



Morbidity and Mortality Weekly Report

Weekly

December 17, 2004 / Vol. 53 / No. 49

Estimated Influenza Vaccination Coverage Among Adults and Children — United States, September 1–November 30, 2004

Because of the unexpected reduction in the amount of available inactivated influenza vaccine for the 2004-05 influenza season, on October 5, 2004, the Advisory Committee on Immunization Practices (ACIP) recommended that the vaccine be reserved for persons in certain priority groups and asked others to defer or forego vaccination (1). To assess the use of influenza vaccine and the primary reasons reported for not receiving vaccine, beginning November 1, questions were added to the ongoing Behavioral Risk Factor Surveillance System (BRFSS) survey. This report analyzes data collected during December 1-11 on self-reported vaccination during September 1-November 30, which indicated that persons in nonpriority groups had largely deferred vaccination and that, among unvaccinated adults in priority groups, one fourth tried to get vaccine but were unable to do so. Vaccination coverage was suboptimal for persons in all assessed priority groups. Because influenza activity peaks in February or later in most years (2), persons in priority groups should continue to seek vaccination.

BRFSS is a monthly, state-based, random-digit—dialed telephone survey of the U.S. civilian, noninstitutionalized population aged ≥18 years, with an average of 20,000 completed surveys per month (3,4). In previous influenza seasons, the BRFSS survey included two questions on influenza vaccination coverage among adults: "During the past 12 months, have you had a flu shot?" and "During the past 12 months, have you had a flu vaccine that was sprayed in your nose?" Questions on health-risk status were limited, and no information was collected on the timing of vaccination or on influenza vaccination among children.

Beginning November 1, the two influenza vaccination questions were also asked regarding a randomly selected child in the household. In addition, new questions for adults and children were asked to determine 1) the month and year of the

most recent influenza vaccination, 2) whether persons were vaccinated for influenza during the 2003-04 influenza season, 3) the primary reason vaccination was not received, and 4) whether the respondent (or a child in the household) was in one of the following ACIP-designated priority groups for vaccination: persons aged ≥65 years or aged 6-23 months, persons aged 2-64 years with one or more conditions that increase risk for influenza complications, health-care workers with patient contact, and household contacts of children aged <6 months*. For adults, conditions considered as increasing risk for influenza complications were asthma, other lung problems, heart problems, diabetes, kidney problems, weakened immune system, anemia, and pregnancy. For children, these conditions (with the exception of pregnancy) and aspirin therapy were considered as increasing risk for influenza complications. Children aged 6 months-8 years are recommended to have 2 doses of influenza vaccine if they have never been vaccinated for influenza (2). However, in this survey, assessment of 1 versus 2 doses was not made, and children

INSIDE

- 1153 Experiences with Obtaining Influenza Vaccination Among Persons in Priority Groups During a Vaccine Shortage — United States, October— November, 2004
- 1156 Experiences with Influenza-Like Illness and Attitudes Regarding Influenza Prevention — United States, 2003–04 Influenza Season
- 1159 Respiratory Syncytial Virus Activity United States, 2003–2004
- 1160 Notice to Readers

^{*}Certain additional priority groups cited by ACIP were not included in the survey, including residents of nursing homes and long-term—care facilities, out-of-home caregivers for children aged <6 months, and child household contacts of children aged <6 months.

The MMWR series of publications is published by the Coordinating Center for Health Information and Service,* Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

SUGGESTED CITATION

Centers for Disease Control and Prevention. [Article Title]. MMWR 2004;53:[inclusive page numbers].

Centers for Disease Control and Prevention

Julie L. Gerberding, MD, MPH

Director

Dixie E. Snider, MD, MPH *Chief of Science*

Tanja Popovic, MD, PhD (Acting) Associate Director for Science

Coordinating Center for Health Information and Service*

Blake Caldwell, MD, MPH, and Edward J. Sondik, PhD (Acting) Directors

National Center for Health Marketing*

Steven L. Solomon, MD (Acting) Director

Division of Scientific Communications*

John W. Ward, MD (Acting) Director Editor, MMWR Series

Suzanne M. Hewitt, MPA *Managing Editor*, MMWR *Series*

Douglas W. Weatherwax (Acting) Lead Technical Writer-Editor

Stephanie M. Malloy Jude C. Rutledge Teresa F. Rutledge Writers-Editors

Lynda G. Cupell Malbea A. LaPete Visual Information Specialists

Kim L. Bright, MBA Quang M. Doan, MBA Erica R. Shaver Information Technology Specialists

Notifiable Disease Morbidity and 122 Cities Mortality Data

Patsy A. Hall
Deborah A. Adams
Felicia J. Connor
Rosaline Dhara
Donna Edwards
Mechelle Hester
Tambra McGee
Pearl C. Sharp

were counted among those vaccinated if they received any influenza vaccination.

The analyses were based on 16,713 interviews conducted during December 1-11 and thus represent partial influenza season estimates. Data were available for 48 states and the District of Columbia; data for Nevada and New Mexico were not available. Because BRFSS data collection is ongoing, response rates for December are not yet available. The median response rate for states/areas for the preceding month (November 2004) was 52.3% (range: 23.2%-76.8%) based on CASRO guidelines. For 2003, the last year for which yearly response rates are available, the median response rate for states/ areas was 53.2% (range: 34.4%-80.5%). Although response rates have declined over time, when BRFSS data are compared with census data and other surveys, BRFSS data have a minimal bias and are reliable (3,4). Estimates were adjusted to account for differential probabilities in the sample selection, the age- and sex-specific population from the 2003 census for each state, and the size of the state population. Statistical analysis software was used to account for the complex sampling design and to calculate standard errors and confidence intervals.

Vaccination Coverage Among Adults

Among adults in all priority groups, 34.8% reported receiving an influenza vaccination during September 1-November 30, compared with 4.4% of adults aged 18-64 years who were not in a priority group (Table 1). Coverage was highest (51.1%) among persons aged ≥65 years, followed by health-care workers with patient contact (34.2%) and adults aged 18-64 years with high-risk conditions (19.3%). The percentage of persons reporting that they obtained an influenza vaccination during September 1-November 30 was smaller in each of these groups than the percentage who said they obtained a vaccination during the previous influenza season, September 1, 2003-March 31, 2004. Among persons aged ≥65 years who reported receiving influenza vaccine during the 2003–04 influenza season, 71.7% reported also being vaccinated during the 2004–05 influenza season. State-specific, self-reported vaccination coverage among adults in priority groups ranged from 18.0% to 60.3%, with a median of 37.6% (Figure). Among all vaccinated adults, 1.6% reported receiving FluMist®, the live attenuated influenza vaccine (LAIV) approved for use by healthy persons aged 5-49 years who are not pregnant and not contacts of severely immunocompromised persons.

Among adults in priority groups who had not yet received influenza vaccine, 23.3% reported that they attempted to

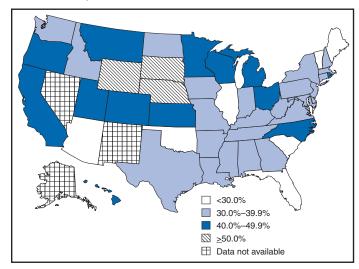
^{*} Proposed.

TABLE 1. Percentage of adults reporting receiving influenza vaccination*, by vaccination priority status† — Behavioral Risk Factor Surveillance System, United States, 2003–04 and 2004–05 influenza seasons

	Reporting value for the 2			•	Reporting vaccination for the 2003–04 season		
Vaccination priority status	No. surveyed	%	(95% CI§)	No. surveyed	%	(95% CI)	
Persons aged 18–64 years with high-risk conditions [¶]	2,602	19.3	(<u>+</u> 2.6)	2,592	43.1	(<u>+</u> 3.7)	
Persons aged ≥65 years	4,287	51.1	(<u>+</u> 2.7)	4,267	67.7	(<u>+</u> 2.6)	
Health-care workers with patient contact**	1,089	34.2	(<u>+</u> 5.2)	1,082	49.0	(<u>+</u> 5.2)	
Total persons in priority groups†† §§	7,816	34.8	(<u>+</u> 1.9)	7,782	53.8	(<u>+</u> 2.1)	
Nonpriority-group persons aged 18-64 years	8,792	4.4	(<u>+</u> 0.7)	8,767	23.9	(<u>+</u> 1.6)	

- * Interviews were conducted during December 1-11, 2004. Data reflect partial-season estimates for the 2004-05 influenza season.
- [†] Does not include persons in the following additional vaccination priority groups: residents of nursing homes and long-term–care facilities and out-of-home caregivers for children aged <6 months.
- § Confidence interval.
- ¶ Asthma, other lung problems, heart problems, diabetes, kidney problems, weakened immune system, anemia, or pregnancy.
- ** Self-reported description might include doctors, nurses, laboratory workers, and office receptionists.
- †† Persons can be included in more than one priority group.
- §§ Includes persons with children aged <6 months in the household; stable estimates for this group could not be estimated separately because of its small sample size.

FIGURE. Percentage of adults in priority groups* reporting receiving influenza vaccination[†], by state — Behavioral Risk Factor Surveillance System, United States, September 1–November 30, 2004



^{*} Includes persons aged 18–64 years with asthma, other lung problems, heart problems, diabetes, kidney problems, weakened immune system, anemia, or pregnancy; persons aged ≥65 years; health-care workers with patient contact; and persons with children aged <6 months in the household. (Does not include residents of nursing homes and long-term—care facilities and out-of-home caregivers for children aged <6 months.)

Interviews were conducted during December 1–11, 2004.

obtain vaccination but could not; among persons aged \geq 65 years, the proportion was 32.5% (Table 2). Among adults not in a priority group who had not received vaccine, 10.4% reported that they attempted to obtain vaccination but could not. Among adults in priority groups, 10.0% of adults said they were saving the vaccine for others, and 6.5% thought that they were not eligible to receive the vaccine.

Vaccination Coverage Among Children

A substantially greater proportion of children in priority groups received at least one influenza vaccination this season compared with other children; 36.6% of children aged 6–23 months and 26.8% of children aged 2–17 years with highrisk conditions were vaccinated, compared with 8.9% of children aged 2–17 years with no high-risk condition (Table 3). Among those children aged 2–17 years with high-risk conditions who were vaccinated for influenza during the 2003–04 influenza season, 51.6% also have been vaccinated thus far this season.

Among respondents with an unvaccinated child aged 6–23 months, 62.9% reported that they thought the vaccine was not needed, 8.4% reported that they tried but could not obtain vaccination for the child, 1.0% thought the child was ineligible for influenza vaccination, and 0.3% said they were saving the vaccine for those who needed it (Table 4). For respondents with an unvaccinated child aged 2–17 years with a high-risk condition, 38.4% reported that they thought vaccination was not needed, 14.4% reported that they tried but could not obtain vaccination, 12.5% thought their child was not eligible, and 10.3% said they were saving the vaccine for others.

Reported by: MW Link, PhD, AH Mokdad, PhD, L Elam-Evans, PhD, LS Balluz, PhD, WS Garvin, WP Bartoli, GM Town, MS, M Sussman-Walsh, K O'Neill, D Gilbertz, Div of Adult and Community Health, National Center for Chronic Disease Prevention and Health Promotion; SY Chu, PhD, Office of the Director; GL Euler, DrPH, CJ Brown, MS, PJ Lu, PhD, CB Bridges, MD, Epidemiology and Surveillance Div; S Stokley, MPH, Immunization Svcs Div, National Immunization Program, CDC.

