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MORBIDITY AND MORTALITY WEEKLY REPORT

Epidemiologic Notes and Reports

Preliminary Report: Medical Examiner Reports of Deaths Associated with Hurricane Andrew – Florida, August 1992

On August 24, 1992, at 1:40 a.m. eastern daylight time (EDT), rain bands associated with Hurricane Andrew reached the eastern coast of Florida. At 4:45 a.m. EDT, Hurricane Andrew made landfall 35 miles southeast of Miami at Homestead, with sustained winds of 145 miles per hour (mph) and gusts of 164 mph. These winds extended 45 miles outward of the storm center. The storm moved across the state at 18 mph toward the Gulf of Mexico (Figure 1). The tidal surge on the eastern coast was





Hurricane Andrew - Continued

estimated at 7–19 feet. During the storm, approximately 2.5 million Florida residents were left without electrical power, and approximately 56,000 family dwelling units were destroyed or severely damaged. This report presents preliminary data from Florida medical examiner (ME) offices about deaths attributed to Hurricane Andrew.

From August 26 through September 1, public health officials contacted staff in seven district ME offices in southern Florida to request information about hurricaneassociated mortality. These seven districts comprise nine counties and have a total population of 4,765,675. The only district ME office to report deaths associated with the storm was District 11 (Dade County [1990 population: 1.9 million]).

As of September 1, the Dade County Medical Examiner Office reported receiving the bodies of 32 persons whose deaths were associated with Hurricane Andrew. Of these deaths, 14 were accidental* deaths directly[†] associated with the storm (Table 1). Nine were caused by injuries resulting from blunt or penetrating trauma, four from asphyxia following the collapse of buildings, and one from drowning.

The remaining 18 deaths were indirectly[§] associated with the hurricane. Of these deaths, 11 were from natural causes, five were from accidental causes, and two are pending further investigation. Of the 11 deaths from natural causes, eight were caused by stress-induced cardiovascular events, two were associated with organic brain syndrome, and one was caused by intracerebral hemorrhage in a pregnant woman. Of the five deaths from "accidental" causes, three were caused by blunt trauma associated with clean-up or falls from damaged buildings, and two were children who died in house fires.

In addition to the 32 known deaths, one person, who was on his boat during the preimpact phase of the storm, is officially missing and presumed dead after being washed overboard.

Reported by: Medical examiner's offices in districts 11 (Dade County), 15 (Palm Beach County), 16 (Monroe County), 17 (Broward County), 20 (Collier County), 21 (Glades, Hendry, and Lee counties), 22 (Charlotte County); Florida Dept of Health and Rehabilitative Svcs. Surveillance and Programs Br and Disaster Assessment and Epidemiology Section, Health Studies Br, Div of Environmental Hazards and Health Effects, and Emergency Response Coordination Group, Office of the Director, National Center for Environmental Health; Div of Field Epidemiology, Epidemiology Program Office, CDC.

Editorial Note: In Florida, most deaths directly attributed to Hurricane Andrew resulted from blunt trauma or asphyxia. In the past, hurricane-associated mortality has included high numbers of drownings (1). However, because of the minimal storm surge in the heavily populated areas, a building code that requires structures to withstand winds of 130 mph, and advanced warning systems and well-coordinated evacuation plans, drowning, as well as deaths from other causes, attributed to the

^{*&}quot;Accidental" is a medicolegal term that refers to the circumstance under which a death occurs. When a death occurs under "accidental" circumstances, the preferred term within the public health community is "unintentional injury."

[†]The ME office defined a directly associated death as a death caused by the environmental force of the hurricane. Therefore, all these deaths occurred during the preimpact or impact phases of the storm.

[§]An indirect death was defined as a death caused by hurricane-related events, such as evacuation, clean-up, inability to obtain medication, loss of electricity, or stress-induced cardiovascular events.

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hurricane remained relatively low. Nonetheless, some persons refused to evacuate their homes, and the deaths directly associated with Hurricane Andrew in Florida occurred among such persons. Public health and emergency management agencies need to continue to emphasize the importance of timely evacuation during natural disasters.

Most of the deaths associated with Hurricane Hugo, which struck Puerto Rico and South Carolina in September 1989, occurred in the postimpact phase and included deaths from electrocutions due to contact with energized power lines and the use of portable electric generators; house fires caused by candles used for lighting; and traumatic injuries sustained during clean-up (2,3). Two deaths associated with fires have already occurred in the postimpact phase of Hurricane Andrew. The public and relief workers should be aware of these and other potential dangers during the postimpact, clean-up phase of the hurricane and take appropriate precautions.

Decedent age (yrs)	Race	Sex	Cause of death	Circumstance of death
47	Black	Male	Asphyxia due to chest compression	Tree fell on camper
12	White	Female	Blunt head trauma	Struck by beam from roof while in her home
25	White	Male	Massive head trauma	Roof of home caved in
74	White	Male	Multiple injuries	Truck trailer without wheels (being used as a shelter) rolled over and collapsed
49	White	Male	Craniocerebral trauma	(11 others survived)
32	White	Male	Drowning	Aboard anchored boat at time of storm; later found floating in canal
62	White	Male	Mechanical asphyxia	Trailer collapsed and rolled over
67	White	Male	Positional asphyxia	Trapped under debris from ceiling that collapsed
80	White	Female	Mechanical asphyxia	Refused evacuation; buried under debris when trailer collapsed
46	White	Male	Multiple blunt trauma	Found in residence destroyed by storm
49	White	Male	Multiple blunt trauma	Left home when it began to collapse; killed by flying debris outside home
67	White	Female	Multiple penetrating injuries	Townhouse collapsed
54	White	Male	Multiple blunt trauma	Roof collapsed
37	White	Male	Blunt craniocerebral trauma	Struck by flying object aboard boat, and fell overboard during storm; later washed ashore on island (another person survived, and a third was washed overboard and is officially missing)

TABLE 1. Deaths* directly attributed to Hurricane Andrew – August 1992

Hurricane Andrew - Continued

Because there is no universally accepted definition of a hurricane-associated death, the cases listed in this report were determined to be hurricane-associated by each district ME office. As a result, each ME office may apply different criteria to determine whether a death resulted from the hurricane. In addition, other organizations that collect information on disaster-associated deaths might apply different criteria. These potential differences reinforce the need to develop a standard definition for disaster-associated deaths.

Since 1989, MEs and coroners have reported important information about deaths associated with several natural disasters, including Hurricane Hugo (1989) (2,3), the Loma Prieta earthquake (1989) (4), the Plainfield tornado in Illinois (1990) (5), and flash floods in Texas (1991). In addition to mortality surveillance, the State of Florida, with the assistance of CDC, is conducting a rapid damage assessment survey to determine the extent of injuries and loss of utilities and health services that resulted from Hurricane Andrew.

