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MORBIDITY AND MORTALITY WEEKLY REPORT

## Population-Based Mortality Assessment — Baidoa and Afgoi, Somalia, 1992

Since 1990, Somalia has been the site of an intense civil war that has disrupted health-care services and food delivery to a substantial part of the country. A regional drought, in combination with the ongoing civil disturbances, has further resulted in widespread famine. Multiple international government- and nongovernment-aid agencies are involved in the relief effort for Somalia. However, security problems in most areas of Somalia have prevented recent, systematic population-based assessments of the health and nutritional status of local Somali populations for use in directing relief efforts. To characterize the mortality of various Somali populations and to provide data on major population centers outside of the capital (Mogadishu), CDC, in collaboration with the United Nations Children's Fund (UNICEF) and the U.S. Agency for International Development, conducted a survey (1) of urban populations in a central region of Somalia (Figure 1). This report describes two pilot assessments performed during November 20–25 and December 5–6, 1992, in the towns of Baidoa and Afgoi.

## Baidoa

Baidoa is a regional center of the Bay Region of Somalia. Formal census data on this city were not available, and population estimates were provided by nongovernment-aid agencies. In early August 1992, the estimated population of Baidoa was 37,000 persons; by November 20, the town population had decreased to an estimated 21,000. On November 20, based on hut counts, the displaced population at two major camps for displaced persons (DPs) in Baidoa was approximately 5200 persons. An additional unknown number of DPs resided in the town itself.

For this mortality assessment, the DP-camp population was divided into seven areas of approximately equal populations (i.e., clusters), and survey starting points were randomly chosen in each of the seven areas. From the random starting point, residents in approximately seven consecutive huts in each cluster were selected to be interviewed. Interviewees were asked questions regarding deaths that occurred in the family (i.e., parents, spouse, or children) from the first day following the Moslem holi-

## Somalia — Continued

day Ramadan (April 3, 1992) to the day of the interview and deaths that occurred during the 30 days preceding the interview.

Mortality data were collected for 349 DPs who were alive on April 3 (Table 1). From April 3 through November 21, 137 (39%) persons were reported to have died, resulting in an average daily crude mortality rate (CMR) of 16.9 deaths per 10,000 population. Among 63 displaced children aged <5 years, 44 (70%) died from April 3 through November 21 (aged <5 years mortality rate [<5MR]=30.1 deaths daily per 10,000

FIGURE 1. Locations of pilot mortality assessments - Somalia, 1992

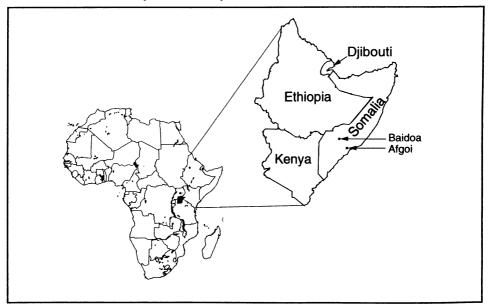


TABLE 1. Number of deaths and mortality rate,\* by age group, for the 30 days preceding the surveys (November/December 1992) and for April–October 1992 for displaced persons (DPs) in Baidoa and Afgoi and resident populations in Afgoi — Somalia, 1992

					Dea	ths			
		population		pril– per 1992		ember/ ber 1992	8-Month		
_	April	November					to		
Area	1992	1992	No.	Rate	No.	Rate	No.	Rate	
Baidoa DPs									
All ages	349	212	121	17.2	16	23.4	137	16.9	
Aged <5 yrs	63	19	39	30.6	5	69.4	44	30.1	
Afgoi DPs									
All ages	237	206	27	5.6	4	6.3	31	5.5	
Aged <5 yrs Residents	56	39	14	12.7	3	23.8	17	12.8	
All ages	767	704	55	3.5	8	3.7	63	3.5	
Aged <5 yrs	147	119	25	8.4	3	8.2	28	8.0	

\*Deaths per 10,000 population per day.

## Somalia — Continued

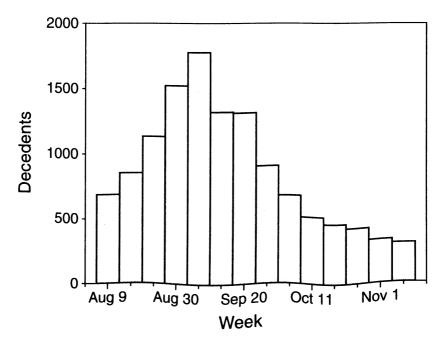
population aged <5 years). For all age groups, the most common reported causes of death based on a structured verbal autopsy were diarrhea (56% [9.4 deaths daily per 10,000]) and measles (23% [3.8 deaths daily per 10,000]). During the 30 days preceding the survey, 16 (7%) of 228 persons died (average CMR=23.4 deaths daily per 10,000), and among children aged <5 years, five (21%) of 24 died (<5MR=69.4 deaths daily per 10,000). Of the sample population alive on November 20, 9% were children aged <5 years.

To measure mortality for the entire town of Baidoa, mortality surveillance data collected by the International Committee of the Red Cross and the Somali Red Crescent Society were used. Each morning, dead persons found in the city were counted after they were transported by truck for burial. From August 9 through November 14, 12,255 dead persons were transported for burial (37% of the estimated August 9 Baidoa population). During this period, an additional 3700 (10%) persons may have emigrated or have died and been buried without being counted. Deaths peaked in early September during concurrent epidemics of measles and multidrug-resistant *Shigella dysenteriae* (Figure 2).

## Afgoi

Afgoi is a town of approximately 35,000 persons that straddles the Shabelle River 19 miles (30 km) west of Mogadishu. To characterize health and mortality patterns in this town, 19 cluster survey starting points were randomly chosen. On November 24–25 and December 5–6, eight consecutive huts or houses were visited in each

## FIGURE 2. Number of decedents counted and transported by truck for burial, by week — Baidoa, Somalia, August 9–November 7, 1992



#### Somalia — Continued

cluster. However, this survey was curtailed before the target number of clusters were visited because of security concerns.

Mortality data were collected from 152 households for 1004 persons who were alive on April 3. Of the 767 long-term residents of Afgoi and 237 persons displaced from other areas who were included in the sample, 94 (9%) persons died from April 3 through December 6 (average CMR=4.0 deaths daily per 10,000). The most commonly reported causes of death based on a structured verbal autopsy were measles (28% [1.1 deaths daily per 10,000]) and diarrhea (22% [0.9 deaths daily per 10,000]).

DPs were more than 1.5 times as likely to die than were residents during this period (DP average CMR=5.5 deaths daily per 10,000; resident average CMR=3.5 deaths daily per 10,000). As in Baidoa, children aged <5 years were at highest risk for death (<5MR=9.4 deaths daily per 10,000); moreover, during this period, mortality rates for displaced children aged <5 years reached 12.8 deaths daily per 10,000.

CMRs during the 30 days preceding the survey remained elevated (DPs=6.3 deaths daily per 10,000; residents=3.7 deaths daily per 10,000) compared with the average daily CMRs for the preceding 7 months (DPs=5.6 deaths daily per 10,000; residents=3.5 deaths daily per 10,000) (Table 1).

Reported by: United Nations Children's Fund, Mogadishu, Somalia. Disaster Assistance Response Team, US Agency for International Development, Nairobi, Kenya. Div of Field Epidemiology, Epidemiology Program Office; Div of Vector-Borne Infectious Diseases, National Center for Infectious Diseases; Div of Environmental Hazards and Health Effects, National Center for Environmental Health; International Health Program Office, CDC.

Editorial Note: Extreme mortality rates commonly occur in famine-affected, internally displaced, and refugee populations (1). During the 1984–85 famine in the Horn of Africa, average CMRs exceeded 20 deaths daily per 10,000 persons (1). By comparison, the reported annual CMRs in the Horn of Africa during nonfamine times ranged from 20 to 24 deaths per 1000, which is equivalent to daily CMRs of 0.55–0.65 deaths per 10,000 persons (2). The findings in these investigations of mortality among DPs in Baidoa and both displaced and resident populations in Afgoi suggest that health conditions are considerably worse in Somalia than they were during peak mortality periods of the 1984–85 famine in Ethiopia and Sudan. The CMRs reported in these villages in Somalia are among the highest ever documented by a population survey among famine-affected civilians.

Because of two important limitations in these studies, the findings cannot be generalized to the entire population of Somalia. First, although these studies were designed as cluster sample-population surveys to assess nutritional status and vaccination coverage among children aged 6–59 months, too few children were present in the sampled households to permit precise estimates of the prevalence of malnutrition in these populations. Second, the Baidoa survey characterized the mortality history only of displaced persons, and the Afgoi survey results may not have characterized all sections of the town because the survey was interrupted.

Despite these limitations, these findings are a measure of the magnitude of the famine-related disaster in Somalia. These findings are also consistent with assessments of previous emergencies that have documented that children aged <5 years and DPs are at highest risk for dying. One indicator of the intensity of this disaster is that only 9% of the sample population in the Baidoa study were aged <5 years compared with 20%–25% for most developing-nation populations.

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#### Somalia — Continued

Although the surveillance data based on body counts in Baidoa suggest a gradual improvement in mortality rates, the mortality rates derived from surveys of Afgoi and DPs in Baidoa may not have decreased during the 30 days preceding the survey, despite the massive relief efforts. The CMR in Afgoi is more than two times higher than the rate recorded for the nearby towns of Merca and Qorioley from April 1991 through April 1992 (*3*). Anecdotal reports from other regions of Somalia (e.g., Bardera and Saco Uen) suggest that local mortality rates may be higher than in Baidoa or Afgoi.

Measles, diarrhea, dysentery, acute respiratory infections, and malaria are common but preventable causes of mortality among famine-affected populations. Feeding programs are critical for reducing protein-energy malnutrition; however, community health programs that focus on the prevention of these infections can also have a major impact on mortality. Community-based measles vaccination and oral rehydration programs should be given high priority during famine-related emergencies. In addition, routine vitamin A supplementation for all children aged <5 years (and older children if malnutrition rates are high in older age groups) may also reduce child mortality, especially measles-related mortality (4). Surveillance efforts should include monitoring of trends in morbidity and mortality and evaluation of relief efforts.