TABLE 2. Primary reasons reported for adults not receiving influenza vaccination*, by vaccination priority status† — Behavioral Risk Factor Surveillance System, United States, 2004–05 influenza season

	No.	va	aving ccine others	co	ied but uld not vaccine	wa	ought is not gible	vac	nought cine was needed§	1	ncerned about accine ¹¹	_	ack of cess**		Other eason
Vaccination priority status	surveyed	% (95% CI ^{††})	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Persons aged 18–64 years with high-risk conditions§§	1,949	10.7	(<u>+</u> 2.5)	20.7	(<u>+</u> 3.2)	7.7	(<u>+</u> 2.6)	27.2	(<u>+</u> 3.8)	10.0	(<u>+</u> 2.5)	5.0	(<u>+</u> 1.5)	18.9	(<u>+</u> 4.0)
Persons aged ≥65 years	1,994	6.4	(<u>+</u> 1.9)	32.5	(<u>+</u> 3.7)	4.2	(<u>+</u> 2.0)	26.1	(<u>+</u> 3.5)	8.7	(<u>+</u> 2.0)	5.4	(<u>+</u> 1.8)	16.7	(<u>+</u> 3.2)
Health-care workers with patient contact ¶¶	676	14.3	(<u>+</u> 4.7)	18.5	(<u>+</u> 4.7)	6.9	(<u>+</u> 3.0)	26.7	(<u>+</u> 5.4)	11.9	(<u>+</u> 5.1)	4.4	(<u>+</u> 2.2)	17.3	(<u>+</u> 6.1)
Total persons in priority groups*** †††	4,579	10.0	(<u>+</u> 1.6)	23.3	(<u>+</u> 2.1)	6.5	(<u>+</u> 1.5)	27.5	(<u>+</u> 2.5)	9.9	(<u>+</u> 1.8)	5.0	(<u>+</u> 1.0)	18.0	(<u>+</u> 2.5)
Nonpriority-group persons aged 18–64 years	8,087	11.1	(<u>+</u> 1.2)	10.4	(<u>+</u> 1.1)	11.3	(<u>+</u> 1.5)	43.2	(<u>+</u> 2.1)	6.4	(<u>+</u> 1.1)	3.3	(<u>+</u> 0.9)	14.3	(<u>+</u> 1.7)

- * Interviews were conducted during December 1–11, 2004. Data reflect partial-season estimates for the 2004–05 influenza season.
- [†] Does not include persons in the following additional vaccination priority groups: residents of nursing homes and long-term-care facilities and out-of-home caregivers for children aged <6 months.
- § Includes the responses: thought vaccine was not needed, doctor did not recommend vaccination, did not know should be vaccinated, thought influenza is not that serious, and had influenza already during the 2004–05 influenza season.
- 1 Includes the responses: concerned about side effects, concerned vaccine can cause influenza, and concerned vaccine does not work.
- ** Includes the responses: plan to get vaccinated later this season, vaccination costs too much, and inconvenient to get vaccinated.
- †† Confidence interval.
- 🖇 Asthma, other lung problems, heart problems, diabetes, kidney problems, weakened immune system, anemia, or pregnancy.
- III Self-reported description might include doctors, nurses, laboratory workers, and office receptionists.
- *** Persons can be included in more than one priority group.
- ††† Includes persons with children aged <6 months in the household; stable estimates for this group could not be estimated separately because of its small sample size.

TABLE 3. Percentage of children aged 6 months–17 years reported receiving influenza vaccination*, by vaccination priority status — Behavioral Risk Factor Surveillance System, United States, 2003–04 and 2004–05 influenza seasons

	Reporting va for the 20			Reporting for the 200		
Vaccination priority status	No. surveyed	%	(95% CI†)	No. surveyed	%	(95% CI)
Children aged 6–23 months	380	36.6	(<u>+</u> 9.5)	§	_	_
Children aged 2–17 years with high-risk conditions¶	484	26.8	(<u>+</u> 7.8)	482	41.7	(<u>+</u> 8.4)
Nonpriority-group children and others aged 2-17 years**	3,804	8.9	(<u>+</u> 2.2)	3,868	20.3	(<u>+</u> 2.8)

- * Interviews were conducted during December 1–11, 2004. Data reflect partial-season estimates for the 2004–05 influenza season.
- † Confidence interval.
- § Many children in this age group would have been aged <6 months during the typical vaccination period for the 2003–04 influenza season and not eligible for influenza vaccination.
- ¶ Asthma, other lung problems, heart problems, diabetes, kidney problems, weakened immune system, anemia, or aspirin therapy.
- ** Includes children aged 2–17 years who might be in additional priority groups, such as those with rare conditions not included in the survey and household contacts or out-of-home caregivers for children aged <6 months.

TABLE 4. Primary reasons reported for children aged 6 months-17 years not receiving influenza vaccination*, by vaccination priority status — Behavioral Risk Factor Surveillance System, United States, 2004-05 influenza season

	No.	va	aving ccine others	COL	ed but uld not vaccine	W	ought as not ligible	vaco	ought ine was needed†		Other asons§
Vaccination priority status	surveyed	%	(95% CI ¹)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Children aged 6–23 months Children aged 2–17 years with high-risk	194	0.3	(<u>+</u> 0.5)	8.4	(<u>+</u> 5.3)	1.0	(<u>+</u> 1.0)	62.6	(<u>+</u> 14.1)	27.7	(<u>+</u> 12.2)
conditions** Nonpriority-group children and others	337	10.3	(<u>+</u> 5.6)	14.4	(<u>+</u> 7.4)	12.5	(<u>+</u> 7.1)	38.4	(<u>+</u> 10.4)	24.4	(<u>+</u> 8.2)
aged 2–17 years ^{††}	3,340	7.7	(<u>+</u> 1.8)	8.5	(<u>+</u> 1.9)	9.2	(<u>+</u> 2.0)	54.5	(<u>+</u> 3.3)	20.2	(<u>+</u> 2.7)

- * Interviews were conducted during December 1-11, 2004. Data reflect partial-season estimates for the 2004-05 influenza season.
- † Includes the responses: thought child did not need vaccine, doctor did not recommend vaccination, did not know child should be vaccinated, thought influenza is not that serious, and child had influenza already during the 2004–05 influenza season.
- § Includes the responses: concerned about side effects, concerned vaccine can cause influenza, concerned vaccine does not work, plan to get child vaccinated later this season, vaccination costs too much, inconvenient to get vaccinated, and other reasons not listed.
- ¶ Confidence interval.
- ** Asthma, other lung problems, heart problems, diabetes, kidney problems, weakened immune system, anemia, or aspirin therapy.
- †† Includes children aged 2–17 years who might be in additional priority groups, such as those with rare conditions not included in the survey and household contacts or out-of-home caregivers for children aged <6 months.

o·rig·i·nal: adj

(ə-'rij-ən-°l) 1 : being the first instance or source from which a copy, reproduction, or translation can be made;

see also MMWR.



Editorial Note: Influenza vaccination coverage data from the period September 1–November 30 suggest that persons in influenza vaccine priority groups are receiving vaccine at higher rates than persons in nonpriority groups at this point in the 2004–05 season. However, these early estimates of vaccine coverage among priority groups are below the vaccination rates for the full 2003–04 season for these groups. Efforts to vaccinate these persons should continue as vaccine becomes available.

Data from the 2003 National Immunization Survey (NIS) indicate that vaccination coverage among children aged 6–23 months for the 2002–03 influenza season was substantially lower (7.4%) than the 2004–05 partial season coverage indicated by BRFSS data (36.6%) (5). In 2002, ACIP first encouraged influenza vaccination of children aged 6–23 months and close contacts of children aged <2 years, when feasible. In April 2004, ACIP strengthened that encouragement into a recommendation that all children aged 6–23 months be vaccinated annually for influenza (2). However, the majority (62.6%) of respondents with unvaccinated children aged 6–23 months did not think vaccination was needed for those children, indicating that further efforts are needed to educate the public about the new influenza vaccination recommendation for young children.

The findings in this report are subject to at least four limitations. First, BRFSS is a land-line telephone-based survey and excludes those segments of the population without telephones or who use only cellular telephones. Second, data are self reported and subject to recall bias, particularly for questions that require recall over a longer period; therefore, for certain behaviors, prevalence estimates might be under- or overestimated. Third, certain influenza vaccine priority groups were not considered in the survey, including institutionalized adults and adult caretakers of children aged <6 months outside of the home (e.g., child care workers). Finally, because interviewing is not yet completed for December, these estimates might be subject to nonresponse bias if the responses from those who will be interviewed later in the month differ substantially from the results in this report. However, these vaccination coverage estimates are higher than estimates from BRFSS data collected in November and are consistent with public health messages encouraging those in priority groups to seek vaccination and asking others to forego vaccination.

Estimates from BRFSS data of vaccination coverage for certain priority groups differ from those obtained by the influenza survey of the Harvard School of Public Health (HSPH), also published in this issue (6). The methodologies used in these surveys differ in at least three important respects, which might contribute to the differences in results. First, the interviews were conducted at different times and provide estimates of vaccination coverage at different points in the

2004–05 influenza season. BRFSS was conducted during December 1–11; the HSPH survey was conducted during October 29–November 9. Second, BRFSS data were collected individually by 48 states and the District of Columbia and reflect the combined responses of more than 16,713 adults; the HSPH survey was a national survey of 1,227 adults. Finally, the two surveys differed in how they measured the impact of the vaccine shortage on vaccination coverage. BRFSS asked a single, open-ended question of adults and one of adults residing with children to assess the primary reason persons had not received vaccination as of the date of interview. HSPH used a more extensive series of questions to assess the impact of the shortage.

Influenza vaccination coverage estimates from this survey, when applied to U.S. population estimates for each of the priority and nonpriority groups, indicate that an estimated 45 million doses of influenza vaccine had been administered to noninstitutionalized persons as of November 30; approximately 73% of these doses were obtained by persons in priority groups. An estimated 58 million doses of inactivated vaccine and up to 3 million doses of LAIV are expected to be available for the United States for this influenza season. Thus, adequate doses of vaccine appear to remain to meet the anticipated demand among priority groups for influenza vaccination, based on 2003-04 coverage estimates from this survey. Although the survey did not assess coverage among institutionalized persons in priority groups, this projection also suggests that vaccine should be available to meet the demand of the nation's approximately 1.5 million nursing home residents. In addition, use of LAIV is an option for the vaccination of persons in certain priority groups (e.g., healthcare workers who do not work with severely immunocompromised persons and household contacts of children aged <6 months). LAIV is approved by the Food and Drug Administration for use among healthy persons aged 5–49 years who are not pregnant.

Geographic differences in vaccine distribution and demand exist. To ensure that all available vaccine is used, state or local public health officials who determine that all persons in priority groups seeking vaccine have received vaccination and additional vaccine remains on hand might choose to recommend limited expansion of vaccination eligibility in their areas. Such expansion might include persons aged 50–65 years, household contacts of persons in priority groups, or other populations considered at increased risk by state or local officials. However, even if such a recommendation is made, private providers with large volumes of unused vaccine should, wherever practical, work with the state to transfer these doses to other states with unmet needs among persons in the ACIP priority groups.

CDC continues to work with manufacturers, distributors, and state immunization programs to distribute vaccine to those states with unmet demand among the priority groups. Until the demand for vaccine has been met for all persons in ACIP priority groups in all states, vaccine held in the public sector should continue to be shared with those states whose vaccine supply is not sufficient to cover their priority groups. Persons with questions regarding influenza vaccine availability should contact their state and local health departments.

