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Violence-Related Behaviors Among High School Students — United States, 1991–2003

Homicide and suicide are responsible for approximately one fourth of deaths among persons aged 10-24 years in the United States (1). Two of the national health objectives for 2010 are to reduce the prevalence of physical fighting among adolescents to ≤32% and to reduce the prevalence of carrying a weapon by adolescents on school property to ≤4.9% (objective nos. 15-38 and 15-39) (2). To examine changes in violence-related behaviors among high school students in the United States during 1991-2003, CDC analyzed data from the national Youth Risk Behavior Survey (YRBS). This report summarizes the results of that analysis, which indicated that most violence-related behaviors decreased during 1991-2003; however, students increasingly were likely to miss school because they felt too unsafe to attend. In addition, in 2003, nearly one in 10 high school students reported being threatened or injured with a weapon on school property during the preceding 12 months. Schools and communities should continue efforts to establish physical and social environments that prevent violence and promote actual and perceived safety in schools.

The national YRBS, a component of CDC's Youth Risk Behavior Surveillance System, used independent three-stage (i.e., primary sampling units, schools, and classes) cluster samples for the 1991–2003 surveys to obtain cross-sectional data representative of public- and private-school students in grades 9–12 in the 50 states and the District of Columbia. During 1991–2003, sample sizes ranged from 10,904 to 16,296, school response rates ranged from 70% to 81%, student response rates ranged from 83% to 90%, and overall response rates ranged from 60% to 70%. For each cross-sectional national survey, students completed an anonymous, self-administered questionnaire that included identically worded questions about violence.

For this analysis, temporal changes during 1991-2003 for three behaviors were assessed: 1) weapon (e.g., a gun, knife, or club) carrying (on ≥ 1 of the 30 days preceding the survey), 2) physical fighting (one or more times during the 12 months preceding the survey), and 3) being in a physical fight that resulted in injuries that had to be treated by a doctor or nurse (one or more times during the 12 months preceding the survey). In addition, temporal changes from 1993-2003 for four school-related behaviors were assessed: 1) weapon carrying on school property (on ≥ 1 of the 30 days preceding the survey), 2) physical fighting on school property (one or more times during the 12 months preceding the survey), 3) being threatened or injured with a weapon on school property (one or more times during the 12 months preceding the survey), and 4) not going to school because of safety concerns (i.e., feeling too unsafe at school or on the way to or from school on ≥ 1 of the 30 days preceding the survey). Data are presented only for non-Hispanic black, non-Hispanic white, and Hispanic students because the numbers of students from other racial/ethnic populations were too small for meaningful analysis.

Data were weighted to provide national estimates, and SUDAAN was used for all data analyses. Temporal changes were analyzed by using logistic regression analyses that assessed linear and quadratic time effects simultaneously and controlled for sex, race/ethnicity, and grade. Quadratic trends indicated

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significant but nonlinear trends in the data over time. When a significant quadratic trend accompanied a significant linear trend, the data demonstrated a nonlinear variation (e.g., leveling off or change in direction) in addition to an overall increase or decrease over time. All results were statistically significant (p<0.05) unless otherwise noted.

Significant linear and quadratic trends were detected for weapon carrying. Overall, the prevalence of weapon carrying declined significantly, from 26.1% in 1991 to 18.3% in 1997, and then leveled off through 2003 (17.1%) (Table). Similar significant linear and quadratic trends were detected among female, male, white, 10th-, 11th-, and 12th-grade students. Among black, Hispanic, and 9th-grade students, a significant linear decline was detected during 1991–2003.

Overall, physical fighting declined significantly, from 42.5% in 1991 to 33.0% in 2003. Physical fighting also declined significantly among all subgroups except 11th-grade students. Among 11th-grade students, physical fighting declined during 1991–1999 and then remained level through 2003. No significant changes were detected in the prevalence of being injured in a physical fight overall or by subgroup.

Weapon carrying on school property declined significantly, from 11.8% in 1993 to 6.1% in 2003. Weapon carrying also declined significantly among female, male, white, Hispanic, 9th-, 10th-, and 11th-grade students. Significant linear and quadratic trends were detected for weapon carrying on school property among black and 12th-grade students, with the prevalence of carrying a weapon on school property declining during 1993–1999 and then remaining level through 2003.

Physical fighting on school property declined significantly, from 16.2% in 1993 to 12.8% in 2003. A similar significant linear trend was detected among all subgroups.

No significant changes were detected in the prevalence of being threatened or injured with a weapon on school property during 1993-2003 overall or among female, male, Hispanic, 10th-, and 12th-grade students. A significant linear increase during 1993-2003 was detected among white and 9th-grade students. Among black students, being threatened or injured with a weapon on school property declined during 1993-1999 and then increased through 2003. Among 11th-grade students, being threatened or injured with a weapon on school property declined during 1993-1999 and then remained level through 2003.

Not going to school because of safety concerns increased significantly, from 4.4% in 1993 to 5.4% in 2003. Not going to school because of safety concerns also increased significantly among female, white, and 11th-grade students. No significant changes were detected during 1993-2003 among male, black, Hispanic, 9th-, 10th-, and 12th-grade students.

TABLE. Percentage of high school students who reported violence-related behaviors, by sex, race/ethnicity, and grade — Youth Risk Behavior Survey, United States, 1991–2003*

	1	991	1	993	1	995	1	997	1	999	2	001	2	003
Behavior	%	(95% CI†)	% (95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Carried a weapon (e.g., a gun,														
knife, or club)§														
Overall	26.1	(<u>+</u> 2.3)	22.1	(<u>+</u> 2.3)	20.0	(<u>+</u> 1.3)	18.3	(<u>+</u> 1.8)	17.3	(<u>+</u> 1.9)	17.4	(<u>+</u> 1.9)	17.1	(<u>+</u> 1.8) [¶] **
Sex														
Female	10.9	(<u>+</u> 2.1)	9.2	(<u>+</u> 1.7)	8.3	(<u>+</u> 1.4)	7.0	(<u>+</u> 1.1)	6.0	(<u>+</u> 1.1)	6.2	(±0.8)	6.7	(<u>+</u> 1.2)¶**
Male	40.6	(<u>+</u> 2.9)	34.3	(<u>+</u> 3.3)	31.1	(<u>+</u> 2.0)	27.7	(<u>+</u> 3.1)	28.6	(<u>+</u> 3.4)	29.3	(<u>+</u> 3.3)	26.9	(<u>+</u> 2.6) [¶] **
Race/Ethnicity														a
White, non-Hispanic	25.1	(_ /	20.6	(<u>+</u> 2.8)	18.9	(<u>+</u> 1.8)	17.0	(<u>+</u> 2.5)	16.4	(<u>+</u> 2.7)	17.9	(<u>+</u> 2.6)	16.7	(<u>+</u> 1.9)¶**
Black, non-Hispanic	32.7	·— ,	28.5	(<u>+</u> 2.3)	21.8	(<u>+</u> 4.1)	21.7	·— ,	17.2	(<u>+</u> 5.2)	15.2	(<u>+</u> 2.4)	17.3	(<u>+</u> 3.5)¶
Hispanic	25.8	(<u>+</u> 4.4)	24.4	(<u>+</u> 2.6)	24.7	(<u>+</u> 4.1)	23.3	(<u>+</u> 2.8)	18.7	(<u>+</u> 2.7)	16.5	(<u>+</u> 1.5)	16.5	(<u>+</u> 2.6)¶
Grade								>						\ T
9th	27.5	(<u>+</u> 4.0)	25.5	(<u>+</u> 2.8)	22.6	(<u>+</u> 2.5)	22.6	(<u>+</u> 2.6)	17.6	(<u>+</u> 3.1)	19.8	(<u>+</u> 2.8)	18.0	(±3.5)¶
10th	26.8	(<u>+</u> 3.2)	21.4	(<u>+</u> 2.2)	21.1	(<u>+</u> 1.8)	17.4	·— ,	18.7	(<u>+</u> 2.6)	16.7	(<u>+</u> 2.2)	15.9	(<u>+</u> 2.2)¶**
11th	29.0	·— ,	21.5	(±3.2)	20.3	·— ,	18.2	·— ,	16.1	(<u>+</u> 2.6)	16.8	(<u>+</u> 2.5)	18.2	(±2.4)¶**
12th	21.3	(<u>+</u> 2.3)	19.9	(<u>+</u> 2.9)	16.1	(<u>+</u> 1.8)	15.4	(<u>+</u> 3.2)	15.9	(<u>+</u> 2.8)	15.1	(<u>+</u> 2.5)	15.5	(<u>+</u> 2.1)¶**
In a physical fight ^{††}														_
Overall	42.5	(<u>+</u> 2.4)	41.8	(<u>+</u> 1.9)	38.7	(<u>+</u> 2.1)	36.6	(<u>+</u> 2.0)	35.7	(<u>+</u> 2.3)	33.2	(<u>+</u> 1.4)	33.0	(<u>+</u> 1.9)¶
Sex			_		_		_		_		_		_	.
Female		(<u>+</u> 2.9)		(<u>+</u> 2.3)	30.6	·— ,		(<u>+</u> 2.5)		(±3.3)		(<u>+</u> 1.9)		(±1.7)¶
Male	50.2	(<u>+</u> 2.6)	51.2	(<u>+</u> 2.0)	46.1	(<u>+</u> 2.0)	45.5	(<u>+</u> 2.1)	44.0	(<u>+</u> 2.5)	43.1	(<u>+</u> 1.6)	40.5	(<u>+</u> 2.6)¶
Race/Ethnicity								>						\ T
White, non-Hispanic	41.0	·— ,	40.3	·— ,	36.0	(<u>+</u> 2.0)		(<u>+</u> 2.5)	33.1	(<u>+</u> 2.8)	32.2	(<u>+</u> 1.9)	30.5	(±2.2)¶
Black, non-Hispanic		(<u>+</u> 4.7)	49.5	(<u>+</u> 3.5)	41.6	(<u>+</u> 3.9)	43.0	·— ,		(<u>+</u> 6.1)	36.5	(<u>+</u> 3.1)	39.7	·- /_
Hispanic	41.3	(<u>+</u> 4.2)	43.2	(<u>+</u> 3.0)	47.9	(<u>+</u> 5.0)	40.7	(<u>+</u> 3.3)	39.9	(<u>+</u> 3.2)	35.8	(<u>+</u> 1.8)	36.1	(<u>+</u> 1.9) [¶]
Grade	50 5	(0 0)	50 4	(0 0)	47.0	(4.5)	440	(0 0)		(0 0)	00.5	(0.5)		(0 T)¶
9th	50.5	·— ,	50.4	\— <i>'</i>	47.3	(<u>+</u> 4.5)	44.8	(<u>+</u> 3.9)	41.1	(<u>+</u> 3.9)	39.5	(<u>+</u> 2.5)	38.6	(<u>+</u> 2.7)¶
10th	43.1	·— /	42.2	·— ,	40.4	(<u>+</u> 2.7)	40.2	(<u>+</u> 3.7)	37.7	(<u>+</u> 4.1)	34.7	(<u>+</u> 2.7)	33.5	(<u>+</u> 2.3)¶
11th	43.0	·— ,	40.5	(±3.0)	36.9	(<u>+</u> 2.6)		(±3.4)	31.3	(±3.0)	29.1	(<u>+</u> 2.2)	30.9	(±2.7)¶**
12th	33.9	(<u>+</u> 3.7)	34.8	(<u>+</u> 3.1)	31.0	(<u>+</u> 3.4)	28.8	(<u>+</u> 2.7)	30.4	(<u>+</u> 3.7)	26.5	(<u>+</u> 2.0)	26.5	(<u>+</u> 2.1)¶
Injured in a physical fight ^{††§§}														
Overall	4.4	(<u>+</u> 0.8)	4.0	(<u>+</u> 0.9)	4.2	(<u>+</u> 0.6)	3.5	(<u>+</u> 0.6)	4.0	(<u>+</u> 0.7)	4.0	(<u>+</u> 0.4)	4.2	(<u>+</u> 1.0)
Sex		((0)		()		(, , , ,)		()		(0.0)		()		(0 0)
Female	2.7	·— ,	2.7	(<u>+</u> 0.8)	2.5	(<u>+</u> 1.0)	2.2	·— ,	2.8	(<u>+</u> 0.8)	2.9	(<u>+</u> 0.5)	2.6	(<u>+</u> 0.6)
Male	6.0	(<u>+</u> 1.0)	5.2	(<u>+</u> 1.1)	5.7	(<u>+</u> 1.0)	4.6	(<u>+</u> 0.9)	5.3	(±0.8)	5.2	(<u>+</u> 0.7)	5.7	(<u>+</u> 1.4)
Race/Ethnicity	0.0	(, 0, 0)	0.0	(. 4. 0)	0.0	(.00)	0.5	(. 0 5)	0.0	(.0.7)	0.4	(.0.5)	0.0	(. 0. 0)
White, non-Hispanic	3.8	(<u>+</u> 0.9)		(<u>+</u> 1.0)	3.3	(<u>+</u> 0.9)	2.5	(<u>+</u> 0.5)	3.2	·— /	3.4	(<u>+</u> 0.5)	2.9	(±0.8)
Black, non-Hispanic	6.6	·— ,		(<u>+</u> 1.8)	4.3	(<u>+</u> 1.4)	5.7	·— ,		(<u>+</u> 2.2)	5.3	(<u>+</u> 0.8)	5.5	(<u>+</u> 1.0)
Hispanic	4.3	(<u>+</u> 1.6)	5.1	(<u>+</u> 1.2)	6.4	(<u>+</u> 1.7)	4.3	(<u>+</u> 1.0)	5.8	(<u>+</u> 1.6)	4.4	(<u>+</u> 1.1)	5.2	(<u>+</u> 1.3)
Grade 9th	F 2	(11.2)	4.1	(11.0)	17	(11.4)	4.6	(11.2)	1.1	(111)	1 5	(10.7)	F 0	(12.1)
10th	5.2	(<u>+</u> 1.2)	4.1	(<u>+</u> 1.0)	4.7	(<u>+</u> 1.4)	4.6	(<u>+</u> 1.2)	4.4	(<u>+</u> 1.1)	4.5 4.6	(<u>+</u> 0.7)	5.0	(<u>+</u> 2.1) (<u>+</u> 0.8)
11th		(<u>+</u> 1.6) (<u>+</u> 0.9)	4.0 4.0	(<u>+</u> 1.1) (<u>+</u> 1.4)	3.4 4.3	·— ,		(<u>+</u> 1.0) (<u>+</u> 0.9)		(<u>+</u> 1.7) (<u>+</u> 1.5)		(<u>+</u> 1.0) (<u>+</u> 0.8)		(±0.8)
12th		(±0.9) (±1.4)		(±1.4) (±1.3)	4.3	·— ,		(±0.9) (±0.7)		(±1.3) (±1.3)		(±0.8)	3.1	·— ,
	3.0	(<u>+</u> 1.4)	3.1	(<u>+</u> 1.3)	4.3	(<u>+</u> 0.7)	2.0	(<u>+</u> 0.7)	3.1	(<u>+</u> 1.3)	3.4	(<u>+</u> 0.0)	3.1	(<u>±</u> 1.0)
Carried a weapon (e.g., a gun, knife, or club)														
on school property§														
Overall		_	11 8	(<u>+</u> 1.4)	9.8	(<u>+</u> 0.9)	8.5	(<u>+</u> 1.5)	6.9	(<u>+</u> 1.2)	6.4	(<u>+</u> 1.0)	6.1	(<u>+</u> 1.1)¶
Sex			11.0	(<u>+</u> 1.+)	3.0	(<u>+</u> 0.5)	0.0	(<u>+</u> 1.5)	0.5	(<u>+</u> 1.2)	0.4	(<u>+</u> 1.0)	0.1	(<u>+</u> 1.1)"
Female		_	5.1	(±1.3)	4.9	(<u>+</u> 1.0)	37	(±0.7)	2.8	(±0.8)	29	(±0.5)	3 1	(<u>+</u> 1.0)¶
Male		_		(<u>+</u> 1.9)	14.3			(<u>+</u> 2.9)		(±2.1)		(±0.0) (±1.7)	8.9	(±1.5)¶
Race/Ethnicity				(<u>+</u> 1.0)	1 1.0	(.2.0	(<u>·</u> L.0)		(10.2	(±1)	0.0	<u>(-</u> 1.0)
White, non-Hispanic		_	10.9	(<u>+</u> 1.7)	9.0	(<u>+</u> 1.3)	7.8	(<u>+</u> 2.3)	6.4	(<u>+</u> 1.7)	6.1	(<u>+</u> 1.2)	5.5	(<u>+</u> 1.1)¶
Black, non-Hispanic		_		(±1.7) (±1.6)		(<u>+</u> 2.1)		(±2.0) (±1.9)		(±1.0)		(±1.2) (±1.8)	6.9	(±1.9)¶**
Hispanic		_		(<u>+</u> 2.2)		(<u>+</u> 3.3)		(<u>+</u> 1.9)		(<u>+</u> 1.4)		(<u>+</u> 1.0)	6.0	(±1.1)¶
Grade			. 5.5	(<u>-</u>)		(<u>·</u> 5.0)	. 5. 7	(<u>-</u>)		\±···/	5. 7	(<u>-</u>)	5.0	\ <u>`</u> /
9th		_	12.6	(±1.4)	10.7	(<u>+</u> 1.4)	10.2	(<u>+</u> 1.8)	7.2	(<u>+</u> 2.1)	6.7	(<u>+</u> 1.3)	5.3	(<u>+</u> 2.2)¶
10th		_		(<u>+</u> 1.9)		(<u>+</u> 1.5)		(<u>+</u> 1.9)		(<u>+</u> 1.6)	6.7	. ,	6.0	(±1.0)¶
11th		_		(<u>+</u> 2.8)		(<u>+</u> 1.8)		(<u>+</u> 2.6)		(<u>+</u> 1.0)	6.1	(<u>+</u> 1.4)	6.6	(<u>+</u> 1.6)¶
12th		_		(<u>+</u> 1.6)		(<u>+</u> 1.3)		(<u>+</u> 1.8)		(<u>+</u> 1.5)		(<u>+</u> 1.4)		(±1.3) [¶] **
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TABLE. (*Continued*) Percentage of high school students who reported violence-related behaviors, by sex, race/ethnicity, and grade — Youth Risk Behavior Survey, United States, 1991–2003*

