



MORBIDITY AND MORTALITY WEEKLY REPORT

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Current Trends

Vaccination Coverage of 2-Year-Old Children — United States, 1991–1992

Protecting children against vaccine-preventable diseases is a national priority in public health. Because approximately 80% of childhood vaccine doses are recommended for administration during the first 2 years of life, vaccination coverage among children must be continuously monitored. National estimates of vaccination coverage were calculated annually from 1959 through 1985 but not for 1986–1990. Beginning in 1991, national estimates of vaccination coverage of preschool children have been available through the National Health Interview Survey (NHIS), a national survey of the civilian noninstitutionalized population conducted by CDC's National Center for Health Statistics (1). This report presents 1992 national estimates of vaccination coverage for 2-year-old children and describes changes from 1991 to 1992.

The NHIS collects vaccination information during household interviews. If vaccination records are available, data are abstracted from the record. If such records are not available, information is based on parental recall. For data measurement, 2-year-old children are defined as persons aged 19–35 months. The proportion of children vaccinated were separately analyzed by poverty classification and place of residence. In addition, to assist in targeting vaccination activities based on cultural differences, data were analyzed by race. Limitations in sample size precluded collection of data on ethnicity and analysis of data for races other than black and white.

Coverage for measles-containing vaccine was similar in 1991 and 1992 (82.0% and 82.5%, respectively) (Table 1). In contrast, coverage in 1992 was substantially higher than that in 1991 for diphtheria and tetanus toxoids and pertussis vaccine (DTP) and poliovirus vaccine. From 1991 to 1992, coverage for three or more doses of DTP increased from 68.8% to 83.0% and for three or more doses of poliovirus vaccine, from 53.2% to 72.4%.

Children living below the poverty level* were less well vaccinated than others. Differences between children living below the poverty level and those living at or above the poverty level ranged from a low of 4.1 percentage points for measles (80.2% vs.).

^{*}Poverty statistics are based on definitions developed by the Social Security Administration that include a set of income thresholds that vary by family size and composition.

Vaccination Coverage — Continued

84.3%) to a high of 8.1 percentage points for polio (66.6% vs 74.7%). Vaccination levels in urban, suburban, and rural areas were similar in 1992. In general, vaccination levels were lower in black children than in white.

In 1992, 71%–72% of children at or above the poverty level were in need of at least one vaccine (Table 2). Among white children, 72%–75% were in need of at least one of the recommended vaccines. Overall, an estimated 1 million 2-year-olds required a single dose of measles-containing vaccine, and 1.6 million 2-year-olds required one or more doses of poliovirus vaccine. Approximately 1 million children had not received at least three doses of DTP vaccine.

Reported by: National Immunization Program; Div of Health Interview Statistics, National Center for Health Statistics, CDC.

Editorial Note: The findings in this report summarizing NHIS data document the overall continuing problem of undervaccination of children in the United States. However, vaccination coverage for some antigens has improved in some age groups—particularly for vaccination against measles in the preschool population. Estimated measles vaccine coverage for 2-year-olds in 1985 was 61%, compared with 82% in 1991 and 1992; before 1991, the highest previously documented level was 67% in 1982 (CDC, unpublished data, 1993). The recent increase in coverage reflects the national response to increased vaccination levels following the measles resurgence during

TABLE 1. Percentage* of 2-year-olds[†] receiving doses of diphtheria and tetanus toxoids and pertussis vaccine (DTP), poliovirus vaccine, and measles-containing vaccine (MCV), by selected characteristics — United States, 1991 and 1992

		≥3 dose	s DTP		2	≥3 doses p	oliovi	rus		1 dose	MCV	
Characteristic	1991	(95% CI§)	1992	(95% CI)	1991	(95% CI)	1992	(95% CI)	1991	(95% CI)	1992	(95% CI)
Socioeconomic status [¶] Below poverty				4		>						
level At or above	53.0	(8.8)	79.7	(5.7)	38.7	(7.9)	66.6	(6.2)	73.4	(6.8)	80.2	(5.6)
poverty level	75.7	(2.8)	84.6	(2.2)	59.5	(3.6)	74.7	(2.5)	86.6	(2.3)	84.3	(2.2)
Race												
White Black	73.4 50.6	(3.6) (7.3)	84.8 74.7	(2.3) (6.3)	57.3 35.6	(4.0) (6.1)	74.1 62.7	(2.6) (7.0)	82.9 77.4	(2.7) (7.3)	83.6 77.9	(2.4) (6.3)
Other**	58.0	(12.5)	79.3	(9.0)	49.8	(14.8)	75.5	(9.9)	83.8	(12.5)	79.9	(10.0)
Residence												
Urban Suburban Rural	64.8 72.3 67.6	(4.4) (4.3) (6.0)	82.5 84.4 80.7	(3.5) (2.8) (5.4)	49.9 55.8 52.5	(4.7) (5.2) (5.9)	74.1 72.6 69.0	(4.0) (3.4) (5.3)	78.4 85.0 81.1	(4.0) (3.5) (5.7)	84.5 83.3 77.2	(2.7) (3.1) (6.7)
Total	68.8	(3.0)	83.0	(2.2)	53.2	(3.4)	72.4	(2.3)	82.0	(2.5)	82.5	(2.3)

^{*}Data are based on household interviews of a sample of the civilian noninstitutionalized population. Refusals and unknowns were excluded (DTP: 4% in 1991, 16% in 1992; measles-containing vaccine: 3% in 1991, 14% in 1992; poliovirus vaccine: 3% in 1991, 17% in 1992). In 1991, 45.6% of respondents had a vaccination record; in 1992, 31.2% had a vaccination record.

[†]Children aged 19–35 months.

[§]Confidence interval.

[¶]Poverty statistics are based on definitions developed by the Social Security Administration that include a set of income thresholds that vary by family size and composition.

^{**}Data for American Indians/Alaskan Natives and Asians/Pacific Islanders were combined because of limitations in sample size.

Vaccination Coverage — Continued

1988–1991; as a result of these efforts, the incidence of measles decreased to a historic low in 1993 (2).

This report also documents a substantial increase in poliovirus and DTP vaccination levels from 1991 to 1992. At least two factors may account for these increases. First, many state and local public health agencies, in collaboration with national and local private voluntary organizations, have intensified their efforts to vaccinate preschool children, especially since the 1989–1991 measles resurgence. Second, changes in survey methodology between 1991 and 1992 have simplified data collection from parental recall. In 1991, respondents were required to specify the exact ages at which vaccinations were administered for the full number of doses to be credited; however, some parents had difficulty recalling the exact ages at which their child received vaccinations. As a consequence, in 1992, a parental response that the child had received all doses of a particular antigen was accepted; retrospective studies have shown this methodology has enhanced the accuracy of data (CDC, unpublished data, 1993). Because of difficulties in determining vaccination status from parental recall (3), in 1994, the NHIS will include a check of provider records for all children aged 19-35 months, thus allowing for adjustment of overall survey results. In addition, health-care providers will encourage parents to maintain home vaccination records (4).

Despite ongoing and substantial efforts to improve the vaccine delivery system in the United States, vaccination levels for 2-year-olds remain below 90%. In addition, coverage varies by and are substantially lower in some population groups, especially those underserved by the health-care system.

Differences in vaccination levels among racial/ethnic groups may be influenced by social and cultural phenomena and require special interventions. For example, during 1992 in Los Angeles, 42% of Hispanic preschool children were fully vaccinated by age 24 months, compared with 25% of black children, even though Hispanic parents reported lower mean annual family incomes (\$3218 vs. \$4596) and lower mean years of education (8.6 years vs. 12.5 years) (CDC, unpublished data, 1993).

TABLE 2. Percentage of all undervaccinated 2-year-olds* requiring at least one dose of diphtheria and tetanus toxoids and pertussis vaccine (DTP), poliovirus vaccine, and/or measles-containing vaccine (MCV), by selected characteristics — United States, 1992

Characteristic	<3 doses DTP	<3 doses poliovirus	0 doses MCV
Socioeconomic status [†]			
Below poverty level At or above	28	29	28
poverty level	72	71	72
Total	100	100	100
Race			
White	72	75	75
Black	22	20	19
Other [§]	6	4	6
Total	100	99	100

^{*}Children aged 19-35 months.

[†]Poverty statistics are based on definitions developed by the Social Security Administration that include a set of income thresholds that vary by family size and composition.

[§]Data for American Indians/Alaskan Natives and Asians/Pacific Islanders were combined because of limitations in sample size.

Vaccination Coverage — Continued

Limitations in the sample size of the 1992 NHIS preclude estimation of vaccination coverage of Hispanic populations; however, the increased incidence of measles among Hispanics before and during the measles resurgence suggests that overall vaccination coverage is also substantially lower in Hispanics than in white non-Hispanics (5–7). The prevention of vaccine-preventable diseases in the United States will require that uniformly high vaccination levels for preschool children be achieved and sustained in all communities.

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Effectiveness in Disease and Injury Prevention

HIV Prevention Practices of Primary-Care Physicians — United States, 1992

Primary-care physicians can be important providers human immunodeficiency virus (HIV)-prevention services to their patients. In 1991, 15% of U.S. adults reported having been tested for HIV antibody; of these, 55% reported their most recent HIV test had been in a physician's office or a hospital (1). During 1992, CDC and the Health Resources and Services Administration (HRSA) commissioned a national survey to characterize the types of HIV prevention services provided by primary-care physicians and barriers to the provision of these services. This report summarizes the results of the survey.