#### References

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## Update: Poliomyelitis Outbreak — Netherlands, 1992

The outbreak in the Netherlands of poliomyelitis among unvaccinated persons who are members of religious groups that generally do not accept vaccination is continuing (1). From September 17 through December 5, 1992, 54 cases of poliomyelitis were reported to the Netherlands' Office of the Chief Medical Officer of Health (Figure 1). Of the 54 patients, 41 (76%) had paralytic manifestations of this illness; one neonate died, and 12 patients had aseptic meningitis. Fifty-one (94%) of the cases have been laboratory confirmed: 40 patients had wild poliovirus type 3 isolated from stool, and 11 had lgM-specific antibody to poliovirus type 3 suggestive of recent infection. All of the reported cases have occurred among unvaccinated (n=53) or inadequately vaccinated (n=1) persons belonging to a religious denomination that routinely does not accept vaccination. Patients ranged in age from <1 month to 56 years (mean age: 18.9 years). Of the 12 provinces in the Netherlands, seven have reported cases of poliomyelitis; the most severely affected provinces are South Holland and Gelderland.

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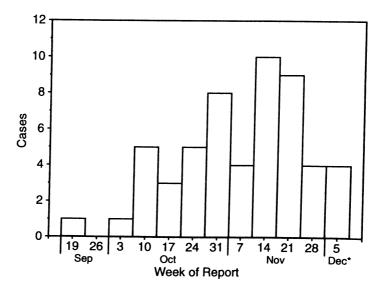
#### Poliomyelitis --- Continued

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**Editorial Note:** The poliomyelitis epidemic in the Netherlands continues despite control measures initiated by the Dutch health authorities, including offering oral poliovirus vaccine to all previously unvaccinated persons belonging to affected religious groups and to other previously unvaccinated persons aged <41 years and offering one dose of enhanced-potency inactivated poliovirus vaccine to persons who are incompletely vaccinated. Based on the ratio of cases of asymptomatic infection to paralytic disease for persons infected with poliovirus type 3 (at least 1000:1) (2), an estimated 54,000 persons in the Netherlands may have been infected with wild poliovirus type 3 during this outbreak. Therefore, the risk for infection may be greater than previously assumed for unvaccinated or inadequately vaccinated travelers to the Netherlands. In addition, the potential for spread of this poliovirus to other areas (including the North American continent) by asymptomatically infected travelers from the Netherlands—even if not directly linked to a clinical case—also may be higher than previously assumed.

To prevent transmission of imported polioviruses and cases of paralytic disease in the United States, increased efforts are necessary to vaccinate all unvaccinated or inadequately vaccinated persons in the United States in accordance with recommendations of the Advisory Committee on Immunization Practices (3,4). Public health agencies and health-care providers should intensify outreach, especially to unvaccinated persons in these religious communities who do not routinely accept vaccination.

# FIGURE 1. Number of poliomyelitis cases, by week of report — Netherlands, weeks ending September 19–December 5, 1992



\*Reporting may be incomplete.

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MMWR

## Poliomyelitis — Continued

The risk for acquiring poliomyelitis while in the Netherlands is considered small because of the excellent sanitation in the country and because transmission of the poliovirus has been limited primarily to unvaccinated religious groups. Nonetheless, the polio immunity of travelers to the Netherlands should be evaluated, and persons with inadequate protection should complete a primary vaccination series with three doses of poliovirus vaccine before departure. For travelers with a completed primary series of poliovirus vaccine, it may be prudent to obtain one dose of poliovirus vaccine before departure travel in the Netherlands or contact with persons in the affected religious groups is anticipated.

#### References

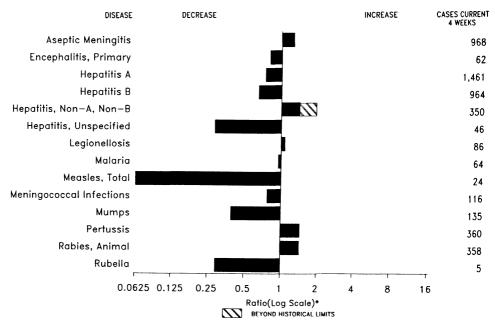
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## Effectiveness in Disease and Injury Prevention

## Knowledge of the Purpose of Community Water Fluoridation — United States, 1990

Expansion of water-fluoridation programs in the United States has been based on the clear documentation of the caries-preventive benefits of fluoride (1), as well as resources made available since the 1970s through the Fluoridation and Preventive Services Block grants administered by CDC. An estimated 135 million persons in the United States—approximately 61% of the population served by public water supplies—have access to drinking water with clinically important levels of fluoride (0.7 ppm or higher) for the prevention of dental caries (2). Efforts to expand the implementation of community water fluoridation require dissemination and understanding of information about health benefits and purported health risks. This report summarizes results from the 1990 National Health Interview Survey (NHIS) regarding public knowledge of the purpose and value of fluoridation of community drinking water.

Data for the NHIS were collected by CDC's National Center for Health Statistics through personal interviews with a representative sample of the civilian, noninstitutionalized, U.S. population aged ≥18 years. The NHIS is conducted throughout the year and has two parts: a basic health and demographic questionnaire (core) that is constant, and several specific health-topic questions directed to adults in sample households. The 1990 NHIS included 41,104 respondents. Respondents were asked: "As you understand it, what is the purpose of adding fluoride to the public drinking water?" Interviewers coded responses as one of the following: "prevent tooth decay, protect teeth, or related response"; "purify the water or related response"; "other"; or "don't know." Analysis reflects adjustment for unequal probabilities of selection and for clustering introduced during sampling.



## FIGURE I. Notifiable disease reports, comparison of 4-week totals ending December 5, 1992, with historical data — United States

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

## TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending December 5, 1992 (49th Week)

	Cum. 1992		Cum. 1992
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhee Haemophilus influenzae (invasive disease)	42,978 1 18 56 1 79 97 9 4 106 453,531 1,189	Measles: imported indigenous Plague Poliomyelitis, Paralytic <sup>†</sup> Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year <sup>§</sup> Tetanus Toxic shock syndrome Trichinosis Tuberculosis	128 2,066 12 83 31,540 1,639 40 211 37 21,594
Hansen Disease Leptospirosis Lyme Disease	135 45 7,531	Tularemia Typhoid fever Typhus fever, tickborne (RMSF)	149 368 480

\*Updated monthly; last update December 5, 1992. \*Four cases of suspected poliomyelitis have been reported in 1992; 6 of the 9 suspected cases with onset in 1991 were confirmed, and 5 of the 8 suspected cases with onset in 1990 were confirmed; all were vaccine associated. <sup>5</sup>Reports through second quarter 1992.