References

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Syphilis – Ford County, Kansas, 1992

In January 1992, the Ford County (Kansas) Health Department received a report of a pregnant woman with a positive serologic test for syphilis. Syphilis had not been reported in the county (1990 population: 27,463) since September 1989. As a result of the investigation summarized in this report, six additional persons with syphilis were identified by contact tracing.

Patients ranged in age from 15 to 21 years (median: 16 years); five were female, including two who were pregnant. All were residents of Ford County. All patients had positive serologic tests (i.e., Venereal Disease Research Laboratory/rapid plasma reagin and fluorescent treponemal antibody tests) for syphilis. Two patients were symptomatic; both had a rash consistent with secondary syphilis. Early latent syphilis was diagnosed in the other patients. Three patients were tested for human immunodeficiency virus; all were negative.

Two of the patients were in drug-abuse rehabilitation; these two were the only patients who reported use of crack cocaine. The primary patient was a male who traveled frequently to Wyandotte County, Kansas (in the Kansas City metropolitan area), which reported a 290% increase in early syphilis from 1990 (48 cases) through 1991 (187 cases). Although much of the increase in Wyandotte County has been associated with the use of crack cocaine, none of the patients in this investigation reported exchanging drugs or money for sex.

Reported by: E Chipman, Ford County Health Dept, D Gamble, MD, Dodge City; J Johnson, MPH, P Lauber, A Mayer, A Pelletier, MD, Acting State Epidemiologist, Kansas Dept of Health and Environment. Div of Field Epidemiology, Epidemiology Program Office, CDC.

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Syphilis - Continued

Editorial Note: The cases of syphilis in Ford County, a rural area, reflect national trends for the occurrence of this problem and are of concern for three reasons. First, transmission of infection is occurring in a geographic area largely unaffected by the increase in syphilis (1,2). Until recently, rates of primary and secondary syphilis have been low in rural areas of the Midwest (1). Second, the incidence of syphilis is increasing among adolescents. From 1987 through 1991, the national incidence of primary and secondary syphilis for persons aged 15–19 years increased 40% (3). Third, exposure to syphilis and infection may be associated with drug use, particularly crack cocaine (1,4).

Because syphilis has been rare in rural areas of Kansas, some health-care workers in those areas may not be familiar with characteristics of this disease. In particular, physicians may need to increase their clinical suspicion for syphilis because risk factors for the disease are widespread. Screening for syphilis during pregnancy must remain a public health priority, and increased efforts are needed to educate adolescents about safer sex practices and substance-abuse prevention.

References

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Effectiveness in Disease and Injury Prevention

Public Health Focus: Effectiveness of Smoking-Control Strategies – United States

In 1990, approximately 46 million adults in the United States continued to smoke; however, more than 44 million persons were former smokers (1) who had reduced their risk for the leading causes of death in the United States (2). Smoking-cessation methods can be categorized as 1) self-help strategies (e.g., quitting abruptly and completely ["cold turkey"], using quitting manuals, or using nonprescription drugs) or 2) assisted strategies (e.g., smoking-cessation clinics, hypnosis, acupuncture, or nicotine gum or patch with counseling). This report summarizes information regarding the efficacy and cost-effectiveness of smoking-cessation strategies.

Efficacy

Approximately 90% of successful quitters have used a self-help quitting strategy, most by quitting abruptly (3). Those who used an assisted method (8%) were more likely to be women, be aged 45–64 years, have more than a high school education, have made more previous attempts to quit smoking, and have been heavier smokers (3). Twelve-month abstinence rates for persons using self-help methods have ranged from 8% to 25% (4), while cessation rates for persons who used smoking-cessation clinics have ranged from 20% to 40% (5). Fewer smokers use smoking-cessation

Smoking-Control Strategies - Continued

clinics than use self-help methods; however, clinics are more likely to attract heavy smokers (3).

Mass media campaigns also influence smoking behavior by changing awareness, knowledge, and attitudes of smokers (6). In addition, televised "self-help" clinics have been effective in changing behaviors of smokers, especially when coupled with a social support component (e.g., group discussion) (6). Effective mass media campaigns have been characterized by multiple and repeated messages (e.g., a series of public service announcements), widespread dissemination, and high saturation over a prolonged period.

Physician counseling is an important element in many smoking-cessation strategies. A brief and simple message from physician to patient can be effective in changing smoking behavior (7).

Cost-Effectiveness

Assessment of the American Lung Association's (ALA) self-help smokingcessation program indicated that, overall, 12-month cessation rates were higher (18%) among groups with a maintenance component (i.e., relapse prevention) than among groups without a maintenance component (12%-15%). The cost per current abstainer at 12 months ranged from \$105 to \$116 in groups with a maintenance component, compared with \$126 to \$135 per abstainer in groups without a maintenance component (8).

Smoking-cessation programs designed for the Stanford Five City Project included 1) a smoking-cessation clinic, 2) an incentive-based quit-smoking contest, and 3) a self-help quit-smoking kit (9). The self-help kit was the most cost-effective program, and the smoking-cessation clinic was the least cost-effective. Costs per abstainer for each program ranged from \$235 to \$399 for the clinic, from \$129 to \$236 for the contest, and from \$22 to \$144 for the self-help quit-smoking kit.

Modeling of the cost of brief physician counseling on smoking cessation during a routine office visit per life-year saved was at least as cost-effective as other preventive medical practices (e.g., the treatment of mild to moderate hypertension and cholesterolemia) (10,11). In addition, nicotine gum, when used with physician counseling, enhanced the effectiveness of the intervention; the cost per life-year saved with this intervention ranged from \$4113 to \$6465 for men and from \$6880 to \$9473 for women (11).

Reported by: Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: The findings described in this report suggest that wider dissemination of self-help materials, such as smoking-cessation booklets, hold the potential for assisting a substantial number of smokers who might not seek help in quitting smoking through more formal methods. In addition, the cost-effectiveness of smoking-cessation programs may be enhanced by targeting specific populations (e.g., smoking-cessation manuals tailored to pregnant women) and developing programs with a follow-up or maintenance component that use a combination of multiple interventions (*12*).

Physician intervention can be an effective strategy for smoking prevention and cessation. Physicians can counsel persons in high-risk groups, including pregnant women and adolescents whose other behaviors (e.g., alcohol use and poor school performance) indicate they are more likely to use tobacco (7). In 1990, approximately half of current smokers reported that they had ever been advised by their physicians

Smoking-Control Strategies - Continued

to quit or reduce their smoking (CDC, unpublished data, 1992). Counseling effectiveness can be increased by direct face-to-face advice and suggestions, setting of a target date for quitting, scheduled reinforcement, provision of self-help materials, referral to community programs, and drug therapy when used as an adjunct to other behavioral interventions. The U.S. Preventive Services Task Force concluded that smoking-cessation counseling should receive the highest priority as a preventive intervention (7) and recommended that physicians 1) obtain a complete history of tobacco use for all adolescent and adult patients and 2) offer counseling on a regular basis to all tobacco users.

