071 49 1 - 3,229 4,600 39 25 50 - 27 77 77 5 3. 2071 49 1 - 3,229 4,600 39 25 50 - 27 77 77 5 3. 2071 49 1 - 3,229 4,600 39 24 50 - 27 77 75 5. 2001 2 27 70 42 4 25 10 - 12 77 77 75 5. 2001 3 31 16 4 2 - 10 77 77 75 5. 2007 49 1 - 3,229 4,600 39 3 252 50 - 2 70 42 2 Ky. 296 165 15 1 4,793 4,632 152 69 30 - 9 23 13 13 41 - 4 26 10 - 12 27 W Wa. 76 33 116 12 - 13,209 4,600 39 3 252 60 - 2 70 42 2 Ky. 296 165 15 1 4,793 4,632 152 69 30 - 9 2 3 13 13 41 - 4 2 6 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 2 10 - 10 6 11 3 3 3 41 - 10 6 10 - 10 6 11 3 3 2 1 - 10 6 11 3 3 2 1 - 10 6 11 3 3 2 1 - 10 6 11 3 3 2 1 - 10 6 11 3 3 2 1 - 10 6 11 3 3 2 1 - 10 6 11 1 7 - 10 6 11 1 7 - 10 6 11 1 7 - 10 6 11 1 1 4 8 11 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mich.	960	497	33	12	16,942	16,561	295	373	190	7	75	31
$ \begin{array}{c} 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, $	WIS.	343	/	4	-	6,532 20 500	6, 12 I	1.059	122 500	3 102	- 10	29	-
lowa 96 112 1 1 1 1,442 1,508 58 25 13 111 30 16 Mo. 671 150 7 4 11,144 1,2206 552 446 39 - 35 61 N. Dak. 22 12 4 - 180 51 5	Minn.	375	25	4	- -	3,325	20,120	221	59	21	12	2	165
	lowa Mo	96 671	112 150	1	1	1,442	1,508	58 523	25 446	13 30	11	30 35	16 61
S. Dak. 15 2 4 - 190 243 35 2 - - 1 - Kans. 239 69 7 - 3,408 3,366 98 29 15 - 6 12 S. ATLANTIC 17,49 1,445 142 28 102,190 92,211 1,353 2,114 595 50 331 819 Del. 247 37 1 - 1,841 1,417 1,719 155 1 - 26 78 31 16 87 362 D.C. 1,152 217 40 1 24,17 10,199 175 124 25 10 12 127 W. Va. 76 37 49 - 758 606 21 441 1 4 26 777 75 5. 50 331 184 - 99 106 71 Ga. 2,071 49 1 - 3,328 4,660 33 318 44 -<	N. Dak.	22	12	4	-	18	51	525	440		-	4	-
Name2396497-3,4083,3661982917-612S. ATLANTIC17,4691,44514228102,19092,2111,3532,11459550331819Del.247371-1,8411,4171751-2678Md.2,52623321416,73015,117192378311687362D.C.1,32553-16,5725,50026541-109Va.1,08930130612,41710,799175124251012127W. Va.763749-758606214441-426N.C.1,15221740126,33023,21313925953-2777Ga.2,071491-3,3284,66033531184-99106Fia.7,89448837342,82442,131608108684227042Ky.2961651514,7934,6321526930-9321431313Han.5541577113,60414,794142356571421234Ky.29616	S. Dak. Nebr	15 84	2 36	4	- 3	190 1 060	243 484	35 118	2	- 14	-	1 10	- 2
S. ATLANTIC 17.469 1.445 142 28 102.190 92.211 1.353 2.114 595 50 331 819 Del 247 37 1 2 184 1.417 17 5 1 2 258 50 331 1 2 184 1.417 17 5 5 1 2 2.417 30 25 10 2 378 31 16 87 362 D.C. 1.325 53 - 1 6.572 15.117 192 378 31 16 87 362 D.C. 1.325 53 - 1 6.572 15.117 192 378 31 16 12 127 W. Va. 76 37 49 - 758 606 21 44 41 - 4 26 N.C. 1.152 217 40 1 26.330 23.213 139 259 53 - 27 77 S.C. 1.088 30 12.171 9.800 39 32 10 - 16 7 G.A. 2.071 49 1 - 3.328 4.660 33 531 184 - 99 106 Fla. 2.071 49 1 - 3.328 4.660 33 531 184 - 99 106 Fla. 7.895 488 - 16 22.043 21.599 711 687 249 24 50 27 177 S.C. 1.088 30 12.171 9.800 39 32 10 - 16 7 G.A. 2.071 49 1 - 3.328 4.660 133 531 184 - 99 106 Fla. 7.895 488 - 16 22.043 21.599 711 687 249 24 50 27 172 S.C. 1.086 15 1 1 4.793 4.632 152 69 30 - 9 23 Tenn. 693 116 12 - 14.095 13.166 275 936 793 1 1 43 13 Ala. 554 157 7 1 13.604 14.796 110 8 1.096 793 1 1 43 13 Ala. 554 157 7 1 13.604 14.796 170 8 1 19 1 13 66 MIss. 399 50 3 1 1 0.422 9.537 71 8 1 19 1 1 3 6 MIss. 399 50 3 3 1 0.025 13.164 275 936 793 1 43 13 Ala. 554 157 7 1 13.604 14.796 170 8 1 19 1 1 3 6 MIss. 399 50 3 3 1 0.022 7 .937 71 8 1 19 1 1 3 2 C. 4 Ky. S.CENTRAL 6.982 823 48 2 43.917 41.357 3.045 1.423 565 71 42 123 Ark. 255 47 - 2 3.259 4.339 356 297 326 3 11 73 2 C. 4 N.S. CENTRAL 6.982 823 48 2 2 4.371 4.387 3.045 1.423 565 9 40 MOUNTAIN 2.107 333 12 4 9.019 10.555 4.057 593 423 57 96 19 MOUNTAIN 2.107 333 12 4 9.019 10.555 4.057 593 423 57 96 19 MOUNTAIN 2.107 333 12 4 9.019 10.555 4.057 593 423 57 96 19 MOUNTAIN 2.107 333 12 4 9.019 10.555 4.057 593 423 57 96 30 5 7 2 2 3 3 474 4. 2 2 4.87 7 2 9 3 164 - 6 5 5 60 7 14 2 3 3 41 12 23 3 - 2.679 3.342 324 14 - 2 3 3 41 12 3 3 - 2.679 3.342 324 14 - 6 5 5 6 7 3 40 5 7 7 2 9 3 164 - 6 5 5 6 7 3 40 7 7 2 9 3 164 - 6 5 5 7 9 40 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Kans.	239	69	3 7	-	3,408	3,366	98	29	15	-	6	12
Del. 247 37 1 - 1,841 1,417 17 5 1 - 20 78 33 1 - 20 78 75 1 - 20 78 75 1 - 20 78 75 1 - 20 78 75 1 - 20 78 75 1 - 20 78 75 1 - 10 9 70 75 1 24 75 1 - 10 9 70 75 1 24 75 1 - 10 9 70 75 1 24 75 1 - 10 9 70 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 9 75 1 24 75 1 - 10 7 75 1 24 75 1 - 10 1 9 75 1 24 75 1 - 10 7 75 1 24 75 1 - 10 7 77 75 5. 10 1 2 127 77 75 5. 10 1 2 127 77 75 5. 10 1 2 127 77 75 5. 10 1 2 127 74 0 1 2633 23,213 139 259 53 - 27 77 75 5. 10 1 2 12 77 77 5. 10 1 2 12 127 1 40 1 2633 24,213 139 259 53 - 27 77 75 5. 10 1 2 12 75 1 24 4 41 - 4 26 1 - 16 7 76 1 - 76 1 - 73 28 4,660 33 53 1 184 - 99 106 74 1 - 78 48 3 7 3 42,824 42,131 60 1 0,86 842 2 70 42 1 55 1 5 1 4,793 4,632 152 69 30 - 9 23 1 76 1 - 693 116 12 - 14,005 13,166 27 936 793 1 43 13 43 13 41 - 594 157 7 1 1 3,604 14,796 110 81 19 1 1 3 6 1 18 19 1 13 6 1 18 19 1 1 1 3 6 1 18 19 1 1 1 3 6 1 18 19 1 1 1 3 6 1 18 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S. ATLANTIC	17,469	1,445	142	28	102,190	92,211	1,353	2,114	595	50	331	819