In October 1992, a questionnaire was mailed to 4011* primary-care physicians who were randomly selected from the American Medical Association (AMA) Physician Masterfile, which comprises all physicians in the United States. The sample was stratified by location, race/ethnicity, and specialty. Two categories of location were defined on the basis of the prevalence of acquired immunodeficiency syndrome (AIDS) in metropolitan statistical areas (MSAs): 1) physicians practicing in the 20 MSAs with the highest prevalence and 2) those practicing in the remaining MSAs. Physicians were asked about their risk assessment of new patients; HIV counseling, testing, and treatment practices; and basic understanding of and attitudes about HIV infection and persons with HIV disease. The data were weighted to adjust for unequal probabilities of selection and for the variability of response rates among the strata.

^{*}Represents 3% of the total primary-care physician population.

HIV Prevention Practices — Continued

Of the 3735 eligible[†] physicians, 2545 (68%) responded; of these, 802 were general/family practitioners; 360, pediatrician/adolescent medicine physicians; 683, obstetrician/gynecologists (OB/GYNs); and 700, general internal medicine physicians. Of the 2545 respondents, 1931 (76%) were men. Three hundred eighty (15%) were aged <35 years; 1042 (41%), 35–44 years; and 1123 (44%), >44 years. Of 2496 respondents for whom primary practice was known, 1487 (60%) were based in private, single-specialty practices; 442 (18%), in private, multispecialty practices; 299 (12%), in hospitals, public clinics, and community health centers; and 267 (11%), from academia and other institutions. Six hundred two (24%) of the physicians were located in areas with high prevalences of AIDS.

Almost all (94%) respondents indicated they "usually" or "always" asked new adult (aged ≥19 years) patients about cigarette smoking; however, sexual history-taking was less frequently reported (Table 1): 49% asked about sexually transmitted diseases (STDs), 31% about condom use, 27% about sexual orientation, and 22% about number of sex partners. In comparison, 84% of all physicians asked new adolescent (aged 13–18 years) patients about cigarette smoking, 56% about STDs, 52% about condom use, 34% about number of sex partners, and 27% about sexual orientation. One fourth (25%) of all physicians believed their patients would be offended by questions about their sexual behaviors.

The percentage of physicians who indicated they would "likely" or "very likely" encourage HIV testing varied by patient risk category (Table 2) and ranged from 95% (homosexual men with multiple partners and injecting-drug users) to 40% (sexually active adolescent patients).

Most physicians (66%) indicated that if HIV testing were indicated for a patient, they would probably provide the test counseling themselves. Factors that either "moderately" or "strongly" influenced physicians to refer for counseling and testing rather than provide it themselves were that counseling was too time consuming (55%), information was insufficient to enable counseling (45%), and they preferred anonymous testing for their patients (42%). Most respondents indicated that their decision to refer was not influenced by inadequate reimbursement (86%) or discomfort with counseling (85%).

Ninety-two percent of physicians indicated that they would counsel an HIV-positive patient to reduce the risk for transmitting HIV. In addition, 76%–81% indicated they would counsel the patient to notify sex partners, refer the patient to the local health department for assistance with the notification, or both.

Of physicians in OB/GYN practices, 85% indicated they would provide contraceptive services and 47% would provide prenatal care to all women, regardless of their HIV status (Table 3). In comparison, 73% would provide contraceptive services and 29% would provide prenatal care to women with HIV.

Physicians who reported they would refer patients with HIV for medical services indicated the primary reasons for referring were their lack of experience with HIV (83%) and the availability of other providers with more expertise in treating HIV infection (94%). Overall, 68% of physicians indicated they believed they had an obligation to take care of someone infected with HIV, and 87% indicated that professional training could help "increase their comfort in caring for AIDS patients."

[†]Physicians who were not practicing in one of the primary-care specialties, were practicing out of the country, retired, or deceased were deemed ireligible.

TABLE 1. Percentage* of primary-care physicians who would "usually" or "always" assess risks for new adult and adolescent patients, by risk behavior and physician specialty — United States, 1992

patients, by					icia		alty	— Unit					ays	" asses:			ew a	dult and	ado	lescent
		eral/Family				medicine	phys	ician		tetrician/(_			nedicine	ohysi	cian		Tota	al	
		Adult n=765)		olescent n=723)		Adult (n=78)		olescent n=327)		4dult 1=676)		olescent n=653)		\dult ≔669)		olescent n=492)		\dult =2188)		lolescent n=2195)
Risk behavior	%	(95% CI†)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Cigarette smoking Alcohol use	93§ 79§	(±1.9) (±2.9)	81 69	(±2.9) (±3.4)	89 74	(±7.0) (±9.8)	75 67	(±4.1) (±4.4)	93 80	(±2.3) (±3.8)	92 80	(±2.6) (±3.9)	96§ 92	(±1.3) (±1.9)	89 84	(±2.7) (±3.1)	94 [§] 84 [§]	(±1.0) (±1.6)	84 75	(±1.6) (±1.9)
Contraceptive use STDs¶ Other illicit	53 34§	(±3.6) (±3.4)	58 43	(±3.7) (±3.6)	65 44	(±10.8) (±11.3)	62 49	(±4.6) (±4.7)	97 82	(±1.7) (±3.7)	96 85	(±1.8) (±3.4)	49 45§	(±3.6) (±3.5)	59 54	(±4.2) (±4.3)	61 49 [§]	(±2.1) (±2.2)	66 56	(±2.0) (±2.1)
drugs Illicit IV drugs Condom use	36 [§] 37 21 [§]	(±3.4) (±3.5) (±2.9)	43 38 41	(±3.6) (±3.6) (±3.6)	64 57 50§	(±10.8) (± 1.1) (± 1.1)	53 46 56	(±4.7) (±4.7) (±4.7)	59 60 60§	(±4.7) (±4.6) (±4.6)	65 65 75	(±4.6) (±4.6) (±4.2)	54 [§] 55 [§] 23	(±3.5) (±3.5) (±3.0)	66 63 45	(±4.0) (±4.1) (±4.3)	49 [§] 50 [§] 31 [§]	(±2.2) (±2.2) (±2.0)	55 51 52	(±2.1) (±2.1) (±2.1)
High-risk sex partner No. sex	22§	(±2.9)	29	(±3.3)	21 [§]	(± 9.3)	32	(±4.4)	39§	(±4.6)	46	(±4.8)	28§	(±3.2)	40	(±4.2)	28§	(±2.0)	36	(±2.1)
partners Sexual orienta- tion	16§ 18	(±2.6) (±2.7)	17 18	(±3.2) (±2.8)	24 [§]	(± 9.5) (± 7.6)	30 28	(±4.4) (±4.2)	37§ 36§	(±4.6) (±4.6)	52 36	(±4.8) (±4.6)	18§ 33	(±2.7) (±3.3)	33	(±4.0) (±4.0)	22§ 27	(±1.8) (±1.9)	34 27	(±2.0) (±1.9)

^{*}Percentages are based on the number of physicians who indicated that they see adult or adolescent patients in their practice.

†Confidence interval.

§p<.001 (McNemar test comparing physicians' assessment of adults and adolescents).

¶Sexually transmitted diseases.

TABLE 2. Percentage of primary-care physicians who would "likely" or "very likely" encourage HIV testing, by risk behavior and physician specialty — United States, 1992

		eneral/l practiti	. ,		cian/Ac	lolescent ysician	_	bstetric ynecolo			neral in icine ph	ternal ysician		Total	
Risk behavior	No.	(%)	(95% CI*)	No.	(%)	(95% CI)	No.	(%)	(95% CI)	No.	(%)	(95% CI)	No.	(%)	(95% CI)
Homosexual men with multiple															
partners ·	768	(96)	(±1.5)	230	(94)	(±3.1)	74	(88)	(± 7.4)	755	(95)	(±1.6)	1827	(95)	(±1.0)
Injecting-drug use	760	(95)	(±1.6)	283	(91)	(±3.3)	380	(96)	(±2.0)	750	(96)	(±1.5)	2174	(95)	(±.94)
Homosexual men	771	(92)	(±1.9)	238	(85)	(±4.5)	73	(88)	(±7.4)	700	(92)	(±1.9)	1839	(91)	(±1.3)
Current/Past STD†	784	(76)	(±3.0)	373	(63)	(±4.9)	431	(71)	(±4.3)	764	(79)	(±2.9)	2352	(74)	(±1.8)
Heterosexual men with multiple		, ,	, ,		, ,	, ,		. ,	, ,		. ,	, ,		()	(=::-,
partners '	787	(66)	(± 3.3)	340	(53)	(±5.3)	426	(70)	(± 4.3)	769	(72)	(± 3.2)	2322	(67)	(±1.9)
Other drug and		. ,	, ,		` '	, ,		` ,	` ,		` '	, ,		(0.)	(=)
alcohol users	783	(52)	(± 3.5)	355	(50)	(±5.2)	416	(66)	(±4.5)	769	(57)	(± 3.5)	2321	(57)	(±2.0)
Sexually active			. ,					. ,	. ,					(,,,,	`,
adolescents	755	(38)	(± 3.5)	433	(32)	(± 4.4)	427	(40)	(± 4.6)	637	(46)	(± 3.9)	2253	(40)	(±2.0)

^{*} Confidence interval.