References

- 1. CDC. Interim influenza vaccination recommendations, 2004–05 influenza season. MMWR 2004;53:923–4.
- CDC. Prevention and control of influenza: recommendations from the Advisory Committee on Immunization Practices (ACIP). MMWR 2004;53(No. RR-6).
- CDC. Public health surveillance for behavioral risk factors in a changing environment. MMWR 2003;52(No. RR-9).
- Nelson D, Holtzman D, Bolen J, Stanwyck C, Mack K. Reliability and validity of measures from the Behavioral Risk Factor Surveillance System (BRFSS). Soz Praventivmed 2001;46(Suppl 1):S3–S42.
- CDC. Childhood influenza-vaccination coverage—United States, 2002–03 influenza season. MMWR 2004;53:863.
- CDC. Experiences with obtaining influenza vaccination among persons in priority groups during a vaccine shortage—United States, October–November, 2004. MMWR 2004;53:1153–5.

Experiences with Obtaining Influenza Vaccination Among Persons in Priority Groups During a Vaccine Shortage — United States, October–November, 2004

After the announcement that the supply of inactivated influenza vaccine available to the U.S. public for the 2004-05 influenza season would be reduced by approximately one half, the Advisory Committee on Immunization Practices (ACIP) recommended that the remaining vaccine supply should be reserved for 1) certain groups of persons at high risk for serious health problems from influenza, 2) healthcare workers involved in direct patient care, and 3) close contacts of children aged <6 months (1). To determine what proportion of persons at increased risk for influenza complications had been vaccinated as of the day of the survey, what proportion sought vaccination but did not receive it because of the shortage, and what factors might be dissuading persons at high risk from seeking influenza vaccination, Harvard School of Public Health (HSPH), in collaboration with International Communications Research, conducted a national survey. This report summarizes the results of that survey, which indicated that approximately 63% of persons aged ≥65 years and 46% of chronically ill adults who tried to get the influenza vaccine were able to do so. More than half of adults at high risk did not try to get the influenza vaccine. Because available supplies of inactivated influenza vaccine are targeted to high-risk groups, persons in these groups should continue to pursue vaccination.

HSPH provides CDC with technical assistance for public health communication by monitoring the response of the general public to public health threats. National polling on what the public knows, believes, and experiences in regard to seeking and receiving influenza vaccination during a national vaccine shortage is the basis of the data presented in this report.

During October 29-November 9, 2004, telephone interviews were conducted to assess experiences of respondents with obtaining the influenza vaccine. The survey was conducted by International Communications Research as part of an omnibus survey. The omnibus survey is a national, biweekly telephone survey that can include questions on several topics; however, because of the length of the questionnaire, the omnibus survey regarding influenza vaccination only included the HSPH questions. Respondents were asked 1) if they tried to get the influenza vaccine during the preceding 3 months, 2) if so, whether they were able to get the vaccine, and 3) whether they experienced any problems while trying to get the vaccine. Respondents who did not try to get the vaccine were asked why they did not. Respondents were also asked about their willingness to receive an imported influenza vaccine not licensed for general use in the United States. Parents of children aged 6-23 months were asked these questions about their children in that age group.

The questionnaire was administered to adults aged ≥18 years who were selected by using a fully replicated, stratified, single-stage, random-digit—dialing sample of households nationally*. Within each household, an adult respondent was randomly selected by asking for the adult with the most recent birthday. A total of 1,227 adults completed interviews. This group included an oversample of parents with children aged 6–23 months. A total of 249 interviews were completed with this latter group. Parents were asked vaccine-related questions about each of their children in the age group.

The data analysis targeted three groups at high risk included among those prioritized by ACIP for influenza vaccination in 2004: 1) persons aged ≥65 years, 2) persons aged 18–64 years with underlying chronic medical conditions, and 3) children aged 6–23 months. The data were weighted to account for the disproportionate probability of household selection attributable to multiple telephone lines and the probability associated with the random selection of an individual household

^{*} Similar questions were asked in the Behavioral Risk Factor Surveillance System survey reported in this issue of MMWR (2).

member. Following the application of the above weight, the sample was post-stratified and balanced by age, sex, race/ethnicity, education, region, census division, and metropolitan status to be nationally representative. Statistical software was used to calculate standard errors for weighted data. Confidence intervals (CIs) also were calculated.

Adults in Priority Groups

Among adult respondents, 242 (19%) were aged \geq 65 years; 306 (25%) had been told by a doctor that they had one of the following health conditions: heart or lung disease, asthma, kidney disease, diabetes, or a disease that causes decreased immunity (e.g., cancer or HIV/AIDS). For this analysis, these groups were combined and referenced as adults at high risk (n = 427), unless otherwise noted.

Among adults aged \geq 65 years, 119 (49%) tried to get the influenza vaccine during the preceding 3 months. Among those in this age group who tried to get the vaccine, 75 (63%) were able to get the vaccine, and 44 (37%) were unable to do so. A total of 113 (37%) adults with a chronic illness tried to get the vaccine; among those who tried to get the vaccine, 52 (46%) were able to get it, whereas 61 (54%) reported being unable to do so (Table 1).

Respondents were asked to rate problems as either major problems they experienced when trying to get the vaccine, minor problems, or not problems at all (Table 2). The leading problems experienced by the 81 adults at high risk who tried and could not get the vaccine included the following: 1) no vaccine was available when they tried to get it (55 [68%] cited this as a major problem) and 2) finding a place where they could get the vaccine was difficult (41 [50%]).

TABLE 1. Percentage of respondents who reported that they tried to get the influenza vaccine during the preceding 3 months, by priority group — Project on the Public and Biological Security, Harvard School of Public Health, United States, 2004

Priority group	%	(95% CI*)
Persons aged ≥65 years (n = 242)		
Did not try to get vaccine	51	(42-59)
Tried to get the influenza vaccine	49	(41–56)
Could not get the vaccine	37	(28–46)
Received the vaccine	63	(54-72)
Persons with chronic illness (n = 306)		
Did not try to get vaccine	63	(56-70)
Tried to get the influenza vaccine	37	(29-44)
Could not get the vaccine	54	(45–63)
Received the vaccine	46	(37–55)
Children aged 6–23 months (n = 249)		
Did not try to get vaccine	50	(39-59)
Tried to get the influenza vaccine	50	(39-59)
Could not get the vaccine	24	(16–32)
Received the vaccine	76	(68–84)

^{*} Confidence interval.

TABLE 2. Percentage of adults with a chronic health condition or those aged ≥65 years who tried and were unable to get influenza vaccination, by major problem cited — Project on the Public and Biological Security, Harvard School of Public Health, United States, 2004

Problem cited	%	(95% CI*)
There was no vaccine available when you went to get it.	68	(55–82)
It was hard to find a place where you could get the vaccine.	50	(37–64)
The times that the vaccine was available were inconvenient.	24	(12–36)
The health-care provider told you that you should not get one because there were shortages and you were not at high risk for having a serious case of influenza.	15	(5–24)
The vaccine was expensive.	4	(0-10)
The health-care provider told you that you should not get one for medical reasons.	4	(1–8)

^{*} Confidence interval.

Among the 427 adults at high risk as defined above, 257 (60%) (CI = 54%–66%) reported that they did not try to get the influenza vaccine during the preceding 3 months. Awareness of the influenza vaccine shortage was an important reason cited for not trying to get the vaccine: 82 of these 257 (32%) (CI = 24%–40%) said either that they were waiting until more vaccine was available or that they believed that, because of shortages, they could not get the vaccine. Other major reasons included 1) believing that they were not at high risk for getting a serious case of influenza (53 [21%]; CI = 14%–27%), 2) not believing that the vaccine would be effective in preventing them from getting influenza (45 [18%]; CI = 11%–25%), and 3) concerns that they could get influenza from the vaccine (46 [18%]; CI = 12%–25%).

Children Aged 6-23 Months

Of parents with children aged 6–23 months, 125 (50%) (CI = 39%–59%) tried to get the vaccine for their child; 95 (76%) of those parents who tried to get the vaccine for their child reported that they were able to get the influenza vaccine, and 30 (24%) reported that they were unable to do so (Table 1).

Few problems were reported by parents who tried to get the vaccine. A total of 14 (11%) (CI = 1%–17%) parents who tried to get the vaccine for their child reported problems, including 1) difficulty finding vaccine, 2) inconvenient times, and 3) a health-care provider advising against their child receiving vaccine because of the shortages or for a medical reason.

For children aged 6–23 months, the leading reasons for not trying to get inactivated influenza vaccine reported by parents were 1) not believing their children were at risk for a serious

case of influenza (26 [21%]; CI = 10%–37%); 2) concern about the side effects (24 [19%]; CI = 6%–32%); 3) being told by a health-care provider that the child should not get the vaccine because of the shortages and because the child was not at high risk for having a serious case of influenza (22 [18%]; CI = 7%–34%); and 4) not believing that the influenza vaccine was effective (16 [13%]; CI = 4%–22%).

Importation of Influenza Vaccine Not Licensed by FDA

To ease the vaccine shortage in the United States, the U.S. government has announced its intention to import from Germany influenza vaccine not licensed by the Food and Drug Administration (FDA). The vaccine, Fluarix (GlaxoSmithKline, Dresden, Germany), although fully licensed for use in Germany, is not approved for general use in the United States and is therefore considered to be investigational. Respondents were asked if they would be willing to take the vaccine after being told that the vaccine was investigational. Fifty-six percent (CI = 49%–63%) of adults at high risk said they would be willing to receive this vaccine if no other vaccine were available. U.S. persons who elect to receive investigational vaccines are required to sign a form. With this requirement imposed, willingness to take the vaccine decreased to 40% (CI = 34%–46%) among adults at high risk.

Reported by: RJ Blendon, ScD, CM DesRoches, DrPH, JM Benson, MA, KJ Weldon, Harvard School of Public Health, Boston, Massachusetts.

Editorial Note: The findings in this report suggest that, during the current vaccine shortage, approximately 63% of persons aged >65 years and 46% of chronically ill adults who tried to get the influenza vaccine were able to do so. However, more than half of adults at high risk did not try to get the influenza vaccine. For many of these respondents, this was because of perceived shortages, underscoring the need to continue to encourage these groups to pursue vaccination. Efforts to vaccinate these groups should include measures to educate them about the severity of influenza and the effectiveness of the vaccine and address unwarranted fears of getting influenza from the vaccine. Finally, the reluctance expressed by adults in priority groups about receiving imported influenza vaccine not licensed by FDA suggests the need for educational efforts to provide reassurance that this vaccine is approved for use in Germany by government agencies similar to the FDA.

In 2004, for the first time, ACIP recommended that children aged 6–23 months be vaccinated. The findings in this report suggest that parents of children in this age group who tried to get the vaccine for their children experienced fewer

difficulties in getting the vaccine than persons aged \geq 65 years or those with chronic illnesses.

The findings in this report are subject to at least two limitations. First, because the study was conducted as part of an omnibus survey, the data are not collected in a way that allows for the calculation of the response rate. However, studies have indicated that when the results from a survey with a long field period and high response rate are compared with a survey with a field time that is similar to the HSPH survey, few statistically significant differences are observed between responses from the two surveys when the data are statistically reweighted (3–6). Second, the survey sample included only noninstitutionalized persons. Nursing home residents, who are excluded from the sample, might receive the influenza vaccine at a different rate than those in the study sample.

The results of the HSPH survey differ from those of the Behavioral Risk Factor Surveillance System (BRFSS) survey, also published in this issue (2). Important differences in survey methodologies might contribute to the differences in results. The primary differences are that 1) the surveys were conducted during different periods (i.e., October 29–November 9 for HSPH and December 1–11 for BRFSS); 2) somewhat different questions were asked; and 3) the HSPH data came from a single, national sample, but BRFSS data were collected individually by 48 states and the District of Columbia. Despite these differences, both surveys demonstrate a substantial need for the influenza vaccine that has not been met.