	1991	1	993	1	995	1	997	1	999	2	2001	_ 2	003
Behavior	% (95% CI†)	% (95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
In a physical fight on													
school property ^{††}													
Overall	_	16.2	(<u>+</u> 1.2)	15.5	(<u>+</u> 1.6)	14.8	(<u>+</u> 1.3)	14.2	(±1.2)	12.5	(<u>+</u> 1.0)	12.8	(<u>+</u> 1.5)¶
Sex			(= /		(=,		(=110)		(= /		(= /		(= /
Female	_	8.6	(<u>+</u> 1.4)	9.5	(<u>+</u> 1.9)	8.6	(<u>+</u> 1.5)	9.8	(<u>+</u> 1.9)	7.2	(<u>+</u> 0.9)	8.0	(<u>+</u> 1.4)¶
Male	_		(<u>+</u> 1.4)	21.0	(<u>+</u> 1.9)		(<u>+</u> 2.0)		(<u>+</u> 1.3)	18.0			(<u>+</u> 1.8)¶
Race/Ethnicity			(— /		(<u> </u>		(/		(<u> </u>		(<u> </u>		(<u> </u>
White, non-Hispanic	_	15.0	(± 1.3)	12.9	(+1.2)	13.3	(± 1.7)	12.3	(± 1.7)	11.2	(± 1.2)	10.0	(±1.4)¶
Black, non-Hispanic	_	22.0	(+2.7)	20.3	(+2.2)		(+2.4)		(+3.0)	16.8	·— ,	17.1	·— /_
Hispanic	_	17.9	(<u>+</u> 3.1)	21.1	(±3.3)		(<u>+</u> 2.9)		(<u>+</u> 1.8)	14.1	(<u>+</u> 1.7)	16.7	·— /_
Grade			(/		(/		(/		(<u> </u>		(— <i>)</i>		\— <i>'</i>
9th	_	23.1	(+3.0)	21.6	(+3.5)	21.3	(+2.5)	18.6	(+2.0)	17.3	(+1.5)	18.0	(+2.4)¶
10th	_	17.2	(+2.1)	16.5	(+3.0)	17.0	(+3.3)	17.2	(+2.4)	13.5	(+1.7)		(+1.8)¶
11th	_		(+2.5)		(+2.0)		(+1.7)		(+2.0)	9.4	·— ,		(+1.8)¶
12th	_		(+1.3)		(±1.3)		(±1.4)		(+2.0)	7.5	·— /		(±1.4)¶
Threatened or injured with			_ ·-/		_ ·-/		_ ··/		_ ·-/		_ ··/		·- ·/
a weapon (e.g., a gun, knife,													
or club) on school property ^{††}													
Overall	_	7.3	(+0.9)	8.4	(<u>+</u> 1.1)	7.4	(<u>+</u> 0.9)	7.7	(<u>+</u> 0.8)	8.9	(<u>+</u> 1.1)	9.2	(<u>+</u> 1.5)
Sex			. ,		·- ,		·- ,		. — ,		. — ,		,
Female	_	5.4	(±0.8)	5.8	(± 1.4)	4.0	(± 0.6)	5.8	(± 1.3)	6.5	(± 1.0)	6.5	(±1.2)
Male	_	9.2	(±1.3)	10.9	(<u>+</u> 1.2)	10.2	(<u>+</u> 1.4)	9.5	(<u>+</u> 1.6)	11.5	·— ,		(<u>+</u> 1.9)
Race/Ethnicity			_ /		·- /		(— /		\		(— /		— /
White, non-Hispanic	_	6.3	(<u>+</u> 1.1)	7.0	(<u>+</u> 1.0)	6.2	(<u>+</u> 1.1)	6.6	(± 0.7)	8.5	(±1.3)	7.8	(<u>+</u> 1.5) [¶]
Black, non-Hispanic	_	11.2	(<u>+</u> 1.8)	11.0	(+3.3)		(<u>+</u> 1.8)	7.6	(<u>+</u> 1.7)	9.3	·— ,	10.9	(<u>+</u> 1.6)**
Hispanic	_	8.6	(<u>+</u> 1.5)	12.4	(±3.2)		(<u>+</u> 1.2)	9.8	(<u>+</u> 2.1)	8.9	·— ,	9.4	(<u>+</u> 2.4)
Grade			(— /		·- /		(\		(— /		·— /
9th	_	9.4	(+1.8)	9.6	(+2.0)	10.1	(+2.0)	10.5	(+1.9)	12.7	(+1.7)	12.1	(+2.5) [¶]
10th	_	7.3	(±1.2)	9.6	(<u>+</u> 2.1)	7.9	·— ,		(±1.8)	9.1	·— ,	9.2	·— ,
11th	_		(+1.3)	7.7	·— ,	5.9	(+1.4)		(+0.9)	6.9	·— ,	7.3	(+1.4)**
12th	_		(<u>+</u> 1.2)	6.7	·— ,		(<u>+</u> 1.6)		(<u>+</u> 1.6)		(<u>+</u> 1.0)	6.3	(<u>+</u> 1.8)
Did not go to school because			(_ /		·— /		(— /		(— <i>)</i>		(- /		(— /
of safety concerns§													
Overall	_	4.4	(± 0.7)	4.5	(± 0.7)	4.0	(±0.6)	5.2	(±1.3)	6.6	(<u>+</u> 1.0)	5.4	(±0.8)¶
Sex			(,		(2011)		(2000)		(=/		(= /		(====)
Female	_	4.4	(+0.9)	4.3	(+1.1)	3.9	(+0.7)	5.7	(+1.5)	7.4	(+1.3)	5.3	(+1.0) [¶]
Male	_	4.3	(±0.8)	4.7	·— ,	4.1	(<u>+</u> 0.8)	4.8	(<u>+</u> 1.6)	5.8	·— ,	5.5	(<u>+</u> 1.0)
Race/Ethnicity			\ <i>/</i>		_ ··/		\·-/		<u> </u>		\— ··/		·— -/
White, non-Hispanic	_	3.0	(+0.7)	2.8	(+0.8)	2.4	(+0.6)	3.9	(+1.3)	5.0	(± 1.2)	3.1	(<u>+</u> 0.6)¶
Black, non-Hispanic	_	7.1	·— /	7.7	·— ,	6.8	(±1.5)	6.0	(+1.2)	9.8	·— ,	8.4	(<u>+</u> 1.2)
Hispanic	_	10.1	(±1.7)	8.5	(<u>+</u> 2.7)	7.2	(<u>+</u> 1.7)		(±3.3)	10.2	·— ,	9.4	(<u>+</u> 1.5)
Grade			(<u> </u>	0.0	(\—···/		(==.0)		()	٠	(<u> </u>
9th	_	6.1	(± 0.8)	5.6	(±1.6)	5.5	(±1.0)	7.0	(±1.8)	8.8	(±1.7)	6.9	(±1.2)
10th	_		(±0.0) (+1.4)	5.0	(±1.2)	4.0	·— ,	4.8	(<u>+</u> 1.4)	6.3	·— ,		(<u>+</u> 1.1)
11th	_		(±1.4) (±1.0)	4.1	(±1.2) (±1.0)	4.2	·— ,	4.5	(<u>+</u> 1.8)	5.9	·— ,	4.5	(±1.0)¶
12th	_		(±1.0)		(±1.0) (+1.0)		(± 1.7) (+0.8)		(±1.5)		(± 1.2) (± 0.7)		(±1.0)** (±1.1)
1201			<u> </u>		(<u>+</u> 1.0)		\ <u> </u>		·- /		<u> </u>		·- /

^{*} Linear and quadratic trend analyses were conducted by using a logistic regression model controlling for sex, race/ethnicity, and grade. Prevalence estimates shown here were not standardized by demographic variables.

[†] Confidence interval.

§ On ≥1 of the 30 days preceding the survey.

¶ Significant (p<0.05) linear effect.

** Significant quadratic effect.

^{††} One or more times during the 12 months preceding the survey. §§ Injuries had to be treated by a doctor or nurse.

Reported by: N Brener, PhD, R Lowry, MD, L Barrios, DrPH, Div of Adolescent and School Health, National Center for Chronic Disease Prevention and Health Promotion; T Simon, PhD, Div of Violence Prevention, National Center for Injury Prevention and Control; D Eaton, PhD, EIS Officer, CDC.

Editorial Note: The declines observed in weapon carrying and physical fighting, both in general and on school property, correspond with a decline in the national youth homicide rate (3). However, not all violent behaviors among youths are declining. The prevalence of being injured in a physical fight has remained stable for each subgroup. In addition, the prevalence of being threatened or injured with a weapon on school property increased among white and 9th-grade students and increased in recent years among black students.

The increasing prevalence of not going to school because of safety concerns might be attributed in part to the increases in students being threatened or injured with a weapon on school property as well as students' heightened sense of vulnerability after an increase in high-profile, school-associated, multiplevictim homicides during the 1990s (4,5). Efforts to establish physical and social environments that promote safety and prevent violence, such as those described in CDC's School Health Guidelines to Prevent Unintentional Injuries and Violence (6), are likely to reduce students' actual and perceived risk for violence. Prevention programs have been effective in helping young persons at high risk and their families acquire the knowledge, skills, and support needed to avoid violence (7,8).

The findings in this report are subject to at least two limitations. First, these data pertain only to youths who attended high school. Nationwide, among persons aged 16–17 years, approximately 6% were not enrolled in a high school program and had not completed high school (9). Second, the extent of underreporting or overreporting in YRBS cannot be determined; however, the survey questions demonstrate test/retest reliability (10).

Although the declines in violence-related behaviors are encouraging, prevention efforts must be sustained if the nation is to achieve its 2010 national health objectives. In 2003, one in three high school students reported involvement in a physical fight, and approximately one in 16 high school students reported carrying a weapon on school property. To further reduce violence-related behaviors among young persons and to have an impact on behaviors that are more resistant to change, continued efforts are needed to monitor these behaviors and to develop, evaluate, and disseminate effective prevention strategies.

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Racial/Ethnic Disparities in Neonatal Mortality — United States, 1989–2001

Neonatal mortality (i.e., death at age <28 days) accounts for approximately two thirds of infant deaths in the United States. During 1989–2001, neonatal mortality rates (NMRs) declined; however, 2002 preliminary data indicated an increase. To characterize trends in neonatal mortality by gestational age and race/ethnicity, CDC analyzed linked birth/infant death data sets for 1989-1991 and 1995-2001 (2002 linked data were not available). This report summarizes the results of that analysis, which indicated that 1) extremely preterm infants (i.e., born at <28 weeks' gestation) accounted for 49%–58% of neonatal deaths during 1989-2001 and 2) racial/ethnic disparities persisted despite NMR declines among infants of all gestational ages. Public health practitioners, researchers, and clinicians can use these results to determine the efficacy of prevention programs at a national level and consider new studies and programs aimed at reducing preterm births and NMR disparities among racial/ethnic populations.