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Del. Md.	247	233	21	4	1,841	1,417	17	5 378	31	- 16	26 87	78 362
va. 1,089 301 30 6 12,417 10,799 124 125 10 12 127 N.C. 1,152 217 40 1 26,330 23,213 319 259 53 - 27 77 S.C. 1,088 30 - - 12,171 9,800 39 32 10 - 16 7 Ga. 2,071 49 1 - 3,328 4,600 39 3531 184 - 99 106 Fla. 7,895 488 - 16 22,043 21,599 711 687 249 24 50 27 E.S. CENTRAL 1,942 488 37 3 42,824 42,131 608 162 2 70 42 Ky. 296 165 15 1 4,793 4,632 77 11 3,604 12,479 73 11 13 6 Miss. 399 50 3 1 10,422 9,537 71	D.C.	1,325	53	-	1	6,572	5,000	26	54	1	-	10	9
N.C. 1,152 217 40 1 26,330 23,213 139 259 53 - 27 77 S.C. 1,088 30 - 12,171 9,800 39 32 10 - 16 7 Ga. 2,071 49 1 - 3,328 4,660 39 33 531 184 - 99 106 Fla. 7,895 488 - 16 22,043 21,599 711 687 249 24 50 27 E.S. CENTRAL 1,942 488 37 3 42,824 42,131 608 10,86 842 2 70 42 Ky. 296 165 15 1 4,793 4,632 69 30 - 9 23 Tenn. 693 116 12 - 14,005 13,166 275 936 793 1 43 13 Ala. 554 157 7 1 13,604 14,796 110 81 19 1 13 6 Miss. 399 50 3 1 10,422 9,537 71 5 5 - Miss. 399 50 3 1 10,422 9,537 71 5 5 - Miss. 399 50 3 1 10,422 9,537 71 5 5 - W.S. CENTRAL 6,982 823 48 2 43,917 41,357 3,045 12,423 565 71 42 123 Ark. 255 47 - 1 1,092 11,139 140 154 167 1 13 2 Okla. 244 3,259 4,339 356 277 326 3 11 73 Tex. 5,337 744 41 2 23,471 18,849 2,367 948 65 65 9 400 MOUNTAIN 2,107 333 12 4 9,019 10,555 4,057 593 423 57 96 19 Mont. 26 8 81 163 351 71 67 1 2 3 Woo. 18 4 2 2 82 75 29 23 164 - 6 5 Colo. 763 132 3 - 2,973 3,524 94 469 16 20 Idaho 56 6 81 163 351 71 67 1 2 3 Wyo. 18 4 2 2 82 75 29 23 164 - 6 5 Colo. 763 132 3 - 2,973 3,524 954 944 69 16 20 N.Mex. 198 18 1,002 890 1,048 202 46 11 4 8 Ariz. 559 69 1 1 2,277 3,671 7,26 50 16 11 77 - Utah 131 53 2 1 - 2,973 3,524 954 94 69 16 20 N.Mex. 198 18 5,000 558 76 30 5 7 2 Nev. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 3,2819 6,837 1,989 579 155 78 75 Nev. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 3,2819 6,837 1,989 179 155 78 75 Nex. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 3,2819 6,837 1,989 149 66 75 Alaska 40 18 3 - 2,679 3,432 3,24 69 68 2 8 - Creg, 550 570 1,090 708 79 175 78 75 Nex. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 3,2819 6,837 3,989 149 469 16 20 - Nex. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 3,2819 6,26 50 16 11 74 - Hawaii 183 127 - 1 566 564 56 26 5 3 3 4 - - Hawaii 183 127 - 1 566 564 56 26 5 3 3 4 - - Hawaii 183 127 - 1 566 564 56 26 5 3 3 4 - - Hawaii 1	va. W. Va.	1,089 76	301	30 49	0 -	758	10,799 606	21	44	25 41	- 10	4	26
3.6.1,080301112,1717,600393210101107Fla.7,895488-1622,04321,599711687249245027E.S. CENTRAL1,94248837342,82442,1316081,08684227042Ky.2961651514,7934,6321526930-923Tenn.69311612-14,00513,16627593679314313Ala.5541577113,60414,796110811911366Miss.399503110,4229,537715-W.S. CENTRAL6,98282348243,91741,3573,0451,4235657142123Ark.255476,0957,030182247298La.1,146327-11,09211,1391401541671132Okia.2443,2594,33935629732631173Tex.5,3377444122,47118,8492,357593423579619Mont.268- <td>N.C.</td> <td>1,152</td> <td>217</td> <td>40</td> <td>1</td> <td>26,330</td> <td>23,213</td> <td>139</td> <td>259</td> <td>53</td> <td>-</td> <td>27</td> <td>77</td>	N.C.	1,152	217	40	1	26,330	23,213	139	259	53	-	27	77
Fla.7,895488-1622,04321,599711687249245027E.S. CENTRAL1,94248837342,82442,1316081,08684227042Ky.2961651514,7934,6321526930-923Tenn.69311612-14,00513,16627593679314313Ala.5541577113,60414,79611081191136Miss.399503110,4229,537715-W.S. CENTRAL6,98282348243,91741,3573,0451,4235657142123Ark.255476,0957,030182247298La.1,146327-11,09211,1391401541671132Okla.2443,2594,33935629732631173Tex.5,3377444122,847118,8492,367593423579619MOUNTAIN2,1073331249,01910,5554,057593423579619Mont.268- </td <td>Ga.</td> <td>2,071</td> <td>49</td> <td>1</td> <td>-</td> <td>3,328</td> <td>4,660</td> <td>33</td> <td>531</td> <td>184</td> <td>-</td> <td>99</td> <td>106</td>	Ga.	2,071	49	1	-	3,328	4,660	33	531	184	-	99	106