TABLE 3. Percentage* of primary-care physicians who would provide obstetric/gynecologic services for all adult female patients and for all adult female patients with HIV infection, by service and physician specialty — United States, 1992

	General/ Family practitioner (n=515)			(n=515)		diatrician/ dicine phy			G	Obstet ynecolog			med	General icine phys				Total (n	=1541)	ı
Service	All	(95% CI [†])	HIV	(95% CI)	All	(95% CI)	HIV	(95% CI)	All	(95% CI)	HIV	(95% CI)	All	(95% CI)	HIV	(95% CI)	Total	(95% CI)	HIV	(95% CI)
Contraceptive	91§	(±2.5)	76	(±3.7)	55	(±1.2)	50	(±1.2)	99§	(±1.1)	86	(± 3.3)	60§	(± 6.0)	51	(±6.1)	85§	(±2.0)	73	(±2.5)
Postpregnancy Emergency	61§	(±4.3)	50	(±4.4)	5	(±5.6)	5	(±5.6)	93§	(±2.5)	76	(±4.2)	16	(±4.4)	12	(±4.0)	59§	(±2.7)	48	(±2.8)
gynecology Elective	22	(±3.6)	20	(±3.5)	4	(±4.9)	4	(±4.9)	95§	(±2.0)	85	(±3.5)	6	(±2.7)	5	(±2.7)	42§	(±2.7)	37	(±2.7)
gynecology	26§	(±3.8)	19	(±3.5)	12	(± 8.0)	12	(± 8.0)	95§	(± 2.2)	72	(± 4.3)	7	(± 3.0)	5	(±2.6)	44§	(±2.8)	33	(±2.6)
Prenatal	40§	(± 4.3)	22	(±3.6)	5	(±5.2)	5	(±5.1)	8 9 §	(± 3.0)	58	(±4.8)	5	(±2.6)	3	(±1.9)	47§	(±2.8)	29	(±2.5)
Delivery Sterilization on	35§	(±4.2)	20	(±3.5)	9	(±5.6)	9	(±7.0)	87§	(±6.7)	59	(±4.8)	3	(±3.2)	1	(±1.3)	44§	(±2.8)	28	(±2.5)
request	12	(±2.9)	10	(±2.7)	0	- (+4.5)	0	-	93§	(±2.4)	81	(±3.8)	1	(±1.0)	0	_	36§	(±2.7)	31	(±2.6)
Abortion	3	(±1.4)	3	(±1.5)	<1	(±1.5)	<1	(±1.1)	27	(±4.3)	25	(±4.2)	0	_	0	_	10	(±1.7)	9	(±1.6)

^{*}Percentages are based on the number of physicians who indicated that they provide obstetric@ynecologic services.

[†] Sexually transmitted disease.

[†] Confidence interval.

[§] p<.001 (McNemar test comparing services physicians would provide to all women and to women with HIV).

HIV Prevention Practices — Continued

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Editorial Note: Although primary-care physicians may contribute to the prevention of HIV transmission by counseling patients who are at risk, the findings in this report underscore the substantial number of physicians who are missing opportunities to counsel during encounters with patients. To more effectively use these encounters as a means of prevention, physicians first must be knowledgeable about HIV infection and its transmission (2). In addition, they should be made aware of the importance of assessing patients' risk for HIV infection and prepared to counsel patients, based on their risk (3). Therefore, medical schools and professional organizations should continue to emphasize HIV/AIDS prevention and treatment as priorities in training new and practicing physicians.

The findings in this report can assist in the development of HIV prevention policies and programs. For example, the reluctance of some physicians to assess the risky sex practices of patients underscores the importance for public health agencies to assist physicians in improving risk assessment and risk-reduction counseling efforts for their patients and patients' partners. These findings may be used by HRSA to improve training strategies and programs for health-care professionals and AMA and other professional organizations to develop training objectives for primary-care physicians.

Finally, these findings can assist in efforts to achieve the national health objectives for the year 2000 regarding HIV prevention (4). These objectives include increasing to at least 80% the proportion of persons with HIV infection who have been tested (objective 18.8); increasing to at least 75% the proportion of primary-care and mental health-care providers who provide age-appropriate counseling on the prevention of HIV and other STDs (objective 18.9); and increasing to at least 50% the proportion of primary-care clinics who screen, diagnose, treat, counsel, and provide (or refer for) partner notification services for HIV infection and bacterial STDs (objective 18.13).

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Epidemiologic Notes and Reports

Occupational Pesticide Poisoning in Apple Orchards — Washington, 1993

During July–December 1993, the Washington Department of Health (WDOH) received and conducted follow-up investigations of 26 reports of occupational illness related to exposure to mevinphos (Phosdrin[®]*), an organophosphate (OP) insecticide. The reports involved illnesses during June 13–August 18, 1993, in persons working in 19 different apple orchards; all involved use of mevinphos to control apple aphids. This report summarizes the results of these investigations by WDOH.

All the affected workers were men ranging in age from 19 to 72 years (median: 35 years). Eighteen (69%) were Hispanic; eight (31%) were non-Hispanic whites. Twenty-three (88%) of the workers were exposed during mixing/loading or application of mevinphos. The other three (12%) were exposed to mevinphos residues (two while working in close proximity to a recently treated orchard and one after reentering an orchard within 24 hours after it was sprayed).

Of the 23 workers exposed during mevinphos mixing/loading or application, 22 had worked on ground applications and used an airblast[†] system; one worked on an aerial application. All 23 sought medical attention in emergency departments. Twenty-one workers had systemic manifestations characteristic of OP poisoning, including nausea (81%), vomiting (62%), dizziness (43%), visual disturbances (43%), muscle weakness (38%), abdominal pain (29%), headache (24%), sweating (24%), and excessive salivation (5%). Two persons had conjunctivitis only, which was attributed to direct ocular exposure to mevinphos.

Of the seven workers who were hospitalized, four required intensive care. Plasma and/or red blood cell cholinesterase activity was depressed to at least 25% below the lower limit of normal in 14 (88%) of the 16 workers tested; for one worker, the level of activity was depressed 97%, and for three, 75%–90%. Atropine was administered to all seven hospitalized workers and to four of the 14 workers with systemic illness who were treated in the emergency department and released. Eighteen (86%) of the 21 workers with systemic effects were exposed to mixtures of mevinphos and less toxic OP pesticides.

WDOH investigation of all the poisoning incidents determined that personal protective equipment had been available to all mixers/loaders and applicators, but that in 78% of the incidents, U.S. Environmental Protection Agency (EPA) requirements regarding use of protective equipment§ had not been followed (e.g., respirators, gloves, or goggles had been removed during pesticide handling or leather [instead of rubber] footwear had been used).

On August 19, 1993, in response to these reports, the Washington State Department of Agriculture (WSDA) prohibited mixing/loading or application of mevinphos

^{*}Use of trade names is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

[†]This application technique involves the use of a tractor-drawn sprayer withoscillating nozzles that are oriented in a flat plane and direct the spray mixture into the canopy of the trees for complete coverage.

[§]Protective suits, chemical-resistant gloves and shoes, goggles or face shields, and an approved respirator are required for ground application.

Pesticide Poisoning — Continued

by unlicensed applicators. On August 30, use of mevinphos on apples and pears was temporarily suspended. WSDA will determine before the 1994 pesticide application season (i.e., late spring through late summer) whether this suspension will be permanent.

Reported by: C Sagerser, V Skeers, MN, L Baum, MS, M Magaña, MD, B Morrissey, MS, B Mason, Pesticide Section; JM Kobayashi, MD, State Epidemiologist, Washington Dept of Health. Surveillance Br, Div of Surveillance, Hazard Evaluations, and Field Studies, National Institute for Occupational Safety and Health, CDC.

Editorial Note: Mevinphos is an acutely toxic (oral LD $_{50}$ 3.7–6.1 mg/kg, dermal LD $_{50}$ 4.2–4.7 mg/kg [rats]) broad-spectrum OP insecticide (1). EPA classifies mevinphos in its highest toxicity category (Class I), restricts its use to certified applicators or to persons directly supervised by certified applicators, and requires use of protective equipment and mandatory reentry intervals (i.e., time between mevinphos application and safe reentry onto treated fields without use of personal protective equipment). Toxicity of mevinphos is similar to that of ethyl parathion, an OP insecticide that in 1991 was removed from the market for most uses because of its high hazard potential. Like other OPs, mevinphos is readily absorbed through the lungs, gastrointestinal tract, and skin. Typical manifestations of poisoning include nausea, vomiting, miosis, dizziness, headache, muscle weakness and twitching, bradycardia, and generalized hypersecretion. Use of mevinphos is particularly hazardous for apple orchard workers because apples generally require ground (rather than aerial) application of pesticide, hand cultivation, and hand harvesting.

In May 1992, sale of phosphamidon, a less toxic OP insecticide used to control apple aphids, was discontinued by the manufacturer. When growers in Washington subsequently began to consider use of mevinphos for aphid control, the manufacturer of mevinphos recommended in early 1993 that WSDA institute additional restrictions on its use. WSDA issued emergency rules for the use of mevinphos on June 14, 1993, which included the requirements that an observer be present during all mixing/loading activities, the EPA-mandated reentry interval be extended from 48 to 96 hours, and warning signs be posted at all treated orchards. Despite these requirements, all but one of the poisonings described in this report occurred after these emergency rules were issued; 22% of the incidents apparently occurred despite reported adherence to all application requirements.