NEW ENGLAND         Teory         431         27         -         9.618         13.400         558         497         9.4         25         49         1.565           N.H.         45         43         3         -         114         183         31         34         20         2         8         37           Man.         789         163         13         -         3.391         5.144         271         387         50         22         2         2         2           MD.         776         1053         13         -         -         5.388         50         12         -         10.209           VDSTLOV         1.4697         439         -         -         7.090         12.085         317         438         5         -         8         24           N.J.         1.467         1.469         -         -         7.090         12.085         31119         424         22.088         5         -         8         24         1365         1.600         136         1.776         24         1365         1.600         12.217         1.600         1.221         136         1.221         1.121         240<	December 5, 1992, and December 7, 1991 (49th Week)												
Apporting Area         ADS <sup>1</sup> Memin inscription         Promary 1992         Post-in- 1992         Gum         Curr. 1992         Curr. 1993         Cu	C		Aseptic	Encept	nalitis			He	patitis (\	/iral), by	type		
1992         1992 <th< th=""><th>Reporting Area</th><th></th><th>Menin-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>fied</th><th>losis</th><th>Disease</th></th<>	Reporting Area		Menin-								fied	losis	Disease
NEW ENGLAND         1.607         431         2.7         -         9.618         13.400         558         467         94         2.5         49         1.56           N.H.         45         43         3         -         114         183         31         34         20         2         6         37           N.H.         45         43         3         -         2.14         183         31         34         20         2         8         37           M.R.         738         165         13         -         2.24         5         2.24         5         2.24         5         3.391         5.13         6         17         305         2.3         308         4.473         30.6         2.2765         N.C(N)         6.333         1.51         6         2.17594         2.5867         669         356         2         4         3.20         1.1020         1.0604         2.56         3.1         106         1.027         1.023         1.024         5.26         3.1         106         1.027         1.03         1.027         1.03         1.027         1.03         1.027         1.03         1.027         1.03         1.027 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Cum. 1991</th> <th></th> <th>Cum. 1992</th> <th></th> <th>Cum. 1992</th> <th></th> <th></th>							Cum. 1991		Cum. 1992		Cum. 1992		
Maine         44         42         3         -         10         154         30         22         6         -         2         5           VI.         28         23         3         -         114         183         31         34         20         2         3         7           VI.         28         23         3         -         114         183         31         34         20         2         3           VI.         28         23         30         5         11         1132         10         160         2         224           Conn.         603         13         68         22         16         137         -         -         120         226         6         38         5         -         8         24         131         10         100 <td< td=""><td>UNITED STATES</td><td>42,978</td><td>10,782</td><td>645</td><td>106</td><td>453,531</td><td>569,221</td><td>19,588</td><td>13,857</td><td>5,382</td><td>675</td><td>1,195</td><td>7,531</td></td<>	UNITED STATES	42,978	10,782	645	106	453,531	569,221	19,588	13,857	5,382	675	1,195	7,531
N.H.       46       43       3       -       114       182       31       34       20       2       8       37         Mass.       796       163       13       -       3,399       5,744       278       388       50       23       25       224         Mos.       303       199       3       -       511       112       140       17       6       -       2       288         Con.       303       153       6       2       1775       456       567       679       88       15       9       8       24         N.Y.C.       1376       6       2       1754       2566       454       9       6       44       663         P.A.       1,200       276       19       6       16,088       17,817       240       526       31       100       100       1021         Ch.CENTRAL       1,382       363       18,16       160       22       23,255       31       37       75       13       20       135         Ch.CENTRAL       1,386       269       52       2       23,267       640       33       31       33       <					-						25		
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N.J.       1.976       -       -       7.090       10,804       256       454       94       -       41       663         E.N. CENTRAL       3.853       1.816       160       29       86,840       109,885       2.616       1.637       705       24       320       135         Ind.       380       220       12       12       8.427       10,822       724       203       25       2       33       20         Mich.       683       559       25       9       19,414       25,350       1340       540       42       11       69       27         Mich.       683       559       25       9       19,414       25,350       1340       540       42       11       69       27       75       -       39       -       3,667       6,907       735       37       75       -       39       -       17,43       39       -       17,43       39       -       17,43       39       -       17,43       39       -       17,43       39       -       17,43       30       -       17,43       30       -       17,43       30       -       18,41       18,63 <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>13</td> <td></td> <td></td>				-	-						13		
Pa.       1,200       276       19       6       16,088       17,817       2.40       5.26       31       10       160       1.021         Chi, CENTRAL       3853       1.816       160       29       86.40       109,885       2.616       1.637       705       2.4       320       135         Ohio       380       200       12       12       8.427       10.622       724       220       85       2       33       20         Mich.       683       550       25       9       19.414       25.50       140       540       424       11       69       277       33       277       5       7       339       7       5       18       30       7       5       88       30       7       5       18       30       30       7       5       18       30       30       7       5       18       30       30       7       5       18       30       30       7       5       18       30       30       7       5       18       30       30       7       5       18       30       30       30       30       40       30       10       10 <td>N.J.</td> <td></td> <td>153</td> <td>-</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	N.J.		153	-	2						-		
Ohio         Ease         467         52         2         25,850         33,119         422         220         86         4         149         61           Ind.         386         520         12         12         8,427         10,627         724         203         25         2         33         20           III.         1,866         520         68         6         29,482         33,867         595         297         95         7         30         27           Wis.         CATTAL         1,196         6,807         735         377         7         -         39         -           Win.CENTRAL         1,196         66         2,824         2,8162         2,653         632         273         35         74         339           Mon.         654         243         8         -         14,936         16,812         1,196         242         21         26         101           Nok.         5         10         3         -         159         85         112         3         1         2         16         1         77         15         1         7         15         7         15 </td <td>Pa.</td> <td></td> <td>276</td> <td>19</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td>160</td> <td></td>	Pa.		276	19	6						10	160	
$      Ind. 380 220 12 12 2 8.427 10.622 724 203 25 2 33 20 \\       Mich. 683 559 25 9 19,414 25,350 140 540 424 11 69 27 \\       Mich. 683 559 25 9 19,414 25,350 140 540 424 11 69 27 \\       Minn. 213 99 17 - 2,279 2,982 709 71 20 2 6 774 339 \\       Minn. 213 99 17 - 2,279 2,292 709 71 20 2 6 714 \\       lowa 78 94 - 3 1,444 1,865 53 33 7 5 18 30 \\       Mo. 654 243 8 - 14,336 16,812 1,196 424 211 26 26 101 \\       N. Dak. 5 1 3 - 59 85 112 3 4 1 2 1 1 \\       N. Dak. 5 1 3 - 59 85 112 3 4 1 2 1 1 \\       Ner. 55 34 4 2 8 1,886 248 39 16 1 17 15 \\       S. Dak. 8 10 3 1 161 336 208 5 1 1 \\       Ner. 55 34 4 2 8 1,886 248 39 16 1 17 15 \\       S. TALANTIC 9,729 1,639 166 49 133,471 167,231 1,277 2,351 872 118 186 622 \\       Dal. 122 52 6 6 - 16,482 4,242 4396 129 57 15 - 5 17 \\       Dal. 122 52 7 16 - 6,462 8(800 14 79 278 - 18 - 38 12 2) \\       Md. 1,207 207 16 - 15,346 18,667 235 371 34 10 34 165 \\       D.C. 685 28 1 - 6,632 8(31,314,103 17,312 141 176 37 47 19 13 3 19 \\       N.a. 623 275 36 113 14,103 17,312 141 176 37 47 19 13 3 19 \\       N.a. 623 275 36 13 34,103 17,312 141 79 357 81 - 38 16 2 \\       S.C. 260 127 3 36 257 16 - 15,346 18,867 235 371 34 10 34 165 \\        D.C. 685 28 1 - 6,362 8(500 14 79 278 - 1 - 38 33 24 31 12 \\        N.a. 623 475 38 12 - 20,803 33,497 75 3 1 - 38 6 29 \\        S.C. 260 127 3 36 25 - 20,299 31,376 31,395 78 1 - 38 33 24 31 12 \\        S.C. 260 127 3 36 25,71 6 3,3497 75 3 71 3 36 7 61 32 31 - 38 7 7 1 9 13 2 11 \\                              $	E.N. CENTRAL												
III.       1.866       520       66       6       29.482       33.887       595       297       95       7       30       27         Wis.       238       559       3       -       3.667       6.907       735       377       75       -       39       -         Wis.       CENTRAL       1196       6.86       40       6       2.382       2.8162       2.63       632       2.73       57       -       39       -       -       130       -       2.882       709       71       20       2       6       174       300       2       71       130       -       130       -       50       632       2.73       33       7       5       36       14       1       2       11       16       1336       166       17       15       -       -       -       1       186       266       39       16       17       15       -       -       17       15       -       -       17       15       -       -       17       15       -       -       17       15       -       -       16       17       15       1       1       16       2													61 20
Wis.       238       50       3       -       3,667       6,907       735       377       75       -       39         Minn.       78       586       40       6       2,822       2,862       2,633       632       273       35       74       339         Minn.       78       344       1,865       632       273       35       74       339         Mo.       654       243       8       -       1,444       1,965       432       211       26       26       101         N. Dak.       8       10       3       1       161       336       208       5       -       -       1       1         S.Dak.       8       100       3       1       161       336       208       5       -       -       1 </td <td>40. 40.</td> <td></td>	40. 40.												
WN, CENTRAL       1,196       586       40       6       23,824       28,162       2,553       632       273       35       74       339         Minn.       213       99       17       -       2,792       2,882       703       71       20       2       61       174         Moak       65       244       8       -       14,343       161       333       7       5       18       30         N. Dak       65       244       8       -       14,393       16,612       11       211       226       11       1       15       1       1       1       1       1       1       1       1       36       122       57       15       -       1       1       1       23       207       1       1       1       23       207       1       1       1       23       207       1 <td>Mich.</td> <td></td> <td></td> <td></td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td> <td></td> <td>27</td>	Mich.				9						11		27
$\begin{array}{llllllllllllllllllllllllllllllllllll$					-						-		-