E.S. CENTRAL 1,942 488 37 3 42,824 42,131 608 1,086 842 2 70 42 Ky. 296 165 15 1 4,793 4,632 152 69 30 - 9 23 Tenn. 693 116 12 - 14,005 13,166 275 936 793 1 43 13 Ala. 554 157 7 1 13,604 14,796 110 81 19 1 13 6 Miss. 399 50 3 1 10,422 9,537 71 5 - W.S. CENTRAL 6,982 823 48 2 43,917 41,357 3,045 1,423 565 71 42 123 Ark. 255 47 6,095 7,030 182 24 7 2 9 8 La. 1,146 32 7 - 11,092 11,139 140 154 167 1 13 2 Okla. 244 3,259 4,339 356 297 326 3 11 73 Tex. 5,337 744 41 2 23,471 18,849 2,367 948 65 65 9 40 MOUNTAIN 2,107 333 12 4 9,019 10,555 4,057 593 423 57 96 19 Mont. 26 8 84 84 23 22 13 - 16 - Idabo 56 6 81 163 351 71 67 1 2 3 Wyo. 18 4 2 2 82 75 29 23 164 - 6 5 Colo. 763 132 3 - 2,973 3,524 554 94 69 16 20 - N. Mex. 198 18 - 1,002 80 1,048 202 46 11 4 8 Ariz. 559 69 1 1 2,977 3,671 1,265 50 16 11 17 - Utah 131 53 2 1 2,237 400 558 76 30 5 7 2 New. 356 43 4 - 1589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 32,817 9,683 1,989 579 155 78 75 Wash. 856 570 1,002 780 1,048 202 46 11 4 8 Ariz. 559 69 1 1 2,977 3,671 1,265 50 16 11 17 - Calif. 11,481 1,234 111 8 21,686 27,155 5,550 1,804 489 149 66 75 Mash. 856 570 1,090 708 79 17 1 - Calif. 11,481 1,234 111 8 21,686 27,155 5,550 1,804 489 149 66 75 Alaska 40 18 3 - Calif. 11,481 1,234 111 8 21,686 27,155 5,550 1,804 489 149 66 75 Alaska 40 18 3 - R. 2,159 38 1 3 425 443 83 349 162 11 - Hawaii 183 127 - N Max. 49 - Calif. 11,481 1,234 111 8 21,686 564 56 26 57 3 4 Guam 1 22 - R. 2,159 38 1 3 425 443 83 349 162 11 - Hawaii 183 127 - N Max. 49 - Calif. 11,481 1,234 111 8 21,686 564 56 26 57 3 4 Calif. 11,481 1,234 111 8 21,686 574 56 26 57 3 4 Calif. 11,481 1,234 111 8 21,686 564 56 26 57 3 4 Calif. 11,481 1,234 111 8 21,686 574 56 26 57 3 4 Calif. 11,481 1,234 111 8 21,686 574 56 26 57 3 4 Calif. 11,481 1,234 111 8 21,686 574 56 26 57 3 4 Calif. 11,481 1,234 111 8 21,686 574 56 26 57 3 4 Calif. 11,481 1,234 111 8 21,686 574 56 26 57 3 4 Calif. 11,491 1,234 111 8 21,686 574 56 26 5	Fla.	7,895	488	-	16	22,043	21,599	711	687	249	24	50	27
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	E.S. CENTRAL	1,942 296	488 165	37 15	3 1	42,824	42,131	608 152	1,086	842 30	2	70	42 23
Ala.5541577113,60414,79611081191136Miss.399503110,4229,537715-W.S. CENTRAL6,98282348243,91741,3573,0451,4235657142123Ark.255476,0957,030182247298La.1,146327-11,09211,1391401541671132Okla.2443,2594,33935629732631173Tex.5,33774441223,47118,8492,3679486565940Mont.2688484232213-16-Idaho566811633517167123Wyo.1842282752923164-65N. Mex.198181,0028901,048202461148Ariz.55969112,9773,52455494691620-N. Mex.198181,0028901,048202	Tenn.	693	116	12		14,005	13,166	275	936	793	1	43	13
W.S. CENTRAL $6,982$ 823 48 2 $43,917$ $41,357$ $3,045$ $1,423$ 565 71 42 123 Ark. 255 47 $ 6,095$ $7,030$ 182 24 7 2 9 8 La. $1,146$ 32 7 $ 11,092$ $11,139$ 140 154 167 1 13 2 Okla. 244 $ -3,259$ $4,339$ 356 297 326 3 11 73 Tex. $5,337$ 744 41 2 $23,471$ $18,849$ $2,367$ 948 65 65 9 40 MOUNTAIN $2,107$ 333 12 4 $9,019$ $10,555$ $4,057$ 593 423 57 96 19 Mont. 26 8 $ 84$ 84 23 22 13 $ 16$ $-$ Idaho 56 6 $ 811$ 163 351 71 67 1 2 3 Wyo. 18 4 2 2 82 75 29 23 164 $ 6$ 5 N. Mex. 198 18 $ 1,002$ 890 $1,048$ 202 46 11 4 8 Ariz. 559 69 1 1 $2,977$ $3,524$ 554 94 69 16 20 $-$ N	Ala. Miss.	554 399	157 50	/ 3	1	13,604 10,422	14,796 9.537	110 71	81	19	1	13 5	6
Ark. 255 47 $6,095$ $7,030$ 182 24 7 2 9 8 La. $1,146$ 32 7- $11,09$ $11,139$ 140 154 167 1 13 2 Okla. 244 $3,259$ $4,339$ 356 297 326 3 11 73 Tex. $5,337$ 744 41 2 $23,471$ $18,849$ $2,367$ 948 65 65 9 40 MOUNTAIN $2,107$ 333 12 4 $9,019$ $10,555$ $4,057$ 593 423 57 96 19 Mont. 26 8 84 84 23 22 13 - 16 -Idaho 56 6 81 163 351 71 67 1 2 3 Wyo. 18 4 2 2 82 75 29 23 164 - 6 5 Colo. 763 132 3 - $2,973$ $3,524$ 554 94 69 16 20 -Nex. 198 18 $1,002$ 890 $1,048$ 202 46 11 4 8 Vath 131 53 2 1 231 400 558 76 30 5 7 2 Nev. 356 43 4 <td< td=""><td>W.S. CENTRAL</td><td>6,982</td><td>823</td><td>48</td><td>2</td><td>43,917</td><td>41,357</td><td>3,045</td><td>1,423</td><td>565</td><td>71</td><td>42</td><td>123</td></td<>	W.S. CENTRAL	6,982	823	48	2	43,917	41,357	3,045	1,423	565	71	42	123
La. 1,140 32 7 - 11,09 140 134 107 1 13 73 Tex. 5,337 744 41 2 23,471 18,849 2,367 948 65 65 9 40 MOUNTAIN 2,107 333 12 4 9,019 10,555 4,057 593 423 57 96 19 Mont. 26 8 84 84 23 22 13 - 16 - 16 - 16 - 81 163 351 71 67 1 2 3 Wyo. 18 4 2 2 82 75 29 23 164 - 6 5 Colo. 763 132 3 - 2,973 3,524 554 94 69 16 20 - N.Mex. 198 18 - 10,02 890 1,048 202 46 11 4 8 Ariz. 559 69 1 1 2,977 3,671 1,265 50 16 11 17 - Utah 131 53 2 1 231 400 558 76 30 5 7 2 Nev. 356 43 4 - 1,599 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 32,819 6,837 1,989 579 155 78 75 Wash. 856 5 70 1,090 708 79 17 1 Calif. 11,481 1,234 111 8 21,686 564 56 26 5 3 4 - Alaska 40 18 3 - 570 1,090 708 79 17 1 Calif. 11,481 1,234 111 8 21,686 564 56 26 5 3 4 - Hawaii 183 127 - 1 586 564 56 26 5 3 4 - Hawaii 183 127 - 1 586 564 56 26 5 3 4 - Column 1 22 197 95 44 6 1 12 3 - Hawaii 183 127 - 1 586 564 56 26 5 3 4 - Column 1 22 197 95 44 6 1 12 3 - Hawaii 183 127 - 1 586 564 56 26 5 3 4 - Column 1 22 197 95 44 6 1 12 3 - Column 1 22 197 95 44 6 1 12 3 - Column 1 22 197 95 44 6 1 12 3 - Column 1 22 197 95 44 6 1 12 3 - Column 1 22 197 95 44 6 1 12 3 - Column 1 22 197 95 44 6 1 12 3 - Column 1 22 197 95 44 6 1 12 3 - Column 1 22 Calif. 11,481 1,234 11 3 425 463 83 349 162 11 Calumn 1 22 Calumn 1 22 Calumn 1 22	Ark.	255	47		-	6,095	7,030	182	24	7	2	9	8