Assuming that an adequate vaccine supply will be available for persons in priority groups this season, health-care providers should continue to emphasize 1) the need for these groups to get vaccinated this season and 2) the availability of vaccine allowing all persons in these groups to get vaccinated. Influenza vaccine should continue to be directed to areas most affected by the shortage.

References

- 1. US Department of Health and Human Services, CDC. Interim influenza vaccination recommendations, 2004–05 season. Available at http://www.cdc.gov/flu/protect/whoshouldget.htm.
- CDC. Estimated influenza vaccination coverage among adults and children—United States, September 1–November 30, 2004. MMWR 2004;53:1147–53.
- 3. Blendon RJ, Benson JM, DesRoches CM, Weldon KJ. Using opinion surveys to track the public's response to a bioterrorist attack. Journal of Health Communication 2003;8:83–92.
- 4. Pew Research Center for the People and the Press. Polls face growing resistance, but still representative: survey experiment shows. Washington, DC: Pew Research Center for the People and the Press; 2004. Available at http://www.people-press.org/reports/display.php3?Report ID-221
- Keeter S, Miller C, Kohut A, Groves RM, Presser S. Consequences of reducing nonresponse in a national telephone survey. Public Opinion Quarterly 2000;64:125–48.
- 6. Curtin R, Presser S, Singer E. The effect of response rate changes on the Index of Consumer Sentiment. Public Opinion Quarterly 2000; 64:413–28.

Experiences with Influenza-Like Illness and Attitudes Regarding Influenza Prevention — United States, 2003–04 Influenza Season

Despite advances in medical treatment, influenza results in approximately 36,000 deaths each year in the United States (1). Vaccination has been a mainstay of influenza prevention, with annual vaccination recommended for adults and children at high risk; efforts to interrupt person-to-person transmission are also important. In October 2003, CDC recommended that health-care facilities implement a Universal Respiratory Hygiene Strategy, including providing masks or facial tissues in waiting rooms to persons with respiratory symptoms (2). To gather information on influenza-like illness (ILI) and attitudes regarding prevention of ILI (including use of vaccine and respiratory hygiene), CDC and 11 Emerging Infections Programs (EIPs) conducted a random-digit-dialed telephone survey of noninstitutionalized U.S. civilian adults in February 2004. This report summarizes the results of that survey, which determined that 43% of adults and 69% of children aged 6 months-17 years with ILI visited a healthcare provider for the illness. Eight percent of adults with ILI reported having been asked by a health-care provider to wear a mask; 82% said they would wear a mask if requested. With the limited availability of influenza vaccine this season, the use of masks by persons with cough illnesses in health-care settings, a component of the Universal Respiratory Hygiene Strategy, might be a helpful and acceptable method for decreasing influenza transmission.

EIP is a population-based network consisting of CDC, state health departments, and local collaborators to assess the impact of emerging infections and evaluate methods for their prevention and control (3). For this survey, data were collected from a stratified random sample of telephone-equipped households in all 11 EIP surveillance areas* that covered selected counties of certain states and the entire populations of others. During February 6–22, 2004, a total of 200 eligible households in each area were selected by list-assisted random-digit—dialing from a sampling frame of possible telephone numbers filtered to eliminate unused or business exchanges. When an adult in an eligible household declined to partici-

pate or could not be contacted after six attempts, a substitute number was selected randomly from the list. The survey was confidential, and respondents gave consent for participation. One English-speaking adult aged ≥18 years was interviewed in each participating household. The survey assessed ILI by self-report, visits to health-care providers, prescription of medication for self-reported ILI, attitudes about vaccination against influenza, and willingness to take measures that might prevent influenza transmission. Questions addressed the period October 1, 2003, through the time of the interview in February 2004. Data were weighted to reflect the age, sex, and racial/ethnic distributions of the population of each area. Proportions, risk ratios, and confidence intervals were calculated by statistical software.

A total of 2,231 surveys were completed. Among eligible respondents, 48.7% consented to participate. The median age of respondents was 43 years (range: 18–97 years), and 51.3% were female. The proportion of surveyed adults who responded "yes" to the question "Have you had an illness you thought was the flu at any time since October?" was 17.8% (Table 1). Of these, 53.2% reported having a sudden high fever with cough or sore throat. For the 811 households with at least one child aged 6 months–17 years at the time of interview, one child was randomly selected; of these, 23.9% had ILI from October 2003 through the time of the interview. Among children with reported ILI, 68.9% had symptoms of fever with cough and/or sore throat. On average, reported ILI occurrence among children and adults peaked during December 2003.

Of those for whom ILI was reported, 43.3% of adults and 69.2% of children visited a health-care provider for the illness (Table 1). The provider reportedly told 64.5% of these adults and 47.6% of these children that they had influenza; 37.2% of adults with a clinical diagnosis of influenza were tested for influenza, compared with 65.0% of children. Of adults who visited a provider, 85.9% received a prescription for medication, most commonly an antibiotic (33.1%).

Approximately 8.2% of adults who visited a health-care provider for ILI said they were asked to wear a mask; 82.4% of all respondents said they would wear a mask while waiting at the doctor's office or hospital if asked to by their health-care provider (Table 2). Fewer respondents agreed with the statements "people with a cough should wear a mask while waiting to see a health-care provider" and "people who are sick and able to spread germs should wear a mask in public" (62.8% and 59.0%, respectively).

Approximately 70% of all respondents said they believed the influenza vaccine for the 2003–04 season was "somewhat" or "very effective," 32.8% said they believed the influenza vaccine causes influenza, and 10.7% reported experiencing prob-

^{*} EIP surveillance areas include the entire states of Connecticut, Georgia, Maryland, Minnesota, New Mexico, Oregon, Tennessee, and Texas, and selected counties in California (Alameda, Contra Costa, and San Francisco), Colorado (Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, and Jefferson), New York (Albany, Columbia, Erie, Genesee, Greene, Livingston, Monroe, Montgomery, Niagara, Ontario, Orleans, Rensselaer, Saratoga, Schenectady, Schoharie, Wayne, Wyoming, and Yates), and Tennessee (Cheatham, Davidson, Dickson, Hamilton, Knox, Robertson, Rutherford, Shelby, Sumner, Williamson, and Wilson).

TABLE 1. Prevalence of self-reported influenza-like illness (ILI), treatment, and disease burden among adults and children — Emerging Infections Program Population Survey, United States, 2004*

	(1	Adults n = 2,231)		Children n = 811)
Status	% [†]	(95% CI [§])	%	(95% CI)
Reported ILI	17.8	(14.8–20.7)	23.9 [¶]	(19.3–28.6)
Visited health-care provider	43.3	(34.0-52.6)	69.2 [¶]	(60.0-78.4)
Received prescription medication at health-care-provider visit**	85.9	(79.3–92.5)	††	_
Anti-influenza medication	14.7	(1.4-28.1)	_	_
Antibiotic	33.1	(17.7-48.4)	_	_
Other (e.g., decongestant or antitussive)	25.0	(10.8-39.3)	_	_
Unknown	27.2	(13.7-40.6)	_	_
Hospitalized for self-reported influenza	0.1	(-0.2-0.5)	0.5 [¶]	(-0.3-1.2)
Missed work or school because of ILI in self or family member	15.9	(13.2-18.6)	_	_
Attended work or school while ill with ILI symptoms	82.7	(71.8–93.6)	_	_

^{*} The survey was conducted among residents of the entire states of Connecticut, Georgia, Maryland, Minnesota, New Mexico, Oregon, Tennessee, and Texas, and among residents of selected counties in California (Alameda, Contra Costa, and San Francisco), Colorado (Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, and Jefferson), New York (Albany, Columbia, Erie, Genesee, Greene, Livingston, Monroe, Montgomery, Niagara, Ontario, Orleans, Rensselaer, Saratoga, Schenectady, Schoharie, Wayne, Wyoming, and Yates), and Tennessee (Cheatham, Davidson, Dickson, Hamilton, Knox, Robertson, Rutherford, Shelby, Sumner, Williamson, and Wilson).

TABLE 2. Prevalence of selected attitudes and beliefs regarding measures to prevent influenza and other respiratory illnesses — Emerging Infections Program Population Survey, United States, 2004

Attitude/Belief	%*	(95% CI†)
Willing to vaccinate children against influenza annually (if children live in household)	63.8	(58.8–68.7)
Willing to wear mask while waiting to see health-care provider	82.4	(79.8–85.0)
Believe persons with cough should wear mask while waiting to see health-care provider	62.8	(59.5-66.1)
Believe persons who are ill and able to spread germs should wear mask in public	59.0	(55.7-62.4)
Believe influenza vaccine is somewhat or very effective	71.3	(68.3–74.3)
Believe influenza vaccine causes influenza	32.8	(29.6-36.1)

 $_{\scriptscriptstyle +}^{\star}$ Percentages were weighted to reflect the age, sex, and racial/ethnic distributions of the population in each area.

lems obtaining influenza vaccine because of limited supply. Sixty percent of respondents said they planned to seek influenza vaccine during the 2004–05 influenza season, including one third of those who said they were not vaccinated during 2003–04. Among respondents from households with children, 63.8% said they would be willing to have their child or children vaccinated against influenza annually.

Reported by: D Vugia, MD, California Dept of Health Svcs. K Gershman, MD, Emerging Infections Program, Colorado Dept of Public Health. JL Hadler, MD, Connecticut Dept of Public Health. S Segler, MPH, Georgia Emerging Infections Program, Veterans Affairs Medical Center and Emory Univ School of Medicine, Atlanta, Georgia. PA Ryan, MSc, Maryland Dept of Health and Mental Hygiene. R Lynfield, MD, Minnesota Dept of Health. J Baumbach, MD, New Mexico Dept of Health. NM Bennett, MD, Monroe County Health Dept, Rochester, New York. PR Cieslak, MD, Oregon Dept of Human Svcs. A Craig, MD, Tennessee Dept of Health. D Perrotta, PhD, Texas Dept of Health. C Whitney, MD, SI McCoy, MPH, E Zell, MStat, Div of Bacterial and Mycotic Diseases; D Shay, MD, Div of Viral and Rickettsial Diseases; C Rebmann, MPH, Office of Surveillance, National Center for Infectious Diseases; K Cowgill, PhD, EIS Officer, CDC.

Editorial Note: The 2003–04 influenza season was notable for several reasons: 1) in certain states, the season began as early as October; 2) a suboptimal antigenic match between the dominant influenza A (H3N2) subtype circulating in the community (Fujian/411/2002) and that in the vaccine (Panama/2007/99) occurred; and 3) early reports of deaths among children helped create a high demand for vaccine (4). Because of these factors, the media focused substantial attention on influenza and vaccination. This setting provided an opportunity to evaluate the acceptability of influenza prevention measures among the public.

Droplets of respiratory secretions are believed to be the primary means of person-to-person influenza transmission; spread can also occur through direct person-to-person contact or through fomites (5). For periods of increased respiratory-infection activity, the Universal Respiratory Hygiene Strategy recommends that health-care facilities provide masks or facial tissues to persons who are coughing and that hand-hygiene agents (e.g., alcohol-based hand gels) be readily available (2).

[†] Percentages were weighted to reflect the age, sex, and racial/ethnic distributions of the population in each area.

[§] Confidence interval.

[¶] Randomly selected child aged 6 months–17 years.

^{**} Medications classified during analysis based on names provided by respondents.

^{††} Data not available.

[†]Confidence interval.

Use of surgical masks by health-care professionals to protect against infection with influenza and other respiratory pathogens is also an established component of hospital infection control (6); however, its effectiveness in preventing transmission from influenza patients to others in outpatient settings has not been determined (4). Hand washing has been demonstrated to be effective in reducing respiratory illness, and alcohol-based hand sanitizers can kill influenza viruses on hands; however, studies of hand-hygiene measures on influenza transmission are lacking (5,7). Likewise, few published data are available on the public's willingness to wear masks or use other measures to prevent transmission of respiratory illnesses.