iowa         78         94         -         3         1444         1,865         53         33         7         5         18         30           N. Dak.         5         1         3         -         59         85         112         3         4         1         2         10           N. Dak.         5         1         3         -         59         85         112         3         4         1         2         10           Nobr.         55         34         4         2         8         1,868         246         39         16         1         17         15           Kans.         1122         52         6         -         1,648         2,722         56         191         1         23         207           Md.         1,207         207         16         -         15,346         18,667         23         31         1         103         32         47         19         112           Md.         4,20         75         36         13         14,103         17,312         141         176         37         47         19         112           N.C.					6								
N. Dak. 5 1 3	lowa	78	94	-	3	1.444	1,865	53	33	7	5	18	30
S, Dak.       8       10       3       1       161       336       208       5       -       -       -       1         Kans.       183       105       5       -       4,424       4,396       129       57       15       -       5       177         S. ATLANTIC       9,729       1,639       166       49       133,471       167,231       1,277       2,351       872       118       186       622         Dal.       1,207       207       16       -       15,346       18,867       235       371       34       10       34       165         D.C.       685       28       1       -       6,362       8,600       14       79       278       -       19       3         Va.       623       275       36       13       14,103       17,312       141       176       37       47       19       112         N.C.       634       191       26       -       2,258       32,457       103       387       81       -       38       32       24       31         R.G.       2207       203       2       -       3603       39						14,936							101
Nebr.       55       34       4       2       8       1,686       246       39       16       1       17       15       5       17         S. ATLANTIC       9,729       1,639       166       49       133,471       167,231       1,277       2,351       872       118       186       6222         Del.       122       52       6       -       1,648       2,722       56       199       181       1       23       237         Md.       1,207       207       706       -       15,346       18,867       235       371       34       10       34       106       34       106       34       106       37       47       19       112         W.a.       623       275       36       13       11,01       736       37       19       112       218       950       3       26       -       122       868       33       24       33       13       13       211       16       236       33       326       132       13       13       212       133       212       133       225       133       333       224       331       333       225	S. Dak.	-			1					4	-	-	i
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Nebr.	55	34	4		8	1,686	246	39		1		
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W. Va. $49$ $40$ $76$ $76$ $726$ $726$ $1218$ $9$ $50$ $3$ $26$ $ 12$ N.C. $634$ $191$ $26$ $ 23,258$ $32,457$ $103$ $387$ $81$ $ 38$ $69$ S.C. $260$ $26$ $  10,209$ $13,393$ $22$ $53$ $1$ $1$ $16$ $2$ Ga. $1,207$ $203$ $2$ $ 36,033$ $39,165$ $194$ $276$ $119$ $ 13$ $21$ Fla. $4,942$ $617$ $3$ $36$ $25,716$ $33,497$ $503$ $760$ $138$ $33$ $24$ $31$ E.S. CENTRAL $1,309$ $529$ $30$ $ 46,099$ $57,144$ $336$ $1,250$ $1,270$ $2$ $59$ $68$ Ky. $202$ $185$ $18$ $ 4,461$ $5,638$ $1,250$ $1,270$ $2$ $59$ $68$ Ky. $202$ $185$ $18$ $ 4,461$ $5,638$ $1,250$ $1,270$ $2$ $59$ $68$ Ky. $202$ $185$ $18$ $ 446,099$ $57,144$ $336$ $1,250$ $1,270$ $2$ $59$ $68$ Ky. $202$ $185$ $18$ $ 4,461$ $5,638$ $125$ $88$ $6$ $ 26$ $26$ $26$ Tenn. $419$ $136$ $7$ $ 14,773$ $19,339$ $122$ $10.29$ $1,246$ $ 27$ $33$ Ala. $454$ $133$ $4$ $ 15,860$ $18,939$ $49$ $129$ $17$ $-1$ $6$ $9$ Miss. $2344$ $75$ $ 1$ $ 11,005$ $13,228$ $40$ $4$ $ 1$ $ 1$ $  10$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $10$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $16$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $16$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $10$ Ark. $229$ $120$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $10$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $10$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $10$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $10$ Ark. $269$ $20$ $7$ $ 7,073$ $7,435$ $130$ $92$ $8$ $4$ $ 1$ $10$ Ark. $2893$ $1,042$ $45$ $2$ $24,422$ $35,289$ $91,1413$ $1,312$ $28$ $147$ $7$ $64$ MOUNTAIN $1,236$ $379$ $30$ $5$ $11,299$ $11,297$ $2,819$ $711$ $270$ $61$ $92$ $16$ Mont. $20$ $12$ $1$ $1$ $1$ $102$ $94$ $85$ $32$ $27$ $1$ $9$ $ 24$ $2$ $2$ 2 $1$ $2$ $13$ $113$ $13$ $12$ $13$ $131$ $1312$ $28$ $147$ $7$ $14$ $2$ $2$ $1317$ $13$ $12$ $13$ $13$ $12$ $13$ $139$ $122$ $130$ $14$ $140$ $1$	D.C.	685	28	1	-	6,362	8,600	14	79	278	-		3
N.C. 634 191 26 - 23,258 32,457 103 387 81 - 38 69 S.C. 260 26 10,209 13,393 22 53 1 1 16 2 Ga. 1,207 203 2 - 36,033 39,165 194 276 119 - 13 21 Fla. 4,942 617 3 36 25,716 33,497 503 760 138 33 24 31 E.S. CENTRAL 1,309 529 30 - 46,099 57,144 336 1,250 1,270 2 59 68 Ky. 202 185 18 - 4,461 5,638 125 88 6 - 26 26 Tenn. 419 136 7 - 14,773 19,339 122 1,029 1,246 - 27 33 Ala. 454 133 4 - 15,860 18,939 49 129 17 1 6 9 Miss. 234 75 1 - 11,005 13,228 40 4 1 1 W.S. CENTRAL 4,053 1,134 64 5 50,517 63,840 1,935 130 92 8 4 1 16 La. 672 72 9 1 13,765 14,676 201 166 88 3 6 25 Okla. 219 - 3 2 5,257 6,440 191 183 43 5 10 25 Tex. 2,893 1,042 45 2 24,422 35,289 1,413 1,312 28 147 7 64 MOUNTAIN 1,236 379 30 5 11,299 11,927 2,819 711 270 61 92 16 Mont. 20 12 1 1 102 94 85 32 27 1 9 - Idaho 34 22 110 152 87 77 - 2 4 22 MOUNTAIN 1,266 379 30 5 11,299 11,927 2,819 711 270 61 92 16 Mont. 20 12 1 1 102 94 85 32 27 1 9 - Idaho 34 22 110 152 87 77 - 2 4 22 MY.O. 5 6 2 - 54 91 12 175 2 - 1 5 Colo. 382 119 11 1 3,994 3,491 776 107 92 27 19 - Mont. 20 12 1 - 1100 54 85 32 27 1 9 - Colo. 382 119 11 1 3,994 3,491 776 107 92 27 19 - N.Mex. 110 54 4 4 1889 943 280 201 30 8 2 2 Ariz. 348 100 6 1 4,001 4,403 1,067 163 27 15 31 - Colo. 382 119 11 1 4,394 3,491 776 107 92 27 19 - Ariz. 348 100 6 1 4,001 4,403 1,067 163 27 15 31 - PACIFIC 8,959 3,400 103 4 40,882 50,979 5,912 3,260 1,426 228 83 203 Mash. 506 - 2 - 54 91 12 1,265 989 200 67 183 PACIFIC 8,959 3,400 103 4 40,882 50,979 8,912 3,260 1,426 228 83 203 Mash. 506 - 2 - 1,553 1,899 459 265 76 9 1 - PACIFIC 8,959 3,400 103 4 40,882 50,979 5,912 3,260 1,426 228 83 203 Mash. 506 - 2 - 3,663 4,457 732 3,280 1,448 8 13 13 Oreg. 274 1,553 1,899 459 265 76 9 1 - PACIFIC 8,959 3,400 103 4 40,882 50,979 5,912 3,260 1,426 228 83 203 Mash. 506 - 2 - 3,663 4,457 732 3,280 1,448 8 13 13 Oreg. 274 1,553 1,899 459 265 76 9 1 - PAR. 1,546 160 2 215 509 41 380 163 17 1 - PAR. 1,546 160 2 150 377 5 1 - 6 - 1 PAR. 1,546 160 2 215 509 41 38					13		17,312					19	
	N.C.	634	191		-		32,457	103			-		69
Fla.4.942617336 $25,716$ $33,497$ $503$ $760$ $138$ $33$ $24$ $31$ E.S. CENTRAL1.309 $529$ $30$ - $46,099$ $57,144$ $336$ $1,250$ $1,270$ $2$ $59$ $683$ Ky.202 $185$ $18$ - $4,461$ $56,688$ $125$ $88$ $6$ - $26$ $26$ Tenn.419 $136$ 7- $14,773$ $19,339$ $122$ $1,029$ $1,246$ - $27$ $33$ Ala. $454$ $133$ 4- $15,860$ $18,939$ $49$ $129$ $17$ 16 $9$ Miss. $234$ $75$ 1- $11,005$ $13,728$ $40$ 411W.S. CENTRAL $4,053$ $1,134$ $64$ 5 $50,517$ $63,840$ $1,935$ $1,753$ $167$ $159$ $24$ $110$ Ark.269207- $7,073$ $7,435$ $130$ $92$ $8$ $4$ $1$ $16$ La. $672$ 7291 $13,765$ $14,676$ $201$ $166$ $88$ $36$ $5$ Okla. $219$ - $32$ $22,5257$ $6,440$ $191$ $183$ $43$ $5$ $10$ $25$ MOUNTAIN $1,236$ $379$ $30$ $5$ $11,299$ $1,927$ $2,819$ $711$ $270$ $61$ $92$ $16$ Mont. $20$ <				-	-					110	1		
Ky.20218518-4,4615,638125886-2626Tenn.4191367-14,77319,3391221,0291,246-2733Ala.4541334-15,86018,9394912917169Miss.234751-11,00513,22840411W.S. CENTRAL4,0531,13464550,51763,8401,9351,75316715924110Ark.269207-7,0737,4351309284116La.672729113,76514,67620116688365Okla.219-325,2576,4401911834351025Tex.2,8931,04245224,22235,2891,4131,31228147764MOUNTAIN1,23637930511,29911,9272,819711270619216Mont.2012111029485322719-Idaho34221101528777-242Vito.362-549112<	Fla.				36						33		
Ienn.       419       136       7       -       14,773       19,339       122       1,029       1,246       -       27       33         Ala.       454       133       4       -       15,860       18,939       49       129       17       1       6       9         Miss.       234       75       1       -       15,860       18,939       49       129       17       1       6       9         Miss.       234       75       1       -       11,005       13,228       40       4       1       1       -       -         W.S. CENTRAL       4,053       1,134       64       5       50,517       63,840       1,935       1,753       167       159       24       110         Ark.       269       20       7       -       7,073       7,435       130       92       8       4       1       16       183       43       5       10       25         Okla.       219       1,226       379       30       5       11,299       11,131       131       131       131       132       28       147       7       64         MOUNTA	E.S. CENTRAL				-	46,099	57,144			1,270	2		
Ala.       454       133       4       -       15,860       18,939       49       129       17       1       6       9         Miss.       234       75       1       -       11,005       13,228       40       4       1       1       -       -         Wis.       CENTRAL       4,053       1,134       64       5       50,517       63,840       1,935       1,753       167       159       24       110         Ark.       269       20       7       -       70,073       7,435       130       92       8       4       1       16         La.       672       72       9       1       13,765       14,676       201       166       88       3       6       5         Okla.       219       -       3       2       24,422       35,289       1,413       1,312       28       147       7       64         MOUNTAIN       1,236       379       30       5       11,299       11,927       2,819       711       270       61       92       16         Mont.       20       12       1       1002       94       85       32 </td <td>Ky.</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>5,638</td> <td></td> <td></td> <td>•</td> <td>-</td> <td></td> <td></td>	Ky.				-		5,638			•	-		
Miss.       234       75       1       -       11,005       13,228       40       4       1       1       -       -         W.S. CENTRAL       4,053       1,134       64       5       50,517       63,840       1,935       1,753       167       159       24       110         Ark.       269       20       7       -       7,073       7,435       130       92       8       4       1       16         La.       672       72       9       1       13,765       14,676       201       166       88       3       6       5         Okla.       219       -       3       2       5,257       6,440       191       183       43       5       10       25         Tex.       2,893       1,042       45       2       2,422       3,5289       1,413       1,312       28       147       7       64         MOUNTAIN       1,236       379       30       5       11,299       11,927       2,819       711       270       61       92       16         Mont.       20       12       1       102       94       85       32 <t< td=""><td>Ala.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td></t<>	Ala.										1		
Ark.269207-7,0737,4351309284116La.672729113,76514,67620116688365Okla.219-325,2576,4401911834351025Tex.2,8931,04245224,42235,2891,4131,31228147764MOUNTAIN1,23637930511,29911,9272,819711270619216Mont.20121110094853227719-Idaho34221101528777-242Colo.3821191113.9943.491776107922719-Nex.1105441889943280201308222Ariz.3481006140014,4031,067163271531-Nev.219473-1,8502,437989614-2311Nev.219473-1,8502,437989614-2311Nev.219473-1,8502,43798 </td <td>Miss.</td> <td></td> <td>75</td> <td>1</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>-</td> <td>-</td>	Miss.		75	1	-						1	-	-