The number of neonatal deaths was obtained from linked birth/infant death data sets for 1989–1991 and 1995–2001 from CDC's National Center for Health Statistics (1). These

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data sets link birth- and death-certificate files for infants aged <1 year who died in the United States*.

NMRs (i.e., deaths at age <28 days per 1,000 live births) among births to U.S. residents were stratified by gestational age and maternal race/ethnicity. Period of gestation was measured on the birth certificate from the first day of the last normal menstrual period to the day of birth. Births with unknown gestational age or implausible birthweight/gestational age combinations (2) accounted for <3% of births annually and were excluded from the gestational age-specific analysis. Births at <37 weeks' gestation were classified as preterm and further classified into <28, 28-31, and 32-36 weeks' gestation. Ethnicity was based on the mother's origin as Hispanic or non-Hispanic. For this report, whites, blacks, American Indians/Alaska Natives (AI/ANs), and Asians/Pacific Islanders (A/PIs) are all non-Hispanic. Log-linear-weighted least squares regression was used to estimate the average annual percentage change in mortality during 1989–2001 for gestational age and race/ethnicity.

During 1989–2001, neonatal mortality in the United States declined 25%, from 6.0 deaths per 1,000 live births to 4.5. In 1989 and 2001, NMRs were highest for blacks (11.5 and 8.9, respectively) and lowest for A/PIs (4.3 and 3.1, respectively) (Table 1). In 2001, the NMR for AI/ANs was 4.1; whites, 3.8; and Hispanics, 3.6. Average annual percentage decline in NMRs during 1989–2001 ranged from 1.9% (A/PIs) to 3.0% (AI/ANs).

In 1989 and 2001, preterm infants accounted for approximately 70% of all neonatal deaths. In 2001, preterm infants accounted for 84% of black neonatal deaths and 72%–75%

TABLE 1. Number and rate* of neonatal deaths† and average annual percentage decline, by maternal race/ethnicity — United States, 1989–2001

Maternal	198	89§	200	D1¶	Average annual % decline
race/ethnicity	No.	Rate	No.	Rate	1989–2001**
Non-Hispanic					
White	13,240	4.9	8,964	3.8	2.0
Black	7,630	11.5	5,280	8.9	2.1
American Indian/					
Alaska Native	237	6.3	161	4.1	3.0
Asian/Pacific Islander	557	4.3	603	3.1	1.9
Hispanic	2,762	5.2	3,052	3.6	2.8
Total	24,426	6.0	18,060	4.5	2.3

^{*} Per 1,000 live births.

^{*} Data for 1992–1994 were not analyzed because no national files linked deaths to births for those years.

[†] Deaths at age <28 days.

[§] Rates are based on unweighted birth cohort data.

[¶] Rates are based on period file by using unweighted data.

^{**} Estimated by using log-linear-regression models and data from 1989–1991 and 1995–2001.

of deaths among infants of other races/ethnicities. Extremely preterm infants accounted for 49% of neonatal deaths overall in 1989 and 58% in 2001. In addition, in 2001, extremely preterm infants accounted for 50%–54% of neonatal deaths among all racial/ethnic populations, except blacks, for whom they comprised 70% of neonatal deaths.

Among extremely preterm infants, NMRs were highest for AI/ANs in 1989 and whites in 2001 (Table 2). Among infants born at 28-31 weeks' gestation, NMRs were highest for whites. NMRs for whites also were highest among infants born at 32-36 weeks' gestation in 1989 but were second to NMRs for AI/ANs in 2001 (Table 2). During 1989-2001, the average annual percentage decline in NMRs among preterm gestational age groups in all racial/ethnic categories was lowest for infants born at <28 weeks' gestation (0.9%-2.5%), compared with infants born at 28–31 and 32–36 weeks' gestation (3.1%-6.4% and 2.3%-4.5%, respectively). Among each preterm group, average annual percentage declines in mortality were lower for blacks and A/PIs. Preterm white infants had greater percentage declines in mortality during this period; however, they continued to have higher NMRs compared with preterm infants of other races/ethnicities (Table 2).

In 1989 and 2001, NMRs among infants born at ≥37 weeks' gestation were highest among blacks and AI/ANs (Table 2). Average annual percentage declines were highest among AI/ANs (5.6%) and A/PIs (5.3%) and lowest for whites (3.0%). In 2001, NMRs within all racial/ethnic populations ranged from 0.7 to 1.2 (Table 2).

Reported by: SL Lukacs, DO, KC Schoendorf, MD, Office of Analysis and Epidemiology, National Center for Health Statistics, CDC.

Editorial Note: The findings in this report document a considerable decline in neonatal mortality among infants of all gestational ages and racial/ethnic populations during the 1990s; despite this decline, racial/ethnic disparities persisted. Implementation of new therapies and recommendations likely contributed to the decline; however, the effects of these advances might differ within racial/ethnic populations. The medical advances include 1) surfactant therapy, which improves infant lung maturity, resulting in a decreased risk for death for high-risk preterm infants (3); 2) folic acid consumption by women of childbearing age to reduce the risk for neural tube defects (4); and 3) intrapartum antimicrobial prophylaxis for women colonized with or at high risk for maternal-infant transmission of group B streptococcal infection (5,6).

In 2001, blacks continued to have the highest overall NMR, more than twice that of any other racial/ethnic population. The high rate among this population is likely attributable to a combination of high mortality among black infants born at ≥37 weeks' gestation (full-term infants account for approxi-

TABLE 2. Number and rate* of neonatal deaths† and average annual percentage decline, by gestational age and maternal race/ethnicity — United States, 1989–2001

race/ethinoity — Office		, 1303			Average
Gestational age/	198	RO§	200	141	annual
Maternal race/ethnicity	No.	Rate	No.	Rate	% decline 1989–2001**
<28 weeks					
Non-Hispanic					
White	5,850	528.3	4,812	404.2	2.1
Black	4,540	439.0	3,702	376.1	1.2
American Indian/	100	561.8		354.3	2.5
Alaska Native					
Asian/Pacific Islander	199	446.2	312	381.0	0.9
Hispanic	1,231	481.6	1,563	354.7	2.2
Total	11,920	484.7	10,468	384.9	1.8
28-31 weeks					
Non-Hispanic					
White	1,494	78.0	829	40.4	5.4
Black	766	51.7	381	32.8	3.1
American Indian/	25	69.1††	11	—§§	6.4
Alaska Native					
Asian/Pacific Islander	50	55.1	41	26.9 ¹	†† 3.9
Hispanic	278	61.2	263	35.5	3.8
Total	2,613	65.7	1,525	36.8	4.4
32-36 weeks					
Non-Hispanic					
White	1,629	8.9	1,090	5.1	4.5
Black	539	5.9	336	4.3	2.6
American Indian/	21	5.9††	27	6.4	†† 2.7
Alaska Native					
Asian/Pacific Islander	78	7.2	80	4.7	2.3
Hispanic	319	6.7	377	4.7	3.4
Total	2,586	7.7	1,910	4.9	3.8
≥37 weeks					
Non-Hispanic					
White	3,204	1.3	1,845	0.9	3.0
Black	967	1.8	597	1.2	3.4
American Indian/	70	2.1	34	1.0	^{††} 5.6
Alaska Native					
Asian/Pacific Islander	164	1.4	124	0.7	5.3
Hispanic	623	1.3	615	0.8	4.0
Total	5,028	1.4	3,215	0.9	3.3

- * Per 1,000 live births.
- Deaths at age <28 days.
- Rates are based on unweighted birth cohort data.
- Rates are based on period file by using unweighted data.
- ** Estimated by using log-linear–regression models and data from 1989–1991 and 1995–2001.
- Estimates are considered highly variable. Rates are based on <50 deaths.

Rates not shown are based on <20 deaths.

mately 90% of all births) and a high proportion of preterm births (17.6% black preterm births versus 10.8% white preterm births) (7).

Preterm white infants had higher NMRs in 2001, compared with other racial/ethnic populations, despite a greater rate of decline in mortality. Although black preterm infants had lower NMRs in 2001, the annual rate of decline was lower than among other racial/ethnic populations. The narrowing gap in mortality between preterm white infants and preterm black

infants might reflect the widened distribution of neonatal intensive care in the 1990s beyond urban tertiary-care centers and a possible difference in benefit from surfactant therapy between black and white infants (8).

Differences in neonatal mortality trends among racial/ ethnic populations also might be explained by changing patterns in the occurrence of multiple births (9). The rate of multiple births has increased substantially over the preceding decade, and trends vary among infants of different races/ ethnicities. Further analysis examining these differences is needed.

The findings in the report are subject to at least four limitations. First, although greater declines in mortality were found among AI/ANs, the number of infants in this population is small, and trends should be interpreted with caution. Second, NMRs for AI/ANs might be underestimated because of underreporting of very low birthweight infants born on reservations (10). Third, gestational age reporting on birth certificate data might be misclassified; however, exclusion of implausible birthweight/gestational age combinations reduces the impact of this limitation. Finally, NMRs during 1995–2001 might vary from reported U.S. vital statistics rates during 1995–2001, which used weighted data to adjust for unlinked infant deaths. To be consistent with data during 1989–1991, unweighted data were used for this trend analysis.

Approximately half of all neonatal mortality occurred in infants born at <28 weeks' gestation, and the percentage has increased over the preceding decade. This increasing trend deserves more detailed analysis and suggests that prevention of these extremely preterm births will contribute to reducing neonatal mortality in the future.

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National, State, and Urban Area Vaccination Coverage Among Children Aged 19–35 Months — United States, 2003

Each annual birth cohort in the United States comprises approximately 4 million infants. Maintaining the gains in vaccination coverage achieved during the 1990s among these children poses a continuing challenge for public health practitioners. The National Immunization Survey (NIS) provides estimates of vaccination coverage among children aged 19-35 months for each of the 50 states and 28 selected urban areas*. This report summarizes NIS results for 2003[†], which indicated substantial increases nationwide in coverage with ≥1 dose of varicella vaccine (VAR) and ≥3 doses of pneumococcal conjugate vaccine (PCV) and the highest coverage ever for all vaccines; however, wide variability in coverage continues among states and urban areas. Continued vigilance is needed to maintain high levels of coverage, and sustained efforts will be required to reduce geographic disparities in coverage.

To collect vaccination data for all age-eligible children, NIS uses a quarterly random-digit—dialing sample of telephone numbers for each of the 78 survey areas. NIS methodology, including the weighting of responses to represent the population of children aged 19–35 months, has been described previously (1,2). During 2003, health-care provider vaccination records were obtained for 21,210 children. The overall response rate for eligible households was 62.7%.

National vaccination coverage with ≥ 1 dose of VAR increased from 80.6% (95% confidence interval [CI] = ± 0.9 %) in 2002

-June 2002.

^{*} Jefferson County, Alabama; Maricopa County, Arizona; Los Angeles, San Diego, and Santa Clara counties, California; District of Columbia; Miami-Dade and Duval counties, Florida; Fulton/DeKalb counties, Georgia; Chicago, Illinois; Marion County, Indiana; Orleans Parish, Louisiana; Baltimore, Maryland; Boston, Massachusetts; Detroit, Michigan; Newark, New Jersey; New York, New York; Cuyahoga and Franklin counties, Ohio; Philadelphia County, Pennsylvania; Davidson and Shelby counties, Tennessee; Bexar, Dallas, and El Paso counties, and Houston, Texas; King County, Washington; and Milwaukee County, Wisconsin. † For the 2003 reporting period, NIS included children born during February 2000

to 84.8% (95% CI = $\pm 0.8\%$) in 2003. Coverage for ≥ 3 doses of PCV increased from 40.9% (95% CI = $\pm 1.1\%$) in 2002 to 68.1% (95% CI = $\pm 1.0\%$) in 2003. Coverage for ≥ 4 doses of PCV, reported for the first time in 2003, was 36.7% (95% CI = $\pm 1.1\%$). For all other vaccines and series, coverage increased in 2003 compared with 2002 (Table 1).

In 2003, substantial differences remained in estimated vaccination coverage among states (Table 2). Estimated coverage with the 4:3:1:3:3 series ranged from 94.0% in Connecticut to 67.5% in Colorado. The range in coverage among the 28 urban areas was less than that among the states. Among the 28 urban areas, the highest estimated coverage for the 4:3:1:3:3 series was 88.8% in Boston, Massachusetts, and the lowest was 69.2% in Houston, Texas.

Reported by: L Barker, PhD, J Santoli, MD, Immunization Svcs Div; M McCauley, MTSC, Office of the Director, National Immunization Program, CDC.

Editorial Note: The findings in this report indicate that among U.S. children aged 19–35 months, estimated coverage with recommended vaccines was greater in 2003 than in 2002 and represented all-time highs. In addition, coverage for the two most recently recommended vaccines, VAR and PCV, increased substantially. The increases in coverage reflect ongoing progress toward achieving the 2010 national health objectives for child-hood vaccinations (objectives 14-22 to 14-24) (3). Notably, vaccine coverage for the fourth dose of diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine continues to lag behind other vaccines in the 4:3:1:3:3 series, reducing the coverage percentage for the overall series.

Continued vigilance is needed to maintain high levels of coverage. Moreover, increasing coverage in areas where coverage is low remains a priority to reduce the risk for infection and ongoing transmission if disease is introduced.