The survey results indicated that at least 8% of respondents with ILI had been asked by their health-care providers to wear a mask while waiting to be examined, and more than 80% of respondents indicated a willingness to do so in the future. Information about the acceptability of such intervention measures might be useful in managing large outbreaks, including pandemic influenza. Although only 8% of those visiting a health-care provider for ILI were asked to wear a mask, many of those visits might have been to doctors' offices; mask usage might be higher in other health-care settings. Use of tissues for reducing droplet spread and use of hand-hygiene agents were not evaluated in this survey. With the limited availability of influenza vaccine this season, the use of masks by persons with cough illnesses in health-care settings and other components of the Universal Respiratory Hygiene Strategy (e.g., tissues and alcohol-based hand sanitizers) might help decrease influenza transmission.

The survey findings suggest that children were disproportionately affected by ILI during the 2003–04 season. Reported ILI was one third more common among children than adults, and reported symptoms in children were more frequently consistent with the ILI surveillance case definition (temperature >100.0°F [>37.8°C] and cough or sore throat in the absence of a known cause other than influenza). Health-care use (including provider visits, influenza testing, and hospitalization) was more common among children than adults with reported ILI. Recent recommendations for providing influenza vaccine to all young children were designed to address the substantial disease burden among this age group (1). More than one half of respondents from households with children said they would participate in annual influenza vaccination of children.

The findings in this report are subject to at least two limitations. First, certain sampling factors (low response rate, limited sampling area, and restriction to English-speaking respondents) might mean that some of the results are not representative of the entire U.S. population. Second, self-reported ILI symptoms are not specific for influenza; because other etiologic agents can cause influenza-like symptoms, the true incidence of influenza is expected to be lower (8).

In addition to indicating that persons with respiratory illness might be willing to wear masks in health-care settings, the results of this survey also suggest opportunities for improving vaccination coverage. Although a majority of respondents said they believed the 2003–04 influenza vaccine was "somewhat" or "very effective," at least one tenth reported problems obtaining vaccine, and nearly one third reported believing that influenza vaccine causes influenza. Educational efforts about the effectiveness of influenza vaccination and improved supply and distribution of vaccine might improve vaccination coverage levels.

Acknowledgments

The findings in this report are based, in part, on contributions by ORC/MACRO, Inc., Washington, DC. S Feavor, MPH, C Miller, MPH, R Danila, PhD, Minnesota Dept of Health. W Schaffner, MD, B Barnes, Vanderbilt Univ School of Medicine, Nashville, Tennessee. ML Cartter, MD, Connecticut Dept of Public Health. A Thomas, MD, Oregon Dept of Human Svcs. R Pinner, MD, A Slaughter, Office of the Director; A Banerjee, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC.

References

- CDC. Prevention and control of influenza: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2004;53(No. RR-6).
- CDC. Respiratory hygiene/cough etiquette in health-care settings. Atlanta, GA: US Department of Health and Human Services, CDC; 2003. Available at http://www.cdc.gov/flu/professionals/infectioncontrol/resphygiene.htm.
- Pinner RW, Rebman CA, Schuchat A, Hughes JM. Disease surveillance and the academic, clinical, and public health communities. Emerg Infect Dis 2003;9:781–7.
- CDC. Update: influenza activity—United States and worldwide, 2003–04 season, and composition of the 2004–05 influenza vaccine. MMWR 2004;53:547–52.
- 5. Bridges CB, Kuehnert MJ, Hall CB. Transmission of influenza: implications for control in health care settings. Clin Infect Dis 2003;37:1094–101.
- CDC. Guidelines for preventing health-care—associated pneumonia, 2003: recommendations of CDC and the Healthcare Infection Control Practices Advisory Committee. MMWR 2004;53(No. RR-3).
- 7. Healthcare Infection Control Practices Advisory Committee and Hand-Hygiene Task Force; Society for Healthcare Epidemiology of America; Association for Professionals in Infection Control and Epidemiology; Infection Diseases Society of America. Guideline for hand hygiene in healthcare settings. J Am Coll Surg 2004;198:121–7.
- 8. CDC. Considerations for distinguishing influenza-like illness from inhalational anthrax. MMWR 2001;50:984–6.

Brief Report

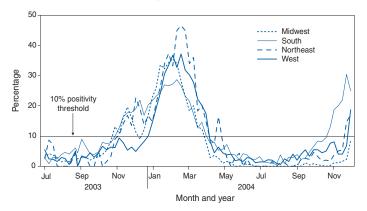
Respiratory Syncytial Virus Activity — United States, 2003–2004

Respiratory syncytial virus (RSV) is a major cause of lower respiratory tract infections (LRTIs) (i.e., bronchiolitis and pneumonia) among young children, resulting in an estimated 51,000–82,000 hospitalizations annually (1). RSV causes severe disease among older adults and persons of all ages with compromised respiratory, cardiac, or immune systems, and can exacerbate chronic cardiac and pulmonary conditions (1–4). In temperate climates, RSV infections occur primarily during annual winter season outbreaks. This report summarizes trends in RSV activity reported to the National Respiratory and Enteric Virus Surveillance System (NREVSS) during July 2003–June 2004 and presents preliminary data from the weeks ending July 3-December 4, 2004, indicating the onset of the 2004-05 RSV season. Health-care providers should consider RSV in the differential diagnosis for persons of all ages with LRTIs, implement appropriate isolation precautions to prevent nosocomial transmission (5), and provide appropriate immune prophylaxis to eligible children, including certain premature infants or children and infants with chronic lung and heart disease (6).

NREVSS is a voluntary, laboratory-based surveillance system of 87 clinical and public health laboratories in 40 states and the District of Columbia. The laboratories report weekly to CDC the number of specimens tested and number positive for several respiratory and enteric viruses by antigen detection and virus isolation methods. During July 2003–June 2004, of 172,247 tests for RSV reported, 21,236 (12%) were positive.

Widespread RSV activity* began the week ending November 1, 2003, and continued for 22 weeks until April 3, 2004. Activity peaked during February for all regions† (Figure). Regional RSV activity occurred earliest in the South (35 sites reporting; median weeks of onset and conclusion: November 1, 2003, and March 27, 2004, respectively), later in the Northeast (seven sites; December 6, 2003, and March 27, 2004) and the Midwest (20 sites; December 6, 2003, and March 27,

FIGURE. Percentage of specimens testing positive by antigen detection for respiratory syncytial virus, by region* and week of report — United States, July 2003–November 2004



^{*} Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

2004), and latest in the West (16 sites; December 27, 2003, and April 3, 2004).

Although 93% of RSV detections were reported from the weeks ending November 1, 2003–April 3, 2004, sporadic detections were reported throughout the year. During May–October 2004, laboratories in 33 states with at least one laboratory per region reported RSV detections.

For the current reporting period (July 3–December 4, 2004), 84 laboratories in 42 states reported testing for RSV. Since November 6, a total of 50 participating laboratories have reported RSV detections. Preliminary 2004–05 data suggest that the annual outbreak has begun in two regions—in the South during the week ending October 30 and in the Northeast during the week ending November 27 (Figure).

Because RSV infection only confers partial protection from subsequent infection, reinfections occur throughout life (3,4). As a result, health-care providers should consider RSV as a cause of acute respiratory disease in all age groups during community outbreaks, particularly in young children. Rapid diagnostic techniques for clinical use vary in sensitivity and specificity. Certain assays are sensitive for diagnosis in infants and young children, but few are sensitive for diagnosis in older children and adults. Polymerase chain reaction—based assays with enhanced product detection systems can be sufficiently sensitive to detect most infections in all age groups (7,8). Accurate diagnosis of RSV infection is crucial for appropriate infection control, to rule out cocirculating viruses (e.g., influenza viruses) and to avoid inappropriate use of

^{*}Widespread RSV activity is defined by NREVSS as the first of 2 consecutive weeks, when 50% of participating laboratories report RSV detections or isolations and when a mean percentage of specimens positive by antigen detection is >10%.

[†] Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

antimicrobial agents. Infants and children at risk for serious RSV infection should receive monthly doses of humanized murine anti-RSV monoclonal antibody throughout the RSV season (6). Infants and children at risk include those aged <24 months with chronic lung disease who have required medical therapy (e.g., supplemental oxygen, bronchodilator, diuretic, or corticosteroid therapy) within 6 months of RSV season onset and those with hemodynamically significant heart disease, and preterm infants born at <32 weeks' gestation or preterm infants born at 32-35 weeks' gestation with at least two additional risk factors (e.g., child care attendance, exposure to environmental pollutants, school-aged siblings, congenital abnormalities of the airways, or neuromuscular disease) during their first RSV season. Because the onset of RSV activity can vary between regions and communities, physicians and health-care facilities should consult their local clinical laboratories for the latest data on RSV activity (9).

Additional information and updates on RSV trends are available at http://www.cdc.gov/ncidod/dvrd/revb/nrevss/index.htm.

Reported by: National Respiratory and Enteric Virus Surveillance System collaborating laboratories. KJ Felton, I Pandya-Smith, MPH, AG Curns, MPH, AM Fry, MD, LJ Anderson, MD, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; NM Keeler, DVM, EIS Officer, CDC.

References

- Shay DK, Holman RC, Newman RD, Liu LL, Stout JW, Anderson LJ. Bronchiolitis-associated hospitalizations among U.S. children, 1980– 1996. JAMA 1999;282:1440–6.
- Welliver RC. Review of epidemiology and clinical risk factors for severe respiratory syncytial virus (RSV) infection. J Pediatr 2003;143 (5 Suppl):S112–7.
- 3. Falsey AR, Walsh EE. Respiratory syncytial virus infection in adults. Clin Microbiol Rev 2000;13:371–84.
- 4. Dowell SF, Anderson LJ, Gary HE Jr, et al. Respiratory syncytial virus is an important cause of community-acquired lower respiratory infection among hospitalized adults. J Infect Dis 1996;174:456–62.
- CDC. Guidelines for preventing health-care—associated pneumonia, 2003: recommendations of CDC and the Healthcare Infection Control Practices Advisory Committee. MMWR 2004;53(No. RR-3).

- 6. Meissner HC, Long SS, American Academy of Pediatrics Committee on Infectious Diseases and Committee on Fetus and Newborn. Revised indications for the use of palivizumab and respiratory syncytial virus immune globulin intravenous for the prevention of respiratory syncytial virus infections. Pediatrics 2003;112(6 Pt 1):1447–52.
- 7. Falsey AR, Formica MA, Treanor JJ, Walsh EE. Comparison of quantitative reverse transcription-PCR to viral culture for assessment of respiratory syncytial virus shedding. J Clin Microbiol 2003;41:4160–5.
- 8. Weinberg GA, Erdman DD, Edwards KM, et al. Superiority of reversetranscription polymerase chain reaction to conventional viral culture in the diagnosis of acute respiratory tract infections in children. J Infect Dis 2004;189:706–10.
- Mullins JA, LaMonte AC, Bresee JS, Anderson LJ. Substantial variability in community respiratory syncytial virus season timing. Pediatr Infect Dis J 2003;22:857

 –62.