The detection of this outbreak and the resulting public health actions by WDOH and WSDA highlight the role of state-based surveillance systems in the recognition and prevention of occupational pesticide-related illness. The cases described in this report represent the first reported hospitalizations of workers in Washington associated with agricultural use of any OP insecticide since implementation of the WDOH pesticide surveillance system in 1990. Although mevinphos was mixed with other OP insecticides in most of the reported incidents, there were no reports to WDOH of severe occupational illness associated with individual use of other compounds. The magnitude of the risk for mevinphos poisoning among Washington agricultural workers cannot be estimated because the total number of workers who may be at risk for exposure to this pesticide is unknown.

Occupational poisonings with mevinphos (including fatalities) have been reported in California (2,3) and Florida (4). During 1982–1990, agricultural use of mevinphos in California was associated with 495 (43%) of 1154 reported cases of OP poisoning—

Pesticide Poisoning — Continued

more than for any other OP pesticide (5)—and during 1974–1982, mevinphos was among the six leading causes of hospitalization resulting from occupational pesticide poisoning nationally (6,7). As demonstrated by the Washington cases, even when use of mevinphos is strictly regulated and mandated precautions apparently are followed, poisonings occur.

Surveillance data have identified a high proportion of Hispanics among cases of agriculturally related pesticide poisoning. This most likely reflects Hispanic prevalence in the U.S. farmworker population (70% of U.S. farmworkers [8]), as well as previously documented risk factors for occupational disease and injury among migrant farmworkers (9), who are predominantly Hispanic (8).

In April 1993, EPA identified mevinphos as a pesticide warranting "immediate attention and the implementation of risk-reduction measures" and requested that manufacturers provide information to assist in characterizing the risks for U.S. agricultural workers (10). EPA will continue to assess the risks associated with exposure to mevinphos and the need for additional regulatory measures.

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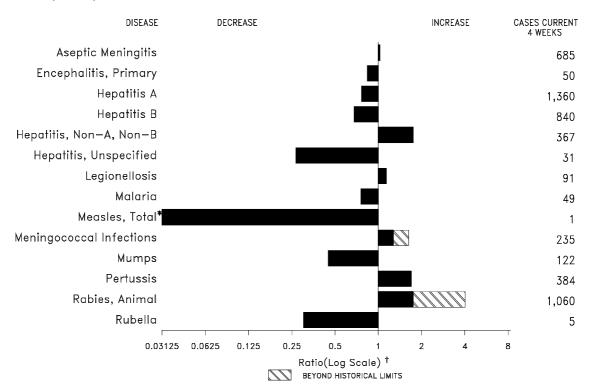
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Notice to Readers

Change of Telephone Number for Reporting of Malaria Cases

The CDC telephone number from which health-care providers and the general public can obtain information about the treatment of malaria infections and to which they can report malaria cases acquired in the United States has changed; the new number is (404) 488-7760. The malaria hotline number for recommendations for the prevention of malaria remains the same: ([404] 332-4555).

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending December 25, 1993, with historical data — United States



^{*}The large apparent decrease in reported cases of measles (total) reflects dramatic fluctuations in the historical baseline. (Ratio (log scale) for week fifty-one is 0.00291).

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending December 25, 1993 (51st Week)

	Cum. 1993		Cum. 1993
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea	93,282 - 21 - 54 - 5 - 88 - 18 - 7 - 151 - 386,225	Measles: imported indigenous Plague Poliomyelitis, Paralytic [§] Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year [¶] Tetanus Toxic shock syndrome Trichinosis	56 221 10 - 51 2 25,559 1,493 42 216 16
Haemophilus influenzae (invasive disease)† Hansen Disease Leptospirosis Lyme Disease	1,213 169 46 7,624	Tuberculosis Tularemia Typhoid fever Typhus fever, tickborne (RMSF)	21,479 120 337 448

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

^{*}Updated monthly: last update November 27, 1993.

Of 1157 cases of known age, 378 (33%) were reported among children less than 5 years of age.

STwo (2) cases of suspected poliomyelitis have been reported in 1993; 4 of the 5 suspected cases with onset in 1992 were confirmed; the confirmed cases were vaccine associated. Reports through second quarter of 1993.

TABLE II. Cases of selected notifiable diseases, United States, weeks ending December 25, 1993, and December 19, 1992 (51st Week)

	<u> </u>	Aseptic	Enceph	nalitis			Hei	oatitis (\	/iral), by	type		
Reporting Area	AIDS*	Menin- gitis	Primary	Post-in- fectious	Gono	rrhea	A	В	NA,NB	Unspeci- fied	Legionel- losis	Lyme Disease
.,	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	93,282	12,140	879	151	386,225	475,647	21,346	11,846	4,996	591	1,226	7,624
NEW ENGLAND	4,689	418	23	8	8,220	9,988	456	468	547	20	82	1,746
Maine N.H.	119 100	41 55	2	2	82 75	93 115	16 36	11 122	4 449	3	6 6	11 70
Vt.	68	45	6	-	24	26	9	10	4	-	3	7
Mass. R.I.	2,532 299	169 108	10 5	4 2	3,132 418	3,568 619	212 73	235 21	77 13	17 -	44 23	180 267
Conn.	1,571	-	-	-	4,489	5,567	110	69	-	-		1,211
MID. ATLANTIC	23,757	936	61	11	44,893	55,592	1,037	1,279	387	7	243	4,363
Upstate N.Y. N.Y. City	3,315 12,796	549 104	43 1	6 -	9,244 12,294	11,095 19,701	432 177	428 121	262 1	1 -	86 3	2,560 3
N.J.	4,982	-	- 17	-	5,570	7,541	275	387	86	-	33	750
Pa. E.N. CENTRAL	2,664 7,602	283 2,145	216	5 28	17,785 83,331	17,255 89,890	153 2,407	343 1,388	38 567	6 13	121 322	1,050 108
Ohio	1,490	714	72	4	22,287	27,041	326	1,300	36	-	159	39
Ind.	846	230	23	11	8,160	8,863	633	236	18	1 5	56	30
III. Mich.	2,827 1,732	507 639	51 54	3 10	29,314 17,680	29,944 19,823	827 213	272 394	73 399	5 7	21 62	16 23
Wis.	707	55	16	-	5,890	4,219	408	298	41	-	24	-
W.N. CENTRAL Minn.	2,783 624	775 119	47 18	11 -	20,158 2,505	25,396 2,956	2,229 453	653 79	196 12	16 4	102 3	265 127
lowa	172	158	5	2	1,508	1,555	58	36	9	4	18	8
Mo.	1,464	226 21	6 4	9	11,717 40	14,281	1,353 79	457 1	144 3	8	32 2	71
N. Dak. S. Dak.	2 29	22	7	-	243	73 162	16	-	- -	-	-	2
Nebr. Kans.	168 324	27 202	1 6	-	476 3,669	1,653 4,716	193 77	20 60	12 16	-	40 7	6 51
S. ATLANTIC	19,841	2,540	227	59	98,376	139,209	1,221	2,223	804	86	215	898
Del.	342	78	3	-	1,532	1,736	10	163	170	-	12	423
Md. D.C.	2,039 1,425	218 38	25	- 1	16,353 5,515	16,080 6,551	158 11	262 43	38 2	4	55 15	175 2
Va.	1,377	328	39	7	12,143	14,655	145	144	49	41	10	75
W. Va. N.C.	94 1,095	56 264	116 31	-	670 24,039	807 24,710	27 88	44 306	38 76	-	4 27	50 84
S.C.	1,366	34	-	-	10,612	10,865	18	50	5	1	19	9
Ga. Fla.	2,547 9,556	160 1,364	2 11	- 51	4,660 22,852	36,586 27,219	101 663	264 947	175 251	1 39	36 37	43 37
E.S. CENTRAL	2,427	743	30	7	43,290	48,317	320	1,311	1,001	4	43	37
Ky.	313	317	14	6	4,810	4,670	130	79	16	-	18	13
Tenn. Ala.	1,031 689	162 186	10 3	-	12,511 15,816	15,299 16,914	96 56	1,121 105	970 5	3 1	17 2	20 4
Miss.	394	78	3	1	10,153	11,434	38	6	10	-	6	-
W.S. CENTRAL	9,039	1,381	75	2	45,148	52,644	2,639	1,726	396	162	39	71
Ark. La.	370 1,198	70 84	2 7	-	9,001 11,746	7,526 14,219	52 92	58 216	4 151	2 4	6 6	2 2
Okla.	676	1 224	8 58	2	4,199	5,468	215	310	156	9	17 10	23
Tex. MOUNTAIN	6,795 3,719	1,226 685	30	5	20,202 10,463	25,431 12,240	2,280 3,877	1,142 699	85 342	147 76	72	44 20
Mont.	3,719	1	-	5 1	10,463	12,240	3,877 77	29	342	-	7	-
ldaho Wyo.	70 46	11 7	-	-	159 75	118 64	279 16	82 30	108	3	1 6	2 9
Colo.	1,245	221	15	-	3,302	4,484	827	73	52	41	9	-
N. Mex. Ariz.	292 1,205	119 172	4 8	2	932 3,687	915 4,102	394 1,350	221 86	111 13	4 12	6 15	2
Utah	253	73	1	1	340	349	764	57	35	14	11	2
Nev.	578	81	2	1	1,884	2,098	170	121	20	2	17	5
PACIFIC Wash.	19,425 1,467	2,517	170 1	20	32,346 3,600	42,371 3,850	7,160 850	2,099 223	756 184	207 9	108 10	116 8
Oreg.	741	-	-	-	1,144	1,619	96	34	15	1	-	2
Calif. Alaska	16,771 96	2,360 21	161 7	20	26,390 608	35,756 639	5,429 718	1,809 13	544 10	194	88	105
Hawaii	350	136	1	-	604	507	67	20	3	3	10	1
Guam	-	6	-	-	87	53	2	3	-	11	-	-
P.R. V.I.	2,985 41	64 -	-	-	500 93	233 107	79 -	399 5	95 -	2	-	-
Amer. Samoa	-	-	-	-	42	50	19	-	-	-	-	-
C.N.M.I.	-	3	1	-	71	77	-	2	-	1	-	-