TABLE 1. Estimated vaccination coverage among children aged 19–35 months, by selected vaccines and dosages — National Immunization Survey, United States, 1999–2003

	1999*	2000 [†]	2001§	2002¶	2003**
Vaccine	% (95% CI ^{††})	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
DTP/DT/DTaP§§					
≥3 doses	95.9 (±0.4)	94.1 (±0.5)	94.3 (±0.5)	94.9 (±0.6)	96.0 (±0.5)
≥4 doses	83.8 (±0.8)	81.7 (±0.8)	82.1 (±0.8)	81.6 (±0.9)	84.8 (±0.8)
Poliovirus ≥3 doses	89.6 (±0.6)	89.5 (±0.6)	89.4 (±0.7)	90.2 (±0.7)	91.6 (±0.7)
Hib ^{¶¶} ≥3 doses	93.5 (±0.5)	93.4 (±0.5)	93.0 (±0.6)	93.1 (±0.6)	93.9 (±0.6)
MMR*** ≥1 dose	91.5 (±0.6)	90.5 (±0.6)	91.4 (±0.6)	91.6 (±0.7)	93.0 (±0.6)
Hepatitis B ≥3 doses	88.1 (±0.7)	90.3 (±0.6)	88.9 (±0.7)	89.9 (±0.7)	92.4 (±0.6)
Varicella ≥1 dose	57.5 (±1.0)	67.8 (±0.9)	76.3 (±0.8)	80.6 (±0.9)	84.8 (±0.8)
PCV ^{†††}					
≥3 doses	_	_	_	40.9 (±1.1)	68.1 (±1.0)
≥4 doses	_	_	_		36.7 (±1.1)
Combined series					
4:3:1 ^{§§§}	79.9 (±0.8)	77.6 (±0.9)	78.6 (±0.9)	78.5 (±1.0)	82.2 (±0.9)
4:3:1:3¶¶¶	78.4 (±0.9)	76.2 (±0.9)	77.2 (±0.9)	77.5 (±1.0)	81.3 (±0.9)
4:3:1:3:3****	73.2 (±0.9)	72.9 (±0.9)	73.7 (±0.9)	74.8 (±1.0)	79.4 (±0.9)
4:3:1:3:3:1 ^{††††}	<u>—</u>	54.1 (±1.0)	61.3 (±1.0)	65.5 (±1.1)	72.5 (±1.0)

^{*} Born during February 1996–June 1998.

[§] Comprises ≥4 doses of diphtheria and tetanus toxoids and pertussis vaccine, diphtheria and tetanus toxoids, and diphtheria and tetanus toxoids and acellular pertussis (DTP/DT/DTaP) vaccine; ≥3 doses of poliovirus vaccine; ≥1 dose of measles-containing vaccine (MCV); ≥3 doses of *Haemophilus influenzae* type B vaccine (Hib); and ≥3 doses of hepatitis B vaccine (hep B).

Born during February 1997–June 1999.

Born during February 1998–June 2000.

[¶] Born during February 1999–June 2001.

^{**} Born during February 2000–June 2002.

Confidence interval.

SS Diphtheria and tetanus toxoids and pertussis vaccine, diphtheria and tetanus toxoids, and diphtheria and tetanus toxoids and acellular pertussis vaccine.

Haemophilus influenzae type b.

^{***} Measles, mumps, and rubella vaccine.

TTT Pneumococcal conjugate vaccine.

^{§§§} Comprises ≥4 doses of DTP/DT/DTaP, ≥3 doses of poliovirus vaccine, and ≥1 dose of measles-containing vaccine.

^{4:3:1} plus ≥3 doses of Hib vaccine.

^{**** 4:3:1:3} plus ≥3 doses of hepatitis B vaccine.

^{4:3:1:3:3} plus ≥1 dose of varicella vaccine.

TABLE 2. Estimated vaccination coverage levels with 4:3:1*, 4:3:1:3[†], 4:3:1:3:3[§], and 4:3:1:3:3:1[¶] series among children aged 19–35 months, by state and selected urban area — National Immunization Survey, United States, 2003

	4	:3:1	4:3	3:1:3	4:3:	1:3:3	4:3:	1:3:3:1
Area	% (95% CI**)	%	(95% CI)	%	(95% CI)	%	(95% CI)
United States	82.2	(<u>+</u> 0.9)	81.3	(<u>+</u> 0.9)	79.4	(<u>+</u> 0.9)	72.5	(<u>+</u> 1.0)
Alabama	82.7	(<u>+</u> 4.8)	82.2	(<u>+</u> 4.9)	80.4	(<u>+</u> 5.0)	79.1	(<u>+</u> 5.0)
Jefferson County	83.7	(<u>+</u> 5.3)	83.1	(<u>+</u> 5.4)	80.6	(<u>+</u> 5.6)	78.6	(<u>+</u> 5.7)
Alaska	81.9	(<u>+</u> 5.0)	81.4	(<u>+</u> 5.1)	79.7	(<u>+</u> 5.2)	72.9	(<u>+</u> 5.7)
Arizona	78.9	(<u>+</u> 3.9)	78.8	(<u>+</u> 3.9)	76.9	(<u>+</u> 4.0)	68.4	(<u>+</u> 4.4)
Maricopa County	79.8	(<u>+</u> 5.2)	79.8	(<u>+</u> 5.2)	77.4	(<u>+</u> 5.3)	69.3	(<u>+</u> 5.8)
Arkansas	79.7	(<u>+</u> 6.0)	79.5	(<u>+</u> 6.0)	76.5	(<u>+</u> 6.4)	74.5	(<u>+</u> 6.6)
California	81.2	(<u>+</u> 3.4)	79.6	(<u>+</u> 3.5)	77.4	(<u>+</u> 3.6)	75.6	(<u>+</u> 3.7)
Los Angeles County	84.8	(<u>+</u> 4.9)	83.5	(<u>+</u> 5.0)	80.3	(<u>+</u> 5.4)	79.1	(<u>+</u> 5.5)
San Diego County	83.1	(±5.7)	81.1	(<u>+</u> 6.1)	79.2	(<u>+</u> 6.2)	75.2	(±6.6)
Santa Clara County	87.1	(<u>+</u> 4.8)	84.8	(<u>+</u> 5.1)	83.6	(<u>+</u> 5.3)	77.3	(±5.9)
Colorado	69.6	(<u>+</u> 6.4)	68.6	(<u>+</u> 6.4)	67.5	(<u>+</u> 6.4)	63.0	(±6.6)
Connecticut	95.0	(<u>+</u> 2.7)	94.6	(<u>+</u> 2.8)	94.0	(<u>+</u> 2.9)	89.1	(<u>+</u> 3.9)
Delaware	80.1	(±6.3)	79.6	(±6.3)	76.3	(± 6.6)	66.1	(± 7.0)
District of Columbia	80.5	(±6.3)	77.2	(± 6.5)	76.2	(±6.5)	71.9	(±6.8)
Florida	83.8	(±4.3)	82.7	(+5.0)	81.0	(+ 5.1)	73.7	(<u>+</u> 5.5)
Miami-Dade County	84.7	(<u>+</u> 4.9)	83.2	(<u>+</u> 5.1)	81.5	(<u>+</u> 5.2)	73.1	(<u>+</u> 5.9)
Duval County	81.9	(<u>+</u> 6.2)	81.4	(<u>+</u> 6.2)	80.2	(<u>+</u> 6.3)	75.3	(<u>+</u> 6.6)
Georgia	77.1	(+6.4)	76.6	(+6.4)	76.6	(+6.4)	74.6	(<u>+</u> 6.5)
Fulton/DeKalb counties	77.9	(+5.7)	75.4	(+5.9)	75.3	(+5.9)	71.2	(<u>+</u> 6.2)
Hawaii	83.3	(+4.7)	82.8	(<u>+</u> 4.8)	82.0	(<u>+</u> 4.9)	78.7	(<u>+</u> 5.4)
Idaho	82.5	(+5.4)	81.6	(±5.5)	78.1	(±5.9)	61.4	(±6.8)
Illinois	84.9	(±3.9)	84.6	(<u>+</u> 3.9)	82.9	(±4.1)	69.1	(±5.1)
Chicago	77.8	(<u>+</u> 7.2)	76.8	(<u>+</u> 7.2)	76.0	(<u>+</u> 7.2)	71.3	(±7.3)
Indiana	82.0	(±5.7)	81.7	(±5.7)	79.0	(<u>+</u> 5.9)	62.3	(±6.8)
Marion County	80.2	(±5.5)	79.2	(±5.6)	75.1	(±6.0)	65.9	(±6.3)
Iowa	84.5	(±5.0)	82.6	(±5.3)	81.1	(<u>+</u> 5.5)	63.4	(±6.7)
Kansas	78.1	(<u>+</u> 6.0)	77.7	(<u>+</u> 6.0)	75.7	(<u>+</u> 6.1)	62.8	(<u>+</u> 6.6)
Kentucky	82.7	(±6.2)	81.2	(<u>+</u> 6.6)	81.0	(±6.6)	78.5	(±6.7)
Louisiana	72.7	(<u>+</u> 5.5)	72.4	(±5.6)	69.9	(±5.7)	64.7	(<u>+</u> 5.8)
Orleans Parish	74.8	(<u>+</u> 7.2)	74.3	(±7.2)	73.3	(±7.3)	68.4	(±7.7)
Maine	84.1	(<u>+</u> 5.0)	81.8	(±5.2)	78.6	(<u>+</u> 5.4)	68.6	(<u>+</u> 6.0)
Maryland	84.6	(±5.3)	84.3	(±5.2)	81.3	(±5.4)	77.4	(±5.9)
Baltimore	81.4	(<u>+</u> 6.1)	80.9	(<u>+</u> 6.1)	77.4	(±6.4)	74.3	(±6.6)
Massachusetts	92.5	(<u>+</u> 3.1)	91.7	(<u>+</u> 3.2)	90.7	(<u>+</u> 3.4)	82.5	(<u>+</u> 4.8)
Boston	90.1	(<u>+</u> 4.5)	90.1	(<u>+</u> 4.5)	88.8	(<u>+</u> 4.7)	85.7	(<u>+</u> 5.2)
Michigan	83.3	(±4.7)	82.9	(<u>+</u> 4.8)	81.5	(<u>+</u> 4.7)	78.6	(±5.0)
Detroit	70.7	(±7.7)	70.5	(±7.7)	69.6	(±7.7)	64.1	(<u>+</u> 8.1)
Minnesota	85.3	(<u>+</u> 5.2)	84.4	(<u>+</u> 5.4)	83.9	(<u>+</u> 5.5)	70.7	(<u>+</u> 6.9)
Mississippi	84.0	(<u>+</u> 5.2)	84.0	(<u>+</u> 5.4)	83.6	(<u>+</u> 5.9)	78.2	(<u>+</u> 6.3)
Missouri	84.9	(<u>+</u> 4.8)	84.2	(<u>+</u> 4.9)	83.3	(±5.0)	74.4	(±5.7)
Montana	84.9	(±4.6)	84.6	(±4.6)	80.0	(±5.3)	64.7	(±6.2)
Nebraska	82.7	·— ,		(<u>+</u> 5.6)	80.4	(<u>+</u> 5.7)		(<u>+</u> 6.9)
Nevada					75.7	(± 5.7) (± 5.7)	65.5	(±6.3)
New Hampshire	78.1 88.8	(<u>+</u> 5.5) (<u>+</u> 4.1)	78.1 88.4	(<u>+</u> 5.5) (<u>+</u> 4.1)	86.5	(± 3.7) (± 4.4)	76.1	
New Jersey	77.0	(±4.1) (+5.9)	75.8	. ,	75.0	(±4.4) (±6.1)	63.6	(<u>+</u> 5.5) (<u>+</u> 6.8)
•		·- /		(<u>+</u> 6.1) (<u>+</u> 6.4)		1 1		. ,
Newark	74.4 77.6	(<u>+</u> 6.4)	74.0	· /	72.7	(±6.5)	64.4	(±6.9)
New Mexico	77.6	(±6.5)	77.0	(±6.6)	75.2	(±6.8)	70.8	(±7.2)
New York	83.5	(±3.7)	81.9	(±3.9)	78.6	(±4.2)	73.1	(±4.5)
New York City	80.1	(<u>+</u> 5.7)	77.2	(<u>+</u> 6.1)	72.7	(<u>+</u> 6.7)	69.3	(<u>+</u> 6.8)
North Carolina	89.4	(<u>+</u> 4.3)	88.6	(<u>+</u> 4.4)	86.7	(<u>+</u> 4.6)	77.3	(<u>+</u> 5.7)
North Dakota	82.5	(±5.7) ia and tetar	82.5	(<u>+</u> 5.7)	80.4	(<u>+</u> 5.9)	63.1	(<u>+</u> 6.7)

^{*} Comprises ≥4 doses of diphtheria and tetanus toxoids and pertussis vaccine, diphtheria and tetanus toxoids, and diphtheria and tetanus toxoids and acellular pertussis vaccine, ≥3 doses of poliovirus vaccine, and ≥1 dose of measles-containing vaccine.

The findings in this report are subject to at least three limitations. First, NIS is a telephone survey; although statistical weights adjust for nonresponse and households without telephones, some bias might remain. Second, NIS relies on provider-verified vaccination histories and assumes that coverage among children whose providers did not respond is similar to that among children whose providers responded; incomplete records and reporting could result in underestimates of coverage. Finally, although national estimates are precise, estimates for states and urban areas should be interpreted with caution (4).

Shortages in the supplies of several vaccines used for routine childhood vaccination began in late 2000. Most of these shortages (i.e., DTaP; measles, mumps, and rubella [MMR]; VAR; and combined tetanus and diphtheria toxoids [Td]) ended during 2002; however, a shortage of PCV continued until May 2003 (and was followed by a new PCV shortage in 2004). Although children in the 2003 cohort were eligible to receive one or more vaccines during the shortages, the data in this report do not indicate a negative impact of the vaccine shortage on vaccination coverage of DTaP or MMR at a national level. The effect of the shortage on the rate of increase in usage of VAR or PCV is unknown.

Additional analyses of NIS data are necessary to define the impact of the vaccine supply shortages. A previous analysis focused on the timeliness of vaccination with the third and fourth doses of DTaP and the first dose of MMR for children included in the 2001 and 2002 NIS (5). Among children vaccinated only at public clinics or who resided outside metropolitan statistical areas or in the Southern United States census region, those eligible to receive the fourth dose of DTaP during the

^{† 4:3:1} plus ≥3 doses of *Haemophilus influenzae* type b vaccine.

^{§ 4:3:1:3} plus ≥3 doses of hepatitis B vaccine.

^{¶ 4:3:1:3:3} plus ≥1 doses of varicella vaccine.

^{**} Confidence interval.