La.       672       72       9       1       13,765       14,676       201       166       88       3       6       5         Okla.       219       -       3       2       5,257       6,440       191       183       43       5       10       25         Tex.       2,893       1,042       45       2       24,422       35,289       1,413       1,312       28       147       7       64         MOUNTAIN       1,236       379       30       5       11,299       11,927       2,819       711       270       61       92       16         Mont.       20       12       1       1       100       94       85       32       27       1       9       -         Idaho       34       22       -       -       110       152       87       77       -       2       4       2         Wyo.       5       6       2       -       54       91       12       15       52       -       1       5         Colo.       382       119       11       1       3,994       3,491       766       107       92       2	W.S. CENTRAL				5								
Okla.         219         -         3         2         5/257         6/440         191         183         43         5         10         25           Tex.         2,893         1,042         45         2         24,422         35,289         1,413         1,312         28         147         7         64           MOUNTAIN         1,236         379         30         5         11,299         11,927         2,819         711         270         61         92         16           Mont.         20         12         1         100         94         85         32         27         1         9         -           Idaho         34         22         -         -         110         152         87         77         -         2         4         2           Woo.         5         6         2         -         54         91         12         15         52         -         1         5           Ariz.         348         100         6         1         4001         4,403         1,067         163         27         15         31         -           Nev.         219					-								
Tex.       2,893       1,042       45       2       24,422       35,289       1,413       1,312       28       147       7       64         MOUNTAIN       1,236       379       30       5       11,299       11,272       2,819       711       270       61       92       16         Mont.       20       12       1       1       100       94       85       32       27       1       9       -         Idaho       34       22       -       -       110       152       87       77       -       2       4       2         Colo.       382       119       11       1       3.94       3.491       76       107       92       27       19       -         Nex.       110       54       4       1       889       943       280       201       30       8       2       22         Ariz.       348       100       6       1       403       1.067       163       27       15       31       -         Nev.       219       47       3       -       1.850       2.437       98       96       14       - <t< td=""><td>Okla.</td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Okla.		12										
Mont.       20       12       1       100	Tex.	2,893	1,042	45	2		35,289	1,413	1,312	28	147	7	64
Idaho       34       22       .       .       100       152       87       77       .       2       4       2         Wyo.       5       6       2       -       54       91       12       15       52       -       1       55         Colo.       382       119       11       1       3.994       3.491       776       107       92       27       19       -         N. Mex.       110       54       4       1       889       943       280       201       30       8       2       22         Ariz.       348       100       6       1       4.001       1.667       163       277       15       31       -         Utah       118       19       3       1       299       316       414       20       28       8       3       6         Nev.       219       47       3       -       1,850       2.437       98       96       1.4       -       23       1         PACIFIC       8,959       3,400       103       4       40,882       50.979       5.912       3,2650       1,426       228       83 <td></td> <td>16</td>													16
Wyo.       5       6       2       -       54       91       12       15       52       -       1       5         Colo.       382       119       11       1       3,994       3,991       776       107       92       27       19       -         N. Mex.       110       54       4       1       889       943       280       221       30       8       2       2         Ariz.       348       100       6       1       4,001       4,403       1,067       163       27       15       31       -         Utah       118       19       3       1       299       316       414       20       28       83       203         Nev.       219       47       3       -       1,850       2,437       98       96       14       -       23       1         PACIFIC       8,959       3,400       103       4       40,882       50,979       5,912       3,260       1,426       228       83       203         Wash.       506       -       2       -       3,663       4,457       732       334       148       8	idaho			1	1					2/		•	2
N. Mex.       110       54       4       1       889       943       280       201       30       8       2       2         Ariz.       348       100       6       1       4,001       4,403       1,067       163       27       15       31       -         Ariz.       348       100       6       1       4,001       4,403       1,067       163       27       15       31       -         Utah       118       19       3       1       299       316       414       20       28       8       3       6         Nev.       219       47       3       -       1,850       2,437       98       96       14       -       23       1         PACIFIC       8,959       3,400       103       4       40,882       50,979       5,912       3,260       1,426       228       83       203         Oreg.       274       -       -       -       1,555       1,899       459       265       76       9       1       -         Calif.       8,023       3,285       94       3       34,572       43,127       4,470       2,625 <td>Wyo.</td> <td>5</td> <td>6</td> <td></td> <td>-</td> <td>54</td> <td>91</td> <td>12</td> <td>15</td> <td></td> <td>-</td> <td>1</td> <td></td>	Wyo.	5	6		-	54	91	12	15		-	1	
Ariz.       348       100       6       1       4003       1067       163       27       15       31       -         Utah       118       19       3       1       299       316       414       20       28       8       3       6         Nev.       219       47       3       -       1,850       2,437       98       96       14       -       23       1         PACIFIC       8,959       3,400       103       4       40,882       50,979       5,912       3,260       1,426       228       83       203         Wash.       506       -       2       -       3,663       4,457       732       334       148       8       13       13         Oreg.       274       -       -       -       1,553       1,899       459       265       76       9       1       -       -       -       -       1,853       92       18       62       -													-
Utah         118         19         3         1         299         316         414         20         28         8         3         6           Nev.         219         47         3         -         1,850         2,437         98         96         14         -         23         1           PACIFIC         8,959         3,400         103         4         40,882         50,979         5,912         3,260         1,426         228         83         203           Wash.         506         -         2         -         3,663         4,457         732         334         148         8         13         13           Oreg.         274         -         -         -         1,553         1,899         459         265         76         9         1         -         -         -         1,553         1,899         459         265         76         9         1         -         -         -         1         -         2,625         989         200         67         189         1         -         -         -         -         -         -         -         -         -         -         -<	Ariz.												
PACIFIC       8,359       3,400       103       4       40,862       50,979       5,912       3,260       1,426       228       83       203         Wash.       506       -       2       -       3,663       4,457       732       334       148       8       13       13         Creg.       274       -       -       -       1,553       1,899       459       265       76       9       1       -         Calif.       8,023       3,285       94       3       34,572       43,127       4,470       2,625       989       200       67       188         Alaska       14       17       7       -       621       833       92       18       62       -       -         Hawaii       142       98       -       1       473       663       159       18       207       9       2       1         Guam       -       2       -       -       50       27       5       1       -       6       -       1         P.R.       1,546       160       2       -       215       509       41       380       163       17 <td>Utah</td> <td></td> <td>19</td> <td>3</td> <td></td> <td>299</td> <td>316</td> <td>414</td> <td>20</td> <td>28</td> <td></td> <td>3</td> <td></td>	Utah		19	3		299	316	414	20	28		3	
Wash.       506       -       2       -       3,663       4,457       732       334       148       8       13       13         Oreg.       274       -       -       -       1,553       1,899       459       265       76       9       1       -         Calif.       8,023       3,285       94       3       34,572       43,127       4,470       2,625       989       200       67       188         Alaska       14       17       7       -       621       833       92       18       6       2       -       -         Hawaii       142       98       -       1       473       663       159       18       207       9       2       1         Guam       -       2       -       50       27       5       1       -6       -       1         P.R.       1,546       160       2       -       215       509       41       380       163       17       1       -         VI.       10       -       -       103       342       5       7       -       -       -       -       -       -					-						-		
Oreg.       274       -       -       1,553       1,899       459       265       76       9       1       -         Calif.       8,023       3,285       94       3       34,572       43,127       4,470       2,625       989       200       67       189         Alaska       14       17       7       -       621       833       92       18       6       2       -       -         Hawaii       142       98       -       1       473       663       159       18       207       9       2       1         Guam       -       2       -       -       50       27       5       1       -       6       -       1         P.R.       1,546       160       2       -       215       509       41       380       163       17       1       -         VI.       10       -       -       103       342       5       7       -       <	Wash.		3,400		4								
Alaska       14       17       7       621       833       92       18       6       2       -       -         Hawaii       142       98       -       1       473       663       159       18       207       9       2       1         Guam       -       2       -       -       50       27       5       1       -       6       -       1         R.<       1,546       160       2       -       215       509       41       380       163       17       1       -       -       1       -       -       1       -       -       1       -       -       1       -       -       1       -       -       1       -       -       -       1       -       -       -       1       -       -       -       1       -       -       -       -       -       -       -       1       -	Oreg.	274	-	-	-		1,899						
Hawaii     142     98     1     473     663     159     18     207     9     2     1       Guam     -     2     -     50     27     5     1     -     6     -     1       P.R.     1,546     160     2     -     215     509     41     380     163     17     1     -       VI.     10     -     -     103     342     5     7     -     -     -       Amer. Samoa     -     -     49     61     1     1     -     -     -					3							67	189
Guam         2         -         50         27         5         1         -         6         -         1           P.R.         1,546         160         2         -         215         509         41         380         163         17         1         -           VI.         10         -         -         103         342         5         7         -         <	Hawaii			· ·	1							2	1
P.R. 1,546 160 2 - 215 509 41 380 163 17 1 - VI. 10 103 342 5 7	Guam	-		-	-	50		5		-		-	
Amer. Samoa - 49 61 1 1	P.R.		160	2	-	215	509	41		163		1	-
40 01 1 1 1	Amer. Samoa	10	-	-	-			-		-	-	-	-
	C.N.M.I.	-	-	-						-	-	-	-