N: Not notifiable

U: Unavailable

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

^{*}Updated monthly; last update November 27, 1993.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending December 25, 1993, and December 19, 1992 (51st Week)

-			Measle				Menin-		•	`		•			
Reporting Area	Malaria	Indige	enous	Impo	orted*	Total	gococcal Infections	Mu	mps	ı	Pertussi	s		Rubella	a
	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	1993	Cum. 1993	Cum. 1992
UNITED STATES	1,162	1	221	-	56	2,212	2,359	40	1,602	78	5,935	3,264	-	189	152
NEW ENGLAND Maine	96 6	-	57 1	-	6	65 4	134 16	-	12	6 2	768 24	296 11	-	2 1	6 1
N.H.	6	-	2	-	-	13	16	-	-	2	250	113	-	-	-
Vt. Mass.	3 47	-	30 14	-	1 4	21	7 68	-	1 2	1	89 307	19 103	-	- 1	-
R.I.	7	-	1	-	1	21	1	-	2	-	13	6	-	-	4
Conn. MID. ATLANTIC	27 216	-	9 11	-	- 7	6 215	26 272	2	7 126	1 14	85 881	44 203	-	- 62	1 10
Upstate N.Y.	122	-	-	-	2	112	119	1	44	12	359	121	-	17	7
N.Y. City N.J.	24 45	-	5 6	-	2 3	61 42	19 44	-	2 12	-	78 64	22 60	-	22 17	3
Pa.	25	-	-	-	-	-	90	1	68	2	380	131	-	6	-
E.N. CENTRAL Ohio	83 15	1	22 7	-	6 2	61 6	374 107	5 1	250 73	40 29	1,468 487	726 114	-	8 1	11
Ind.	3	-	1	-	-	20	60	-	8	29 11	176	61	-	3	-
III. Mich.	40 19	- 1	5 6	-	- 1	18 13	104 63	- 4	67 80	-	371 110	54 15	-	1 2	9 2
Wis.	6	-	3	-	3	4	40	-	22	-	324	482	-	1	-
W.N. CENTRAL	32 9	-	1	-	2	14	163	1	54	2	553	314	-	1	8
Minn. Iowa	5	-	-	-	-	12 1	20 28	1	2 11	-	323 37	109 11	-	-	3
Mo. N. Dak.	7 2	-	1	-	-	-	57 3	-	33 5	-	140 5	115 15	-	1	1
S. Dak.	2	-	-	-	-	-	6	-	-	-	8	17	-	-	-
Nebr. Kans.	4	-		-	2	1	14 35	-	2 1	2	16 24	14 33	-	-	4
S. ATLANTIC	302	-	17	-	13	130	410	2	446	6	645	194	-	10	20
Del. Md.	3 48	-	1	-	4	1 16	15 51	-	7 79	-	16 131	7 39	-	2	- 5
D.C.	11	-	-	-	-	2	6	-	1	-	13	1	-	-	-
Va. W. Va.	39 2	-	-	-	4	16	48 14	-	36 23	-	65 8	17 9	-	-	- 1
N.C. S.C.	101 7	-	-	-	-	24 29	67 31	-	224 16	4	200 73	43 10	-	-	- 7
Ga.	21	-	-	-	-	3	90	-	18	-	40	17	-	-	-
Fla.	70	-	16	-	5	39	88	2	42	2	99	51	-	5	7
E.S. CENTRAL Ky.	29 5	-	1	-	-	468 451	144 25	-	54 -	1	276 30	33 1	-	4	1
Tenn. Ala.	12 7	-	- 1	-	-	-	39 49	-	15 22	- 1	173 61	10 19	-	4	1
Miss.	5	-	-	-	-	17	31	-	17	-	12	3	-	-	-
W.S. CENTRAL	32	-	7	-	3	1,107	219	18	260	3	206	240	-	18	8
Ark. La.	3 6	-	1	-	-	-	21 38	-	4 20	-	12 12	17 15	-	- 1	-
Okla. Tex.	6 17	-	- 6	-	3	12 1,095	23 137	- 18	15 221	3	99 83	49 159	-	1 16	- 8
MOUNTAIN	35	-	5	-	ა 1	37	179	2	70	2	410	430	-	10	8
Mont.	2	-	-	-	-	-	13	-	-	-	11	9	-	-	-
Idaho Wyo.	1	-	-	-	-	1	18 5	-	5 4	-	119 1	46	-	2	1
Colo.	21 5	-	2	-	1	31 2	35 7	- N	16 N	2	134 41	106 101	-	1	2
N. Mex. Ariz.	1	-	2	-	-	3	75	-	14	-	62	126	-	2	2
Utah Nev.	2	-	1	-	-	-	19 7	2	5 26	-	37 5	40 2	-	4 1	1 2
PACIFIC Wash.	337 28	-	100	-	18	115 11	464 73	10 4	330 14	4	728 85	828 222	-	74 -	80 8
Oreg.	6	-	-	-	-	3	32	Ν	N	1	39	45	-	3	2
Calif. Alaska	293 3	-	89	-	7 2	60 9	333 16	5	280 11	1	577 5	488 17	-	43 1	47 -
Hawaii	7	-	11	-	9	32	10	1	25	2	22	56	-	27	23
Guam P.R.	2	-	4 311	-	-	10 481	1 9	-	10 4	-	- 11	- 12	-	-	3 1
V.I. Amer. Samoa	-	-	- 1	-	-	-	-	-	5 1	-	2	6	-	-	-
C.N.M.I.	-	-	71	-	1	2	-	-	13	-	1	2	-	-	

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

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending December 25, 1993, and December 19, 1992 (51st Week)

	Decemi	ber 25, 19	93, and D	ecemb	er 19, 1	1992 (5	ist wee	K)	
Reporting Area		hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	25,559	32,641	216	21,479	23,158	120	337	448	9,073
NEW ENGLAND	379	653	15	548	513	-	31	5	1,660
Maine N.H.	8 29	8 37	3 5	35 17	19 18	-	2	-	145
Vt. Mass.	1 122	1 323	1 5	7 311	6 297	-	23	5	40 701
R.I. Conn.	15 204	38 246	1 -	56 122	35 138	-	6	-	2 772
MID. ATLANTIC	2,350	4,421	34	4,515	5,636	1	68	27	3,031
Upstate N.Y. N.Y. City	242 1,183	331 2,478	16 1	534 2,573	706 3,394	1 -	20 26	7 -	2,203
N.J. Pa.	303 622	548 1,064	- 17	813 595	902 634	-	16 6	10 10	451 377
E.N. CENTRAL	4,126	4,983	49	2,314	2,252	4	39	14	109
Ohio Ind.	1,170 348	822 286	12 3	304 223	328 203	- 1	7 2	8 1	6 11
III. Mich.	1,604 543	2,266 901	10 24	1,234 459	1,164 462	2 1	21 8	2 2	23 18
Wis.	461	708	-	94	95	-	1	1	51
W.N. CENTRAL Minn.	1,531 63	1,516 92	15 3	504 80	546 154	39	2	25 1	342 45
Iowa	64	56	7	59	45	-	-	7	77
Mo. N. Dak.	1,276 2	1,142 1	2	244 7	228 10	16 -	2	11 -	25 61
S. Dak. Nebr.	2 10	24	-	14 20	27 27	17 3	-	3 2	45 11
Kans.	114	201	3	80	55	3	-	1	78
S. ATLANTIC Del.	6,358 91	8,756 197	25 1	4,144 47	4,237 53	4	56 1	216 1	2,618 134
Md. D.C.	356 325	592 399	<u>i</u>	399 162	395 116	-	8	12	1,204 18
Va.	644	707	7	415	347	-	6	13	387
W. Va. N.C.	13 1,856	17 2,435	4	72 578	91 590	2	3	6 128	89 104
S.C. Ga.	909 1,052	1,174 1,681	2	395 741	389 861	-	3	11 37	163 466
Fla.	1,112	1,554	10	1,335	1,395	2	35	8	53
E.S. CENTRAL Ky.	3,962 335	4,116 177	11 3	1,514 366	1,503 387	4 1	7 2	61 14	203 19
Tenn.	1,056	1,169	4	424	453	2	2	32	72
Ala. Miss.	861 1,710	1,365 1,405	2 2	487 237	409 254	1 -	3 -	4 11	112
W.S. CENTRAL Ark.	5,672 710	6,094	2	2,291 193	2,710 221	48 27	8	85 9	591 42
La.	2,517	880 2,529	-	-	217	-	1	1	11
Okla. Tex.	406 2,039	452 2,233	2	155 1,943	154 2,118	17 4	1 6	70 5	66 472
MOUNTAIN	233	330	14	511	598	14	10	15	169
Mont. Idaho	1 -	7 1	2	15 13	13 24	5 -	-	2	24 6
Wyo. Colo.	13 77	9 66	2	6 54	- 75	3 1	- 5	10 3	25 26
N. Mex. Ariz.	24 95	40 158	1 1	59 236	79 251	2	2 2	-	9 60
Utah	11	8	6	28	72	2	1	-	4
Nev. PACIFIC	12 948	41 1,772	2 51	100 5,138	84 5,163	1 6	- 116	-	15 350
Wash.	55	74	7	260	301	1	7	- -	-
Oreg. Calif.	40 837	49 1,636	43	100 4,482	125 4,409	2 3	1 105	-	325
Alaska Hawaii	8 8	4 9	- 1	51 245	59 269	-	3	-	25 -
Guam	3	3	-	72	69	-	4	-	
P.R. V.I.	486 42	338 68	-	233 2	225 3	-	-	-	43
Amer. Samoa C.N.M.I.	- 7	6	-	2 40	56	-	1	-	-
O.1 V.1V1.1.	,	U	-	40	30	-	-	-	