Effective community-based tobacco-control programs, such as the National Cancer Institute's (NCI) Community Intervention Trial for Smoking Cessation and NCI and the American Cancer Society's American Stop Smoking Intervention Study, stimulate community involvement by identifying major community groups and organizations that can support interventions. Smoking-control activities in communities should encompass health-care providers, worksites, cessation resources and services, and public education.

The proportion of smokers who have quit has been consistently higher for males than for females (although the difference becomes minimal after controlling for other forms of tobacco use), for whites than for blacks, for older smokers than for younger smokers, and for college graduates than for persons with less than a high school education (3). Therefore, to reduce overall tobacco use, the U.S. Department of Health and Human Services has targeted several high-risk populations, including women, black adults, and persons with a high school education or less, for smoking-cessation programs (13). For example, the national health objectives for the year 2000 includes increasing smoking-cessation efforts for pregnant women so that at least 60% of women who smoke cigarettes at the time they become pregnant quit smoking early and for the duration of their pregnancy (objective 3.7) (13).

The achievement of long-term health and economic benefits of reducing the nation's overall smoking rate also requires intensive smoking-prevention efforts. In particular, each year, more than 1 million young persons start to smoke, adding an estimated \$10 billion during their lifetimes to the cost of health care in the United States (14). A multicomponent approach to prevent initiation among youths should be coupled with school-based tobacco-use prevention programs and include 1) mass media campaigns to target high-risk groups, 2) increased excise taxes on tobacco products, 3) increasing the minimum age for sale of tobacco products, 4) prohibiting the distribution of tobacco product samples to minors, 5) elimination or severe restriction of tobacco product advertising and promotion to which youth are likely to be exposed, 6) restricting the sale of tobacco products through vending machines, and 7) enforcing tobacco access laws for minors (13).

References

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FIGURE I. Notifiable disease reports, comparison of 4-week totals ending August 29, 1992, with historical data - United States



TABLE I. Summary - cases of specified notifiable diseases, United States, cumulative, week ending August 29, 1992 (35th Week)

	Cum. 1992		Cum. 1992
AIDS* Anthrax Botulism: Foodborne Infant	27,377 - 10 35	Measles: imported indigenous Plague Poliomyelitis, Paralytic [†]	106 1,769 6
Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea <i>Haemophilus influenzae</i> (invasive disease) Hansen Disease Leptospirosis Lyme Disease	2 51 95 8 4 91 324,399 962 118 21 4,827	Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year ⁵ Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tuberculosis Tularemia Typhoid fever Typhus fever, tickborne (RMSF)	57 22,692 697 15 166 17 14,699 108 234 289

*Updated monthly; last update August 1, 1992.

Two cases of suspected poliomyelitis have been reported in 1992; six of the nine suspected cases with onset in 1991 were confirmed and 5 of the 8 suspected cases with onset in 1990 were confirmed, and all were vaccine associated. ⁵Updates for first quarter 1992.

• • • • • • • • • • • • • • • • •	Asent		Asentic Encephalitis		T		Hepatitis (Viral), by type					<u> </u>	
	AIDS*	Menin-	Primary	Post-in-	Gond	orrhea	A	в	NA.NB	Unspeci-	Legionel- losis	Lyme Disease	
Reporting Area	Cum.	Gitis Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	fied Cum.	Cum.	Cum.	
	27 277	5 192	286	01	324 399	396 373	13 217	10 502	4 776	459	857	4 827	
	27,377	201	20	51	6 946	9 616	387	393	4,770	435	45	1 143	
Maine	35	201	20		57	111	26	19	5		2	4	
N.H.	30	9	2	-	91	154	28	25	16	1	4	28	
Vt. Mass	13	9	3 10	-	2 5 3 2	4 222	190	10	30	16	2	122	
R.I.	67	64	3	-	483	776	96	18	5	-	10	187	
Conn.	269	-	-	-	3,765	4,314	42	13	-	-	-	799	
MID. ATLANTIC	6,806	507	17	8	35,089	47,475	1,033	1,376	245	16	238	2,703	
Upstate N.Y.	752	247	-	-	6,716	8,198	234	337	148	8	91	1,685	
N.Y. City	3,901	90	4		4,987	7.882	430	351	67	-	27	427	
Pa.	791	164	13	7	11,243	12,879	199	422	26	8	117	582	
E.N. CENTRAL	2.520	736	103	27	60,723	74,440	1,883	1,598	894	26	215	94	
Ohio	454	206	30	2	18,603	22,832	291	154	64	4	93	39	
Ind.	262	120	10	11	5,838	7,374	573	555	430	9	28	29	
III. Mich	1,155	249	39	8	14,632	16,721	309	409	294	9	53	20	
Wis.	149	12	2	-	2,553	5,252	554	300	49	-	27	-	
W.N. CENTRAL	762	279	23	6	14,715	19,630	1,586	440	181	27	52	196	
Minn.	138	30	5	-	1,847	1,995	475	51	13	2	4	86	
lowa	54	39	-	3	997	1,353	30	25	141	3 20	14	14	
Mo. N Dak	387	12/	8		8,260	49	590	297	3	20	2	1	
S. Dak.	6	8	-	1	120	231	191	4	-	-	-	1	
Nebr.	34	11	3	2	8	1,268	116	16	7	1	12	10	
Kans.	135	63	5	-	3,437	2,788	106	40	12		2	13	
S. ATLANTIC	6,452	949	79	37	99,977	118,852	830	1,743	675	77	121	382	
Del. Md	79	105	11	-	10.304	12.023	151	268	25	5	21	92	
D.C.	423	16	1	-	4,328	6,422	13	56	250	-	7	2	
Va.	392	156	24	9	10,864	11,903	75	135	27	30	11	80	
W. Va.	34	16	13	-	614 16 654	23 906	72	295	63	18	24	39	
S.C.	221	125		-	7,460	9,714	19	39	-	1	16	1	
Ga.	842	109	2		29,932	28,102	115	194	73	-	6	2	
Fla.	3,268	370	2	28	18,639	24,123	347	556	95	22	18	18	
E.S. CENTRAL	860	297	18	-	31,954	39,562	194	869	1,377	2	45	49	
Ky.	128	103	10	-	3,249	4,014	52	712	1.362	-	20	24	
Ala.	313	82	3	-	11,359	11,990	32	91	11	1	6	7	
Miss.	154	53	1	-	7,783	9,642	24	4	1	1	-	-	
W.S. CENTRAL	2,566	636	41	5	36,775	45,034	1,313	1,317	86	101	14	87	
Ark.	127	7	7	-	5,034	5,515	74	53	7	4	-	10	
La. Okla	400	43	3	2	3.658	4.646	139	143	21	3	7	21	
Tex.	1,826	586	26	2	17,733	24,826	942	998	18	92	5	51	
MOUNTAIN	788	180	17	4	8,168	8,404	1,933	494	178	38	67	11	
Mont.	14	4	1	1	70	70	57	26	26	:	9	-	
Idaho	19	21	-	-	73	97	45	62 4	14	1	4	2	
VVVO. Colo	264	59	ż	1	2,971	2,462	566	79	66	19	12	-	
N. Mex.	66	12	3	1	609	723	199	140	18	7	2	2	
Ariz.	254	52	2	-	2,855	3,077	784	106	21	6	23	-	
Utan Nev	54 115	26	-		1.336	1,697	61	66	13	-	14	-	
PACIEIC	5 717	1 397	68	4	30.052	33 360	4 058	2 272	1 075	155	60	162	
Wash.	314		1	-	2,478	3,034	519	234	103	7	8	10	
Oreg.	161		-	-	1,146	1,338	252	193	52	8		-	
Calif.	5,146	1,327	63	3	25,628	27,929	3,110	1,821	751	132	51	151	
Alaska Hawaii	85	59	4	1	480	549	139	12	167	7	1	1	
Guam	50	22		•	40	12	5	1		6		,	
Guam P.R.	- 877	123	1	-	48 151	399	34	302	144	16	1	-	
V.I.	2		-	-	70	278	2	6	-	-	-	-	
Amer. Samoa	-	-	-	-	31	32	1	1	-	-	-	-	
C.N.M.I.	-	-	-	-	61	48	1	-	-	-	-	-	