Tex. $5,337$ 744 41 2 $23,471$ $18,849$ $2,367$ 948 65 65 9 40 MOUNTAIN $2,107$ 333 12 4 $9,019$ $10,555$ $4,057$ 593 423 57 96 19 Mont. 26 8 84 84 23 22 13 - 16 -Idaho 56 6 81 163 351 71 67 1 2 3 Wyo. 18 4 2 2 82 75 29 23 164 - 6 5 Colo. 763 132 3 - $2,973$ $3,524$ 554 94 69 16 20 -N. Mex. 198 18 1002 890 $1,048$ 202 46 11 4 8 Ariz. 559 69 1 1 $2,977$ $3,671$ $1,265$ 50 16 11 17 -Nev. 356 43 4 - $1,589$ $1,748$ 229 55 18 13 24 1 PACIFIC $13,110$ $1,379$ 114 9 $26,329$ $32,819$ $6,837$ $1,989$ 579 155 78 75 Wash. 856 570 $1,090$ 708 79 17 Calif. $11,481$ $1,234$ <t< td=""><td>Okla.</td><td>244</td><td>32</td><td>-</td><td>-</td><td>3,259</td><td>4,339</td><td>356</td><td>297</td><td>326</td><td>3</td><td>13</td><td>73</td></t<>	Okla.	244	32	-	-	3,259	4,339	356	297	326	3	13	73
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tex.	5,337	744	41	2	23,471	18,849	2,367	948	65	65	9	40
	MOUNTAIN Mont	2,107	333	12	4	9,019 84	10,555 84	4,057	593 22	423	57	96 16	19
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Idaho	56	6	-	-	81	163	351	71	67	1	2	3
N. Mex. 198 18 - - 1,002 890 1,048 202 46 11 4 8 Ariz. 559 69 1 1 2,977 3,671 1,265 50 16 11 17 - Utah 131 53 2 1 231 400 558 76 30 5 7 2 Nev. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 32,819 6,837 1,989 579 155 78 75 Oreg. 550 - - 2,679 3,432 324 69 68 2 8 - Calif. 11,481 1,234 111 8 21,686 27,155 5,550 1,804 489 149 66 75 Alaska 40 18 3 - 808 578 199 11 -	Wyo. Colo	18 763	4 132	2	2	82 2.973	75 3.524	29 554	23 94	164 69	- 16	6 20	5
Ariz. 559 69 1 1 2,977 3,671 1,265 50 16 11 17 - Utah 131 53 2 1 231 400 558 76 30 5 7 2 Nev. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 32,819 6,837 1,989 579 155 78 75 Wash. 856 - - - 2,679 3,432 324 69 68 2 8 - Oreg. 550 - - - 570 1,090 708 79 17 1 - - - - Calif. 11,481 1,234 111 8 21,686 27,155 5,550 1,804 489 149 66 75 Alaska 40 18 3 - 808 578 199 <td< td=""><td>N. Mex.</td><td>198</td><td>18</td><td>-</td><td>-</td><td>1,002</td><td>890</td><td>1,048</td><td>202</td><td>46</td><td>11</td><td>4</td><td>8</td></td<>	N. Mex.	198	18	-	-	1,002	890	1,048	202	46	11	4	8
Nev. 356 43 4 - 1,589 1,748 229 55 18 13 24 1 PACIFIC 13,110 1,379 114 9 26,329 32,819 6,837 1,989 579 155 78 75 Wash. 856 - - 2,679 3,432 324 69 68 2 8 - Oreg. 550 - - - 570 1,090 708 79 17 1 - - - - - - 75 Alaska 40 18 3 - 808 578 199 11 - 575 5550 <td>Ariz. Utah</td> <td>559 131</td> <td>69 53</td> <td>1 2</td> <td>1</td> <td>2,977</td> <td>3,671 400</td> <td>1,265 558</td> <td>50 76</td> <td>16 30</td> <td>11 5</td> <td>1/</td> <td>- 2</td>	Ariz. Utah	559 131	69 53	1 2	1	2,977	3,671 400	1,265 558	50 76	16 30	11 5	1/	- 2
PACIFIC 13,110 1,379 114 9 26,329 32,819 6,837 1,989 579 155 78 75 Wash. 856 - - - 2,679 3,432 324 69 68 2 8 - Oreg. 550 - - 570 1,090 708 79 17 1 - - Calif. 11,481 1,234 111 8 21,686 27,155 5,550 1,804 489 149 66 75 Alaska 40 18 3 - 808 578 199 11 - - - - Hawaii 183 127 - 1 586 564 56 26 5 3 4 - Guam 1 22 - - 197 95 44 6 1 12 3 - P.R. 2,159 38 1 3 425 463 83 349 162 11	Nev.	356	43	4	-	1,589	1,748	229	55	18	13	24	1
Oreg. 550 - - 570 1,000 708 79 17 1 -	PACIFIC Wash	13,110 856	1,379	114	9	26,329 2 679	32,819 3 432	6,837 324	1,989 69	579 68	155 2	78 8	75
Calif. 11,481 1,234 111 8 21,686 27,155 5,550 1,804 489 149 66 75 Alaska 40 18 3 - 808 578 199 11 - <td>Oreg.</td> <td>550</td> <td>-</td> <td>-</td> <td>-</td> <td>570</td> <td>1,090</td> <td>708</td> <td>79</td> <td>17</td> <td>1</td> <td>-</td> <td>-</td>	Oreg.	550	-	-	-	570	1,090	708	79	17	1	-	-
Hawaii 183 127 - 1 586 564 56 26 5 3 4 - Guam 1 22 - - 197 95 44 6 1 12 3 - P.R. 2,159 38 1 3 425 463 83 349 162 11 - - V.I. 49 - - 41 90 - 1 - - - Amer. Samoa - - - 31 40 8 - - - -	Calif. Alaska	11,481 40	1,234 18	111	8	21,686 808	27,155 578	5,550 199	1,804 11	489	149	66 -	/5
Guam 1 22 - - 197 95 44 6 1 12 3 - P.R. 2,159 38 1 3 425 463 83 349 162 11 - - - V.I. 49 - - 41 90 - 1 -	Hawaii	183	127	-	1	586	564	56	26	5	3	4	-
r.r. 2,137 30 1 3 423 403 63 347 102 11 - - V.l. 49 - - 41 90 - 1 - - - Amer. Samoa - - - 31 40 8 - - -	Guam	2 1 5 0	22	- 1	- 2	197 425	95	44	6	1 140	12	3	-
Amer. Samoa	V.I.	2,159 49	30	-	3 -	425 41	403	03 -	349 1	- 102	-	-	-
U.N.IVI.I 45 // / 1	Amer. Samoa C.N.M.I.	-	-	-	-	31 45	40 77	8 7	-	-	-	-	-