# TABLE II. Cases of selected notifiable diseases, United States, weeks ending December 5, 1992, and December 7, 1991 (49th Week)

N: Not notifiable U: Unavailable \*Updated monthly; last update December 5, 1992.

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C.N.M.I.: Commonwealth of Northern Mariana Islands

			Measle	s (Bube	ola)		Menin-						1		
Reporting Area	Malaria	Indig	enous		orted*	Total	gococcal Infections	Mu	mps	Pertussis			Rubell	8	
	Cum. 1992	1992	Cum. 1992	1992	Cum. 1992	Cum. 1991	Cum. 1992	1992	Cum. 1992	1992	Cum. 1992	Cum. 1991	1992	Cum. 1992	Cum. 1991
UNITED STATES	933	1	2,066	-	128	9,284	1,961	38	2,320	120	2,925	2,514	4	148	1,356
NEW ENGLAND	45	1	54	-	13	87	114	-	20	37	261	277	-	6	4
Maine N.H.	1 3	1	- 16	-	4	7	10 6	-	- 6	36	11 90	54 22	-	1	1
Vt.	-	-	-	-	2	5	9	-	1	1	11 103	5 170	-	-	2
Mass. R.I.	24 5	-	16 20	-	5	40 4	49 2	-	3 2	-	6	-	-	4	-
Conn.	12	-	2	-	4	31	38	-	8	-	40	26	-	1	1
MID. ATLANTIC Upstate N.Y.	266 43	-	206 103	-	21 10	4,775 401	235 97	-	166 70	17 2	278 111	270 156	-	9 3	576 539
N.Y. City	146	-	42	-	8	1,875	24	-	10	-	20	27 18	-	-3	2 2
N.J. Pa.	48 29	-	56 5	-	2 1	1,035 1,464	44 70	-	15 71	15	45 102	69	-	3	33
E.N. CENTRAL	60	-	42		14	97	322	2	314	1	515	403	-	10	321
Ohio Ind.	12 12	-	- 20	-	6	11 6	80 53	-	115 11	-	115 52	96 75	-	:	283 3
HI.	18	-	9	-	4	28	86	-	96	-	42	73	-	9	9
Mich. Wis.	14 4	:	13	-	2	43 9	84 19	2	77 15	1	15 291	37 122	2	1	25 1
W.N. CENTRAL	39	-	8	-	8	59	92	3	80	3	297	213	-	8	19
Minn.	17	-	7	-	5	27 17	20 11	-	24 13	3	107 10	86 24	-	3	6 6
lowa Mo.	11	-	-	-	3	'í	33	3	34	-	105	74	-	1	5
N. Dak. S. Dak.	1 2	-	•	-	-	-	1	:	2	-	14 14	4 5	:	-	1
Nebr.	1	-	-	-	-	1	ġ	-	5	-	15	9	-	:	-
Kans.	4	-	1		-	13	17	-	2	-	32	11	•	4	1 10
S. ATLANTIC Del.	196 5	-	122 1	2	15	592 21	360 2	16	804 8	1	178 7	241	:	22	-
Md.	58 13	-	10 1	-	7	176	34 3	2	78 7	1	36 1	54 1	-	6 1	1
D.C. Va.	43	-	11	-	5	30	57	5	57	-	15	24	-	-	•
W. Va. N.C.	2 13	-	- 23	-	1	44	17 78	2 6	29 217	-	9 44	9 39	:	1	2
S.C.	1	-	29	-	-	13	22	-	51	-	10	15	•	7	-
Ga. Fla.	13 48	-	2 45	:	1	15 293	57 90	1	75 282	-	17 39	49 50	:	7	6
E.S. CENTRAL	19	-	451		18	29	128	1	60	1	30	93	-	1	100
Ky. Tenn.	1	-	450	:	2	23	41 37	-	- 15	:	1 8	- 38	:	ī	100
Ala.	6	-	-	-	-	2	38	1	14	1	18	49	-	-	-
Miss.	1	-	1		16	216	12	-	31	-	3 169	6	-	-	- 8
W.S. CENTRAL Ark.	30 3	-	1,059	:	5	216	157 18	4	398 9	21 1	19	153 15	:	-	1
La. Okia.	1 5	-	- 12	-	•	-	29 19	1 2	24 21	1	13 49	17 49	-	-	1
Tex.	21	-	1,047	-	5	211	91	ĩ	344	18	88	72		-	6
MOUNTAIN	31	-	25	-	7	1,260	92	5	148	6	397	330	-	9	38
Mont. Idaho	1	-	-	-	-	452	15 8	-	2	-	9 39	6 28	2	1	11
Wyo. Colo.	- 9	-	1 21	-	6	3 10	3 21	4	1 27	5	83	3 134	-	2	3
N. Mex.	5	-	1	-	ĭ	98	10	Ň	N	-	102	47	:	-	4
Ariz. Utah	9 4	:	2	-	-	454 224	19 4	1	78 24	1	121 41	69 41	-	2 2	2 11
Nev.	3	-	-	-	-	19	12	-	12	-	2	2	-	2	7
PACIFIC	247 16	•	99	-	27 11	2,169 61	461 72	7 2	330 15	33 4	800	534	4	83	280 8
Wash. Oreg.	17	-	2	-	1	91	67	N	N	ź	216 44	136 65	3	8 5	4
Calif. Alaska	200 1	-	55 8	-	3 1	1,981 5	305 9	5	286 3	26	475 14	251 13	1	47	256 1
Hawaii	13	-	34	-	11	31	8	-	26	1	51	69	-	23	11
Guam P.R.	2	U	10 463	U	-	- 94	1	U	11	U		-	U	3	:
1.13.	-		403	-	•		3	-	1	-	11	58	-	-	1
V.I. Amer. Samoa	-	-	-	-	-	2 24	-	-	21	-	-	-	-	-	-

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending December 5, 1992, and December 7, 1991 (49th 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

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Reporting Area	Syr (Primary &	ohilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1992	Cum. 1991	Cum. 1992	Cum. 1992	Cum. 1991	Cum. 1992	Cum. 1992	Cum. 1992	Cum. 1992
UNITED STATES	31,540	39,296	211	21,594	21,869	149	368	480	7,469
NEW ENGLAND	656	977	15	505	613	1	29	7	847
Maine N.H.	5 74	3 12	2 6	19 17	33 5	-	1	-	9
Vt.	1	2	-	6	10	-	-	:	22
Mass. R.I.	308 38	470 50	5 2	283 46	339 75	1	19	3	41
Conn.	230	440	-	134	151	-	9	2	775
MID. ATLANTIC	4,382	6,636	25	4,995	5,144	1	97	47	2,333
Upstate N.Y. N.Y. City	316 2,349	625 3,390	10	570 2,974	406 3,256	-	16 42	16 6	1,306 18
N.J.	521	1,129		862	832	1	25	14	686
Pa.	1,196	1,492	15	589	650	-	14	11	323
E.N. CENTRAL Ohio	4,796 779	4,862 631	52 16	2,106 314	2,163 353	1	41 10	29 17	152 14
ind.	252	181	5	189	229	-	1	4	19
III. Mich.	2,234 885	2,332 1,111	10 21	1,085 439	1,104 380	1	25 4	2 3	39 15
Wis.	646	607	-	79	97	-	ĩ	3	65
W.N. CENTRAL	1,459	853	37	486	484	53	7	34	994
Minn. Iowa	89 51	65 65	777	135 40	95 57	-	2 1	3	158 166
Mo.	1,156	539	8	212	219	37	ġ.	23	32
N. Dak. S. Dak.	1	1	3	7 22	10 31	11		1	141 122
Nebr.	1	17	4	20	20	2	1	2	12
Kans.	161	165	8	50	52	3	-	5	363
S. ATLANTIC Del.	8,406	11,453	22 3	3,980 47	4,142 33	5	36 1	171 14	1,727 202
Md.	192 579	161 940	3	374	429	1	7	17	519
D.C.	372	673	-	106	174	-	1	1 23	17 344
Va. W. Va.	684 19	845 26	3 1	316 86	297 65	2	5 1	23 5	50
N.C.	2,247	1,906	3	527	541	1	2	62 8	45 157
S.C. Ga.	1,150 1,642	1,464 2,803	1 5	368 825	398 803	1	2	38	350
Fla.	1,521	2,635	4	1,331	1,402	-	17	3	43
E.S. CENTRAL	3,983	4,311	3	1,386	1,479	9	5	62	187
Ky. Tenn.	165 1,146	105 1,379	- 3	365 392	316 524	2 7	1	6 53	61 41
Ala.	1,321	1,628	-	384	361	-	1	3	84
Miss.	1,351	1,199	-	245	278	-	3	-	1
W.S. CENTRAL Ark.	5,849 817	7,144 668	5 1	2,701 214	2,578 232	44 30	17 1	113 25	660 43
La.	2,440	2,643	-	217	216	2	1	1	8
Okla. Tex.	432 2,160	197 3,636	3 1	152 2,118	165 1,965	12	15	86 1	284 325
MOUNTAIN	315	539	18	527	564	28	6	11	239
Mont.	7	6	1	-	6	12	-	3	24
ldaho Wyo.	1 7	4 9	1 1	22	12 5	1	1	1 4	7 82
Colo.	55	82	6	52	71	5	2	-	26
N. Mex. Ariz.	40 157	30 341	1	80 242	63 293	5	1	1	9 68
Utah	7	7	4	61	51	2	-	1	6
Nev.	41	60	-	70	63	3	1	1	17
PACIFIC Wash.	1,694 74	2,521 181	34 3	4,908 292	4,702 281	7 2	130 8	6	330
Oreg.	47	83	2	123	115	-	2	3	2
Calif. Alaska	1,560 5	2,245 4	29	4,199 49	4,048 64	2 3	112	3	314 14
Hawaii	8	8	-	245	194	-	8	-	-
Guam	3	1	-	58	8	-	3	-	-
P.R.	314 66	409 95	-	225 3	211 3	-	1	-	42
V.I. Amer. Samoa	-	-	-	-	3	-	1	-	-
C.N.M.I.	6	6	-	52	22	-	1	-	-

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending December 5, 1992, and December 7, 1991 (49th Week)