TABLE II. Cases of selected notifiable diseases, United States, weeks ending August 29, 1992, and August 31, 1991 (35th Week)

N: Not notifiable U: Unavailable *Updated monthly; last update August 1, 1992.

		Measles (Rubeola)					Menin-	Mumpe			Dortugei		Rubella		
Reporting Area	Malaria	Indig	enous	Impo	rted*	Total	gococcal Infections	Mu	mps		renussi	8		nabena	
	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	618	30	1,769	-	106	8,444	1,569	34	1,819	62	1,331	1,680	2	133	1,096
NEW ENGLAND	34	-	51	-	8	71	93	2	14	10	124	228	-	6	4
Maine	1	-	2	-	1	2	8	-	-	2	7	48	•	1	
N.H. Vt	3	-	15	-	2	- 5	5	-	1	2	29	4			
Mass.	19	-	11	-	3	35	40	-	2	1	53	134	•	;	2
R.I. Conn	4 7	-	23	-	4	2 27	35	2	8	4	30	25	-	1	1
	165	_	173		13	4 578	172	1	114	3	99	161	-	16	563
Upstate N.Y.	25	-	81	-	4	399	84	i	53	3	34	84	-	11	537
N.Y. City	94	-	42	-	8	1,700	15 25	-	12	:	9	20	-	,	2
Pa.	24	-	45 5	-	-	1,456	48	-	40	-	40	43	-	3	22
E.N. CENTRAL	41	-	26	-	14	81	233	4	243	2	128	331	-	8	182
Ohio	7	-	-	-	6	3	60	:	88	-	47	80	-	•	147
Ind. III.	11 10	-	20	-	4	2	36	1	77	2	21	58 62	-	8	7
Mich.	11	-	2	-	2	41	57	3	61	-	8	25	-	-	25
Wis.	2	-	-	-	2	9	19	•	9	-	37	106	-	-	1
W.N. CENTRAL	32	-	6	-	8	44	70	•	60 10	4	120	123	-	5	17
lowa	2	-	-	-	3	15	3 7	-	10	-	32	13	-	1	6
Mo.	10	-	-	-	-	1	24	-	23	-	46	43	-	-	5
N. Dak. S. Dak.	1	-	-	-	-		1	-	2	1	12	2	:	:	-
Nebr.	-	-	-	-	-	1	14	-	4	2	10	7	-	-	-
Kans.	3	-	1	-	-	13	14	-	2	1	10	6	•	4	-
S. ATLANTIC	119	-	120	-	11	455	325	16	699	12	111	178	-	15	8
Md.	32	-	9	-	7	174	27	1	61	-	18	46	-	6	1
D.C.	8	-	-	-	-	-	3	-	5	-	1	-	-	1	1
va. W.Va.	2/	-	10	-	4	29	4/ 14	-	38	1	67	18	-	1	-
N.C.	8	-	25	-	-	41	102	-	181	-	21	25	-	-	2
S.C. Ga	5	:	29	-	-	13	20 42	1	49 70	-	11	10		2	-
Fla.	33	-	44	-	-	162	68	-	268	3	27	37	-	5	4
E.S. CENTRAL	14	-	445	-	18	4	97	-	45		22	60	-	1	100
Ky.	1	•	444	-	2	1	28	-	-	•	1	-	-	;	-
Ala.	9 4	:	-	-	-	3	29		10	:	13	23	:	-	
Miss.	-	-	1	-	16	-	11	-	21	-	3	4	-	-	-
W.S. CENTRAL	18	30	834	-	1	182	119	8	309	2	45	45	-	-	5
Ark.	- 1	-	-	-	-	5	10 25	-	6 19	1	12	12	:	-	1
Okla.	5	-	11		-	-	13	1	16	2	27	23	-	-	· -
Tex.	12	30	823	•	1	177	71	7	268	•	-	6	-	-	4
MOUNTAIN	23	-	13	-	8	1,031	77	2	107	13	242	175	1	7	12
Mont. Idaho	1	-	-	-	-	410	14	-	3	10	37	23	-	1	-
Wyo.	-	-	1	-	-	3	2	-	-	-	-	3	-	:	-
Colo.	5	-	9	-	7	6	13	1 N	16 N	2	26 56	90 23	-	. !	1
Ariz.	8	-	2		-	312	19	-	60	-	94	8	-	2	2
Utah	4	-	-	-	-	183	4		18	-	24	24	1	2	3
Nev.		-	-	-	-	19	202		220	16	440	270	÷	75	205
PACIFIC Wash.	1/2	-	101	:	25 10	1,998	583 62	-	220	13	136	94	-	6	- 8
Oreg.	11	-	4	-	1	71	53	N	Ň		24	53	-	3	2 195
Calif. Alaska	141	-	56	-	3	1,839	257	1	200 1	3	259 5	12	-	44	100
Hawaii	ż	-	33	-	10	24	5	•	18	-	16	42	1	22	9
Guam	1	U	10	U			-	U	8	U	-	-	U	1	:
P.R.	-	19	339	-	-	94	3	-	1	1	10	42	-	-	1
V.I. Amer Samoa		-		2	:	24	-	-			6	-	-	-	-
C.N.M.I.	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending August 29, 1992, and August 31, 1991 (35th 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	Sypł (Primary & S	hilis Secondary)	Toxic- shock Tuberculosis Syndrome			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	22,692	28,241	166	14,699	14,866	108	234	289	5,399
NEW ENGLAND	465	725	10	303	411	1	23	7	518
Maine	2	-	-	18	30	-	:	•	-
N.H.	38	12	6	3	5		1	:	5 20
Mass.	229	346	3	149	187	1	14	3	6
R.I.	23	39	1	34	65	-	-	2	-
Conn.	1/2	327	-	95	120	-	8	2	487
MID. ATLANTIC	3,379	4,921	19	3,352	3,503	-	62	22	1,675
N.Y. City	1,827	2,438	-	2,069	2,130		25	3	8
N.J.	423	841	.:	611	563	-	21	4	510
Pa.	906	1,169	11	421	481	-	9	/	211
E.N. CENTRAL	3,300	3,377	44	1,493	1,531	1	23	22	95 10
Ind	528	457	10	114	146	-	1	4	12
III.	1,436	1,539	5	745	811	1	16	2	16
Mich.	683	877	15	344	287	-	2	1	9
Wis.	456	393	-	58	00	-	-	3	40
W.N. CENTRAL	845	494	29	350	350	48	5	23	849 140
Minn. Iowa	32	47	5	25	52	-	1	-	140
Mo.	659	351	6	159	147	33	1	18	13
N. Dak.	1	1	2	2	6		-	-	119
S. Dak.	-	1	- 3	18	20	2	1	-	95 8
Kans.	93	35	7	34	40	2	-	4	334
S ATLANTIC	6.295	8.388	18	2,713	2,810	4	17	86	1,178
Del.	147	110	3	36	20	-	:	5	142
Md.	450	664	2	222	258	1	4	13	358
D.C. Va	285	524 642	2	169	226	2	i	12	209
W. Va.	13	21	ī	69	46	-	1	4	27
N.C.	1,665	1,331	3	346	378	1	-	36	25
S.C.	8/0	2 058	3	270 595	556			6	250
Fla.	1,138	1,981	3	916	925	-	9	3	41
E.S. CENTRAL	2.853	3,143	1	954	975	5	3	46	136
Ky.	97	66	-	268	236	1	-	6	53
Tenn.	752	1,037	1	245	25/	4	-	3/	29 53
Miss.	966	842	-	169	207	-	3	-	1
W.S. CENTRAL	4 200	5.037	2	1.685	1.817	24	7	71	514
Ark.	559	478	-	126	158	16	-	10	29
La.	1,698	1,676	-	139	159	-	1	-	253
Okla. Tex	222	128	1	1.310	1.382	-	6	-	235
MOUNTAIN	240	415	15	200	413	20	2	7	117
Moont.	245	415	15			12	-	3	14
Idaho	1	3	1	16	4	-	1	1	-
Wyo.	3	7	Ē	- 20	3	1	1	1	23 15
N. Mex.	29	24	5	53	55	4	-	1	5
Ariz.	126	265	2	192	224	-	-	:	53
Utah	7	5	4	57	30 45	:	-	1	25
Nev.	41	40	-			-	00	F	217
PACIFIC	1,106	1,741	28	3,459	3,056	5	92	5	
Oreg.	29	52	1	89	75	-	-	2	2
Calif.	1,008	1,555	27	2,962	2,597	1	82	3	302
Alaska	5	4	-	39 164	51 130	2	- 5	-	
o awaii	0	4	-	104	133	-	2		
Guam P R	2 215	1 306	-	34 135	6 157	-	3 1	-	31
V.I.	48	77	-	3	2	-	-	-	-
Amer. Samoa	2	-	-		2	-	1	-	-
C.N.M.I.	5	3	-	43	10	-	1	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending August 29, 1992, and August 31, 1991 (35th Week)