U: Unavailable

TABLE III. Deaths in 121 U.S. cities,* week ending December 25, 1993 (51st Week)

		dl Cau	ises. Rv	/ Age (\				773 (313t Wee		All Car	ises. R	y Age (Y	ears)		_ +
Reporting Area	All Ages	≥65	45-64		1-24	<1	P&I [†] Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass.		404 98 32 18 21 26 21 11 16 20 24 10 25 19	27 10 3 4 8 4 3 5 8 11 3	50 20 3 2 4 2 1 4 4 3 3	11 6 1 - 2 - 1 - 1	10 2 1 - - 1 - - 3 - 1	50 21 2 1 3 2 5 3 2 5	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL	1,278 156 280 86 98 110 38 52 70 179 126 31 698	805 88 179 54 71 59 21 37 30 49 128 65 24	249 34 49 18 14 25 11 9 11 10 33 30 5	148 26 36 8 9 18 4 2 5 5 13 20 2	43 6 7 6 3 6 1 2 - 2 1 9	31 2 9 1 2 1 2 6 4 2 2	71 5 24 4 8 1 3 4 2 - 16 4
MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§	2,325 59 26 100 35 22 36	1,490 40 15 53 20 17 24	441 9 7 21 9 1	283 4 4 18 3 3 3	57 2 - 4 2 1	53 4 - 4 1	139 3 - 2 1 1 5	Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	108 46 85 42 224 49 37 107	66 29 58 28 146 32 26 77	27 13 21 11 48 8 8	6 2 4 2 20 6 1 3	1 1 2 - 9 2 2 4	8 1 1 1 1 - 4	4 3 8 7 16 1
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa. Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	35 1,253 52 27 210 103 21 121 33 30 91 15 19	21 783 19 12 131 73 133 26 28 71 10 13	20 7 42 16 5 20 5 - 11 4 3	6 173 7 5 27 8 3 5 1 2 6 1 1	28 4 1 4 5 - 1 1 1 - 2	1 28 2 6 1 - 2 - 2	6 49 8 19 12 3 15 4 1 7	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	1,190 55 51 44 172 47 107 292 48 79 167 54	768 39 36 31 103 29 62 184 40 41 114 34 55	231 8 9 8 40 13 21 55 3 16 33 12 13	115 7 5 2 20 3 14 36 1 8 9 6	49 1 3 9 4 8 4 8 9 2	24 	83 9 - 3 4 2 10 25 6 - 13 4 7
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa	1,451 63 26 141 179 190 101 U 38 66 110 41 104 28 32 45 114 56 695 71	1,024 50 222 94 107 129 72 U 30 47 3 3 30 129 25 75 25 27 38 79 42 526 56	2 U 188 38 39 19 U 4 2 33 8 16 2 2 4 21 11	104 3 2 U 15 15 12 7 U 3 8 3 - 10 4 9 - 2 2 9 - -	32 - U 3 77 3 2 U 1 3 1 - 4 1 1 1 - 1 2 2 14 1	51 1 1 11 12 7 1 1 U 4 4 4 4 3 3 3 1	101 3 7 U 11 8 11 7 U 3 4 5 5 4 4 4 1 32 2	MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Cali San Jose, Calif.	o. 52 98 160 25 183 24 1 146 142 1,653 13 U 16 64 95 383 34 152 204 114 f. 162	602 52 34 58 105 21 116 15 103 98 1,134 9 45 72 252 23 106 144 86 90 130	185 14 100 20 400 3 422 26 281 2 U 3 14 13 76 77 29 15 29 36	66 5 6 12 11 1 10 160 1 10 3 3 5 33 3 15 19 9 33 16	26 21 23 - 8 - 5 5 49 - U1 - 1 15 12 5 4 8 5	26 2 1 6 6 1 - 7 7 1 5 3 3 25 1 U - 2 4 4 3 3 - 7 2 4 4 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	80 15 9 16 5 12 1 18 13 127 1 U - 3 8 19 5 10 13 12 11 25
Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	19 26 122 21	15 21 93 20 101 73 83 30 34	4 2 16 19 21 20 6	2 9 - 10 4 9 2	1 3 1 1 3 4	1 - 4 - 4 -	1 7 3 9 4 - 3 2	Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	U 103 32 90 10,773 [¶]	U 70 25 73	U 14 5 9	U 12 1 7	0 5 1 1 302	U 2 - - 245	0 6 2 12 731

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

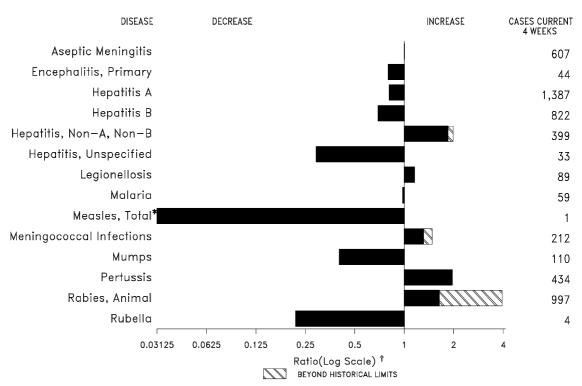
[†]Pneumonia and influenza.

Secause 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.

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending January 1, 1994, with historical data — United States



^{*}The large apparent decrease in reported cases of measles (total) reflects dramatic fluctuations in the historical baseline. (Ratio (log scale) for week fifty-two is 0.00303).

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending January 1, 1994 (52nd Week)

	Cum. 1993		Cum. 1993
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea Haemophilus influenzae (invasive disease)† Hansen Disease	93,282 21 55 5 88 18 7 - 151 392,192 1,236 170	Measles: imported indigenous Plague Poliomyelitis, Paralytic [§] Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year [¶] Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tularemia	56 221 10 - 53 2 25,875 1,493 42 218 16 22,038 120
Leptospirosis Lyme Disease	46 7,760	Typhoid fever Typhus fever, tickborne (RMSF)	341 450

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

^{*}Updated monthly: last update November 27, 1993.

Of 1175 cases of known age, 381 (32%) were reported among children less than 5 years of age.

STwo (2) cases of suspected poliomyelitis have been reported in 1993; 4 of the 5 suspected cases with onset in 1992 were confirmed; the confirmed cases were vaccine associated. Reports through second quarter of 1993.

TABLE II. Cases of selected notifiable diseases, United States, weeks ending January 1, 1994, and December 26, 1992 (52nd Week)