TABLE 2. (*Continued*) Estimated vaccination coverage levels with 4:3:1*, 4:3:1:3[†], 4:3:1:3:3[§], and 4:3:1:3:3:1[¶] series among children aged 19–35 months, by state and selected urban area — National Immunization Survey, United States, 2003

	4:	:3:1	4:	3:1:3	4:	3:1:3:3	4:3	:1:3:3:1
Area	% (9	5% CI**)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Ohio	84.4	(<u>+</u> 4.2)	84.2	(<u>+</u> 4.2)	82.3	(<u>+</u> 4.3)	71.0	(<u>+</u> 5.2)
Cuyahoga County	76.2	(<u>+</u> 7.7)	75.1	(<u>+</u> 7.7)	73.0	(<u>+</u> 7.7)	65.9	(<u>+</u> 7.8)
Franklin County	82.9	(<u>+</u> 5.7)	82.9	(<u>+</u> 5.7)	81.8	(<u>+</u> 5.7)	70.7	(<u>+</u> 6.5)
Oklahoma	73.7	(<u>+</u> 7.0)	72.3	(<u>+</u> 7.1)	70.5	(<u>+</u> 7.2)	67.0	(±7.3)
Oregon	79.9	(<u>+</u> 5.7)	79.3	(<u>+</u> 5.8)	76.5	(<u>+</u> 6.1)	70.3	(<u>+</u> 6.4)
Pennsylvania	87.7	(<u>+</u> 4.0)	86.9	(<u>+</u> 4.1)	86.2	(<u>+</u> 4.1)	79.1	(<u>+</u> 4.9)
Philadelphia County	81.3	(<u>+</u> 5.5)	80.0	(<u>+</u> 5.6)	77.2	(<u>+</u> 5.9)	75.2	(± 6.0)
Rhode Island	88.9	(<u>+</u> 4.7)	87.3	(<u>+</u> 4.9)	85.2	(<u>+</u> 5.2)	79.8	(<u>+</u> 6.0)
South Carolina	85.5	(<u>+</u> 5.1)	84.6	(<u>+</u> 5.2)	84.3	(<u>+</u> 5.2)	80.3	(<u>+</u> 5.7)
South Dakota	83.4	(<u>+</u> 5.6)	83.4	(<u>+</u> 5.6)	80.9	(<u>+</u> 5.8)	60.0	(<u>+</u> 7.1)
Tennessee	81.1	(<u>+</u> 4.4)	80.5	(±4.5)	78.8	(± 4.6)	73.5	(±4.8)
Davidson County	83.2	(<u>+</u> 5.4)	82.7	(<u>+</u> 5.4)	79.6	(<u>+</u> 5.8)	76.0	(<u>+</u> 6.0)
Shelby County	78.6	(<u>+</u> 5.6)	77.2	(<u>+</u> 5.8)	76.9	(<u>+</u> 5.8)	68.9	(<u>+</u> 6.2)
Texas	78.1	(<u>+</u> 3.8)	77.2	(±3.8)	74.8	(<u>+</u> 3.9)	69.8	(<u>+</u> 4.1)
Bexar County	79.1	(<u>+</u> 6.1)	78.8	(± 6.2)	77.3	(<u>+</u> 6.2)	74.9	(± 6.3)
City of Houston	74.8	(<u>+</u> 5.7)	74.8	(<u>+</u> 5.7)	69.2	(<u>+</u> 6.2)	63.3	(<u>+</u> 6.4)
Dallas County	75.9	(<u>+</u> 5.9)	74.9	(<u>+</u> 5.9)	70.2	(<u>+</u> 6.1)	67.0	(<u>+</u> 6.2)
El Paso County	81.6	(<u>+</u> 5.7)	80.9	(<u>+</u> 5.7)	77.2	(<u>+</u> 6.1)	71.6	(± 6.5)
Utah	80.4	(<u>+</u> 5.7)	80.2	(<u>+</u> 5.7)	78.8	(<u>+</u> 5.9)	70.1	(<u>+</u> 6.7)
Vermont	89.7	(<u>+</u> 3.9)	89.5	(<u>+</u> 3.9)	83.6	(<u>+</u> 4.8)	65.3	(<u>+</u> 6.2)
Virginia	85.8	(<u>+</u> 5.2)	84.8	(± 5.3)	84.0	(<u>+</u> 5.4)	79.8	(<u>+</u> 5.7)
Washington	81.0	(<u>+</u> 4.3)	79.7	(± 4.3)	75.3	(± 4.6)	56.2	(<u>+</u> 5.1)
King County	83.8	(<u>+</u> 5.1)	83.1	(<u>+</u> 5.2)	77.1	(<u>+</u> 6.0)	61.2	(± 7.0)
West Virginia	78.9	(<u>+</u> 7.0)	77.4	(± 7.2)	74.6	(± 7.4)	63.2	(<u>+</u> 7.8)
Wisconsin	83.6	(<u>+</u> 4.3)	82.7	(±4.3)	81.2	(<u>+</u> 4.5)	73.4	(<u>+</u> 5.0)
Milwaukee County	82.3	(<u>+</u> 6.0)	80.9	(<u>+</u> 6.1)	78.9	(<u>+</u> 6.3)	71.1	(<u>+</u> 6.9)
Wyoming	77.2	(<u>+</u> 5.5)	77.2	(<u>+</u> 5.5)	75.8	(<u>+</u> 5.6)	56.8	(<u>+</u> 6.6)

^{*} Comprises ≥4 doses of diphtheria and tetanus toxoids and pertussis vaccine, diphtheria and tetanus toxoids, and diphtheria and tetanus toxoids and acellular pertussis vaccine, ≥3 doses of poliovirus vaccine, and ≥1 dose of measles-containing vaccine.

shortage were less likely to receive it than those who were eligible at some time other than the shortage. No adverse impact on coverage during the shortages was determined for the third dose of DTaP or the first dose of MMR. In addition, a supplementary NIS survey module is being conducted during 2004 to assess parental reports of deferral of vaccination during the shortages and receipt of recall messages from providers. Given the most recent PCV shortage, which began early in 2004 and has begun to resolve (6–8), and the likelihood that vaccine shortages will continue to occur (9,10), further analyses will be necessary to develop strategies to manage future vaccine supply shortages.

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West Nile Virus Activity — United States, July 21–27, 2004

During July 21–27, a total of 83 cases of human West Nile virus (WNV) illness were reported from 13 states (Alabama, Arizona, Arkansas, California, Colorado, Florida, Illinois, Iowa, Missouri, New Mexico, Ohio, Pennsylvania, and South Dakota).

During 2004, a total of 265 cases of human West Nile virus illness have been reported through ArboNET from a total of 18 states (Table, Figure). Of these, 161 (61%) cases were reported from Arizona. A total of 143 (56%) of the 265 cases occurred in males; the median age of patients was 50 years (range: 1–85 years). Illness onset ranged from April 23 to July 23; six cases were fatal.

A total of 28 presumptive West Nile viremic blood donors (PVDs) have been reported in 2004 to ArboNET. Of these,

^{† 4:3:1} plus ≥3 doses of *Haemophilus influenzae* type b vaccine.

^{§ 4:3:1:3} plus ≥3 doses of hepatitis B vaccine.

^{¶ 4:3:1:3:3} plus \geq 1 doses of varicella vaccine.

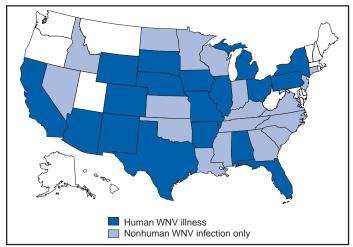
^{**} Confidence interval.

TABLE. Number of human cases of West Nile virus (WNV) illness, by state — United States, 2004 *

State	Neuroinvasive disease [†]	West Nile fever§	Other clinical/ unspecified [¶]	Total reported to CDC**	Deaths
Alabama	0	0	1	1	0
Arizona	92	24	45	161	2
Arkansas	1	2	0	3	0
California	18	19	5	42	1
Colorado	5	25	0	30	0
Florida	4	2	0	6	0
Illinois	0	0	1	1	0
Iowa	1	2	0	3	1
Michigan	1	0	0	1	0
Missouri	1	0	0	1	0
Nebraska	0	1	0	1	0
New Mexico	1	4	0	5	0
New York	1	0	0	1	0
Ohio	1	0	0	1	1
Pennsylvania	ı 1	0	0	1	0
South Dakota		3	0	4	0
Texas	2	0	0	2	1
Wyoming	0	1	0	1	0
Total	130	83	52	265	6

- * As of July 27, 2004.
- [†] Cases with neurologic manifestations (i.e., West Nile meningitis, West Nile encephalitis, and West Nile myelitis).
- § Cases with no evidence of neuroinvasion.
- ¶ Illnesses for which sufficient clinical information was not provided.
- ** Total number of human cases of WNV illness reported to ArboNet by state and local health departments.

FIGURE. Areas reporting West Nile virus (WNV) activity — United States, 2004*



^{*} As of 3 a.m., Mountain Standard Time, July 27, 2004.

26 (93%) were reported from Arizona, and one each from Iowa and New Mexico. Of the 28 PVDs, two persons aged 66 and 69 years subsequently had neuroinvasive illness, and five persons (median age: 52 years [range: 22–63 years]) subsequently had West Nile fever.

In addition, during 2004, a total of 1,513 dead corvids and 162 other dead birds with WNV infection have been reported

from 32 states. WNV infections in horses have been reported from 16 states (Alabama, Arizona, California, Florida, Idaho, Kentucky, Mississippi, Missouri, Nevada, North Carolina, Oklahoma, South Dakota, Tennessee, Texas, Virginia, and Wyoming) and in a dog from New Mexico. WNV seroconversions have been reported in 209 sentinel chicken flocks from four states (Arizona, California, Florida, and Louisiana) and in a wild hatchling bird from Ohio. Three seropositive sentinel horses were reported from Puerto Rico. A total of 1,030 WNV-positive mosquito pools have been reported from 18 states (Arizona, Arkansas, California, Georgia, Illinois, Indiana, Louisiana, Michigan, Missouri, Nevada, New Jersey, New Mexico, Ohio, Pennsylvania, South Dakota, Tennessee, Texas, and Virginia).

Additional information about national WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and at http://westnilemaps.usgs.gov.

Notice to Readers

Inadvertent Intradermal Administration of Tetanus Toxoid–Containing Vaccines Instead of Tuberculosis Skin Tests

CDC and the Food and Drug Administration (FDA) have been notified about the potential for inadvertent administration of tetanus toxoid–containing vaccines (TTCVs) instead of tuberculin purified protein derivative (PPD) (Tubersol®, Aventis-Pasteur, Swiftwater, Pennsylvania; Aplisol®, Parkedale Pharmaceuticals, Rochester, Michigan) used for tuberculosis skin tests (TSTs). The Vaccine Adverse Event Reporting System (VAERS), a passive surveillance system jointly operated by CDC and FDA (1), detected clusters of medication errors in at least two states. These findings, along with another previously reported investigation involving the same error (2), suggest the need for health-care providers to take additional steps to minimize the risk for inadvertent intradermal injections of TTCVs.

In April 2004, five reports of medication error involving tetanus toxoid (TT) from a health-care provider were identified. Patients were vaccinated on three different dates; all experienced local reactions without complications. Another cluster reported to VAERS in June 2003 involved an undisclosed number of patients; a health-care provider confused tetanus and diphtheria toxoids (Td) vaccine for adult use (adsorbed) with PPD and administered Td intradermally. Patients with adverse reactions to these administrations had skin reactions interpreted as positive TSTs, which resulted in treatment with isoniazid (INH). Review of the lot numbers on products thought to be PPD revealed they were Td.

trust-wor-thy: adj

('trəst-"wər-thē) 1: worthy of belief

2 : capable of being depended upon;

see also MMWR.

know what matters.



Affected patients were identified and retested with PPD; all TSTs were negative. INH was discontinued, and no adverse reactions were observed.

As of March 2004, approximately 100 patients had been identified in reports of TTCV administration instead of PPD. A total of 21 states have reported both clusters and single cases. Vaccines substituted mistakenly for PPD include Td (n = 13 reports), TT (n = 12), and diphtheria and tetanus toxoids, (DT) adsorbed (n = five). For reports of Td, TT, and DT, products involved included those manufactured by Aventis-Pasteur and Wyeth (Collegeville, Pennsylvania) and vaccines from other unspecified manufacturers. CDC and FDA have initiated a full review of adverse events caused by inadvertent administration of vaccines and PPD products reported to VAERS and the FDA MedWatch Program. A preliminary review indicates that multiple vaccines other than TTCVs have been involved.

Similarities in packaging of PPD and TTCVs might have contributed to the medication errors (3,4). Both products require refrigeration and often are stored side by side. Lack of availability of Td in single-dose syringes, resulting in provider purchase of multiple-dose vials, was cited as a contributing factor to medication error in one cluster. Conversely, at least eight reports have been documented of inadvertent substitution for vaccine products, resulting in intramuscular administration of PPD (FDA, unpublished data, 2004).

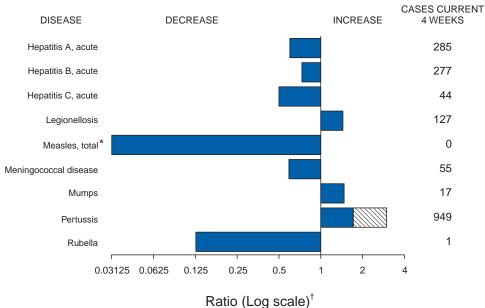
Health-care providers should consider ways to prevent vaccine misadministration. As more vaccines and combination products become available, the potential for medication errors might increase. Possible measures to prevent misadministration should include pharmacy dispensing of vaccines when feasible, physical separation of products, careful visual inspection and reading of labels, preparation of PPD for

patient use only at time of testing, and improved record keeping of lot numbers of vaccines and other injectable products. Prevention of such errors through barcode scanning technology is the goal of a recent FDA rule requiring individual drug packages to have identifying barcodes (5). For health-care facilities that possess such technology, package scanning could help prevent errors made during pharmacy dispensing of products or during vaccine or PPD administration. In addition, the Product Identification Guide for Routine Vaccines is a helpful resource for distinguishing commonly used vaccine products; the guide can be ordered from the California Department of Health Services, telephone 619-594-5933. Adverse events associated with inadvertent vaccine administration can be reported to VAERS at http://www.vaers.org or by telephone, 800-822-7967. Adverse events after PPD administration can be reported to the FDA MedWatch program at http://www. fda.gov/medwatch or by telephone, 800-332-1088.