U: Unavailable

		All Causes, By Age (Years)		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	551	380	101	39	18	13	40	S. ATLANTIC	1,215	728	242	155	41	49	59
Boston, Mass.	147	97	28	12	4	6	13	Atlanta, Ga.	159	88	32	34	2	3	3
Bridgeport, Conn.	32	23	3	2	2	2	2	Baltimore, Md.	264	168	52	25	9	10	23
Fall River, Mass.	27	23	4		-	-	-	Jacksonville, Fla.	122	73	28	13	5	3	3
Hartford, Conn.	51	32	13	5	1	-	2	Miami, Fla.	Ū	ΰ	Ū	ΰ	Ŭ	Ŭ	Ŭ
Lowell, Mass.	20	16	4	-	-	-	2	Norfolk, Va.	62	40	9	7	4	2	3
Lynn, Mass.	12	8	4	-	-	-	Ē	Richmond, Va.	65	36	17	7	4	1	2
New Bedford, Mass.	24	18	3	2	1	1	5	Savannah, Ga.	46	25	10	11	1	4	1
Providence R I	35	24	7	2	2	-	-	Tamna Fla	150	111	27	6	2	4	10
Somerville, Mass.	4	- 1		2	1	-	-	Washington, D.C.	178	72	46	34	12	14	6
Springfield, Mass.	42	21	11	6	1	3	5	Wilmington, Del.	18	17	-	1	-	-	-
Waterbury, Conn.	32	25	6	-	1		3	E.S. CENTRAL	691	453	142	54	20	22	39
Worcester, Mass.	54	39	10	2	2	1	5	Birmingham, Ala.	102	67	19	5	8	3	4
MID. ATLANTIC	2,246	1,391	464	288	52	51	78	Chattanooga, Tenn.	64	46	13	4	:	1	3
Albany, N.Y.	46	31	8	3	2	2	4	Knoxville, Tenn.	74	50	16	6	2	-	1
Buffalo NY	100	73	20	3	1	3	4	Memphis Tenn	188	128	32	18	5	25	14
Camden, N.J.	29	17	- 8	2	i	ĭ	1	Mobile, Ala.	42	29	8	2	ĭ	ž	6
Elizabeth, N.J.	13	7	3	3	-	-	-	Montgomery, Ala.	52	36	8	4	-	4	-
Erie, Pa.§	46	32	9	5	-	:	6	Nashville, Tenn.	118	64	32	14	3	5	8
Jersey City, N.J.	42	25	242	100	20	21	20	W.S. CENTRAL	1,374	824	272	165	60	53	70
Newark, N.J.	63	33	13	13	29	1	29	Austin, Tex.	81	49	15	13	4	-	6
Paterson, N.J.	31	13	.9	4	-	5	-	Baton Rouge, La.	27	14	5	3	3	2	-
Philadelphia, Pa.	311	182	68	46	9	6	13	Dallas Tev	188	2/	40	20	10	22	
Pittsburgh, Pa.§	52	33	12	4	2	1	2	El Paso, Tex.	62	41	14	1	5	1	4
Reading, Pa. Rochester, N.V.	26	20	27	2		-	2	Ft. Worth, Tex.	102	60	19	13	Ğ	4	5
Schenectady, N.Y.	16	11	- 27	1	i			Houston, Tex.	378	207	84	60	14	13	31
Scranton, Pa.§	27	21	4	i	-	1	3	Little Rock, Ark.	72	51	15	4	2	:	6
Syracuse, N.Y.	85	61	15	5	2	2	2	San Antonio Tex	196	131	40	17	5		
Trenton, N.J.	24	15	4	4	-	1	1	Shreveport, La.	50	34	6	5	2	3	4
Utica, IN.Y. Vonkers N.V	14	12	2	1	-	1	-	Tulsa, Ökla.	96	59	18	11	5	3	5
EN CENTRAL	1 950	1 1 1 2	252	201	122	71	01	MOUNTAIN	810	527	153	83	23	24	47
Akron, Ohio	68	52	12	- 1	3	<i>.</i>	-	Albuquerque, N.M.	96	59	21	12	1	3	1
Canton, Ohio	38	25	9	1	ī	2	6	Colo. Springs, Colo.	. 41	30	12	1	4	1	2
Chicago, III.	410	154	82	86	70	18	8	Las Vegas Nev	150	96	35	10	5	4	4
Cincinnati, Ohio	104	70	15	12	4	6	10	Ogden, Utah	26	16	7	ĩ	ž		2
Cleveland, Unio	103	08	25	12	6	8	2	Phoenix, Ariz.	178	109	30	24	5	10	17
Davton, Ohio	99	72	15	8	2	2	4	Pueblo, Colo.	21	14	4	2	1	:	2
Detroit, Mich.	223	124	47	24	12	16	5	Salt Lake City, Utah	112	57	10	10	1	2	4
Evansville, Ind.	43	32	9	1	1	-	4	Tucson, Anz.	112	/4	20				9
Fort Wayne, Ind.	53	3/	11	3	1	1	4	PACIFIC Barkelov Calif	1,745	1,124	292	220	61	39	99
Grand Rapids, Mich.	53	35	9	4	3	2	4	Fresno Calif	23	12	о 11	4	. ú	- ú	ů
Indianapolis, Ind.	170	106	32	21	4	7	12	Glendale, Calif.	20	17	3				ĭ
Madison, Wis.	43	29	10	3	1	-	3	Honolulu, Hawaii	92	62	16	8	3	3	5
Milwaukee, Wis.	118	87	21	6	2	2	7	Long Beach, Calif.	88	54	17	10	3	4	14
Peoria, III. Bockford III	30	28	10	2	3	-	-	Los Angeles, Calif.	44/	298	46	71	19	1	18
South Bend, Ind.	56	44	8	3	1	-	2	Portland, Oreg	135	93	20	10	'	4	3