TABLE II. Cases of selected notifiable diseases, United States, weeks ending December 3, 1994, and December 4, 1993 (48th Week)

N: Not notifiable U: Unavailable C.N.M.I.: Commonwealth of Northern Mariana Islands

*Updated monthly to the Division of HIV/AIDS, National Center for Infectious Diseases; last update November 29, 1994.

			Measle	s (Rube	eola)		Menin-								
Reporting Area	Malaria	Indig	enous	Impo	orted*	Total	gococcal Infections	Mu	mps	F	Pertussi	s		Rubella	3
	Cum. 1994	1994	Cum. 1994	1994	Cum. 1994	Cum. 1993	Cum. 1994	1994	Cum. 1994	1994	Cum. 1994	Cum. 1993	1994	Cum. 1994	Cum. 1993
UNITED STATES	960	-	691	-	183	302	2,417	23	1,300	60	3,221	5,828	2	216	177
NEW ENGLAND	76	-	14	-	14	63 1	130	5	25	42	402	726	2	131	2
N.H.	3	-	1	-	-	2	6	-	4	-	75	154	-	-	-
Vt. Mass.	3 33	-	2 2	-	1 6	31 18	4 57	-	-3	- 38	41 223	91 377	- 1	- 125	- 1
R.I.	9 22	-	4	-	3	2	-	- 5	3 12	-	6 30	11 75	- 1	3	-
MID. ATLANTIC	198	-	173	-	33	36	245	2	106	5	586	894	-	11	59
Upstate N.Y.	52	-	13	-	14	8 19	90 11	-	32	4	225	318	-	8 1	17
N.J.	46	-	144	-	12	10	53	-	6	-	11	81	-	2	15
Pa.	30	-	5	-	4	-	91	2	55	1	193	410	-	-	5
Ohio	15	-	15	-	2	9	108	1	69	-	146	426	-	-	1
Ind. III.	14 39	-	- 17	-	1 39	1	/4 113	-	/ 95	-	61 88	155 417	-	-3	3 1
Mich. Wis	26	-	23	-	2	6	55 34	1	45 14	1	48 50	113 357	-	8	2
W.N. CENTRAL	45	-	126	-	44	3	171	1	65	4	200	531	-	2	1
Minn. Iowa	14 5	-	- 6	-	- 1	-	18 19	-	5 16	- 2	87 21	309 37	-	-	-
Mo.	13	-	118	-	42	1	87	1	38	-	44	138	-	2	1
S. Dak.	-	-	-	-	-	-	9	-	5 -	2	4 22	5 8	-	-	-
Nebr. Kans.	5 7	-	1	-	1	- 2	13 24	-	1	-	9 13	14 20	-	-	-
S. ATLANTIC	219	-	59	-	8	29	409	5	194	4	294	590	-	11	7
Del. Md.	3 99	-	- 2	-	- 2	-	5 40	- 2	- 65	-	3 74	10 129	-		- 3
D.C.	14	-	-	-	- ว	-	6	- 1	-	2	10	14	-	-	-
W. Va.	-	-	36	-	-	-	12	-	42	1	5	8	-	-	-
N.C. S.C.	11 5	-	2	2	1	1	51 31	-	36 8	- 1	79 14	151 70	-	-	-
Ga. Fla	26 25	-	3 15	-	- 3	- 20	68 130	- 2	9 31	-	27 46	53 96	-	2	-
E.S. CENTRAL	32	-	28	-	-	1	144	2	28	-	122	272	-	-	1
Ky. Tenn	12 10	-	- 28	-	:	-	36 35	-	- 0	-	59 22	36 166	-	:	1
Ala.	9	-	-	-	-	1	73	2	12	-	34	60	-	-	-
WISS.	12	-	- 11	-	- 8	- 10	- 306	-	/ 2/7	-	/ 185	10 155	-	- 12	- 18
Ark.	3	-	-	-	1	-	43	-	5	-	27	12	-	-	-
La. Okla.	9 7	-	-	-	-	-	37	-	31 23	-	10 27	13 78	-	4	1
Tex.	23	-	11	-	6	9	193	4	188	-	121	52	-	9	16
Mont.	- 34	-	150	-	-	-	6	-	147	4	402 9	418	-	5	-
ldaho Wvo.	2 1	-	1	2	-	-	17 9	-	10 3	3	80	98 1	-	-	2
Colo.	15	-	16	-	3	3	35	-	3	-	124	174	-	-	2
Ariz.	3 7	-	2	-	- 1	3	48	1	91	-	130	39 54	-	-	2
Utah Nev.	4 2	-	131	-	2 11	- 1	19 12	-	24 15	-	24 3	36 5	-	4 1	4 1
PACIFIC	218	-	72	-	15	122	467	1	258	-	637	774	-	32	70
Wash. Oreg.	12 13	- U	-	- U	- 2	- 4	30 94	1 N	8 N	- U	32 38	74 102	- U	-3	-
Calif.	177	-	56	-	9	96	334	-	228	-	545	584	-	24	41
Hawaii	2 14	-	- 16	-	4	2 20	3 6	-	4 18	-	21	5 9	-	4	28
Guam	4	U	211	U	-	12	1	U	6	U	2	-	U	1	-
г.к. V.I.	3 -	-	- 13	-	-	354	- 15	-	2 1	-	- 2	- 10	-	-	-
Amer. Samoa C.N.M.I.	- 1	U U	- 26	U U	-	- 28	-	U U	1 2	U U	2	2 1	U U	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending December 3, 1994, and December 4, 1993 (48th Week)

*For measles only, imported cases include both out-of-state and international importations. N: Not notifiable U: Unavailable [†] International [§] Out-of-state

Reporting Area	Syp (Primary &	hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994
UNITED STATES	18,751	24,389	167	20,245	20,846	81	384	422	6,884
NEW ENGLAND	206	334	4	468	479	1	21	15	1,769
N.H.	4 4	25	-	27 15	25 17	-	-	-	- 195
Vt. Mass	- 87	1 117	1	8 243	5 262	- 1	- 17	- 7	137
R.I.	15	15	-	44	52	-	1	-	44
Conn.	96	169	-	131	118	-	3	8	707
Upstate N.Y.	1,293	2,245 237	27 14	4,087 473	4,485 643	1	106	18	1,759
N.Y. City	555	1,116	-	2,398	2,502	-	70	1	241
N.J. Pa.	361	288 604	13	476	762 578	-	6	4 7	201
E.N. CENTRAL	2,582	3,915	32	1,966	2,156	8	71	45	64
Ohio Ind	1,039 237	1,101 345	7	309 178	290 208	1	7	28	4 13
III.	738	1,464	11	1,002	1,136	3	44	10	19
Mich. Wis.	278 290	533 472	12	424 53	434 88	1	6 7	2	13 15
W.N. CENTRAL	1,081	1,519	26	516	460	37	1	38	205
lowa	65	64	8	56	53	-	-	1	83
Mo. N. Dak	904	1,273 4	7 1	223 8	227 7	23 1	1	19	26 12
S. Dak.	1	2	-	24	14	2	-	13	33
Nebr. Kans.	11 52	10	4 5	17 67	23 74	3	-	1	34
S. ATLANTIC	5,024	6,080	8	3,644	4,168	2	46	202	1,843
Del. Md	25 290	90 341	-	40 312	47 360	- 1	1 13	- 23	41 489
D.C.	199	308	-	105	148	-	1	-	2
va. W. Va.	750 9	623 12	-	292 73	402	-	8	19	401 73
N.C.	1,536	1,758	1	461	499	-	-	81	159
Ga.	745	1,014	- 1	612	708	- 1	2	55	348
Fla.	706	1,065	5	1,409	1,575	-	21	4	161
E.S. CENTRAL Kv.	3,641 203	3,797	6 2	1,307	1,511 338	2	3	43	211 23
Tenn.	958	1,084	3	401	479	-	2	28	71
Miss.	1,877	1,598	-	400 211	462 232	-	-	2 4	-
W.S. CENTRAL	4,057	5,101	2	2,929	2,427	17	15	47	640
Ark. La	431 1.577	530 2.399	-	254 349	159 276	16	- 3	8	25 69
Okla.	111	261	2	232	154	1	3	32	38
	1,938	1,911	-	2,094	I,838 510	-	9 11	14	508 124
Mont.	4	1	-	404	13	3	-	4	21
Idaho Wyo	1	- 8	3	11 8	12	-	-	- 2	3 19
Colo.	114	74	5	21	79	1	3	4	15
N. Mex. Ariz.	19 39	24 94	-	65 209	59 222	-	1	2	8 45
Utah Nev.	8 30	11 17	2	41 100	30 91	2 2	2 3	- 1	13 10
PACIFIC Wash	650	1,169	52	4,864	4,648	4	110	-	259
Oreg.	21	39	-	90		2	5	-	12
Calif. Alaska	590 4	1,061 8	45	4,239 60	4,114 53	1	96	-	217 30
Hawaii	3	6	4	234	235	-	5	-	-
Guam PP	10 279	3	-	170	65 212	-	1	-	- 50
V.I.	28	39	-	-107	213	-	-	-	
Amer. Samoa C.N.M.I.	1 2	- 7	-	4 33	4 40	-	1 1	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending December 3, 1994, and December 4, 1993 (48th Week)