U: Unavailable

Reporting Area         All         Jobson         Pade All         Pade Total         Reporting Area         All         Jobson         Jobson         Total           NEW ENCLAND         504         348         97         45         8         6         33         S. ATLANTIC         1.22         73         249         139         24         43         58           Boston, Mass.         10         U		All Causes, By Age (Years)					-	52 (45th Wee	All Causes, By Age (Years)							
Bindiguint Conn. 57 32 17 6 2 1 Bindiguint Conn. 15 7 32 17 5 2 1 Fall River, Mass. 24 17 5 2 1 Fall River, Mass. 24 3 35 6 2 1 Hartord, Conn. 61 44 1 5 - 2 - 1 Hartord, Conn. 61 44 1 5 - 2 - 1 New Badrond, Mass. 31 27 2 2 New Badrond, Mass. 31 27 2 2 New Badrond, Mass. 31 27 2 2 New Haven, Conn. 80 28 9 8 2 3 4 New Badrond, Mass. 31 7 2 2 New Haven, Conn. 30 28 9 8 2 3 4 Nu Hartord, Conn. 39 20 11 2 4 Winningfon, Del. 20 14 4 2 2 Savannah, Ga. 48 30 8 7 49 12 3 8 6 Savannah, Ga. 48 30 8 7 49 12 2 11 - 2 4 6 Nu Haven, Conn. 39 28 6 3 5 Springfield, Mass. 37 28 6 Winningfon, Del. 20 14 4 2 Winningfon, Del. 20 14 4 2 Subarnah, Ga. 48 30 8 7 49 17 9 2 4 18 3 Mic. ATLANTC 2.476 (1) 73 525 321 77 50 134 Charlottopa, Fan. 64 37 15 2 5 1 4 2 Savannah, Ga. 48 30 8 5 6 7 10 Winningfon, Del. 20 14 4 2 Subarnah, Ga. 48 30 8 5 6 7 10 Winningfon, Del. 20 14 4 2 Subarnah, Ga. 48 30 8 5 6 7 10 Winningfon, NY, NY, 56 139 9 6 - 2 5 Lawardor, NY, NY, 56 339 13 1 Buffalo, NY, NY, 56 339 39 12 1 Buffalo, NY, NY, 56 339 39 12 1 Buffalo, NY, NY, 56 339 39 12 1 Buffalo, NY, NY, 146 89 30 31 1 - 2 - 1 Hashvilk, Tenn. 154 80 45 21 04 4 2 4 2 Lawardor, Yan. 146 89 30 31 1 - 2 - 1 Hashvilk, Tenn. 154 80 45 21 04 4 2 4 2 Lawardor, NY, 12 135 23 5 4 - 4 15 Frikburgh, Fas. 12 1 Philadelphia, Fas. 297 185 61 32 15 4 20 Schenectady, NY, 22 18 2 - 1 - 1 - Buffalo, NY, 12 28 14 5 - 1 - 1 - Buffalo, NY, 12 28 14 5 - 1 - 1 - Buffalo, NY, 12 28 14 5 - 1 - 1 - Buffalo, NY, 12 28 14 5 - 1 - 1 - Buffalo, NY, 12 28 14 5 - 1 - 1 - Buffalo, NY, 12 28 14 5 - 1 - 1 - 1 - Philadelphia, Fas. 39 7 7 - 2 - 1 - 1 - Buffalo, NY, 12 2 - 2 - 1 - 1 - 1 - Buffalo, NY, 12 2 - 2 - 1 - 1 - 1 - Buffalo, NY, 12 2 - 2 - 1 - 1 - 1 - Buffalo, NY, 12 2 - 2 - 1 - 1 - 1 - Buffalo, NY, 12 2 - 2 - 1 - 1 - 1 - Buffalo, NY, 12 - 2 - 2 - 1 - 1 - 1 - Buffalo, NY	Reporting Area	All					<1		Reporting Area	All			T		<1	
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Cambridge, Mass.         24         17         6         2         -         1         Charlotte, NC.         91         59         21         9         2         -         4           Fall River, Mass.         23         5         6         -         -         1         JackSonville, File.         95         21         9         2         -         3         7         1         2         -					U	U 2	U				86 74	30		5	6	11
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New Haven, Conn.         50         28         9         8         2         3         4         51. Petersburg, Pia.         55         77         72         3         3         16           Somerville, Mass.         7         26         7         7         27         27         27         27         27         27         27         27         27         27         27         3         3         16           Somerville, Mass.         77         26         11         2         -         1         4         7         0         13         1         -         -         1         -         -         1         -         -         1         -         1         -         1         -         1         -         1         -         1         -         1	New Bedford, Mass	s. 31	27	ž	2	-	-	-					3		6	
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Springfield, Mass.         37         28         6         3         -         -         5         Winnington, Del.         20         14         4         2         -         -         -         5           Warebury, Conn.         39         28         11         2         -         4         Sc EXTRAL         651         142         138         59         25         17         39         5         6         -         7         4         Sc EXTRAL         661         47         15         2         1         1         4         3         5         6         -         7         4         33         9         5         6         -         7         1         katianooga, Fonn.         66         47         15         2         1         1         4         4         33         1         -         1         Marphile, Inn.         154         4         5         33         9         5         6         -         2         -         3         Marphile, Inn.         154         80         35         21         8         4         32         11         -         4         36         16         12         12 <t< td=""><td>Providence, R.I. Somenville, Mass</td><td></td><td></td><td></td><td>5</td><td></td><td>-</td><td>-</td><td>Washington, D.C.</td><td></td><td>77</td><td></td><td>29</td><td></td><td>5</td><td>5</td></t<>	Providence, R.I. Somenville, Mass				5		-	-	Washington, D.C.		77		29		5	5
Waterbury, Conn.       39       26       11       2       -       -       4       ES. CENTRAL       651       412       138       59       25       17       39         MID, ATLANTC       2,676       1,703       525       321       77       50       134       B       74       15       2       1       1       4       33       95       6       -       7       Lexington, Ky,       71       45       14       5       1       6       10       4       8       3       1       -       1       4       5       1       6       10       -       11       4       5       1       6       10       -       14       10       -       1       4       11       4       -       13       13       1       -       14       13       13       1       -       -       10       10       10       10       1.7       10       13       13       1       -       -       14       14       11       10       11       4       11       11       10       10       10       11       11       11       11       14       10       11       11<			28	6		-	-		Wilmington, Del.	20	14	4	2	-	-	-
Wordester, Mass.         Vul         46         3         6         4         3         3         5         Birmingham, Ala.         68         47         17         9         4         8         3           Albany, N.Y.         56         33         9         6         -         2         5         1         1         4         5         6         4         5         6         -         7         5         1         1         4         5         6         4         5         6         4         5         6         7         7         46         1         1         4         5         6         4         5         6         4         3         1         -         1         Memphia, Tenn.         16         4         3         1         -         1         Memphia, Tenn.         16         80         45         2         1         8         -         2         1         8         7         7         2         4         3         2         1         7         4         3         1         7         2         4         3         3         1         7         1         7         3 <td>Waterbury, Conn.</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>E.S. CENTRAL</td> <td>651</td> <td>412</td> <td>138</td> <td>59</td> <td>25</td> <td></td> <td>39</td>	Waterbury, Conn.					-	-		E.S. CENTRAL	651	412	138	59	25		39
MID. A ILAY II.U       2.076       1,03       2.33       3.43       7       0.2       1.5       Crowville, Term.       53       3.3       9       5       6       -       7       0.2       1.5       Crowville, Term.       Term.       53       3.3       9       5       6       -       7       0.2       1.5       Crowville, Term.       Term.       1.5       1.6       1.	Worcester, Mass.			-			-	-	Birmingham, Ala.							
Albany, N. r.       93       38       9       -       2       9       Lexington, W.Y.       71       25       14       5       7       6       10         Buffalo, N. J.       36       63       33       14       8       2       3       3       Mobile, Ala.       49       37       8       3       1       -       1         Buffalo, N. J.       36       63       33       5       3       -       1       -       Mobile, Ala.       49       37       8       3       1       -       1         Buffalo, N. J.       36       83       33       215       40       19       59       W.S. CENTRAL       1,185       777       226       104       44       32       42       42         Paterson, N. J.       44       30       6       -       2       -       8       48       4       3       2       1       8       33       1       5       20       16       3       1       7       2       4       30       16       3       1       7       2       4       32       1       8       3       3       1       7       2			1,703			77										
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Peading, Pa.       23       16       6       -       1       -       2       Pt read, rea						2		3								
Mochaster, N.Y.       1/2	Reading, Pa.				2		:							ž	5	4
Scranton, P2,5       34       21       9       2       1       1       4       Little Hock, Arc.       1/2       4/3       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       0       1/2       1/2       0       1/2       1/2       0       1/2       1/2       0       1/2       1/2       0       1/2       1/2       0       1/2 <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>-</td> <td>4</td> <td></td> <td>Houston, Tex.</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>υ</td> <td>Ŭ</td> <td></td>					5	-	4		Houston, Tex.	U	U	U	U	υ	Ŭ	
Syracuse, N.Y.       75       53       14       5       2       1       8       New Orleans, Lz.       144       35       24       17       6       8       7         Trenton, N.J.       39       28       8       1       -       -       8       San Antonio, Tex.       212       135       46       17       6       8       7         Vicica, N.Y.       17       14       1       1       -       -       57       40       8       4       3       2       4         Yonkers, N.Y.       0       0       0       0       0       0       16       6       1       6       8       7       57       40       8       4       3       2       4       7       58       7       40       8       4       3       2       4					2	i	1	4						7	2	3
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Chilomination of the construction o	Chicago, III.					/6			Las Vegas, Nev.	198	132	38	22	4	2	
Columbus, Ohio       161       109       33       12       4       3       8       Properties, Rel.       123       53       2.1       -       -       -       1         Dayton, Ohio       144       100       30       7       4       3       9       Salt Lake City, Utah       89       56       16       8       3       6       6         Detroit, Mich.       20       75       58       9       6       2       5       5       5       11       21       2       5       7       7       1       8       9       7       1       8       4       9       5       8       1       2       2       5       7						1	6		Ogden, Utah					,		
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## TABLE III. Deaths in 121 U.S. cities,\* week ending December 5, 1992 (49th 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

Pneumonia and initiuenza. 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.

## Fluoridation — Continued

Almost two thirds (62%) of respondents correctly identified the purpose of fluoridation. Correct knowledge of the purpose of fluoridation was highest for persons aged 35–54 years (68%–70%), than for persons aged 18–24 years (49%) and aged  $\geq$ 75 years (40%) (Table 1).

Persons with more than a high school education were more than twice as likely than those with less than a high school education (76% versus 36%) to correctly identify the purpose of fluoridation. Among persons with a high school education, 61% answered correctly. Among persons with less than a high school education, 30% believed the purpose of fluoridation was to purify water, compared with 36% who knew it was for preventing tooth decay.

Persons who were edentulous (i.e., had lost all of their natural teeth) were less likely to know the correct purpose of fluoridation than were persons who still had their natural teeth (44% versus 64%). In addition, persons who visited the dentist 1–3 times during the preceding 12 months (66%–69%) were more likely to know the correct purpose of fluoridation than those who had not visited the dentist (50%).

Reported by: Disease Prevention and Health Promotion Br, Epidemiology and Oral Disease Prevention Program, National Institute of Dental Research; Musculoskeletal Disease Br, Extramural Program, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health. Div of Oral Health and Office of the Director, National Center for Prevention Svcs, CDC.

**Editorial Note:** Dramatic declines in dental caries in the United States during the past half century that have been attributed largely to water fluoridation and other fluoride therapies reflect the public importance of fluoride exposure to human health (1). At the same time, continuing concerns have been raised about possible adverse health effects of fluoride.

Because more than one third of the U.S. adult population cannot correctly identify the purpose of fluoridation, these persons may be less likely to make an informed decision when presented with conflicting information about the benefits and risks of fluoridation during local efforts to fluoridate. The findings of the NHIS suggest that misunderstanding of or resistance to fluoridation may be associated with the age and educational composition of a community. For example, because older populations have higher rates of edentulousness and are less likely to visit dentists, opportunities for reinforcement of the benefits of fluoridation are reduced (*3*).