Toledo, Ohio	Ű	Ü	Ū	Ū	Ú	U	Ū	Sacramento, Calif.	135	86	23	19	5	1	10
Youngstown, Ohio	58	47	5	2	3	1	4	San Diego, Calif.	190	120	36	21	5	7	14
W.N. CENTRAL	636	449	106	52	17	12	25	San Francisco, Calif	165	81	40	37	4	3	1
Des Moines, Iowa	54	37	11	5	-	1	2	Santa Cruz Calif	136	64 17	- J] E	14	4 2	5	13
Duluth, Minn. Kansas City, Kana	21	18	2	1	-	-	1	Seattle, Wash.	141	93	27	14	5	2	ż
Kansas City, Kans.	111	23	21	7	2	1		Spokane, Wash.	46	33	- 8	2	ž	ĩ	3
Lincoln, Nebr.	44	35	4	á	1	-	3	Tacoma, Wash.	74	58	12	4	-	-	3
Minneapolis, Minn.	102	63	25	9	4	1	5	TOTAL	11,127 [¶]	6,988	2,124	1,257	415	334	538
Omaha, Nebr.	78	56	10	6	3	3	4				•				
St. LOUIS, MO. St. Paul. Minn	115	/6	18	12	6	3	-								
Wichita, Kans.	53	23	8	;		2	2								

TABLE III. Deaths in 121 U.S. cities,* week ending August 29, 1992 (35th 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.

Therumonia 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

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Smoking-Control Strategies - Continued

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Current Trends

Reporting of Race and Ethnicity in the National Notifiable Diseases Surveillance System, 1990

Since 1989, all state health departments have reported cases of infectious diseases to the National Notifiable Diseases Surveillance System (NNDSS)* through the National Electronic Telecommunications System for Surveillance (NETSS) (1). Electronic reporting allows reporting of additional information, including demographic data, that can be used to help define the scope of public health problems for different groups and to develop appropriate preventive interventions. This report describes reporting through NNDSS of notifiable diseases by patients' race/ethnicity for 1990.

Final data for 36 notifiable diseases are reported to the NNDSS through NETSS (Table 1); data on other notifiable conditions are obtained from other surveillance systems. Collection of race/ethnicity data began in 10 states in 1985; the first year all states collected these data for an entire year was 1990. During 1990, racial/ethnic categories for reporting to the NNDSS were American Indian or Alaskan Native, Asian or Pacific Islander, black, Hispanic, and white (Table 2) (2).[†]

^{*}In the United States, reporting of communicable diseases by physicians and other health-care providers is mandated by state law or regulation. Under the leadership of the Council of State and Territorial Epidemiologists, reports of 49 diseases and conditions are forwarded to CDC for weekly publication in *MMWR* and annual publication in the *Summary of Notifiable Diseases*.

[†]In 1991, the categories and definitions used in reporting race/ethnicity to the NNDSS changed so that information on ethnicity (Hispanic origin or non-Hispanic origin) is collected separately from race.

Race and Ethnicity - Continued

Overall, during 1990, 53% of notifiable disease cases reported to the NNDSS were reported as individual case records (Table 1); the remaining cases of notifiable diseases were reported by states as numbers only, without demographic information. Exclusion of the number of varicella cases (nearly half the total cases reported), increases the reporting of individual case records to 95%.