U: Unavailable

	А	II Cau	ses, By	Age (Y	'ears)		P&I [†]		All Causes, By Age (Years)			P&I [†]			
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn.	698 204 63 26 15 60 23 205 25 42 55 8 45 29	458 123 46 19 12 31 23 15 19 24 36 7 33 19	131 43 9 4 1 5 3 2 10 12 1 6 6	69 19 4 3 2 12 - 2 3 4 3 - 4 4 4	21 11 2 - - 2 3 - -	19 8 2 - 2 - 1 2 1 2 1 - 2	55 15 3 3 1 2 1 2 7 - 2	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL	1,461 138 264 134 149 92 67 113 47 62 187 196 12 689	904 79 1555 85 100 53 49 75 31 43 130 96 8 458	293 32 50 28 31 19 11 28 10 8 29 45 2 131	197 23 40 18 17 16 2 6 6 7 13 47 2 60	39 3 9 2 1 1 2 3 - 4 11 3 - 23	27 1 10 3 3 - - 4 5 - 17	81 6 17 7 14 7 6 5 4 14 1 1 45
MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§	83 2,610 51 92 36 25 62	51 1,736 36 U 87 24 15 47	492 8 U 2 6 5 12	9 273 2 U 2 3 4 1	3 53 2 U - 2 1 1	56 3 U 1 1	17 140 3 U 23 3 3 3 3	Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	114 94 49 64 108 35 61 164	78 67 30 45 69 23 48 98	22 14 12 13 21 6 7 36	9 7 6 5 10 3 4 16	1 4 1 5 2 7	4 2 - 3 1 - 7	2 5 5 6 1 4 14
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	41 1,444 75 40 295 67 18 179 25 35 73 31 21 U	21 947 29 23 171 51 16 133 17 27 54 22 22 16 U	13 271 25 9 75 11 1 22 6 11 6 3 U	5 172 15 4 34 3 1 5 2 1 5 3 1 U	1 25 2 1 10 1 - - 3 - - U	1 29 4 3 5 1 - 5 - 1 - 1 U	48 10 3 21 1 2 10 1 3 3 3 U	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.	1,618 79 55 237 67 106 447 79 100 213 59 120	1,018 44 37 149 54 66 272 51 45 140 39 84	318 20 16 9 47 8 24 92 18 9 47 11	159 8 1 4 27 2 11 56 3 15 14 7 11	74 5 1 3 7 1 2 14 2 24 7 1 7	49 2 3 7 2 3 13 5 7 5 1	88 3 5 7 5 39 3 - 17 3 3
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Grand Rapids, Mich Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III	2,331 90 39 420 116 148 190 150 297 32 59 23 1. 106 227 65 U 51 89	1,472 56 32 190 77 85 126 108 175 22 46 13 82 150 46 U 35 59	455 23 79 24 31 41 67 8 3 13 44 10 U 18	230 6 3 73 7 16 16 16 8 39 2 4 2 7 17 7 U 3 9	114 1 68 1 8 5 2 8 - 1 5 1 5 1 0 2 3	60 4 10 7 8 2 1 8 - 3 11 1 U 1	131 9 17 3 14 6 9 3 15 12 8 U 9 6	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. Los Angeles, Calif.	967 126 45 140 212 29 181 U 104 130 1,867 22 120 19 55 102 508	681 84 30 92 154 28 126 U 71 96 1,273 16 74 14 33 71 326	153 19 25 41 25 U 12 21 292 21 3 11 15 81	80 13 3 11 12 1 9 U 15 6 182 2 14 2 5 7 67	31 7 1 7 3 U 4 6 55 5 5 3 22	22 3 5 2 8 U 2 1 35 2 6 1 6	68 5 3 14 13 1 16 U 10 6 164 2 16 1 10 18 22
South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans.	61 88 80 958 91 22 49	50 62 58 668 66 18 25	4 20 17 135 17 3 9	3 3 5 74 4 - 8	3 2 1 - 32 1 5	2 2 - 28 3 - 1	7 9 1 59 1	Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif San Jose, Calif. Santa Cruz, Calif. Seattle, Wash.	42 169 U f. 199 231 39 169	34 127 U 126 164 30 119	5 20 U 27 38 6 25	2 16 U 24 17 3 14	3 U 2 7 5	1 3 U 2 5 - 6 2	4 U 28 27 7 7
Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	89 40 303 69 159 74 62	51 27 227 48 107 56 43	14 3 43 10 23 9 4	1 3 19 8 16 6 9	2 4 5 2 7 1 5	2 3 9 1 6 2 1	8 20 5 14 5	Tacoma, Wash. TOTAL	129 13,199 [¶]	92 8,668	27 2,400	6 1,324	3 442	1 313	13 831

TABLE III. Deaths in 121 U.S. cities,* week ending December 3, 1994 (48th 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. *Pneumonia and influenza. *Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. "Total includes unknown ages. U: Unavailable.

Neonatal Tetanus - Continued

Eastern Mediterranean Region. Coverage with TT2+ increased from 31% in 1989 to 50% in 1993. The number of reported cases decreased from 6314 in 1989 to 3350 (24% of the global total) in 1993. Of the 23 countries in the region, 21 (91%) reported NT incidence to WHO for 1993; of these, 10 reported zero cases.

European Region. In 1993, TT2+ coverage levels of 16% were reported in the European Region, where only Turkey routinely reports tetanus toxoid coverage to WHO. During 1989–1992, 63–67 cases were reported annually. In 1993, a total of 48 NT cases were reported in the region—46 from Turkey. Of the 50 countries in the region, 30 (60%) reported NT incidence to WHO for 1993; of these, 27 reported zero cases.

Southeast Asian Region. In 1993, TT2+ coverage was reported to be 74%. The number of reported cases decreased from 14,102 (48% of the global total) in 1989 to 5809 (40% of the global total) in 1993. Three countries accounted for 97% of all NT cases reported in the region: India (4339 [75%] cases), Bangladesh (720 [12%]), and Indonesia (566 [10%]). Of the 11 countries in the region, 10 (91%) reported NT incidence to WHO for 1993; of these, two reported zero cases.

Western Pacific Region. In 1993, TT2+ coverage was 13% in the Western Pacific Region (including China, which began administering tetanus toxoid in selected areas in 1992). The number of cases reported to WHO increased from 282 in 1989 to 856 (6% of the global total) in 1993. Two countries reported 79% of the total cases for the region: Vietnam (333 cases) and the Philippines (343 cases). Of the 35 countries in the region, 18 (51%) reported NT incidence to WHO for 1993; of these, 11 reported zero cases.

Reported by: Expanded Program on Immunization, Global Program for Vaccines and Immunization, World Health Organization, Geneva. International Health Program Office; National Immunization Program, CDC.

Editorial Note: NT results from the effect of a neurotoxin elaborated by the anaerobic organism *Clostridium tetani* (6). Infection occurs when the umbilical cord becomes contaminated as a result of unclean childbirth or cord-care practices. Access to clean birth practices is ultimately the long-term goal for prevention; however, most infants in developing countries continue to be born at home under unsanitary conditions. Although global tetanus toxoid coverage levels nearly doubled to 45% during 1989–1993 in countries that administer the vaccine, reported coverage levels are underestimated because annual estimates do not include doses administered during previous years. In addition, many women do not maintain vaccination records, making verification of vaccination status difficult (7). WHO now recommends that women receive and maintain life-long vaccination records and that tetanus toxoid coverage be monitored nationally by determining the proportion of children protected at birth when they seek their first diphtheria and tetanus toxoids and pertussis vaccine dose.

The findings in this report are subject to at least two limitations. First, because NT cases are grossly underreported, NT incidence is underestimated. Second, the numbers of NT deaths and prevented deaths are based on projections from national data (which often are estimated) or data extrapolated from other countries.

As of August 1, 1994, the estimated NT case rate was less than one per 1000 live births nationwide (i.e., not by district) in 83 countries. In addition, in 57 countries, the estimated rate of NT was one to five cases per 1000 nationwide, while in 25 countries the estimated rate was higher than five cases per 1000. Although progress has been made toward eliminating NT as a public health problem, present resources and com-

Neonatal Tetanus — Continued

mitments must be increased and activities greatly accelerated if the 1995 goal is to be achieved by all countries (8). In 1993, the Global Advisory Group of WHO's Expanded Program on Immunization identified four constraints to NT elimination (2): 1) insufficient funds to purchase tetanus toxoid in selected high-risk countries; 2) lack of adequate health-care infrastructure in many countries, resulting in limited tetanus toxoid vaccination activities and poor access to clean birth practices; 3) civil unrest in some high-risk countries; and 4) high levels of NT underreporting.

To reach the global elimination goal for NT, efforts must be accelerated, especially in the 12 countries from which 80% of NT cases were reported in 1993 and in countries where the incidence rate is higher than five per 1000 live births. Each country must identify areas where the incidence rate is higher than one per 1000 live births, coverage levels are low, or there is limited access to clean deliveries or trained birth attendants. These high-risk areas must be targeted for intensified vaccination efforts, including the use of mass vaccination campaigns. In addition, surveillance activities in all areas must be strengthened. Finally, because NT is not a communicable disease, and *C. tetani* cannot be eradicated from the environment, ensuring long-term elimination of NT will require the development of adequate health-care delivery systems to reach those at greatest risk—infants of poor women residing in rural areas in developing countries.