References

- 1. Chen RT, Rastogi SC, Mullen JR, et al. The Vaccine Adverse Event Reporting System (VAERS). Vaccine 1994;12:542–50.
- Graham D, Dan B, Bertagnoll P, et al. Cutaneous inflammation caused by inadvertent intradermal administration of DTP instead of PPD. Am J Public Health 1981;71:1040–3.
- 3. Institute for Safe Medication Practices. Hazard alert! Confusion between tetanus diphtheria toxoid (Td) and tuberculin purified protein derivative (PPD) led to unnecessary treatment. Huntingdon Valley, Pennsylvania: Institute for Safe Medication Practices, 2003. Available at http://www.ismp.org/msaarticles/confusionprint.htm.
- 4. U.S. Food and Drug Administration. Mix up between Td and PPD. Rockville, Maryland: U.S. Department of Health and Human Services, U.S. Food and Drug Administration, 2003. Available at http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/psn/transcript.cfm?show=17#8.
- U.S. Food and Drug Administration. FDA rules requires bar codes on drugs and blood to help reduce errors. Rockville, Maryland: U.S. Department of Health and Human Services, U.S. Food and Drug Administration, 2004. Available at http://www.fda.gov/oc/initiatives/ barcode-sadr.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals July 24, 2004, with historical data



Beyond historical limits

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending July 24, 2004 (29th Week)*

		Cum. 2004	Cum. 2003		Cum. 2004	Cum. 2003
Anthrax		-	-	Hemolytic uremic syndrome, postdiarrheal†	59	70
Botulism:		-	-	HIV infection, pediatric ^{†¶}	88	126
	foodborne	7	8	Measles, total	15**	34 ^{††}
	infant	40	34	Mumps	115	122
	other (wound & unspecified)	6	12	Plague	-	1
Brucellosis†		61	48	Poliomyelitis, paralytic	-	-
Chancroid		18	35	Psittacosis†	4	6
Cholera		2	1	Q fever [†]	30	45
Cyclosporias	is [†]	100	39	Rabies, human	3	-
Diphtheria		-	-	Rubella	14	6
Ehrlichiosis:		-	-	Rubella, congenital syndrome	-	1
	human granulocytic (HGE)†	86	106	SARS-associated coronavirus disease† §§	-	7
	human monocytic (HME)†	75	87	Smallpox [†] ¶	-	NA
	human, other and unspecified	3	19	Staphylococcus aureus:	-	-
Encephalitis/	Meningitis:	-	-	Vancomycin-intermediate (VISA)† ¶	4	NA
	California serogroup viral†§	5	20	Vancomycin-resistant (VRSA)† ¶	1	NA
	eastern equine†§	-	6	Streptococcal toxic-shock syndrome [†]	62	118
	Powassan ^{† §}	-	-	Tetanus	6	5
	St. Louis†§	1	3	Toxic-shock syndrome	58	75
	western equine†§	-	-	Trichinosis	2	-
Hansen disea	ase (leprosy)†	41	49	Tularemia [†]	37	35
Hantavirus pi	ulmonary syndrome†	10	14	Yellow fever	-	-

^{-:} No reported cases.

^{*} No measles cases were reported for the current 4-week period yielding a ratio for week 29 of zero (0).

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

Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

Not notifiable in all states.

Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update June 27, 2004.

Of 15 cases reported, eight were indigenous, and seven were imported from another country.

Of 34 cases reported, 22 were indigenous, and 12 were imported from another country.

SS Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (notifiable as of July 2003).

Not previously notifiable.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending July 24, 2004, and July 19, 2003 (29th Week)*

(29th Week)*	AIC	os	Chla	mydia [†]	Coccidio	domycosis	Cryptosp	oridiosis		s/Meningitis t Nile [§]
Reporting area	Cum. 2004 [¶]	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	20,281	22,888	471,782	472,421	3,129	1,749	1,292	1,176	129	142
NEW ENGLAND	727	784	16,270	15,049			73	81	-	-
Maine N.H.	10 26	35 18	1,087 890	1,074 860	N -	N -	13 16	6 10	-	-
Vt. Mass.	13 235	6 326	567 7,531	547 5,878	-	-	10 23	15 38	-	-
R.I.	70	63	1,821	1,650	- N	- N	2	9	-	-
Conn. MID. ATLANTIC	373 4,432	336 5,065	4,374 62,404	5,040 58,499	N -	N	9 199	3 161	2	8
Upstate N.Y.	591	618	12,220	10,544	N	N	49	40	-	-
N.Y. City N.J.	2,341 788	2,315 929	17,941 9,363	19,200 8,714	-	-	47 11	56 9	1 -	-
Pa.	712	1,203	22,880	20,041	N	N	92	56	1	8
E.N. CENTRAL Ohio	1,724 237	2,373 419	79,169 19,305	85,449 23,124	7	3	308 86	302 41	2 1	7 4
Ind.	219	305	9,969	9,463	N	N	39	31	-	3
III. Mich.	852 326	1,117 417	20,573 20,410	26,547 16,911	7	3	13 71	43 52	1	-
Wis.	90	115	8,912	9,404	-	-	99	135	-	-
W.N. CENTRAL Minn.	407 95	410 77	28,291 5,261	27,017 5,921	4 N	2 N	185 60	127 47	2	22 2
Iowa Mo.	28 181	45 203	3,136 10,687	3,102 9,810	N 3	N 1	36 31	25 10	- 1	4
N. Dak.	12	1	875	856	N	N	8	10	-	1
S. Dak. Nebr.**	6 18	6 30	1,369 2,895	1,362 2,193	1	1	23 14	21 6	1 -	6 8
Kans.	67	48	4,068	3,773	N	N	13	8	-	1
S. ATLANTIC Del.	6,151 83	6,435 133	90,552 1,558	88,543 1,684	N	3 N	234	159 3	4	5
Md. D.C.	690 354	729 656	10,212 1,716	8,994 1,811	-	3	10 6	8	-	-
Va.	336	507	12,286	10,494	-	-	25	14	-	-
W. Va. N.C.	31 344	49 632	1,546 15,666	1,382 14,177	N N	N N	3 41	3 19	-	-
S.C.** Ga.	376 894	435 953	8,716 15,391	7,716 19,164	-	-	9 78	2 60	-	1
Fla.	3,043	2,341	23,461	23,121	N	N	62	47	4	4
E.S. CENTRAL	958 107	982 83	29,548	30,574	2 N	1 N	54 21	62 13	-	8
Ky. Tenn.**	391	437	3,109 12,213	4,490 10,926	N	N	12	23	-	-
Ala. Miss.	233 227	249 213	5,847 8,379	8,164 6,994	2	1	12 9	23 3	-	5 3
W.S. CENTRAL	2,544	2,352	60,759	59,017	2	-	39	31	3	59
Ark. La.	124 576	86 400	4,263 12,666	4,226 11,938	1 1	-	12	5 2	1 -	- 15
Okla. Tex.	90 1,754	109 1,757	6,349 37,481	5,913 36,940	N	N	12 15	6 18	2	3 41
MOUNTAIN	729	887	24,134	27,730	1,981	1,162	66	54	98	33
Mont.	5	10	1,215	1,132	N	N	13	12	-	-
Idaho Wyo.	9 7	16 5	1,580 598	1,333 543	N -	N 1	7 2	8 2	-	2
Colo. N. Mex.	137 107	211 62	5,076 2,586	7,002 4,124	N 9	N 5	27 3	11 3	5 1	30 1
Ariz.	284	392	8,915	8,272	1,920	1,132	11	3	92	-
Utah Nev.	34 146	39 152	1,922 2,242	2,059 3,265	18 34	4 20	2 1	9 6	-	-
PACIFIC Wood	2,609	3,600	80,655	80,543	1,133	578 N	134	199	18	-
Wash. Oreg.	214 133	247 145	9,779 4,497	8,630 4,196	N -	N -	14 17	25 25	-	-
Calif. Alaska	2,201 15	3,136 13	62,862 1,988	62,643 2,131	1,133 -	578 -	102	149	18	-
Hawaii	46	59	1,529	2,943	-	-	1	-	-	-
Guam P.R.	2 209	5 620	- 1,374	385 1,318	- N	- N	- N	- N	-	-
V.I.	6	17	143	198	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U 2	U U	U 32	U U	U -	U U	U -	U U	U -	U U

N: Not notifiable.

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

† Chlamydia refers to genital infections caused by *C. trachomatis*.

§ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

† Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update

^{**} Contains data reported through National Electronic Disease Surveillance System (NEDSS).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending July 24, 2004, and July 19, 2003 (29th Week)*

(29th Week)*		Escher	ichia coli, Ente	rohemorrhagio						
			_	n positive,	Shiga toxi					
	Cum.	57:H7 Cum.	serogroup Cum.	Cum.	not sero Cum.		Giar Cum.	diasis Cum.	Gor Cum.	Orrhea Cum.
Reporting area	2004	2003	2004	2003	2004	Cum. 2003	2004	2003	2004	2003
UNITED STATES	941	886	104	106	81	62	8,204	8,732	163,592	177,472
NEW ENGLAND	56	49	27	22	13	4	716	634	3,826	3,712
Maine N.H.	2 10	5 10	5	2	-	-	68 18	69 22	135 64	120 60
Vt.	5	4	-	-	1	-	70	46	47	44
Mass. R.I.	26 5	16 1	4 1	7	12 -	4	322 54	310 55	1,747 488	1,419 495
Conn.	8	13	17	13	-	-	184	132	1,345	1,574
MID. ATLANTIC	114	112	15	10	14	14	1,859	1,828	19,936	22,377
Upstate N.Y. N.Y. City	53 23	41 3	8 -	4	4	6	622 559	450 638	4,056 5,817	4,048 7,369
N.J.	14	17	3	1	4 6	-	180	267	3,581	4,751
Pa.	24	51	4	5		8	498	473	6,482	6,209
E.N. CENTRAL Ohio	185 47	226 43	20 6	18 10	10 10	9 9	996 401	1,559 439	32,299 9,640	37,473 12,006
Ind. III.	15 32	39 41	-	- 1	-	-	- 84	496	3,451 8,752	3,555 11,601
Mich.	43	35	4	-	-	-	335	347	8,169	7,118
Wis.	48	68	10	7	-	-	176	277	2,287	3,193
W.N. CENTRAL Minn.	202 38	143 49	17 7	17 8	16 2	9	959 336	853 307	8,897 1,778	9,164 1,544
Iowa	55	22	-	-	-	-	135	118	556	734
Mo. N. Dak.	46 5	39 5	10	2	5 7	1 2	248 17	246 22	4,388 63	4,678 37
S. Dak.	13	9	-	3	-	-	34	23	150	107
Nebr. Kans.	30 15	8 11	-	1 -	2	6	68 121	65 72	568 1,394	691 1,373
S. ATLANTIC	78	65	15	25	19	15	1,336	1,308	40,285	43,481
Del. Md.	1 17	2 3	N 1	N	N 3	N	26 56	19	501	648
D.C.	1	1	-	1 -	-	1 -	35	58 20	4,442 1,249	4,208 1,350
Va. W. Va.	14 1	18 2	6	5	-	-	222 17	187 20	4,913 486	4,876 470
N.C.	-	-	-	-	9	14	N	N	8,305	8,036
S.C. Ga.	4 16	15	4	3	-	-	28 392	66 417	4,119 6,599	4,428 9,348
Fla.	24	24	4	16	7	-	560	521	9,671	10,117
E.S. CENTRAL	41	38	1	-	8	4	167	178	12,601	14,875
Ky. Tenn.	15 12	11 15	1 -	-	5 3	4	N 77	N 80	1,358 4,446	1,916 4,401
Ala.	8	9	-	-	-	-	90	98	3,588	5,056
Miss.	6	3	1	-	1	-	407	454	3,209	3,502
W.S. CENTRAL Ark.	44 8	38 5	-	3	-	3	137 62	151 82	22,656 2,063	24,149 2,291
La. Okla.	2 10	1 10	-	-	-	-	19 56	8 61	5,685 2,662	6,719 2,302
Tex.	24	22	1	3	1	3	-	-	12,246	12,837
MOUNTAIN	89	100	7	9	-	4	704	722	5,235	5,871
Mont. Idaho	10 22	4 25	3	6	-	-	24 85	38 81	38 43	57 39
Wyo.	1	2	1	-	-	-	11	11	28	26
Colo. N. Mex.	18 4	27 3	1 -	1 2	-	4	239 40	206 27	1,537 313	1,610 675
Ariz.	10	16	N	N	N	N	102	134	1,974	2,175
Utah Nev.	15 9	17 6	1 1	-	-	-	151 52	157 68	291 1,011	189 1,100
PACIFIC	132	115	1	2	-	-	1,330	1,499	17,857	16,370
Wash. Oreg.	45 17	30 19	- 1	1 1	-	-	165 218	139 193	1,465 600	1,505 566
Calif.	62	65	-	-	-	-	870	1,076	15,109	13,393
Alaska Hawaii	1 7	1 -	-	-	-	-	33 44	45 46	315 368	302 604
Guam	, N	N	-	_	_	_		- -	-	40
P.R.	-	1	-	-	-	-	13	116	111	149
V.I. Amer. Samoa	U	Ū	Ū	- U	U	- U	U	Ū	49 U	49 U
C.N.M.I.	-	ŭ	-	ŭ	-	Ŭ	-	ŭ	3	Ŭ

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending July 24, 2004, and July 19, 2003 (29th Week)*