	Aseptic Encephalitis Hepatitis (Viral), by type											
	AIDS*	Menin-	Primary	Post-in-	Gond	rrhea	A	В	NA,NB	Unspeci-	Legionel- losis	Lyme Disease
Reporting Area	Cum.	gitis Cum.	Cum.	fectious Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	fied Cum.	Cum.	Cum.
	1993	1993	1993	1993	1993	1992	1993	1993	1993	1993	1993	1993
UNITED STATES	93,282	12,287	890	151	392,192	485,765	21,846	12,106	5,134	605	1,241	7,760
NEW ENGLAND Maine	4,689 119	418 41	25 3	8	8,356 83	10,169 96	465 16	475 11	557 4	20 -	87 6	1,771 11
N.H. Vt.	100 68	55 45	- 6	2	75 25	115 26	39 9	128 10	459 4	3	6 3	70 7
Mass.	2,532 299	169	11 5	4 2	3,175	3,610	215 73	236	77 13	17	49 23	181 271
R.I. Conn.	1,571	108 -	5 -	-	424 4,574	636 5,686	113	21 69	-	-	-	1,231
MID. ATLANTIC Upstate N.Y.	23,757 3,315	947 559	61 43	11 6	46,119 9,570	56,977 12,008	1,060 449	1,299 441	390 265	7 1	248 87	4,441 2,619
N.Y. City	12,796	104	1	-	12,657	19,901	177	121	1	-	3	3
N.J. Pa.	4,982 2,664	284	- 17	5	5,721 18,171	7,684 17,384	275 159	387 350	86 38	6	33 125	750 1,069
E.N. CENTRAL	7,602	2,160	216	28	83,800	91,765	2,433	1,397	573	13	317	110
Ohio Ind.	1,490 846	720 230	72 23	4 11	22,287 8,285	27,298 9,114	337 633	194 236	37 18	1	154 56	41 30
III. Mich.	2,827 1,732	514 639	51 54	3 10	29,425 17,870	31,207 19,893	842 213	277 393	77 400	5 7	21 62	16 23
Wis.	707	57	16	-	5,933	4,253	408	297	41	-	24	-
W.N. CENTRAL Minn.	2,783 624	781 120	50 18	11	20,571 2,603	25,857 3,020	2,247 466	665 86	196 12	16 4	104 3	268 129
Iowa	172	159	7	2	1,823	1,653	59	36	9	4	19	8
Mo. N. Dak.	1,464 2	231 21	6 5	9 -	11,717 40	14,544 73	1,356 80	461 1	144 3	8 -	33 2	71 2
S. Dak. Nebr.	29 168	22 27	7 1	-	243 476	164 1,687	16 193	20	- 12	-	40	6
Kans.	324	201	6	-	3,669	4,716	77	61	16	-	7	52
S. ATLANTIC Del.	19,841 342	2,558 78	228 3	59 -	100,166 1,586	142,615 1,763	1,250 12	2,274 167	855 179	92	217 13	924 440
Md.	2,039	220	25	-	16,713	16,462	159	265	42	5	56	180
D.C. Va.	1,425 1,377	38 328	39	1 7	5,816 12,144	6,553 16,605	11 151	44 148	3 52	46	15 10	2 77
W. Va. N.C.	94 1,095	56 270	117 31	-	688 24,577	817 24,993	28 94	45 315	42 80	-	4 27	50 86
S.C. Ga.	1,366 2,547	35 160	2	-	10,758 4,660	10,865 36,727	18 101	51 281	5 199	1 1	19 36	9 43
Fla.	9,556	1,373	11	51	23,224	27,830	676	958	253	39	37	37
E.S. CENTRAL Ky.	2,427 313	757 324	30 14	7 6	43,719 4,877	49,055 4,713	339 136	1,342 80	1,017 16	4	43 18	37 13
Tenn.	1,031	162	10	-	12,769	15,732	102	1,149	986	3	17	20
Ala. Miss.	689 394	191 80	3 3	1	15,792 10,281	16,914 11,696	58 43	107 6	5 10	1 -	2 6	4
W.S. CENTRAL	9,039	1,419	77	2	45,637	53,753	2,775	1,796	408	163	40	72
Ark. La.	370 1,198	71 86	2 7	-	9,001 11,960	7,847 14,349	52 95	58 221	4 155	2 4	6 7	2 2
Okla. Tex.	676 6,795	1 1,261	8 60	2	4,474 20,202	5,547 26,010	218 2,410	314 1,203	161 88	9 148	17 10	23 45
MOUNTAIN	3,719	697	30	5	10,620	12,415	3,953	707	347	77	73	20
Mont. Idaho	30 70	1 11	-	1 -	84 159	110 119	77 288	28 84	3	4	7 1	2
Wyo. Colo.	46 1,245	7 230	- 15	-	76 3,378	64 4,557	17 854	31 78	110 54	- 42	6 9	2 9 -
N. Mex.	292	119	4	2	942	923	414	222	111	3	6	2
Ariz. Utah	1,205 253	175 73	8 1	1	3,726 350	4,174 349	1,362 770	86 57	13 36	12 14	15 12	2
Nev.	578	81	2	1	1,905	2,119	171	121	20	2	17	5
PACIFIC Wash.	19,425 1,467	2,550 -	173 1	20	33,204 3,657	43,159 3,938	7,324 861	2,151 229	791 210	213 11	112 13	117 8
Oreg. Calif.	741 16,771	2,392	- 163	20	1,144 27,131	1,653 36,415	101 5,577	35 1,852	15 553	1 198	- 89	2 106
Alaska	96	21	8	-	657	646	716	13	10	-	-	-
Hawaii Guam	350	137 6	1 -	-	615 87	507 53	69 2	22 3	3 -	3 11	10	1
P.R.	2,985	64	-	-	500	239	79	399	95	2	-	-
V.I. Amer. Samoa	41	-	- -	-	93 42	107 51	19	5	-	- -	-	-
C.N.M.I.	-	3	1	-	71	78	-	2	-	1	-	-

N: Not notifiable

U: Unavailable

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

^{*}Updated monthly; last update November 27, 1993.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending January 1, 1994, and December 26, 1992 (52nd Week)

Reporting Area			IVICASIC	o (Nube	, Olaj			20, 1772 (3211d Week)					T			
	Malaria	Indigenous		es (Rubeola) Imported*		Total	Menin- gococcal Infections	Mumps		ı	Pertussi	s	Rubella			
Reporting Area	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	1993	Cum. 1993	Cum. 1992	
UNITED STATES	1,184	-	221	-	56	2,217	2,423	20	1,630	144	6,132	3,407	1	188	153	
NEW ENGLAND	98	-	57	-	6	65	136	-	12	11	797	316	-	2	6	
Maine N.H.	7 7	-	1 2	-	-	4 13	16 16	-	-	-	24 250	11 120	-	1	1	
Vt. Mass.	3 47	-	30 14	-	1 4	- 21	7 69	-	1 2	5	94 325	21 113	-	- 1	-	
R.I.	7	-	1	-	1	21	1	-	2	-	13	6	-	-	4	
Conn.	27	-	9	-	-	6	27	-	7	6	91	45	-	-	1	
MID. ATLANTIC Upstate N.Y.	217 123	-	11	-	7 2	217 112	276 121	3 2	129 46	14 5	895 364	255 173	-	62 17	11 8	
N.Y. City	24	-	5	-	2	63	19	-	2	-	78	22	-	22	-	
N.J. Pa.	45 25	-	6	-	3 -	42	44 92	1	12 69	9	64 389	60 148	-	17 6	3 -	
E.N. CENTRAL	84	-	22	-	6	61	376	1	251	69	1,557	737	-	8	11	
Ohio Ind.	15 3	-	7 1	-	2	6 20	108 60	1	74 8	69	556 176	119 62	-	1 3	-	
III.	41	-	5	-	-	18	105	-	67	-	391	54	-	1	9	
Mich. Wis.	19 6	-	6 3	-	1 3	13 4	63 40	-	80 22	-	110 324	16 486	-	2 1	2	
W.N. CENTRAL	32	_	1	_	2	14	162	_	54	11	565	323	_	1	8	
Minn.	9	-	-	-	-	12	20	-	2	8	331	116	-	-	3	
Iowa Mo.	5 7	-	1	-	-	1	28 57	-	11 33	1 2	38 143	11 117	-	1	3 1	
N. Dak. S. Dak.	2 2	- U	-	- U	-	-	3 6	- U	5	- U	5 8	15 17	- U	-	-	
Nebr.	4	-	-	-	-	-	14	-	2	-	16	14	-	-	- -	
Kans.	3	-	-	-	2	1	34	-	1	-	24	33	-	-	4	
S. ATLANTIC Del.	303 3	-	17 1	-	13	130 1	418 15	3	452 7	4 1	650 17	203 7	-	10 2	20	
Md.	48	-	-	-	4	16	53	-	82 1	2	133	47 1	-	3	5	
D.C. Va.	11 39	-	-	-	4	2 16	6 48	-	36	-	13 66	18	-	-	-	
W. Va. N.C.	2 101	-	-	-	-	24	19 67	-	23 224	-	8 200	9 43	-	-	1	
S.C.	7	-	-	-	-	29	31	-	16	-	73	10	-	-	7	
Ga. Fla.	21 71	-	16	-	- 5	3 39	90 89	3	18 45	1	40 100	17 51	-	- 5	7	
E.S. CENTRAL	29	-	1	-		468	152	-	56	3	279	33	-	2	1	
Ky. Tenn.	5 12	-	-	-	-	451	25 44	-	- 17	-	30 173	1 10	-	2	- 1	
Ala.	7	-	1	-	-	-	51	-	22	3	64	19	-	-	-	
Miss.	5	-	-	-	-	17	32	-	17	-	12	3	-	-	-	
W.S. CENTRAL Ark.	35 3	-	7	-	3	1,109	225 21	9	269 4	4	210 12	245 17	-	18	8	
La.	6	-	1	-	-	-	40	-	20	-	12	15	-	1	-	
Okla. Tex.	6 20	-	6	-	3	12 1,097	23 141	1 8	16 229	4	103 83	52 161	-	1 16	8	
MOUNTAIN	38	-	5	-	1	37	189	1	73	14	435	434	-	10	8	
Mont. Idaho	2 1	-	-	-	-	-	13 21	-	- 5	2	11 121	9 46	-	2	- 1	
Wyo.	-	-	-	-	-	1	5	1	5	-	1	-	-	-	-	
Colo. N. Mex.	24 5	-	2	-	1	31 2	36 7	- N	17 N	11 1	155 42	108 102	-	1	2	
Ariz.	1	-	2	-	-	3	81	-	15	-	63	127	-	2	2	
Utah Nev.	2	-	- 1	-	-	-	19 7	-	5 26	-	37 5	40 2	-	4 1	1 2	
PACIFIC Wash.	348 35	-	100	-	18	116 11	489 89	3	334 14	14 9	744 94	861 226	1	75 -	80 8	
Oreg. Calif.	6 297	-	- 89	-	- 7	3 60	36 338	N 2	N 283	4	39 583	45 517	- 1	3 44	2 47	
Alaska	3	-	-	-	2	9	16	-	11	-	5	17	-	1	-	
Hawaii	7	-	11	-	9	33	10	1	26	1	23	56	-	27	23	
Guam P.R. V.I.	2	-	4 311	-	-	10 481 -	1 9	-	10 4 5	-	11	13	-	-	3 1	
Amer. Samoa C.N.M.I.	- - 1	- - 11	1 82	-	1	2	-	-	1 13	-	2	6	-	-	2	