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Health Objectives for the Nation

Prevalence of Selected Risk Factors for Chronic Disease by Education Level in Racial/Ethnic Populations — United States, 1991–1992

One of the three broad national health objectives for the year 2000 is to reduce health disparities within the U.S. population (1). Disparities in risks for chronic diseases are particularly prominent among racial/ethnic minorities (blacks, American

Chronic Disease — Continued

Indians/ Alaskan Natives, Asians/Pacific Islanders, and Hispanics). This report summarizes findings from the 1991 and 1992 Behavioral Risk Factor Surveillance System (BRFSS) that characterize the distribution of three major risk factors for chronic disease—current cigarette smoking, sedentary lifestyle, and overweight—across racial/ethnic groups and by level of education within the racial/ethnic groups.

Data were analyzed for 180,255 adults who participated in the 1991 or the 1992 BRFSS, a state-based, random-digit-dialed telephone survey that collects selfreported data from a representative sample of civilian, noninstitutionalized persons aged ≥18 years. Data from 1991 and 1992 were combined to increase precision of the prevalence estimates for minority populations. In 1991, monthly BRFSS surveys were conducted in the District of Columbia and all states except Kansas, Nevada, and Wyoming, and in 1992 in the District of Columbia and all states except Arkansas and Wyoming. Race/ethnicity and other demographic characteristics were self-reported. Current cigarette smoking was defined as ever having smoked 100 cigarettes and currently smoking regularly. Sedentary lifestyle was defined as reported participation in fewer than three 20-minute sessions of leisure-time physical activity per week; physical activity as part of usual job activities was not included. Self-reported data on height and weight were used to calculate body mass index (BMI) (weight in kilograms divided by height in meters squared). Overweight was defined as BMI \geq 27.8 for men and \geq 27.3 for women (1). Years of education were grouped as <12 years, 12 years, or >12 years.

For both women and men, the percentage of respondents reporting current cigarette smoking was highest among American Indians/Alaskan Natives and lowest among Asians/Pacific Islanders (Tables 1 and 2). Among women, a sedentary lifestyle was reported most frequently by blacks (68%) and least frequently by whites (56%). Among men, the prevalence of a sedentary lifestyle was highest for both blacks (63%)

	White (n=90,369) (I		E (n=	Black 10,465)	America Alaska (n=	an Indian/ In Native =989)	A Pacifi (n=	sian/ c Islander =2,332)	r Hispanic [†] (n=4,063)		
Risk factor	%	(95% CI§)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	
Current cigarette smoking ¹ Sedentary lifestyle** Overweight ^{††}	21.6 56.4 21.7	(±0.4) (±0.5) (±0.4)	19.4 67.7 37.7	(±1.1) (±1.3) (±1.3)	28.7 64.1 30.3	(±4.9) (±5.2) (±4.9)	9.7 64.7 10.1	(±2.1) (±3.4) (±2.0)	14.5 61.9 26.5	(±1.5) (±2.3) (±2.1)	
<12 yrs 12 yrs >12 yrs	14.8 36.3 48.7	(±0.4) (±0.5) (±0.5)	23.6 35.2 40.8	(±1.2) (±1.3) (±1.4)	25.0 36.9 38.0	(±5.0) (±5.6) (±5.4)	7.3 21.9 70.0	(±1.5) (±3.0) (±3.3)	33.7 31.1 34.9	(±2.3) (±2.2) (±2.2)	

TABLE 1.	Weighted	prevalences	of sele	ected risk	factors for	or women,	by race and	l
ethnicity -	— Behavio	ral Risk Facto	r Surve	illance Sys	stem, Uni	ted States, 1	991–1992*	

*Data were weighted and aggregated. Full descriptions of the weighting procedures and sample sizes for the states are given in Appendix F of *Chronic Disease in Minority Populations* (2).

[†]Persons of Hispanic origin may be of any race.

§Confidence interval.

[¶]Reported ever having smoked 100 cigarettes and currently smoking regularly.

** Reported participation in fewer than three 20-minute sessions of leisure-time physical activity per week; physical activity as part of usual job activities was not included.

^{††}Self-réported data on height and weight were used to calculate body mass index (BMI) (weight in kilograms divided by height in meters squared). Overweight was defined as BMI ≥27.3 for women.

	(n=	White =67,444)	E (n=	Black (n=5,913)		American Indian/ Alaskan Native (n=822)		sian/ siander 1,921)	Hispanic [†] (n=2,929)		
Risk factor	%	(95% CI§)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	
Current cigarette smoking [¶]	24.5	(±0.5)	27.4	(±1.6)	39.9	(±5.9)	19.4	(±3.1)	22.0	(±2.2)	
Sedentary lifestyle**	56.2	(±0.6)	62.8	(±1.7)	50.8	(±6.0)	56.6	(±3.8)	61.5	(±2.7)	
Overweight ^{††} Education level	25.8	(±0.5)	21.4	(±1.6)	33.8	(±5.8)	10.8	(±2.2)	23.8	(±2.3)	
<12 yrs 12 yrs >12 yrs	14.4 32.2 53.3	(±0.4) (±0.5) (±0.6)	23.3 36.8 39.7	(±1.5) (±1.7) (±1.7)	25.1 35.1 39.7	(±5.4) (±5.7) (±5.8)	7.6 16.0 75.7	(±2.2) (±2.7) (±3.3)	33.9 28.8 37.1	(±2.7) (±2.5) (±2.6)	

TABLE 2. Weighted prevalences of selected risk factors for men, by race and ethnicity
- Behavioral Risk Factor Surveillance System, United States, 1991–1992*

* Data were weighted and aggregated. Full descriptions of the weighting procedures and sample sizes for the states are given in Appendix F of *Chronic Disease in Minority Populations (2)*.

[†]Persons of Hispanic origin may be of any race.

§Confidence interval.

[¶]Reported ever having smoked 100 cigarettes and currently smoking regularly.

**Reported participation in fewer than three 20-minute sessions of leisure-time physical activity per week; physical activity as part of usual job activities was not included.

^{††}Self-reported data on height and weight were used to calculate body mass index (BMI) (weight in kilograms divided by height in meters squared). Overweight was defined as BMI ≥27.8 for men.

and Hispanics (62%) and lowest for American Indians/Alaskan Natives (51%). The prevalence of overweight among women was highest for blacks (38%) and lowest for Asians/Pacific Islanders (10%). Among men, the prevalence of overweight was highest for American Indians/Alaskan Natives (34%) and lowest for Asians/Pacific Islanders (11%). Education levels by sex varied widely across the five racial/ethnic groups.

When results for the racial/ethnic groups were stratified by level of education, the prevalence of risk factors generally varied inversely with level of education within all five population groups (Table 3); however, prevalence of cigarette smoking among women was less consistent with this pattern. In addition, when respondents with <12 years of education were compared with respondents with >12 years of education, most differences in prevalence estimates were statistically significant. Despite the aggregation of data for the 2-year period, confidence intervals for prevalence estimates among these groups were wide because of the small sample sizes for American Indians/Alaskan Natives (1811) and for Asians/Pacific Islanders (4253).