				Haemophilus	influenzae, inv	/asive			Hen	atitis
	All	ages		Пасторинас	Age <				→ ·	te), by type
		rotypes	Serot	ype b		rotype b	Unknown	serotype		A
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	1,100	1,082	9	15	53	72	110	124	2,949	3,462
NEW ENGLAND	99	72	1	1	5	5	3	3	491	157
Maine N.H.	7 13	2 8	-	-	2	-	-	1	9 11	7 9
Vt.	5	6	-	-	-	-	1	-	8	4
Mass. R.I.	44 3	41 4	1 -	1 -	-	5	2	1 1	422 10	77 11
Conn.	27	11	-	-	3	-	-	-	31	49
MID. ATLANTIC Upstate N.Y.	235 81	227 78	-	1 1	3	2 2	28 4	29 7	334 48	737 62
N.Y. City	47	42	-	-	-	-	9	7	127	268
N.J. Pa.	42 65	48 59	-	-	-	-	3 12	7 8	62 97	117 290
E.N. CENTRAL	183	178	-	2	6	3	27	34	266	351
Ohio Ind.	69 33	43 28	-	-	2 4	-	11 1	7 2	32 15	68 35
III.	41	69	-	-	-	-	9	18	103	101
Mich. Wis.	14 26	13 25	-	2	-	3	5 1	1 6	93 23	114 33
W.N. CENTRAL	64	71	2	-	3	6	4	8	114	102
Minn. Iowa	27 1	25	1 1	-	3	6	-	1	28 30	32 16
Mo.	21	31	-	-	-	-	2	7	36	31
N. Dak. S. Dak.	3	2 1	-	-	-	-	-	-	1 2	-
Nebr.	5	1	-	-	-	-	-	-	7	7
Kans. S. ATLANTIC	7 264	11 219	-	-	16	8	2 20	14	10 562	16 739
Del.	8	-	-	-	-	-	2	-	5	4
Md. D.C.	43	51 -	-	-	4	4	1 -	-	74 4	74 24
Va.	23	30	-	-	-	-	1	5	53	46
W. Va. N.C.	10 40	8 17	-	-	- 5	1	3 1	1	2 44	11 38
S.C. Ga.	2 70	4 42	-	-	-	-	- 12	1 4	21 201	23 300
Fla.	68	67	-	-	7	3	-	3	158	219
E.S. CENTRAL	38	47	-	1	-	2	8	4	83	98
Ky. Tenn.	3 24	3 27	-	-	-	1 1	6	3	13 46	17 56
Ala. Miss.	11	16 1	-	1 -	-	-	2	1 -	6 18	12 13
W.S. CENTRAL	46	51	1	1	5	7	1	4	223	344
Ark.	1	5	-	-	-	1	-	-	38	19
La. Okla.	8 36	17 27	-	-	5	2 4	1 -	4 -	15 17	32 6
Tex.	1	2	1	1	-	-	-	-	153	287
MOUNTAIN Mont.	128	117 -	3 -	6	15	19 -	13	12	263 4	263 2
Idaho	5	3 1	-	-	-	-	2	1	12	9 1
Wyo. Colo.	28	22	-	-	-	-	3	4	3 26	39
N. Mex. Ariz.	25 49	15 61	-	6	5 7	4 8	3 1	1 4	9 168	11 149
Utah	10	9	2	-	1	4	2	2	34	17
Nev. PACIFIC	11	6	1	-	2	3	2	-	7	35
Wash.	43 3	100 6	2 2	3 -	-	20 4	6 1	16 1	613 34	671 35
Oreg. Calif.	29 3	25 44	-	3	-	- 16	2 2	2 8	42 517	36 588
Alaska	4	18	-	-	-	-	1	5	4	7
Hawaii Guam	4	7	-	-	-	-	-	-	16	5
P.R.	-	-	-	-	-	-	-	-	11	2 50
V.I. Amer. Samoa	- U	- U	- U	- U	- U	Ū	- U	- U	- U	- U
C.N.M.I.	-	Ŭ	-	ŭ	-	Ŭ	-	ŭ	-	ŭ

N: Not notifiable. U: Unavailable. -: No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending July 24, 2004, and July 19, 2003 (29th Week)*

(29th Week)*	Т	lepatitis (viral	, acute), by ty	ne			T			
		В	(Legior	nellosis	Liste	riosis	Lyme	disease
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	3,328	3,775	634	597	742	890	283	312	6,250	8,415
NEW ENGLAND	185	179 1	4	3	15	37 1	11 3	20 2	650 53	1,391
Maine N.H.	1 23	11	-	-	1	5	1	2	52	46 27
Vt. Mass.	2 99	2 125	1 3	3 -	1 4	1 20	2	11	17 189	11 861
R.I. Conn.	3 57	4 36	- U	- U	2 7	2 8	1 4	- 5	80 259	121 325
MID. ATLANTIC	607	448	68	73	197	208	60	55	4,650	5,704
Upstate N.Y. N.Y. City	53 57	47 137	7	9	40 16	46 21	22 7	14 12	1,580	1,505 122
N.J.	329	114	-	-	38	27	11	10	1,131	1,788
Pa. E.N. CENTRAL	168 285	150 281	61 51	64 89	103 184	114 183	20 48	19 40	1,939 176	2,289 519
Ohio	75	80	3	6	99	96	19	10	47	26
Ind. III.	8 33	17 37	2 9	3 14	14 10	11 21	12	2 12	3 -	8 41
Mich. Wis.	146 23	119 28	37	62 4	59 2	41 14	15 2	11 5	12 114	- 444
W.N. CENTRAL	222	174	207	127	17	40	6	8	136	104
Minn. Iowa	27 10	21 4	8	4	1 3	3	2	2	70 12	60 15
Mo.	151	122	199	122	11	19	2	3	45	25
N. Dak. S. Dak.	3 -	2	-	-	1 1	1 1	-	-	-	- -
Nebr. Kans.	16 15	15 10	-	1 -	-	2 8	1 -	3 -	6 3	2
S. ATLANTIC Del.	1,025 22	1,027 6	103	94	175 4	247 8	46 N	61 N	538 53	555 102
Md.	86	64	13	6	34	61	5	9	339	352
D.C. Va.	13 117	1 86	1 13	3	5 18	1 46	9	7	2 42	4 31
W. Va. N.C.	6 107	10 95	17 7	1 6	4 18	8 16	1 12	3 10	2 57	5 35
S.C. Ga.	54 330	89 331	7 7	23 7	1 24	5 20	7	2 17	5 7	1 9
Fla.	290	345	38	48	67	82	12	13	31	16
E.S. CENTRAL Ky.	225 31	248 41	55 17	47 8	39 15	59 23	17 4	12 2	26 11	29 6
Tenn.	96	100	21	10	15	19	8	2	9	8
Ala. Miss.	36 62	53 54	1 16	5 24	8 1	13 4	3 2	6 2	1 5	1 14
W.S. CENTRAL	107	622	79	108	34	41	20	35	14	66
Ark. La.	31 34	50 82	1 44	3 66	3	2 1	1 2	1 1	2 2	6
Okla. Tex.	22 20	37 453	2 32	2 37	2 29	4 34	- 17	1 32	10	- 60
MOUNTAIN	283	328	29	21	43	39	14	18	12	7
Mont. Idaho	2 6	8 4	2	1 1	1 6	2 3	- 1	1 1	2	2
Wyo. Colo.	7 26	22 49	- 5	5	4 5	2 7	5	6	2 1	-
N. Mex.	10	24	7	-	-	2	-	2	-	1
Ariz. Utah	158 28	155 22	4 2	4	10 14	9 10	1	5 2	1 6	1
Nev.	46	44	9	10	3	4	7	1	-	3
PACIFIC Wash.	389 31	468 36	38 12	35 11	38 6	36 4	61 6	63 4	48 3	40
Oreg. Calif.	67 275	73 344	10 13	6 17	N 32	N 32	5 48	2 54	19 26	9 30
Alaska Hawaii	13 3	3 12	3	1	-	-	- 2	3	- N	1 N
Guam	-	4	- -	3	-	-	-	- -	-	-
P.R. V.I.	20	75 -	-	-	1 -	-	-	-	N -	N -
Amer. Samoa C.N.M.I.	U -	U U	U	U U	U -	U U	U -	U U	U -	U U

N: Not notifiable. U: Unavailable. -: No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending July 24, 2004, and July 19, 2003 (29th Week)*

(29th Week)*	Mal	aria		gococcal ease	Port	tussis	Rahio	s, animal		lountain d fever
Poporting area	Cum.	Cum.	Cum.	Cum. 2003	Cum.	Cum. 2003	Cum.	Cum.	Cum.	Cum.
Reporting area UNITED STATES	2004 607	2003 581	2004 854	1,058	2004 5,672	3,960	2,739	3,892	2004 474	2003 296
NEW ENGLAND	46	16	43	50	702	433	295	272	11	3
Maine N.H.	5 1	1 3	8	5 3	2 26	9 26	29 11	27 13	-	-
Vt.	3	-	2	- -	42	38	10	18	-	-
Mass. R.I.	22 2	12	24 1	31 2	604 16	334 7	119 16	97 35	9 1	3
Conn.	13	-	5	9	12	19	110	82	1	-
MID. ATLANTIC	138	142	105	133	1,335	391	263	479	35	20
Upstate N.Y. N.Y. City	23 63	29 70	26 18	32 31	971 76	163 55	230 4	195 5	1 5	7
N.J.	21	24	22	18	99	71	-	62	10	10
Pa.	31	19	39	52	189	102	29	217	19	3
E.N. CENTRAL Ohio	53 18	60 11	118 46	173 45	1,160 266	339 120	39 15	53 19	18 10	8 4
Ind.	3	1	16	30	53	30	5	6	5	-
III. Mich.	9 15	28 16	12 34	47 29	177 69	30 41	11 8	7 17	3	2 2
Wis.	8	4	10	22	595	118	-	4	-	-
W.N. CENTRAL Minn.	42 18	26 13	60 16	79 18	560 94	181 59	274 37	388 16	57	23 1
lowa	18	3	11	16	36	59 44	40	51	-	2
Mo.	10	3	18	30 1	183	43	20	7	47	17
N. Dak. S. Dak.	3 1	1 1	1 2	1	207 9	3 3	39 10	37 83	3	1
Nebr. Kans.	2 6	- 5	2 10	6 7	3 28	3 26	53 75	69 125	6 1	2
S. ATLANTIC	157	140	161	182	298	279	958	1,580	198	181
Del.	3	-	13	8	5	2	9	23	-	-
Md. D.C.	35 8	34 7	8 4	19 3	60 2	40	50	231	25	47
Va.	15	16	10	18	85	59	258	308	9	6
W. Va. N.C.	9	4 9	5 24	3 21	5 49	6 75	34 361	50 443	1 130	4 74
S.C.	7	3	12	14	28	35	85	129	9	10
Ga. Fla.	26 54	33 34	10 75	19 77	9 55	20 42	159 2	208 188	12 12	36 4
E.S. CENTRAL	19	13	34	50	69	86	69	123	56	49
Ky.	1 3	1	4 10	10	15	20	15	21	- 25	- 28
Tenn. Ala.	3 11	4 5	10	12 14	36 12	44 14	23 28	83 18	25 16	28 6
Miss.	4	3	10	14	6	8	3	1	15	15
W.S. CENTRAL Ark.	56 6	75 4	82 12	119 10	289 9	299 21	675 31	793 25	86 56	8
La.	2	3	23	31	7	7	-	1	3	-
Okla. Tex.	2 46	3 65	5 42	10 68	17 256	37 234	71 573	139 628	27	2 6
MOUNTAIN	27	17	41	54	578	556	73	82	9	4
Mont.	-	···	3	3	18	1	13	11	3	1
Idaho Wyo.	1 -	1 1	6 2	6 2	20 11	35 119	-	3 1	1	1 2
Colo.	8	11	10	12	292	194	11	13	-	-
N. Mex. Ariz.	1 8	2	5 8	7 20	65 120	36 98	2 45	5 40	1 1	-
Utah	5	1	4	-	42	54	2	5	2	-
Nev. PACIFIC	4	1 92	3	4	10	19 1,396	- 03	4 122	-	-
Wash.	69 6	13	210 20	218 18	681 365	313	93	-	4 -	-
Oreg. Calif.	11 51	7 69	47 138	34 152	255 44	273 802	2 83	5 112	2 2	-
Alaska	-	-	1	4	8	1	8	5	-	-
Hawaii	1	3	4	10	9	7	-	-	-	-
Guam P.R.	-	-	4	7	2	1 1	- 31	43	- N	- N
V.I.	-	-	-	-	-	-	-	-	-	-
Amer. Samoa C.N.M.I.	U	U U	U	U U	U	U U	U	U U	U -	U U
	I I: I Ingvisilable		orted coops			- 0				

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending July 24, 2004, and July 19, 2003 (29th Week)*

(29th Week)*							Stre	Streptococcus pneumoniae, invasive				
	Salmo	nellosis	Shine	llosis	Streptococo invasive,		Drug re all a		Ane	5 years		
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003		
UNITED STATES	17,287	19,234	5,658	12,588	2,956	3,897	1,350	1,329	370	458		
NEW ENGLAND	895	1,006	133	170	135	352	15	70	7	6		
Maine N.H.	37 51	62 79	2 5	6 5	6 15	20 23	2	-	1 N	- N		
Vt.	28	35	2	5	8	16	7	6	1	3		
Mass.	533	597 40	83 9	115	89	155	N	N	N	N		
R.I. Conn.	48 198	193	32	4 35	17 -	5 133	6 -	10 54	5 U	3 U		
MID. ATLANTIC	2,571	2,285	647	1,322	485	688	99	88	72	67		
Upstate N.Y. N.Y. City	560 608	471 620	308 185	178 207	165 71	261 93	46 U	46 U	50 U	49 U		
N.J.	330	394	98	222	94	137	-	-	2	2		
Pa.	1,073	800	56	715	155	197	53	42	20	16		
E.N. CENTRAL Ohio	2,012 647	2,850 724	383 85	1,084 199	606 165	954 227	322 232	305 201	107 56	200 71		
Ind.	212	273	87	77	70	88	90	104	22	18		
III. Mich.	321 432	1,068 389	87 61	583 151	133 206	240 276	N	- N	- N	77 N		
Wis.	400	396	63	74	32	123	N	N	29	34		
W.N. CENTRAL	1,237	1,094	202	393	205	231	11	11	52	52		
Minn. Iowa	282 249	267 184	25 40	50 26	106 N	110 N	N	N	37 N	36 N		
Mo.	351	349	90	203	42	50	8	7	7	2		
N. Dak. S. Dak.	19 54	23 46	2 7	6 9	9 9	11 18	-	3 1	2	4		
Nebr.	82	46 77	10	63	10	22	3	-	4	5		
Kans.	200	148	28	36	29	20	N	N	2	5		
S. ATLANTIC	4,192	4,322	1,505	3,921	582	647	698	697	26	12		
Del. Md.	32 426	48 402	3 69	144 310	3 120	6 161	4	1 5	N 15	N -		
D.C.	25	15	24	32	4	5	4	-	3	4		
Va. W. Va.	504 100	440 63	73 3	218	49 17	80 29	N 80	N 48	N 8	N 8		
N.C.	491	533	153	515	85	75	N	N	U	U		
S.C. Ga.	282 661	224 777	204 348	251 811	35 120	31 125	65 160	102 156	N N	N N		
Fla.	1,671	1,820	628	1,640	149	135	385	385	N	N		
E.S. CENTRAL	1,037	1,232	336	555	138	133	80	98		-		
Ky. Tenn.	167 221	211 360	42 121	61 188	46 92	35 98	21 59	12 86	N N	N N		
Ala.	319	285	141	187	-	-	-	-	N	N		
Miss.	330	376	32	119	-	-	-	-	-	-		
W.S. CENTRAL Ark.	1,499 245	2,784 290	1,310 36	3,444 56	167 12	178 5	36 6	52 17	72 7	71 4		
La.	274	391	170	271	2	1	30	35	12	14		
Okla. Tex.	184 796	196 1,907	268 836	495 2,622	43 110	57 115	N N	N N	30 23	34 19		
MOUNTAIN	1,194	1,907	401	515	340	335	20	4	34	50		
Mont.	77	50	401	2	-	1	-	-	-	-		
Idaho	91 27	99	6	12	6	14	N	N	N	N		
Wyo. Colo.	27 286	50 268	1 67	1 93	6 89	2 90	6	3 -	30	38		
N. Mex.	113	106	59	107	58	84	5	-	-	8		
Ariz. Utah	386 122	314 104	221 22	245 27	151 28	121 22	N 7	N 1	N 4	N 4		
Nev.	92	85	21	28	2	1	2	-	-	-		
PACIFIC	2,650	2,585	741	1,184	298	379	69	4	-	-		
Wash. Oreg.	251 227	299 221	58 37	96 55	34 N	41 N	N	- N	N N	N N		
Calif.	1,937	1,908	618	1,010	210	271	N	N	N	N		
Alaska Hawaii	37 198	50 107	4 24	4 19	- 54	67	69	4	N -	N -		
Guam	-	28		23	-	-	-	-	-	_		
P.R.	84	348	1	6	N	N	N	N	N	N		
V.I. Amer. Samoa	Ū	Ū	Ū	U	Ū	U	Ū	Ū	Ū	Ū		
C.N.M.I.	3	U	-	U	-	U	-	U	-	U		