Of the 195,682 cases reported as individual case records to the NNDSS during 1990, 135,115 (69%) included information on race/ethnicity (Table 1); reporting of race/ethnicity varied by disease and state (Tables 1 and 3). For six diseases of low frequency (i.e., less than 70 cases reported nationally in 1990), 90% of the individual case reports included information on race/ethnicity. Three diseases – measles, salmo-

Completed race/ethnicity information Reported as individual case records Race/ Total* cases Ethnicity % Individual No. (%) case reports Disease reported reported Amebiasis 3,328 1,654 (50) 1,077 65 11,852 Aseptic meningitis 11,663 (98) 8,847 76 Botulism, food-borne 23 96 23 (100)22 Botulism, infant 65 65 (100)59 91 Botulism, other 4 4 (100)3 75 85 72 85 Brucellosis 85 (100)Diphtheria 4 4 (100)3 75 Encephalitis, postinfectious 105 105 (100)91 87 Encephalitis, primary 1.341 1.341 (100)963 72 Hansen's disease 198 179 (90) 159 89 Hepatitis A 31.441 31.441 (100)26,457 84 Hepatitis B 21,102 21,102 (100)16,532 78 Hepatitis, non-A, non-B 2.553 2.553 (100)2,195 86 1,671 Hepatitis, unspecified 1,671 (100)1,379 83 Legionellosis 1.370 1,370 (100)1.106 81 Leptospirosis 77 77 (100)52 68 Malaria 1.292 1.292 (100)961 74 27,786 Measles[†] 27,234 (98) 17,053 63 Meningococcal infections 2,451 2,451 (100)2,033 83 Mumps 5,292 4,476 (85) 3.384 76 Murine typhus 50 50 (100)47 94 2,676 Pertussis 4,570 4,338 (95) 62 Psittacosis 113 113 (100)72 81 Rabies human (100)100 1 1 1 Rheumatic fever, acute 108 80 (74) 60 75 Rocky Mountain spotted fever 651 651 (100)568 87 Rubella 1.125 578 (51) 435 75 Rubella, congenital syndrome 11 11 (100)11 100 Salmonellosis 48.603 48.603 (100)25.626 53 Shigellosis 27.077 21.374 (79) 15.122 71 Tetanus 64 63 (98) 59 94 Toxic shock syndrome 322 322 (100)274 85 Trichinosis 129 129 32 (100)25 Tularemia 152 152 (100)110 72 Typhoid fever 552 552 (100)430 78 Varicella 173,099 9.875 (6) 7,135 72 Total 368.667 195,682 (53) 135,115 69

TABLE 1. Completeness of reporting of selected notifiable diseases as individual case records through the National Electronic Telecommunications System for Surveillance (NETSS) and of race/ethnicity, 1990

*Total cases reported include cases reported as individual case records and cases reported as aggregated data. Cases reported as aggregated data do not include demographic information.

[†]Indigenous and imported.

Race and Ethnicity – Continued

nellosis, and shigellosis—accounted for 65% of reports that did not include race/ ethnicity. For example, of 48,603 cases of salmonellosis reported to the NNDSS as individual case records, 25,626 (53%) contained information on race/ethnicity. Race/ ethnicity information was not included for 37% of measles and 29% of shigellosis case records. Lower levels of reporting of race/ethnicity information for salmonellosis and shigellosis may reflect reliance on lab reporting for these conditions. Race/ethnicity was indicated for 90% or more of individual case reports for measles, salmonellosis, and shigellosis by 23, 11, and five states, respectively.

Reported by: State and territorial epidemiologists. Div of Surveillance and Epidemiology, Epidemiology Program Office, CDC.

Editorial Note: The incidence of many infectious diseases varies among racial/ethnic groups (3,4); factors that may be associated with these variations may include access to preventive services, socioeconomic status, and culture. These differences in disease incidence have important implications for disease prevention and control activities. For example, in 1990 incidence rates for measles were highest for Hispanics and blacks and probably reflected lower levels of vaccination coverage among Hispanic and black children (5). Therefore, interventions were targeted to affected communities through radio public service announcements and the involvement of neighborhood institutions, including schools and churches.

Variations in completeness of reporting of race/ethnicity by disease may reflect differences in reporting sources and frequency of case investigation by state and local health departments. Information on race/ethnicity may be less likely to be reported to state health departments for diseases that are reported by laboratories and do not require further investigation by local or state health departments; this may account for the low level of reporting of race/ethnicity for salmonellosis. However, investigations of suspected measles cases are required to confirm that a reported case meets

Racial/Ethnic category	Definition
American Indian or Alaskan Native	A person having origins in any of the original peoples of North America, and who maintains cultural identifica- tion through tribal affiliation or community recognition.
Asian or Pacific Islander	A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands, and Samoa.
Black	A person having origins in any of the black racial groups of Africa.
Hispanic	A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture.
White	A person having origins in any of the original peoples of Europe, North Africa, or the Middle East.

TABLE 2. Racial and ethnic categories* for reporting to the National Notifiable Diseases Surveillance System before 1991 – United States

*Race and ethnic standards for federal statistics and administrative reporting in the U.S. Department of Commerce's *Statistical Policy Handbook*.

Race and Ethnicity - Continued

		Report	ed as	Completed race/ethnicity information			
		individual ca	se records	Race/			
	Total* cases			Ethnicity	% Individual		
City/State	reported	No.	(%)	reported	case reports		
Alabama	2,041	2,041	(100)	1.390	68		
Alaska	630	630	(100)	561	89		
Arizona	17,906	6,135	(34)	5.587	91		
Arkansas	1,738	1,721	(99)	1,043	61		
California	41,487	32,104	(77)	15.609	49		
Colorado	2,208	2,208	(100)	636	29		
Connecticut	2,203	2,203	(100)	1,190	54		
Delaware	785	785	(100)	491	63		
District of Columbia	773	773	(100)	654	85		
Florida	8.030	8.030	(100)	7.665	95		
Georgia	4.360	4,360	(100)	2,785	64		
Hawaii	3,107	1.081	(35)	453	42		
Idaho	638	638	(100)	270	42		
Illinois	41,282	10 093	(24)	7 589	75		
Indiana	2,791	2 791	(100)	2 091	75		
lowa	6 983	998	(100)	483	/5		
Kansas	4 658	4 658	(100)	4 098	40		
Kentucky	4,000	1 553	(100)	1 034	67		
Louiciana	2 060	2 060	(100)	1 292	67		
Maine	2,000	2,000	(100)	1,302	100		
Mandand	5 051	5 051	(100)	2 900	77		
Magaaabuaatta	10 204	3,051	(100)	3,033	,,		
Michigan	10,334	4,437 E 127	(43)	2 502			
Minnesete	43,101	2,137	(12)	3,503	08		
Minniesota	2,240	2,240	(100)	1,220	55		
Mississippi	1,204	1,284	(100)	934	/3		
Montono	13,049	3,058	(22)	2,283	/5		
Nontana	1 80	081	(100)	182	2/		
Nebraska	69/	5/5	(82)	307	53		
Nevada	1,270	1,270	(100)	921	/3		
New Hampshire	2,860	561	(20)	218	39		
New Jersey	4,094	4,094	(100)	2,955	72		
New Mexico	2,925	2,925	(100)	1,457	50		
New York State	7,384	7,384	(100)	5,780	78		
New York City	10,822	10,732	(99)	7,915	74		
North Carolina	4,925	4,925	(100)	4,845	98		
North Dakota	985	985	(100)	344	35		
Ohio	14,567	4,856	(33)	2,991	62		
Oklahoma	2,396	2,396	(100)	1,775	74		
Oregon	2,528	2,528	(100)	1,780	70		
Pennsylvania	8,119	7,211	(89)	5,538	77		
Rhode Island	3,508	674	(19)	138	20		
South Carolina	2,684	2,684	(100)	1,088	41		
South Dakota	1,100	733	(67)	733	100		
Tennessee	5,142	2,590	(50)	2,358	91		
Texas	43,944	17,308	(39)	15,663	90		
Utah	1,768	1,540	(87)	1,420	92		
Vermont	341	341	(100)	0			
Virginia	5,969	3,292	(55)	2,195	67		
Washington	3,976	3,975	(100)	3,350	84		
West Virginia	6,922	557	(8)	427	77		
Wisconsin	4,077	4,077	(100)	3,236	79		
Wyoming	264	224	(85)	216	96		
Total	368,667	195.682	(53)	135 115	69		