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

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending January 1, 1994, and December 26, 1992 (52nd Week)

January 1, 1994, and December 26, 1992 (52nd Week)												
Reporting Area		hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal			
	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993			
UNITED STATES	25,875	33,200	218	22,038	24,087	120	341	450	8,555			
NEW ENGLAND Maine	382 8	659 8	15 3	595 35	540 21	-	31	5	1,685			
N.H.	29 1	37	5 1	17 7	18	-	2	-	149			
Vt. Mass.	123	1 327	5	350	6 305	-	23	5	45 714			
R.I. Conn.	16 205	38 248	1 -	62 124	51 139	-	6	- -	2 775			
MID. ATLANTIC Upstate N.Y.	2,396 242	4,485 349	34 16	4,559 542	6,076 763	1 1	68 20	27 7	3,064 2,224			
N.Y. City	1,210	2,511	1	2,573	3,755	-	26	-	-			
N.J. Pa.	303 641	561 1,064	- 17	843 601	917 641	-	16 6	10 10	458 382			
E.N. CENTRAL Ohio	4,179 1,209	5,127 852	50 13	2,381 312	2,298 328	4	39 7	13 8	109 6			
Ind.	348	287	3	231	209	1	2	1	11			
III. Mich.	1,604 551	2,370 905	10 24	1,281 463	1,180 477	2 1	21 8	2	23 18			
Wis. W.N. CENTRAL	467 1,533	713 1,542	- 15	94 519	104 572	- 39	1 2	- 25	51 345			
Minn.	65	94	3	92	154	-	-	1	45			
Iowa Mo.	64 1,276	61 1,160	7 2	59 244	49 248	16	2	7 11	79 25			
N. Dak. S. Dak.	2 2	1 -	-	7 14	10 28	- 17	-	3	61 45			
Nebr. Kans.	10 114	25 201	3	20 83	28 55	3 3	-	2 1	11 79			
S. ATLANTIC	6,463	8,896	25	4,207	4,275	4	56	219	2,033			
Del. Md.	94 369	201 601	1 1	66 407	54 418	-	1 8	1 14	135 610			
D.C. Va.	326 663	405 719	7	162 415	122 347	-	6	13	18 387			
W. Va. N.C.	13 1,866	17 2,478	4	75 595	92 597	2	3	6 129	90 104			
S.C. Ga.	924 1,081	1,174 1,721	2	399 753	389 861	-	3	11 37	165 470			
Fla.	1,127	1,580	10	1,335	1,395	2	35	8	54			
E.S. CENTRAL Ky.	3,976 336	4,171 180	11 3	1,550 393	1,586 390	4 1	7 2	61 14	208 20			
Tenn. Ala.	1,056 861	1,212 1,365	4 2	424 487	527 415	2 1	2	32 4	72 116			
Miss.	1,723	1,414	2	246	254	-	-	11	-			
W.S. CENTRAL Ark.	5,760 710	6,204 886	2	2,399 197	2,812 225	48 27	10	85 9	592 43			
La. Okla.	2,598 413	2,586 460	2	- 168	217 157	- 17	1 1	1 70	11 66			
Tex.	2,039	2,272	-	2,034	2,213	4	8	5	472			
MOUNTAIN Mont.	237 1	338 7	15 -	513 15	601 13	14 5	10	15 2	169 24			
Idaho Wyo.	13	1 9	2	13 6	25	3	-	10	6 25			
Colo. N. Mex.	81 24	66 44	2 1	54 59	77 79	1 2	5 2	3	26 9			
Ariz.	95	162	2	238	251	-	2	-	60			
Utah Nev.	11 12	8 41	6 2	28 100	72 84	2 1	1 -	-	4 15			
PACIFIC Wash.	949 56	1,778 74	51 7	5,315 275	5,327 301	6 1	118 8	-	350			
Oreg.	40	54	-	100	130	2	1	-	-			
Calif. Alaska	837 8	1,636 5	43	4,640 51	4,566 59	3	106	-	325 25			
Hawaii Guam	8	9 3	1	249 72	271 74	-	3	-	-			
P.R.	486	347	-	233	225	-	-	-	43			
V.I. Amer. Samoa	42	68 -	-	2	3	-	1	-	-			
C.N.M.I.	7	6	-	40	59	-	-	-	-			

U: Unavailable

TABLE III. Deaths in 121 U.S. cities,* week ending January 1, 1994 (52nd Week)

All Causes, By Age (Years)								4 (JZIIU WEEK	All Causes Ry Age (Vears)						
Reporting Area	All Ages	≥65	45-64		1-24	<1	P&I [†] Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa.	51 55 10 49 50 62 2,364 47 42 100 41 12 50 43 1,322 52 12	462 105 19 24 38 18 21 34 47 7 32 35 44 1,548 26 36 69 24 11 41 26 837 21	33 5 42 6 9 2 - 7 10 3 8 11 2 3 9 1 6 10 247 18 3 444 12 18 40 10 10 10 10 10 10 10 10 10 10 10 10 10	40 8 22 1 1 2 6 2 5 3 6 2 5 8 4 5 3 5 1 1 5 1 1 5 1 1 5 1 1 1 5 1 1 1 5 1	17 5 1 1 1 1 2 2 2 4 1 60 3 - 2 2 7 1 - 2 2 - 3 - 1 - 2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	200 77 33 3 3 1 1	57 18 31 1 13 33 5 8 2 2 11 11 5 9 2 11 2 5 11	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Washington, D.C. Wilmington, D.C. Wilmington, Del. E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas Tey	151 U 28 570 98 68 18 26 147 68 38 107 1,113 58 34	660 87 107 61 81 70 27 64 109 U 25 370 61 43 12 16 94 40 31 73 720 41 25 25 29 29 29 20 20 21 25 20 20 20 20 20 20 20 20 20 20 20 20 20	151 24 30 12 16 22 9 U 6 5 24 U 3 122 18 15 3 6 31 24 4 21 225 9 9 15	93 21 19 7 10 7 7 U 5 2 15 U - 59 13 5 2 4 4 8 2 2 13 10 7 7	21 26 61 25 101 30 16 55 11 34 11	16 4 2 1 1 4 2 2 U - 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	53 4 20 2 3 1 2 U 2 3 16 U 5 1 5 1 1 9 6 0 7
Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	80 18 130 38 44 78 42 19 U	56 14 89 30 38 56 28 17 U	17 1 23 4 4 11 10 2 U	3 3 10 4 5 2 U	1 6 2 4 2	3 2 - 2 - U	6 3 8 - 4 10 - 1 U	Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	166 U 66 268 79 82 194 19	105 U 44 172 43 56 137 13 55	31 U 13 51 24 12 36 3 22	19 U 7 28 7 7 10 2	6 U 1 11 2 6 6	5 U1 6 3 1 5 1 8	2 U 2 19 9 - 14 2 3
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind.	1,361 72 30 U U 146 U 111 218 20	948 49 25 U 100 U 94 130	11 45 6	101 4 1 U U 13 U 4 27	35 1 U U 6 U - 10	26 2 U U 2 U 2 6	94 3 U U 6 U 8 5 3	MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz.	0. 60 108 141 30 133 24	576 49 43 81 96 25 83 15 82 102	165 12 13 16 35 4 31 8 18 28	52 9 3 9 7 - 11 - 6 7	17 5 - 1 1 6 - 3 1	17 1 1 2 2 2 1 4 4	91 2 6 11 15 10 13 1 22
Fort Wayne, Ind. Gary, Ind. Grand Rapids, Micl Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	56 17 125 65 137 37 65 77 102 U	40 10 57 84 51 102 25 48 55 64 U	11 5 11 21 9 26 10 14 9 28 U	3 2 6 13 2 7 1 1 11 6 U	8 3 3 1 - 1 2 U	2 - 1 4 - 1 1 2 1 2 U	4 2 15 1 10 10 4 5 10 8 U	PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif.	1,749 25 U 15 73 89 378 35 145 191	1,211 16 U 11 53 63 243 26 105 134 66	280 5 U 3 9 14 63 3 19 35 19	172 3 U 1 7 9 44 3 13 11	47 1 U 2 1 14 3 5 6 3	32 U 2 2 8 3 4	145 4 U 1 4 14 19 3 13 18 13
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	682 70 17 40 122 U 117 71 124 50 71	502 51 13 23 93 U 92 47 96 38	5 16 U 14 11 10	57 6 1 7 9 U 10 7 10 3 4	18 - 1 3 U 1 4 4 2 3	18 2 1 3 1 U - 2 4 2 3	36 4 2 1 7 U 8 5 4 3 2	San Francisco, Cali San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL		78 172 U 135 49 60	24 31 U 35 7 13	17 14 U 27 4 3	5 U 3 2 2 2 265	2 3 U 5 1 2 218	2 33 U 6 5 10 702

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

[†]Pneumonia and influenza.

Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Total includes unknown ages.

U: Unavailable.

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