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 24, 2004, and July 19, 2003 (29th Week)*

(29th Week)*		Syphi	lis						Varicella		
	_ 	secondary	Cong		+	culosis	Typhoi		(Chicke	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' 	
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	
UNITED STATES	3,957	3,884	188	254	5,214	6,856	126	178	9,209	10,361	
NEW ENGLAND Maine	108 2	121 6	1	-	196	222 11	14	17	587 179	2,151 638	
N.H.	3	14	-	-	9	10	-	1	-	-	
Vt. Mass.	- 70	- 77	-	-	- 122	5 107	- 12	9	408	489 107	
R.I. Conn.	14 19	12 12	- 1	-	17 48	28 61	1 1	2 5	-	3 914	
MID. ATLANTIC	565	451	31	40	1,079	1,192	32	31	58	13	
Upstate N.Y.	47	20	2	6	131	133	3	4	-	-	
N.Y. City N.J.	307 88	260 85	10 19	22 12	547 216	641 224	10 9	18 8	-	-	
Pa.	123	86	-	-	185	194	10	1	58	13	
E.N. CENTRAL Ohio	430 124	544 116	34 1	43 2	631 108	598 104	6 2	21	3,884 1,016	3,746 924	
Ind.	32	28	8	9	72	71 275	-	4	-	-	
III. Mich.	146 112	223 165	22	16 16	279 130	113	3	10 7	2,521	2,254	
Wis.	16	12	-	-	42	35	1	-	347	568	
W.N. CENTRAL Minn.	79 14	95 32	2	4 -	223 84	256 93	4 3	4 2	119	39	
lowa	5	7	- 1	-	19	14	<u>-</u> 1	1	N	N	
Mo. N. Dak.	40	32	-	4 -	61 3	70 -	-	1 -	2 74	39	
S. Dak. Nebr.	- 4	1 3	-	-	5 15	16 11	-	-	43	-	
Kans.	16	20	1	-	36	52	-	-	-	-	
S. ATLANTIC Del.	1,050 3	1,028 4	24 1	48	1,055	1,264	23	32	1,514 4	1,504 16	
Md.	193	157	3	8	141	126	5	8	-	-	
D.C. Va.	46 60	31 54	1 2	1	40 117	129	2	11	17 378	18 422	
W. Va. N.C.	2 98	1 93	- 5	- 10	12 139	11 167	3	- 5	890 N	882 N	
S.C.	63	63	1	4	112	85	-	-	225	166	
Ga. Fla.	160 425	276 349	1 10	12 13	11 483	285 461	9 4	3 5	-	-	
E.S. CENTRAL	216	180	14	10	326	376	4	3	-	-	
Ky. Tenn.	25 76	23 74	1 7	1 2	54 127	67 122	2 2	- 1	-	-	
Ala.	93 22	66	4 2	5 2	112	129	-	2	-	-	
Miss. W.S. CENTRAL	641	17 453	28	43	33 376	58 1,046	7	12	1,484	2,553	
Ark.	24	29	-	1	63	54	-	-	· -	-	
La. Okla.	118 19	59 30	2	1 1	80	- 75	-	-	42	9	
Tex.	480	335	26	40	233	917	7	12	1,442	2,544	
MOUNTAIN Mont.	189	170	32	24	253 4	211	5 -	4	1,563	355	
Idaho Wyo.	13 1	4	2	1	-	5 2	-	-	- 22	37	
Colo.	19	23	-	3	2 57	51	1	3	1,174	-	
N. Mex. Ariz.	26 114	34 99	1 29	4 16	14 117	29 85	2	1	67	-	
Utah	3	2	-	-	23	18	1	-	300	318	
Nev. PACIFIC	13 679	8 842	- 22	- 42	36 1,075	21 1,691	1 31	- 54	-	-	
Wash.	55	40	-	-	129	134	2	2	-	-	
Oreg. Calif.	18 603	28 767	22	42	40 828	62 1,404	1 22	2 50	-	-	
Alaska Hawaii	3	1		-	17 61	34 57	6	- -	-	-	
Guam	-	1	-	-	-	38	-	-	-	90	
P.R.	66	114	3	8	14	49	-	-	156	362	
V.I. Amer. Samoa	4 U	1 U	U	U	U	U	U	U	U	U	
C.N.M.I.	2	Ü	-	Ū	10	Ū	-	Ū	-	Ū	

N: Not notifiable. U: Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE III. Deaths in 122 U.S. cities.* week ending July 24, 2004 (29th Week)

TABLE III. Deaths	in 122 U. T			ending J y age (ye		, 2004	(29th W	/eek)	1	ΔII (causes, b	v age (v	ears)		
	All	All C	auses, b	y age (ye	ai sj		P&I†		All	All	lauses, L	y age (y			P&I [†]
Reporting Area	Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	Total	Reporting Area	Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	Total
NEW ENGLAND	509	352	112	23	14	8	45	S. ATLANTIC	1,182	726	293	106	30	27	55
Boston, Mass. Bridgeport, Conn.	128 36	82 24	31 10	6 2	5	4	13 1	Atlanta, Ga. Baltimore, Md.	139 161	80 88	37 45	17 19	3 7	2	3 13
Cambridge, Mass.	16	12	3	1	_	_	1	Charlotte, N.C.	97	63	21	7	3	3	3
Fall River, Mass.	30	23	7	-	-	-	2	Jacksonville, Fla.	154	97	28	22	4	3	2
Hartford, Conn.	50	37	6	3	1	3	8	Miami, Fla.	99	64	24	7	2	2	11
Lowell, Mass.	19	11	7	-	1	-	3	Norfolk, Va.	58	34	15	4	2	3	6
Lynn, Mass. New Bedford, Mass.	7 31	5 26	2 5	-	-	-	1 4	Richmond, Va. Savannah, Ga.	55 50	29 32	18 10	3 3	1 4	4 1	1 3
New Haven, Conn.	22	∠6 14	3	4	-	1	4	St. Petersburg, Fla.	63	32 46	11	3 4	2	-	3
Providence, R.I.	44	32	9	3	_	-	1	Tampa, Fla.	191	123	53	8	1	6	8
Somerville, Mass.	1	1	-	-	-	-	-	Washington, D.C.	102	59	30	12	-	1	2
Springfield, Mass.	38	25	7	3	3	-	3	Wilmington, Del.	13	11	1	-	1	-	-
Waterbury, Conn.	26	18	6	1	1	-	2	E.S. CENTRAL	824	502	217	64	24	14	47
Worcester, Mass.	61	42	16	-	3	-	2	Birmingham, Ala.	190	124	39	12	8	4	19
MID. ATLANTIC	2,042	1,337	461	146	55	39	91	Chattanooga, Tenn.	92	61	19	7	2	3	4
Albany, N.Y.	41	29	9	2	-	1	-	Knoxville, Tenn.	122	76	34	8	4	-	2
Allentown, Pa. Buffalo, N.Y.	21 74	17 55	4 12	7	-	-	1 6	Lexington, Ky. Memphis, Tenn.	34 132	21 71	10 48	3 10	2	- 1	10
Camden, N.J.	29	14	8	2	3	2	-	Mobile, Ala.	83	54	25	3	1	-	1
Elizabeth, N.J.	17	10	6	1	-	-	-	Montgomery, Ala.	23	13	8	2		-	3
Erie, Pa.	46	28	16	2	-	-	1	Nashville, Tenn.	148	82	34	19	7	6	8
Jersey City, N.J.	25	16	6	3		-	-	W.S. CENTRAL	1,585	985	383	112	61	44	85
New York City, N.Y.	1,006	677	218	65	24	18	43	Austin, Tex.	78	48	16	8	3	3	6
Newark, N.J. Paterson, N.J.	46 14	21 8	13 4	6 1	4 1	2	2	Baton Rouge, La.	12	6	1	2	1	2	-
Philadelphia, Pa.	394	223	102	41	16	12	21	Corpus Christi, Tex.	72	49	15	2	4	2	3
Pittsburgh, Pa.§	16	12	4	-	-	-	1	Dallas, Tex.	245	149 96	54	24 5	7 5	11	13
Reading, Pa.	20	14	3	1	1	1	2	El Paso, Tex. Ft. Worth, Tex.	142 138	96 86	34 29	12	5 8	2	7 5
Rochester, N.Y.	111	83	19	6	2	1	7	Houston, Tex.	364	219	91	26	16	12	22
Schenectady, N.Y.	16 22	12 18	3 3	-	1 1	-	1 1	Little Rock, Ark.	82	43	26	5	5	3	-
Scranton, Pa. Syracuse, N.Y.	67	52	9	2	2	2	3	New Orleans, La.	48	23	16	7	2	-	-
Trenton, N.J.	41	24	13	4	-	-	1	San Antonio, Tex.	275	196	57	12	6	4	14
Utica, N.Y.	16	9	6	1	-	-	-	Shreveport, La. Tulsa, Okla.	43 86	24 46	15 29	1 8	1 3	2	4 11
Yonkers, N.Y.	20	15	3	2	-	-	1	MOUNTAIN	968	624	214	71	33	25	53
E.N. CENTRAL	2,095 45	1,388 28	456 12	159 3	48 1	43 1	118 4	Albuquerque, N.M.	158	99	34	18	6	1	4
Akron, Ohio Canton, Ohio	27	20	6	-	1	-	4	Boise, Idaho	35	28	2	1	2	2	6
Chicago, III.	332	200	90	34	4	3	17	Colo. Springs, Colo.	47	32	9	1	4	1	2
Cincinnati, Ohio	55	41	9	1	3	1	3	Denver, Colo.	102 259	59 167	30 57	9 20	- 10	4 5	10 10
Cleveland, Ohio	227	170	40	10	5	2	6	Las Vegas, Nev. Ogden, Utah	239	167	4	1	-	1	2
Columbus, Ohio	205	141	38	13	7	6	17	Phoenix, Ariz.	71	39	21	5	4	1	2
Dayton, Ohio Detroit, Mich.	117 179	93 98	17 49	5 21	1 5	1 6	8 14	Pueblo, Colo.	37	30	6	1	-	-	4
Evansville, Ind.	49	36	9	4	-	-	3	Salt Lake City, Utah	80	51	17	3	3	6	4
Fort Wayne, Ind.	78	53	15	7	1	2	6	Tucson, Ariz.	157	103	34	12	4	4	9
Gary, Ind.	10	4	3	1	2	-	-	PACIFIC	1,482	987	312	101	52	29	119
Grand Rapids, Mich.	72	48	15	4	1	4	4	Berkeley, Calif.	13	8	3	-	-	2	1
Indianapolis, Ind.	203	116	58 8	15 5	7 1	7	9 2	Fresno, Calif. Glendale, Calif.	101 12	70 8	17 3	10 1	3	1	3
Lansing, Mich. Milwaukee, Wis.	46 132	32 72	38	13	3	6	7	Honolulu, Hawaii	61	40	17	2	-	2	2 4
Peoria, III.	47	34	10	2	1	-	2	Long Beach, Calif.	74	41	23	4	4	2	9
Rockford, III.	51	32	11	5	3	-	4	Los Angeles, Calif.	196	138	34	13	9	2	27
South Bend, Ind.	31	27	3	. 1	-	-	-	Pasadena, Calif.	23	14	3	4	1	1	4
Toledo, Ohio	104	75	15	11	1	2	4	Portland, Oreg.	98	62	25	6	3	2	3
Youngstown, Ohio	85	68	10	4	1	2	4	Sacramento, Calif. San Diego, Calif.	203 155	144 106	38 32	12 7	5 5	4 4	11 10
W.N. CENTRAL	599	394	135	38	22	10	37	San Diego, Calli. San Francisco, Calif.	76	46	32 22	6	ວ 1	1	9
Des Moines, Iowa	55	43	9	2	-	1	5	San Jose, Calif.	191	130	33	14	9	5	19
Duluth, Minn.	17	12	3 7	1	- 1	1 1	2	Santa Cruz, Calif.	27	18	6	2	1	-	2
Kansas City, Kans. Kansas City, Mo.	30 91	19 56	21	2 7	5	2	7	Seattle, Wash.	116	66	32	10	6	2	9
Lincoln, Nebr.	49	37	7	3	1	1	4	Spokane, Wash.	44	30	9	4	1	-	3
Minneapolis, Minn.	70	39	20	6	3	2	2	Tacoma, Wash.	92	66	15	6	4	1	3
Omaha, Nebr.	78	49	18	8	3	-	7	TOTAL	11,286¶	7,295	2,583	820	339	239	650
St. Louis, Mo.	83	52	22	5	3	1	6								
St. Paul, Minn.	63	41	14	4	3	1	1								
Wichita, Kans.	63	46	14	-	3	-	3	<u>I</u>							

U: Unavailable.

U: Unavailable. -:No reported cases.

* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. 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 this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

† Total includes unknown ages.

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