Notice to Readers

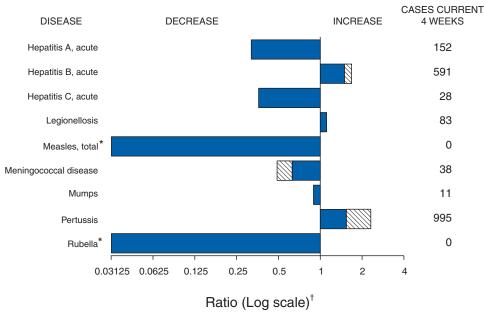
Where To Find Information on Influenza and Influenza Vaccine

To help the public locate the latest information about influenza, CDC has created a comprehensive website, available at http://www.cdc.gov/flu. The site contains information targeted to health-care professionals, as well as CDC influenza fact sheets and health education materials intended for the general public. The site is updated as new information becomes available.

CDC has also launched 800-CDC-INFO (800-232-4636), a new, central hotline with recorded information available in English and Spanish, available 24 hours a day, 7 days a week. Hotline callers can select voice messages on various influenzarelated topics, with the option to transfer for additional information. The number for hearing impaired persons is 800-243-7889 (TTY/TDD).

Any information CDC receives about problems finding influenza vaccine will be shared with state health officials to help direct available vaccine to persons and places where it is needed.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals December 11, 2004, with historical data



Beyond historical limits

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending December 11, 2004 (49th Week)*

	Cum. 2004	Cum. 2003		Cum. 2004	Cum. 2003
Anthrax	-	-	HIV infection, pediatric [†] ¶	149	193
Botulism:	-	-	Influenza-associated pediatric mortality**	-	NA
foodborne	19	19	Measles, total	29 ^{††}	53 ^{§§}
infant	75	69	Mumps	221	208
other (wound & unspecified)	12	28	Plague	2	1
Brucellosis†	109	93	Poliomyelitis, paralytic	-	-
Chancroid	37	52	Psittacosis†	10	12
Cholera	4	1	Q fever [†]	67	61
Cyclosporiasis†	208	66	Rabies, human	4	2
Diphtheria	-	1	Rubella	11	7
Ehrlichiosis:	-	-	Rubella, congenital syndrome	-	1
human granulocytic (HGE)†	347	310	SARS-associated coronavirus disease† **	-	8
human monocytic (HME)†	303	262	Smallpox [†] [¶]	-	NA
human, other and unspecified	30	45	Staphylococcus aureus:	-	-
Encephalitis/Meningitis:	-	-	Vancomycin-intermediate (VISA)† ™	-	NA
California serogroup viral†§	86	108	Vancomycin-resistant (VRSA) [†] [¶]	1	NA
eastern equine†§	5	14	Streptococcal toxic-shock syndrome†	94	142
Powassan ^{†§}	-	-	Tetanus	23	18
St. Louis†§	8	41	Toxic-shock syndrome	117	114
western equine [†] §	-	-	Trichinosis	5	4
Hansen disease (leprosy)†	78	82	Tularemia [†]	100	80
Hantavirus pulmonary syndrome†	19	23	Yellow fever	-	-
Hemolytic uremic syndrome, postdiarrheal [†]	138	160			

^{-:} No reported cases.

^{*} No measles or rubella cases were reported for the current 4-week period yielding a ratio for week 49 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 November 28, 2004.

^{**} Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases.

Of 29 cases reported, 13 were indigenous, and 16 were imported from another country.

^{§§} Of 53 cases reported, 31 were indigenous, and 22 were imported from another country.

Not previously notifiable.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending December 11, 2004, and December 6, 2003 (49th Week)*

(49th Week)*	AII	os	Chlan	nydia†	Coccidioi	domycosis	Cryptosporidiosis Cum. Cum.			s/Meningitis t Nile [§]
Reporting area	Cum. 2004 ¹	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	39,097	41,489	821,684	812,668	5,676	3,919	3,180	3,265	875	2,866
NEW ENGLAND	1,318	1,433	27,764	26,221	-	-	161	183	-	31
Maine N.H.	48 44	52 36	1,970 1,652	1,884 1,495	N -	N -	20 30	19 24	-	2
Vt.**	16	16	968	1,000	-	-	24	31	-	-
Mass. R.I.	495 131	598 101	12,722 3,189	10,503 2,799	-	-	56 4	76 16	-	12 5
Conn.	584	630	7,263	8,540	N	N	27	17	-	12
MID. ATLANTIC	9,011	9,678	101,140	101,192	-	-	512	426	17	223
Upstate N.Y. N.Y. City	1,406 4,804	978 5,200	21,127 31,691	18,896 32,883	N -	N -	178 109	126 121	5 2	- 57
N.J.	1,360	1,451	13,617	14,952	- N	-	33	19	1	21
Pa.	1,441	2,049	34,705	34,461	N	N	192	160	9	145
E.N. CENTRAL Ohio	3,311 617	3,878 778	141,489 32,659	147,451 39,729	13 N	7 N	928 217	986 168	61 11	150 84
Ind.	364	516	17,424	15,983	N	N	83	105	5	15
III. Mich.	1,559 614	1,708 707	40,010 35,137	45,218 29,821	13	7	90 146	98 139	28 12	30 14
Wis.	157	169	16,259	16,700	-	-	392	476	5	7
W.N. CENTRAL	802	767	50,654	47,575	6	3	396	560	85	696
Minn. Iowa	206 65	160 83	9,444 5,900	10,002 5,274	N N	N N	130 83	145 119	13 13	48 81
Mo.	338	363	19,633	17,293	3	1	72	50	26	39
N. Dak. S. Dak.	18 11	3 14	1,373 2,371	1,503 2,440	N -	N -	12 40	12 41	2 6	94 151
Nebr.**	54	49	4,797	4,422	3	2	28	24	7	194
Kans.	110	95	7,136	6,641	N	N -	31	169	18	89
S. ATLANTIC Del.	11,845 143	11,367 199	158,886 2,784	152,355 2,824	N	5 N	498	375 4	57 -	191 12
Md.	1,363	1,438	18,256	15,710	-	5	22	26	8	49
D.C. Va.	911 615	862 848	3,198 20,177	2,974 17,860	-	-	13 59	13 44	1 4	3 19
W. Va.	86	85	2,624	2,429	N	N	6	4	-	1
N.C. S.C.**	1,080 709	1,042 753	27,095 18,175	24,319 13,646	N -	N -	75 15	49 8	3	16 3
Ga.	1,558	1,827	27,244	33,632		. .	175	113	12	27
Fla.	5,380	4,313	39,333	38,961	N	N	133	114	29	61
E.S. CENTRAL Ky.	1,833 232	1,871 199	53,850 6,145	51,721 7,483	4 N	1 N	118 43	127 24	60 1	91 11
Tenn.**	722	795	20,855	19,189	N	N	29	39	13	21
Ala. Miss.	442 437	442 435	10,186 16,664	13,531 11,518	4	1	23 23	54 10	15 31	25 34
W.S. CENTRAL	4,332	4,519	99,258	100,204	2	-	74	117	209	611
Ark.	184	171	6,784	7,387	1	-	17	18	12	23
La. Okla.	865 202	607 203	20,808 9,532	19,210 10,383	1 N	- N	5 20	4 19	81 11	101 56
Tex.**	3,081	3,538	62,134	63,224	N	N	32	76	105	431
MOUNTAIN	1,415	1,441	47,099	45,826	3,648	2,328	161	131	232	871
Mont. Idaho	6 18	13 25	2,164 2,555	2,186 2,365	N N	N N	34 27	18 27	2	75 -
Wyo.	18	6	1,027	904	2	1	4	5	2	92
Colo. N. Mex.	313 178	342 99	11,460 5,235	12,200 6,909	N 21	N 9	57 13	36 12	39 30	621 74
Ariz.	550	634	15,895	12,343	3,531	2,275	18	6	128	7
Utah Nev.	72 260	69 253	3,484 5,279	3,526 5,393	36 58	9 34	6 2	19 8	6 25	2
PACIFIC	5,230	6,535	141,544	140,123	2,003	1,575	332	360	154	2
Wash.	373	490	16,593	15,605	N	N	36	58	-	-
Oreg. Calif.	282 4,383	242 5,688	7,936 109,039	7,061 108,789	2,003	1,575	32 262	36 265	- 154	2
Alaska	56	19	3,344	3,534	-	· -	-	1	-	-
Hawaii	136	96	4,632	5,134	-	-	2	-	-	-
Guam P.R.	2 642	5 1,024	560 3,401	564 2,484	N	N	N	N	-	-
V.I.	18	33	272	391	-	-	-	-	-	-
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. 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 November 28, 2004.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 11, 2004, and December 6, 2003 (49th Week)*