TABLE 3. Completeness of reporting of selected notifiable diseases as individual case records via the National Electronic Telecommunications System for Surveillance (NETSS) and of race/ethnicity, by city and state, 1990

*Total cases reported include cases reported as individual case records and cases reported as aggregated data. Cases reported as aggregated data do not include demographic information.

Race and Ethnicity - Continued

the surveillance case definition (6). The data missing for measles likely reflects the burden of undertaking such case investigations, as well as the reporting of individual case records during large outbreaks (5).

One of the national health objectives for the year 2000 is to develop and implement a national process to identify important data needs for disease prevention and health promotion, including data for racial/ethnic minorities, and to establish mechanisms to meet these needs (objective 22.4). Unlike socioeconomic status or cultural factors, data on race/ethnicity are collected in routine notifiable disease reports; until more direct information on socioeconomic status or cultural factors is available, public health officials must rely on indirect measures. Improved reporting and analyses of these data should facilitate more effective targeting of disease prevention efforts. *References*

- CDC. National Electronic Telecommunications System for Surveillance United States, 1990– 1991. MMWR 1991;40:502–3.
- Office of Management and Budget. Directive no. 15: race and ethnic standards for federal statistics and administrative reporting. In: Statistical policy handbook. Washington, DC: Office of Federal Statistical Policy and Standards, US Department of Commerce, 1987:37–8.
- 3. Buehler JW, Stroup DF, Klaucke DN, et al. The reporting of race and ethnicity in the National Notifiable Diseases Surveillance System. Public Health Rep 1989;104:457–85.
- 4. Sumaya CV. Major infectious diseases causing excess morbidity in the Hispanic population. Arch Intern Med 1991;151:1513–20.
- 5. CDC. Measles-United States, 1990. MMWR 1991;40:369-72.
- 6. CDC. Case definitions for public health surveillance. MMWR 1990;39(no. RR-13).

Notices to Readers

National Childhood Lead Poisoning Prevention Conference

CDC will sponsor the National Childhood Lead Poisoning Prevention Conference, December 7–9, 1992, in Atlanta. Representatives from state- and community-based childhood lead poisoning prevention programs, state and local government agencies, private and public organizations and institutions, academia, and child-health advocacy groups are invited.

The conference goal is to strengthen childhood lead-poisoning prevention programs and efforts nationwide through information exchange and discussion about prevention activities and scientific research. Conference topics will include 1) screening and follow-up, 2) managing the leaded environment, 3) community education and outreach, 4) epidemiology and surveillance, and 5) directions for the future.

Additional information and registration materials are available from Yvonne Chrimes, PACE Enterprises, Inc., 17 Executive Park Drive, Suite 200, Atlanta, GA 30329; telephone (404) 633-8610; fax (404) 633-8745.

Epidemiology in Action Course

CDC and Emory University will cosponsor a course designed for practicing state and local health department professionals. This course, "Epidemiology in Action," will be held at CDC November 9–20, 1992. It emphasizes the practical application of epidemiology to public health problems and will consist of lectures, workshops,

Notices to Readers - Continued

classroom exercises (including actual epidemiologic problems), roundtable discussions, and an on-site community survey. There is a tuition charge.

Applications must be received by September 11. Additional information and applications are available from Department PSB, Emory University, School of Public Health, 1599 Clifton Road, NE, Atlanta, GA 30329; telephone (404) 727-3485 or (404) 727-0199.

Publication of Annual Report on the Nation's Health

CDC's National Center for Health Statistics has released *Health, United States, 1991* (1) to the President and Congress of the United States. The report examines the health of and health care for the nation, and includes a chartbook section on minority health, with detailed racial/ethnic data on major health indicators. The report also provides data on a wide range of health measures.

This volume, the 16th edition, includes the "1991 Prevention Profile," an integral part of the U.S. Department of Health and Human Service's national disease prevention and health promotion initiatives. The Prevention Profile examines the final status of the 1990 health objectives for the nation and highlights several components of the three broad national health objectives for the year 2000.

Health, United States, 1991 is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone (202) 783-3238; stock no. 017-022-01156-5; price \$18.00. Tables (175) from the report are available on diskette in spread-sheet format to facilitate additional data analysis. Diskettes are available in the following formats: one 3.5 inch high-density diskette, price: \$21.00; two 5.25 inch double-density diskettes, price: \$26.00 per set; or one 5.25 inch high-density diskette, price: \$15.00.

Reference

Publication of Annual Vital Statistics Summary Report

CDC's National Center for Health Statistics (NCHS) has released vital statistics (provisional data on the number and rate of births, marriages, divorces, and deaths) for 1991. Monthly estimates and rates are included for each vital event.

The report presents statistics on the expectation of life, major causes of death, deaths from human immunodeficiency virus infection, and infant mortality. Data by state of occurrence are shown for birth, marriage, divorce, death, and infant death.

The report, Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1991 (1) is available free of charge from the Scientific and Technical Information Branch, Division of Data Services, NCHS, CDC, Room 1064, 6525 Belcrest Road, Hyattsville, MD 20782; telephone (301) 436-8500.

Reference

 NCHS. Annual summary of births, marriages, divorces, and deaths: United States, 1991. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC 1992; DHHS publication no. (PHS)92-1120. (Monthly vital statistics report; vol 40, no. 13).

NCHS. Health, United States, 1991. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, 1992; DHHS publication no. (PHS)92-1232.



Reported cases of measles, by state - United States weeks 32-35, 1992

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control 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.

The data in the weekly MMWR are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday. Inquiries about the MMWR Series, including material to be considered for publication, should be directed to: Editor, MMWR Series, Mailstop C-08, Centers for Disease Control, Atlanta, GA 30333; telephone (404) 332-4555.

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