Efforts to fluoridate water may be subjected to greater levels of scrutiny than other public health interventions because fluoridation is a purposeful process to benefit individuals that must be instituted at the community level. For example, issues involving

Age group (yrs)	Prevent tooth decay	Purify water/Other*	Don't know
18-24	49	22	29
25-34	65	16	17
35-44	70	19	11
45-54	68	20	11
55-64	64	23	13
65–74	58	26	17
≥75	40	31	30
Total	62	21	17

 TABLE 1. Percentage of adult respondents citing purpose of community water

 fluoridation — National Health Interview Survey, 1990

\*"Purify water" and other incorrect responses combined.

## Fluoridation — Continued

the relation between fluoridation and bone health and osteoporosis are representative of the range of concerns raised about potentially serious health effects of fluoridation. In the United States, approximately 250,000 hip fractures occur each year; osteoporosis is an important underlying risk factor for this problem (4). However, based on reports from public health agencies, the importance of results from some recent studies examining the relation of fluoride in drinking water to bone health and bone fracture susceptibility (5–10) appears to have been overinterpreted.

To address concerns about the possible relation of bone health to fluoride exposure, the National Institutes of Health (NIH) convened a conference of experts to evaluate current public health practices regarding fluoride (11). The conference participants concluded that there was not an "adequate basis for making firm conclusions relating fluoride levels in drinking water to hip fracture and bone health" (11), and there were no recommended changes in the Public Health Service policy regarding fluoride.

Since the NIH conference, two additional studies have been reported regarding the relation of fluoride exposure to bone health (9,10,12). An ecologic study involving three communities in Utah reported weak statistical evidence of increased risk for hip fracture in the exposed community (9); however, this study was constrained by a variety of methodologic limitations (10). The second study, conducted in Rochester, Minnesota, used a historical baseline incidence of hip fracture in a highly stable population; in this study, there was no increased risk for hip fracture following institution of fluoridation (12). The findings of these additional studies do not alter the conclusions and recommendations of the NIH conference.

The findings of the NHIS indicate a continuing modest level of knowledge of the purpose of fluoridation in the United States—especially among young adults, the oldest adults, and the least educated. These findings, coupled with conflicting information and possible misinterpretation about safety, may hinder efforts to expand fluoridation. Accordingly, health-care providers, public health agencies, and schools should intensify efforts to educate the public, especially children and young adults, about the benefits of fluoridation and maintaining oral health.

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## Epidemiologic Notes and Reports

## Tuberculosis Transmission in a State Correctional Institution — California, 1990–1991

During September and October 1991, active tuberculosis (TB) was diagnosed in two inmates and one employee of a California state correctional institution (1991 average annual inmate population, 5421; employees, 1500). This report presents findings from an investigation by the California Department of Health Services (CDHS), the California Department of Corrections (CDOC), and CDC to determine whether ongoing transmission of *Mycobacterium tuberculosis* was occurring in the institution.

## **Case-Finding Among Inmates**

A case of TB was defined by using the CDC surveillance case definition for clinically or laboratory-confirmed TB (1) in any inmate diagnosed or treated for TB in the institution during 1991. Of 18 cases identified, 15 were culture confirmed. Of the 15 *M. tuberculosis* isolates, 12 were susceptible to all drugs tested, and three were resistant to a single drug (one to isoniazid, one to streptomycin, and one to ethambutol). For 10 (56%) of the 18 persons, onset of illness was recognized for the first time while they were in this institution during 1991, for an annual incidence of 184 per 100,000 population in the institution. For the remaining eight, seven had TB diagnosed before imprisonment, and one inmate had TB diagnosed in 1990.

Restriction fragment length polymorphism analysis performed on 12 available isolates revealed three distinct DNA patterns among eight *M. tuberculosis* isolates; the remaining four each had different patterns. However, inmates with similar isolates were not present at the institution at the same time and therefore could not be linked epidemiologically.

Because of limited clinical evaluation and prolonged time to sputum conversion, three case-patients may have been infectious for a total of 7 person-months during 1991. Other active cases were not considered infectious: three were not culture confirmed, six were diagnosed and the patients were started on adequate treatment before they entered the correctional institution, two were in persons who had no cough and had smear-negative pulmonary TB, and four were in persons who had only extrapulmonary TB.

Of the 10 inmates whose diagnoses of TB were made while in the institution in 1991, two had negative tuberculin skin tests (TSTs) documented on entry to the correctional institution 8 months before the diagnosis of TB. Neither patient had any known risk factors for anergy; one was negative for antibody to human immunodeficiency virus (HIV), and the other was not tested but did not report HIV risk behaviors.

#### Tuberculosis Transmission — Continued

#### **Tuberculin Reactivity Among Inmates**

The point prevalence of tuberculin positivity and the incidence of TST conversion among inmates were estimated from inmate skin test results in November 1991 and correctional institution medical records. A positive TST was defined as a reaction of  $\geq$ 10-mm induration in response to 5 tuberculin units of tuberculin purified protein derivative administered by the Mantoux method.

Of 3070 inmates in the prison at the end of November 1991, TST results were available for 2944 (96%). Of these, 873 (30%) were TST positive: 549 had a history of a prior positive test and were not retested in November 1991, and 324 tested positive for the first time at the prison in November 1991.

Of the 324 who tested positive at the prison, 155 had no record of an earlier TST; for 21, results had been recorded as positive but the size of their TST reaction was not recorded. The remaining 148 TST-positive inmates had documented skin test conversions. Of these, 106 (72%) entered the state prison system with a negative TST and had skin test conversions while in the state prison system; for 97 of the 106, skin test conversion occurred within the previous 2 years. The remaining 42 persons who had skin test conversions spent some time outside the prison system during the conversion intervals. Because of frequent inmate movement between correctional institutions, conversions could not be attributed specifically to the institution under investigation.

The 2-year conversion incidence was estimated to be 5.9 per 100 person-years spent in the prison system.

#### **Case-Finding and Prevalence Among Employees**

The employee identified as one of the three index case-patients was diagnosed with culture-negative pulmonary TB in September 1991; the source of the employee's infection is undetermined. This employee worked as a counselor on the prison's HIV unit and recalled exposure to one of the three infectious inmates. The employee did not report any exposure to TB outside the prison. The employee's most recent negative multipuncture skin test for TB had been in May 1989, 1 year before employment at the prison.

Records regarding employees' current or past TST status were incomplete. However, two other employees had documented skin test conversions during the previous 2 years while working at the prison; one reported exposure to an inmate with possible TB. Neither reported any known exposures to *M. tuberculosis* outside the prison.

Reported by: F Schwartz, MD, Marin County Health Dept, San Rafael; S Singh, PM Small, MD, Howard Hughes Medical Institute, Stanford; D Cashman, MD, R Campbell, DO, N Khoury, MD, California Dept of Corrections; S Coulter, S Royce, MD, R Roberto, MD, GW Rutherford, III, MD, State Epidemiologist, California Dept of Health Svcs. Div of Field Epidemiology, Epidemiology Program Office, CDC.

**Editorial Note:** The incidence of active TB among inmates of this prison was more than 10 times the crude incidence of TB in California (17.4 per 100,000 population) for 1991. In addition, the number of incident cases was three times what would have been predicted for a population of this size and demographic profile. Although the incident cases apparently were not linked, two findings from this investigation suggest that transmission of *M. tuberculosis* may have occurred in the prison: first, at least two inmates with active TB may have become infected at the prison; and second, a substantial number of TST conversions were documented among asymptomatic inmates.

## Tuberculosis Transmission — Continued

The prolonged infectiousness of the three active cases in the prison illustrates the potential for *M. tuberculosis* to be propagated in the prison system.

Although it cannot be proven that the 97 inmates who had TST conversions within the previous 2 years were infected while in prison, the 2-year conversion incidence of 5.9 per 100 person-years in prison probably underestimates the risk for new *M. tuber-culosis* infection. No information was available regarding the timing of conversion and the potential for acquisition of infection in the state prison system for at least 155 inmates.

The findings in this report, as well as previous findings of the potential for introducing multidrug-resistant TB into correctional systems (2), emphasize the need to improve infection-control practices in these settings. State health departments can assist correctional system officials in implementing control measures in correctional facilities (3), including 1) regular and systematic TB screening of inmates and staff, with HIV testing and TB preventive therapy (PT) for those who test positive for TB and are eligible for PT; 2) rapid identification, isolation, and treatment of suspected cases of TB; 3) directly observed therapy and PT, and rigorous follow-up and recordkeeping to ensure completion of treatment; and 4) follow-up to assure continuity of care both inside and outside the correctional facilities.

Recent California legislation, supported by the CDOC, the CDHS, and state employee organizations, requires inmate and employee TB skin testing, requires reporting of results to the CDHS, and designates that treatment for TB may be required as a condition of parole for inmates with active TB. The CDHS and the CDOC are cooperating in implementing the mandates of the legislation. The CDOC is addressing infection-control issues in its facilities, and its staff members are participating on the California Tuberculosis Elimination Task Force and the Interagency Working Group on Tuberculosis.

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## Notice to Readers

## Availability of Parenteral Isoniazid — United States

Because parenteral isoniazid is unavailable commercially, a limited supply of this drug will now be made available through CDC under an investigational new drug agreement for the treatment of patients with active tuberculosis for whom the oral formulation of the drug cannot be prescribed. Clinicians and other health-care providers interested in obtaining this drug for their patients should contact CDC's Clinical Research Branch, Division of Tuberculosis Elimination, National Center for Prevention Services, telephone (404) 639-2530.

## Notice to Readers - Continued

The Food and Drug Administration is working with pharmaceutical manufacturers to reestablish a supply of this drug; the drug is expected to become commercially available in the United States early next year.

## Addendum: Vol. 41, No. 46

In the article "HIV Infection and AIDS—Georgia, 1991," on page 876, a name was omitted from the credits section. The second name on the first line should be *B Williams*, *MD*.

## Erratum: Vol. 41, No. 41

In the article "National Coalition for Adult Immunization: Activities to Increase Influenza Vaccination Levels, 1989–1991," on page 773, under the heading "Project Results," the fourth sentence should read, "In addition, in *all three* of these sites, vaccine distribution increased in public health clinics (Lee County [15.0%], Oklahoma [14.6%], *and New York City [9.6%]*)." .

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