Page	(49th Week)*										
Peper P			Escher	<i>ichia coli</i> , Ente	rohemorrhagio	(EHEC)					
Reporting area Cum				Shiga tox	in positive,	Shiga toxii	n positive,				
Reporting area 2004 2003 2004			 		T .	 					
UNITED SATES 2.942 2.481 2.39 2.30 1.75 1.60 1.70 1.	Reporting area										
NEW ENGLAND 1169 1489 1490					•						
Maine 11 10 1 3 - 123 179 207 208 No. 11 1 1 1 1 1 1 3 - 1 123 179 207 208 No. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
V. 12 18 159 116 83 87 87 87 88 88 89 89 89 89 89 89 89 89 89 89 89						-	-				
Mass. 68 65 10 9 17 13 716 808 2,957 2,745 Con. 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
R.I. 11 1 1 1 1 117 106 781 899 Conn. 34 36 25 29 446 301 222 2.81 MID. ATLANTIC 281 288 88 23 29 33 3.604 3.615 32.756 38.711 Update N.Y. 120 89 49 49 12 14 17 1.312 117 6.822 7.7410 N.Y. 120 89 49 49 12 14 17 1.312 117 6.822 7.7410 N.Y. 120 89 129 11 1 1 1 19 10 16 977 66 10.006 10.009 81 0.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.0000 10.0000 10.000 10.000 10.000 10.000 10.0000 10.000 10.0000 10.0000 10.000 10.00											
MIDLATANTIC 281	R.I.	11	1	1	-	-	-	117	106	781	899
Upstale N.Y. 120 89 43 12 14 17 1,312 1,017 6,822 7,415 N.Y. City 36 7											
NY.CIQN N.J. 52 31 4 2 2 5 5 6 403 485 5.568 7.798 Pa. EN.CENTRAL 426 556 40 32 28 20 2.628 3.078 60.021 63.998 EN.CENTRAL 426 556 40 32 28 20 2.628 3.078 60.021 63.998 EN.CENTRAL 426 556 40 32 28 20 2.628 3.078 60.021 63.998 EN.CENTRAL 426 556 40 32 28 20 2.628 3.078 60.021 63.998 EN.CENTRAL 426 556 40 32 28 20 2.628 3.078 60.021 63.998 EN.CENTRAL 427 43 52 18 20 2.628 1.886 16.969 21.0350 Mich. 80 90 111 - 6 6 - 666 745 14.705 12.869 W.N.CENTRAL 482 437 43 52 18 20 2.622 1.886 16.068 16.594 W.N.CENTRAL 482 437 43 52 18 20 2.622 1.886 16.068 16.594 W.N.CENTRAL 482 102 2 2 1 1 7 1 1 7 17 756 2.810 2.810 2.810 EN.CENTRAL 482 13 13 17 18 8 1 1 277 18 8 23 14 40 18.820 EN.CENTRAL 483 12 12 12 12 12 12 12 12 12 1 1 1 1 791 2.756 2.810 2.810 2.810 EN.CENTRAL 48 2 3 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
Pa. 73 111 111 9 10 16 977 966 10,206 10,968 EN.CENTRAL 426 556 40 32 28 20 2,828 3,078 860,021 65,968 Chiol 56 83					-		-				
EN.CENTRAL 428 556 40 32 28 20 2.628 3.078 60.021 65.006 101 108 198 199 16 20 20 76 685 856 16,999 20,337 101 101 108 109 111 1-1 6-1											
Ohio 98 129 9 16 20 20 766 858 16,969 21,036 lind. 56 83 - 2 - 2 - 5 - 6,430 (2.70 lill. https://doi.org/10.1001/j.com/sept. 120 120 121 2 2 2 - 5 504 852 17,712 23,373 Wish. 123 134 11 2 8 6 822 17,712 23,373 Wish. 123 134 11 2 8 6 822 153 4,203 3 2,204 11 2 8 6 822 17,712 23,373 Mish. 122 132 134 11 2 8 6 82 17,712 23,373 Mish. 122 132 134 11 2 8 6 82 17,712 23,373 Mish. 122 132 134 11 1 791 259 1,004 12,219 1004 112 12 102 2 - 1 1 1 791 259 1,004 2,119 1004 112 10											
Ind.											
Mich. 80 90 111 - 66 - 666 745 14,705 12,869 Wis. 123 134 18 14 692 593 4,203 5,294 W.N. CENTRAL 482 437 43 52 18 20 2,062 1,966 16,068 16,594 Minn. 112 128 20 21 1 1 791 756 2,810 2,919 lowa 122 102 279 259 1,042 1,228 Mo. 91 83 17 18 8 8 1 541 490 8,452 8,200 N. Dak. 15 13 13 - 4 4 7 8 23 45 99 49 N. C. S. Dak. 33 28 2 4 4 7 17 18 8 27 21 19 19 19 19 19 19 19 19 19 19 19 19 19	Ind.	56	83	-	-	-	-	-	-	6,430	6,270
Wis. 123 134 18 14 692 593 4,203 5,294 Win. CENTRAL 482 437 43 52 18 20 20,202 196 16,068 16,594 Minn. 112 128 20 21 1 1 1,791 756 2,810 2,919 lowa 122 102 279 259 1,042 1,228 Mo. 91 83 17 18 8 1 1 541 490 8,452 8,200 N. Dak. 13 13 4 4 7 8 23 45 91 94 S. Dak. 30 28 2 1 4 7 8 23 45 91 94 S. Dak. 30 28 2 2 1 1 2 2 10 20 21 2,242 2,243 Windle 1 2 2 10 2 2 10 20 20 21 2,242 2,243 Windle 1 2 2 11 N N N N N N N N N N N N N N N											
W.N.CENTRAL 482 437 43 52 18 20 20 11 1 1791 766 28 1002 1003 112 102 102 103 104 112 108 109 108 108							-				
Minn. 112 128 20 21 1 1 791 756 2,810 2,919 lows 122 102 279 259 1,042 1,259 Mo. 91 83 177 18 8 8 1 541 490 8,452 8,200 Mo. 91 83 177 18 8 8 1 541 490 8,452 8,200 Mo. Nak. 15 13 - 4 4 7 8 23 45 91 94 S.Dak. 33 28 8 2 4 4 7 8 123 45 91 94 S.Dak. 33 28 8 2 4 4 7 10 208 217 2,426 1489 Kans. 40 35 1 147 18 18 276 1,489 Kans. 40 35 1 147 18 18 276 1,489 Kans. 40 35 2 10 208 217 2,426 1489 Kans. 40 35 2 10 208 217 2,426 1489 Kans. 40 35 2 10 208 217 2,426 1489 Kans. 40 35 2 10 208 217 2,426 1489 Kans. 40 35 2 10 208 217 2,426 1489 Kans. 40 35 2 10 208 217 2,426 1489 Kans. 40 35 2 10 208 217 2,426 1489 Kans. 40 20 20 217 2,426 1489 Kans. 40 20 20 217 2,426 1489 Kans. 40 20 21 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	W.N. CENTRAL	482	437	43	52	18	20	2,062	1,986		16,594
Mo. 91 83 177 18 8 8 1 541 490 8,452 8,200 N. Dak. 15 13 - 4 4 7 8 23 45 91 94 S. Dak. 33 28 2 4 4 - 7 73 81 276 Nebr. 69 48 4 5 - 7 147 138 971 1,489 Kans. 40 35 - 2 10 208 217 2,426 2,451 Kans. 40 35 - 2 2 10 208 217 2,426 2,451 Kans. 40 35 - 2 2 10 208 217 2,426 2,451 Kans. 40 35 - 2 2 11 N N N N N N 39 47 836 1,064 Md. 20 17 5 3 4 1 128 113 7,676 7,488 Del. 2 11 N N N N N N 39 47 836 1,064 Md. 20 17 5 3 4 1 128 113 7,676 7,488 Del. 1 1 1 63 52 2,388 2,371 N. C. 1 1 1 1 63 52 2,388 2,371 N. C. 3 3 5 7 7 13 63 44 1 128 113 7,676 9,488 N. Va. 3 5 37 17 13 63 52 2,388 2,371 N. C. 3 4 1 1 1,064 14,014 S. C. 7 7 2 4 8 34 N N N 14,064 14,014 S. C. 7 7 2 2 4 8 34 N N N 14,064 14,014 S. C. 7 7 2 2 5 57 134 8,867 7,975 R. S. CENTRAL 96 81 3 2 2 9 6 6 345 376 22,170 26,028 K. C. T. 7 0 43 8 22 13 8 10,058 1,048 11,715 31,737 Fila. 70 43 8 22 13 8 1,058 1,048 11,04	Minn.				21			791	756	2,810	2,919
N.Dak. 15 13 - 4 7 8 23 45 91 94 94 Nebr. 69 48 4 5 73 81 276 213 Nebr. 69 48 4 5 10 147 138 971 1,489 Nebr. 69 48 4 5 10 147 138 971 1,489 Nebr. 69 48 4 5 10 147 138 971 1,489 Nebr. 69 48 4 5 10 1208 217 2,426 2,451 1,489 Nebr. 69 48 4 5 10 1208 217 2,426 2,451 1,489 Nebr. 69 48 4 5 10 1208 217 2,426 2,451 1,489 Nebr. 69 10 10 10 10 10 10 10 10 10 10 10 10 10							- 1				
Nebr. 69 48 4 5 147 138 971 1,489 Kans. 40 35 2 10 208 217 2,426 2,451 S.ATLANTIC 163 142 38 45 65 43 2,570 2,600 7,1816 75,888 Del. 163 142 38 45 65 43 2,570 2,600 7,1816 55,888 Del. 2 111 NN	N. Dak.	15	13	-	4			23	45	91	
Kans. 40 35							-				
SATLANTIC 163 142 38 45 65 43 2,570 2,600 71,816 75,886 Del. 2 111 N N N N N N 1 138 113 7,586 74,886 Del. 2 111 N N N N N N N 1 138 113 7,586 74,886 Del. 2 111 N N N N N N N 1 138 113 7,586 74,886 140.							10				
Del. 2 11 N N N N N 99 477 636 1,064 Md. 20 177 5 3 3 4 1 1 128 113 7,676 7,488 D.C. 1 1 1 1 63 53 2,388 2,371 Va. 35 37 177 133 509 342 7,960 8,266 W.Va. 3 5 57 48 34 N N N 14,064 14,014 S.C. 7 2 48 34 N N N 14,064 14,014 S.C. 7 2 57 134 8,867 7,927 G.a. 25 26 8 7 7 671 814 12,013 16,587 Fla. 70 43 8 22 13 8 1,058 1,048 17,153 17,374 ES.C. 7 2 671 814 12,013 16,587 Fla. 70 43 8 22 13 8 1,058 1,048 17,153 17,374 ES.C. 7 1 2 671 814 12,013 16,587 Fla. 70 43 8 22 13 8 1,058 1,048 17,153 17,374 ES.C. 7 1 2 671 814 12,013 16,587 Fla. 1 2 188 201 6,277 8,767 Miss. 10 4 188 201 6,277 8,767 Miss. 10 4 188 201 6,277 8,757 Miss. 10 4 188 201 6,277 8,757 Miss. 10 4 188 201 6,277 8,757 Miss. 10 4 120 142 3,412 3,923 Ark. 15 12 1 120 142 3,412 3,923 Ark. 15 12 1 120 142 3,412 3,923 Ark. 15 12 1 120 142 3,412 3,923 Ark. 19 28 3 310 35 27 7 1,455 1,534 10,246 9,798 Month 16 17 181 11 195 88 8 Month 16 17				38	45						
D.C.	Del.	2	11	N	N	N	N	39	47	836	1,064
Va. 35 37 17 13 509 342 7,960 8,266 W.Va. 3 5 45 49 859 797 N.C 4 5 49 859 797 N.C 5 7 134 8,867 7,927 Ga. 25 26 8 7 5 7 134 8,867 7,927 Ga. 25 26 8 7 5 7 134 8,867 7,927 Ga. 25 26 8 7 671 814 12,013 16,587 Fla. 70 43 8 222 13 8 1,058 1,048 17,153 17,374 E.S. CENTRAL 96 81 3 2 9 9 6 345 376 23,170 26,028 Ky. 29 27 1 2 6 6 6 N N S 2,664 3,333 Flann. 31 34 2 - 3 3 - 157 175 7,587 7,989 Ala. 26 16 3 3 - 157 175 7,587 7,899 Ala. 26 16 188 201 6,277 8,757 Miss. 10 4 188 201 6,277 8,757 Miss. 10 4 3 4 9 4 313 283 38,890 41,435 Ark. 15 12 1 1 120 142 3,412 3,923 La. 4 3 3 - 1 5 12 1 1 1 120 142 3,412 3,923 La. 4 3 3 4 4 9 13 9,967 10,926 Collab. 19 28 4 4 9 13 9,967 10,926 Collab. 19 28 4 4 14 128 4,050 4,283 Tex. 35 51 2 4 5 4 N N N 21,461 22,303 MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,798 Month 16 17 2 5 2 2 5 8 42 Colo. 50 66 2 4 - 7 1 490 436 2,515 2,677 M.Mex. 9 9 13 6 5 5 6 68 51 7,519 10,99 Collab. 10 10 10 10 10 10 10 10 10 10 10 10 10						4	1				