Reported by: Office of Surveillance and Analysis, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: Although the general inverse association between years of education and important risk factors—including current cigarette smoking, sedentary lifestyle, and overweight—has been clearly established (3–5), data characterizing such associations among U.S. racial/ethnic minorities are limited. The BRFSS findings in this report document substantial differences in the prevalence of risk factors among racial/ethnic groups and indicate that using culturally appropriate and culturally based messages in public health programs may be important in decreasing these risk factors in the highest risk groups. For example, a pilot study on effective weight-loss strategies for black

TABLE 3. Weighted	prevalences	of selected	risk factors,	by race, etl	nnicity, sex	i, and
education level -	Behavioral	Risk Factor	Surveilland	e System,	United St	ates,
1991–1992*				-		

Sex/ Risk factor/	White		Black		American Indian/ Alaskan Native		Asian/ Pacific Islander		Hispanic [†]	
Education level	%	(95% CI§)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Women										
Current cigarette smoking ¹										
Education level	25.2	(111)	10 7	(12.1)	27.0	(+ 0 7)	17 /	(0.0)	10 /	(12.4)
<12 yrs	25.3 26.0	(± 1.1) (± 0.7)	19.7	(±2.1) (+2.1)	27.0	(± 9.7) (+ 8.0)	17.0	(± 8.0) (+ 5.3)	13.0	(±2.4) (+2.8)
>12 yrs	17.2	(± 0.7) (± 0.5)	17.1	(± 2.1) (±1.6)	30.0	(± 0.0) (± 8.0)	6.4	(± 2.3)	13.3	(± 2.0)
Sedentary lifestyle**		()		(,		()		()		()
Education level	72.0	(11.2)	70.0	(12.2)	7/ /	(102)	(0 F	(10.0)	70 /	(12)
<12 yrs	12.0	(±1.2)	78.2	(±2.3) (±2.2)	70.0 70.5	(± 9.3) (± 0.1)	68.5 70.0	(±10.0) (± 4 5)	/3.0 50.0	(±3.6) (±4.1)
>12 yrs	48.8	(± 0.8)	595	(±2.2) (+2.1)	10.5 19.9	(± 0.1) (+ 8.6)	62.4	(± 0.3) (+ 4 3)	53.2	(±4.1) (+3.8)
Overweight ^{††}	40.0	(±0.7)	57.5	(±2.1)	47.7	(± 0.0)	02.4	(± 4.5)	55.4	(±0.0)
Education level										
<12 vrs	31.6	(+1.2)	50.9	(+2.8)	42.9	(+11.3)	21.6	(+ 8.7)	34.7	(+4.0)
12 yrs	23.8	(± 0.7)	39.3	(± 2.4)	25.8	(± 7.7)	12.1	(± 4.1)	25.6	(± 3.5)
>12 yrs	17.1	(±0.5)	28.9	(±1.9)	28.1	(± 7.3)	8.3	(± 2.4)	19.5	(±3.1)
Men		. ,		. ,		. ,		. ,		. ,
Current cigarette smoking										
	3/1	(+1.4)	21.2	(+3 3)	10.7	(+12 /1)	311	(+15.2)	25 /	(+1 1)
12 yrs	30.9	(±1.4)	29.7	(±3.3) (+2.7)	40.7	(± 12.4)	27.6	(± 13.2)	23.4	(± 4.1) (± 4.2)
>12 yrs	18.1	(± 0.7)	23.4	(± 2.7)	34.9	(± 10.2) (± 8.8)	16.3	(± 3.2)	17.4	(± 3.1)
Sedentary lifestyle	10.1	(20.0)	20.1	()	0117	(_ 0.0)	10.0	(_ 0.2)		(20.1)
Education level				(10.0)	50.0	(140.0)	17.0		74.0	(. .
<12 yrs	69.4	(±1.4)	//.4	(± 3.0)	58.8	(±12.9)	47.0	(±14.5)	/1.8	(±4.6)
12 yrs	62.2	(±1.0)	62.8 E4 1	(±2.9)	53.3	(± 10.2)	62.6	(± 8.8)	61.4 E1.0	(±4.9)
>12 yrs	49.1	(±0.8)	54.1	(±2.7)	43.3	(± 9.2)	55.9	(± 4.4)	51.9	(±4.2)
Education level				(<i>(</i>	(
<12 yrs	27.9	(±1.4)	28.4	(± 3.2)	41.2	(± 13.0)	§§		25.6	(± 4.3)
12 yrs 512 yrs	27.U 23.1	(±0.9) (+0.6)	29.0 27 7	(±2.0) (+2.5)	38.2 25.6	(± 9.7) (+ 8.3)	10.5	(± 5.4) (+ 2.5)	20.5 20.3	(±4.4) (+3.3)

*Data were weighted and aggregated. Full descriptions of the weighting procedures and sample sizes for the states are given in Appendix F of Chronic Disease in Minority Populations (2).

[†]Persons of Hispanic origin may be of any race.

§Confidence interval.

[¶]Reported ever having smoked 100 cigarettes and currently smoking regularly. **Reported participation in fewer than three 20-minute sessions of leisure-time physical activity per week; physical activity as part of usual job activities was not included. ^{††}Self-reported data on height and weight were used to calculate body mass index (BMI)

(weight in kilograms divided by height in meters squared). Overweight was defined as BM \geq 27.8 for men and \geq 27.3 for women.

§§Estimate is not given because there were fewer than 50 respondents.

women had trained black women as group leaders and used ethnic foods and educational materials reviewed by black advisors to ensure **h**at they were culturally appropriate (6). Further evaluation of culturally appropriate interventions is needed to determine whether they are more effective than interventions that have no cultural adaptations.

The findings in this report are subject to at least two limitations. First, because BRFSS is a telephone survey and 5% of households are without telephones, the findings cannot be generalized to the total respective population groups. In addition, telephone ownership varies substantially across racial/ethnic groups: the Bureau of the Census reported that, by race and ethnicity of the householder, in 1990 telephones were in the homes of 98% of Asians/Pacific Islanders, 96% of whites, 88% of Hispanics, 87% of blacks, and 77% of American Indians/Alaskan Natives (7). Second, prevalence estimates of chronic disease risk factors are based on self-reported data and may be subject to reporting bias.

Because poverty is associated with poor health status and poverty is distributed unequally among racial/ethnic groups, education levels and other socioeconomic factors must be considered when examining racial/ethnic group-specific differences in health status and determining intervention strategies. Within the racial/ethnic groups analyzed in this report, the prevalences of current cigarette smoking, sedentary lifestyle, and overweight generally were highest among those with <12 years of education. Although education level is an imperfect proxy measure for socioeconomic status (SES), it is often the only SES marker available from routine surveillance data. Therefore, education level is an important factor in the design of risk-reduction programs to help targeted audiences better understand health messages (8,9). In addition, despite the lower prevalence of telephone ownership among racial/ethnic groups, telephone-based intervention strategies may assist in communicating risk-reduction programs to persons in households with telephones who would not routinely attend risk-reduction programs (10).

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Notice to Readers

Chronic Disease in Minority Populations Report Published

CDC has published *Chronic Disease in Minority Populations*, a national surveillance report on chronic disease indicators in blacks, American Indians/Alaska Natives, Asians/Pacific Islanders, and Hispanics (1). The report is organized by racial/ethnic group and includes sex-specific data on demographics, life expectancy, mortality, morbidity, health-related quality of life, selected behavioral risk factors, and preventive health practices. Copies are available from CDC's Office of Surveillance and Analysis, National Center for Chronic Disease Prevention and Health Promotion, Mailstop K-30, 4770 Buford Highway, NE, Atlanta, GA 30341-3724; telephone (404) 488-5284.

Reference

1. CDC. Chronic disease in minority populations. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, 1994.

Notice to Readers

Publication of Reported Tuberculosis in the United States, 1993

CDC has released *Reported Tuberculosis in the United States, 1993* (1). The report includes the final tabulations of data for tuberculosis (TB) cases verified and counted by state and local health departments in 1993 and includes updated data submitted to CDC through September 30, 1994. As a result, some tabulations in this report vary slightly from the information reported previously in *MMWR* (2). This publication also contains data from the expanded TB surveillance system, which was initiated in January 1993.

Copies of *Reported Tuberculosis in the United States, 1993* (item number 00-6481) are available from CDC's National Center for Prevention Services, Information Services, Mailstop E-06, 1600 Clifton Road, NE, Atlanta, GA 30333; or from the National Center for Prevention Services Voice Information System, telephone (404) 639-1819.

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- 1. CDC. Reported tuberculosis in the United States, 1993. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, 1994.
- 2. CDC. Expanded tuberculosis surveillance and tuberculosis morbidity—United States, 1993. MMWR 1994;43:361–5.

The *Morbidity and Mortality Weekly Report (MMWR)* Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available on a paid subscription basis from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone (202) 783-3238.

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