W.Va. 3 5 48 34 N N N 14,064 14,014 S.C. 7 2 48 34 N N N 14,064 14,014 S.C. 7 2 48 34 N N N 14,064 14,014 S.C. 7 2 48 34 N N N 14,064 14,014 S.C. 7 2 57 134 8,867 7,927 Ga. 25 26 8 7 671 814 12,013 16,587 Fla. 70 43 8 22 13 8 1,058 1,048 17,153 17,374 E.S. CENTRAL 96 81 3 2 9 6 345 376 23,170 26,028 Ky. 29 27 1 2 6 6 N N N 2,664 3,333 Tenn. 31 34 2 3 3 - 157 175 7,857 7,989 Ala. 26 16 188 201 6,277 8,757 Miss. 10 4 120 142 3,412 3,923 Ark. 15 12 1 120 142 3,412 3,923 Ark. 15 12 1 120 142 3,412 3,923 Ark. 15 12 1 49 13 9,967 10,926 Okla. 19 28 4 144 128 4,050 4,283 Tex. 35 51 2 4 5 4 N N N 21,461 22,303 MoUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,798 MoUNTAIN 238 310 35 27 180 109 88 111 Idaho 50 80 16 16 6 180 109 88 111 Idaho 50 80 16 16 6 180 109 88 111 Idaho 50 80 16 16 16 180 109 88 111 Idaho 50 80 16 16 16 180 109 88 111 Idaho 50 66 2 4 1 120 123 22 5 2 58 42 Colo. 50 66 2 4 - 7 40 40 436 2,515 2,677 N.Mex. 9 13 6 5 326 346 538 374 Nev. 27 23 1 1 1 192 80 30 30 1,35 2,514 2,27 38 N N N N N 166 240 3,815 3,415 Nev. 27 23 1 1 1 193 28 346 2,515 3,415 2,667 N.Mex. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 142 115 - 1 1 119 135 2,413 2,012 Miss. 144 128 115 - 1 1 119 135 2,413 2,012 Miss. 144 128 115 - 1 1 12 2 2 2 2 3 3 4 2 2 2 3 3 4 3 3 3 3 3 3						-	-				
SC. 7 2 57 134 8,867 7,927 Ga. 255 266 8 7 671 814 12,013 16,587 Fla. 70 43 8 22 13 8 1,058 1,048 17,153 17,374 E.S. CENTRAL 96 81 3 2 9 6 6 345 376 23,170 26,028 Ky. 29 27 1 2 6 6 6 N N N 2,664 3,333 Tenn. 31 34 2 3 3 - 157 175 7,857 7,969 Ala. 26 16 188 201 6,277 8,757 Miss. 10 4 188 201 6,277 8,757 Miss. 10 4 188 201 6,277 8,757 Miss. 10 4 120 142 3,412 3,923 La. 4 3 3 120 142 3,412 3,923 Tenn. 35 51 2 4 5 4 N N N 21,461 22,303 MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,788 Mountain 16 17 180 109 68 111 Idaho 50 80 16 16 6 181 11 195 88 168 Wyo 9 4 7 1 1 180 109 68 111 Idaho 50 66 2 4 7 1 1 181 1195 88 168 Wyo 9 4 7 1 1 180 109 68 111 Idaho 50 66 2 4 7 1 1 181 1195 88 168 Wyo 9 4 7 1 1 186 1195 88 168 Wyo 9 4 7 1 1 180 109 48 2,515 2,515 2,677 N.Mex. 9 13 6 5 5 68 51 751 2,014 3,015 Nex. 27 38 1 6 5 181 1195 88 68 Wyo 9 4 7 1 1 186 51 751 1,099 N.Mex. 9 13 6 5 5 186 51 751 1,099 N.Mex. 9 13 6 5 5 181 1195 88 68 N.Mex. 9 13 6 5 5 181 1195 88 68 N.Mex. 9 13 6 5 5 181 1195 88 68 N.Mex. 9 13 6 5 5 186 51 751 1,099 N.Mex. 9 13 6 5 5 186 51 751 1,099 N.Mex. 9 13 6 5 5 181 119 135 2,413 2,012 N.Mex. 10 1 1 1 119 135 2,413 2,012 N.Mex. 11 1 1 119 135 2,413 2,012 N.Mex. 11 1 1 119 135 2,413 2,012 N.Mex. 11 1 1 128 2 2 2 5 8 42 N.Mex. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-		-	-				797
Ga. 25 26 8 77 671 814 12,013 16,587 Fla. 70 43 8 22 13 8 1,058 1,048 17,153 17,374 E.S. CENTRAL 96 81 3 2 9 6 345 376 23,170 26,028 Ky. 29 27 1 2 3 6 6 N N N 2,664 3,333 76 1,000 1 1,00							34				
E.S. CENTRAL 96 81 3 2 9 6 6 345 376 23,170 26,028 Ky. 29 27 1 2 6 6 6 N N N 2,664 3,333 Tenn. 31 34 2 - 3 3 - 157 175 7,857 7,989 Ala. 26 16 188 201 6,277 8,757 W.S. CENTRAL 73 94 3 4 9 4 313 283 38,890 41,435 Ark. 15 12 1 120 142 3,412 3,923 Ark. 15 12 1 140 133 283 38,890 41,435 Ark. 15 12 1 140 144 128 4,050 4,283 Tex. 35 51 2 4 5 4 N N N 21,461 22,303 Tex. 35 51 2 4 5 4 N N N 21,461 22,303 MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,788 Mont. 16 17 80 109 68 111 Idaho 50 80 16 16 16 181 195 88 68 Myo. 9 4 7 1 25 22 58 42 Colo. 50 66 2 4 7 7 1 25 22 58 42 Colo. 50 66 2 4 7 7 1 25 22 58 42 Colo. 50 66 2 4 7 7 1 9,000 436 2,515 2,677 Ariz. 27 38 N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Ariz. 27 38 N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N N N 166 240 3,815 3,415 Arix. 27 38 N N N N N N N N N N N N N N N N N N	Ga.	25	26				-	671	814	12,013	16,587
Ky. 29 27 1 2 6 6 N N 2,664 3,333 Tenn. 31 34 2 - 3 - 157 175 7,857 7,898 Miss. 10 4 - - - - - - 6,372 8,757 Miss. 10 4 - - - - - - 6,372 8,757 Miss. 10 4 - - - - - - - 6,372 8,757 Miss. 15 10 4 - - - - 120 142 3,412 3,923 La. 4 3 - - - 4 9 4 133 283 38,890 41,435 La. 4 3 3 - - - 149 13 4 9,923 La.											
Ténn. 31 34 2 - 3 - 157 175 7,857 7,989 Ala. 26 16 - - - - 188 201 6,372 8,757 Miss. 10 4 - - - - 188 201 6,277 8,757 Miss. 10 4 - - - - - 6,372 5,949 W.S. CENTRAL 73 94 3 4 9 4 313 283 38,890 41,435 Ark. 15 12 1 - - - 49 13 9,967 10,926 Okla. 19 28 - - 4 - 144 128 4,050 4,283 MOLN. 10 238 310 35 27 - 7 1,455 1,534 10,246 9,798 Mont. 16 17											
Ala. 26 16 188 201 6,277 8,757 Miss. 10 4 188 201 6,277 8,759 Miss. 10 4 6,372 5,949 MS.CENTRAL 73 94 3 4 9 4 313 283 38,890 41,435 Ark. 15 12 1 120 142 3,412 3,923 La. 4 3 49 13 9,967 10,926 Collab. 19 28 4 - 144 128 4,050 4,283 Tex. 35 51 2 4 5 4 N N N 21,461 22,303 MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,798 MOUNTAIN 238 310 35 27 80 109 68 111 Idaho 50 80 16 16 16 80 109 68 111 Idaho 50 66 2 4 25 22 58 42 Colo. 50 66 2 4 7 490 436 2,515 2,677 N.Mex. 9 13 6 5 5 68 51 751 1,099 Ariz. 27 38 N N N N N N 166 240 3,815 3,415 Utah 50 69 33 326 346 538 374 Nev. 27 23 1 1 1 326 346 538 374 Nev. 27 23 1 1 1 326 346 538 374 Nev. 27 23 1 1 1 1 380 3,041 32,291 29,174 Wash. 142 115 1 1 378 353 2,524 2,566 Oreg. 67 100 1 3							-				
W.S. CENTRAL 73 94 3 4 9 4 313 283 38,890 41,435 Ark. 15 12 1 120 142 3,412 3,923 La. 4 3 3 4 9 13 9,967 10,926 Okla. 19 28 4 4 - 144 128 4,050 4,283 Tex. 35 51 2 4 5 4 N N N 21,461 22,303 MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,798 Mont. 16 17 80 109 68 111 Idaho 50 80 16 16 16 181 195 88 68 Wyo. 9 4 7 7 1 25 22 58 42 Colo. 50 66 2 4 7 490 436 2,515 2,677 N. Mex. 9 13 6 5 68 51 751 1,099 Ariz. 27 38 N N N N 166 240 3,815 3,415 Utah 50 69 3 119 135 2,413 2,012 PACIFIC 424 475 1 4 2,800 3,041 32,291 Wash. 142 115 - 1 4 2,800 3,041 32,291 Wash. 142 115 - 1 4 2,800 3,041 32,291 Wash. 142 115 - 1 1 2,800 3,041 32,291 Wash. 142 115 - 1 1 2,800 3,041 32,291 Wash. 142 115 - 1 1 2,800 3,041 32,291 Wash. 142 115 - 1 1 1,844 2,125 27,013 23,974 Alaska 1 5 4 5 88 8 85 473 526 Creg. 67 100 1 3 1,844 2,125 27,013 23,974 Alaska 1 5 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				-	-	-	-		201	6,277	8,757
Ark. 15 12 1 - - - - 120 142 3,412 3,923 La. 4 3 - - - - - 49 13 9,967 10,926 Okla. 19 28 - - 4 - 144 128 4,050 4,283 Tex. 35 51 2 4 5 4 N N 21,461 22,303 MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,798 MOUNTAIN 16 17 - - - - 80 109 68 111 Idaho 50 80 16 16 - - 181 195 88 68 Myo. 9 4 7 1 - - 25 22 58 42 Color 50					-	-	-				
La.					4		4				
Tex. 35 51 2 4 5 4 N N 21,461 22,303 MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,798 Mont. 16 17 80 109 68 111 loghap 68 log	La.	4	3	-	-	-	-	49	13		10,926
MOUNTAIN 238 310 35 27 - 7 1,455 1,534 10,246 9,798 Mont. 16 17 - - - 80 109 68 111 Idaho 50 80 16 16 - - 181 195 88 68 Wyo. 9 4 7 1 - - 25 22 58 42 Colo. 50 66 2 4 - 7 490 436 2,515 2,677 N. Mex. 9 13 6 5 - - 68 51 751 1,099 Ariz. 27 38 N N N N 166 240 3,815 3,415 Utah 50 69 3 - - - 19 135 2,413 2,012 PACIFIC 424 475 1 4<				- 2	-		- 1				
Mont. 16 17 - - - - - 80 109 68 111 Idaho 50 80 16 16 - - 181 195 88 68 Wyo. 9 4 7 1 - - 25 22 58 42 Colo. 50 66 2 4 - 7 490 436 2,515 2,677 N. Mex. 9 13 6 5 - - 68 51 751 1,099 Ariz. 27 38 N N N N 166 240 3,815 3,415 Utah 50 69 3 - - - 326 346 538 374 Nev. 27 23 1 1 1 - - 119 135 2,413 2,012 PACIFIC 424 4						5					
Idaho 50 80 16 16 16 - - 181 195 88 68 Wyo. 9 4 7 1 - - 25 22 58 42 Colo. 50 66 2 4 - 7 490 436 2,515 2,677 N. Mex. 9 13 6 5 - - 68 51 751 1,099 Ariz. 27 38 N N N N 166 240 3,815 3,415 Utah 50 69 3 - - - 326 346 538 374 Nev. 27 23 1 1 1 - - 119 135 2,413 2,012 PACIFIC 424 475 1 4 - - 2,800 3,041 32,291 29,174 Wash. 142 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>1,455 80</td> <td>1,534</td> <td></td> <td>9,798</td>					-	-	-	1,455 80	1,534		9,798
Cólo. 50 66 2 4 - 7 490 436 2,515 2,677 N. Mex. 9 13 6 5 - - 68 51 751 1,099 Ariz. 27 38 N N N N 166 240 3,815 3,415 Utah 50 69 3 - - - 326 346 538 374 Nev. 27 23 1 1 - - 1326 346 538 374 Nev. 27 23 1 1 - - 119 135 2,413 2,012 PACIFIC 424 475 1 4 - - 2,800 3,041 32,291 29,174 Wash. 142 115 - 1 - - 378 353 2,524 2,566 Oreg. 67 100	Idaho	50	80			-	-	181	195	88	68
N.Mex. 9 13 6 5 68 51 751 1,099 Ariz. 27 38 N N N N N 166 240 3,815 3,415 Utah 50 69 3 326 346 538 374 Nev. 27 23 1 1 1 326 346 538 PACIFIC 424 475 1 4 2,800 3,041 32,291 29,174 Wash. 142 115 - 1 1 378 353 2,524 2,566 Oreg. 67 100 1 3 417 392 1,188 939 Creg. 67 100 1 3 1,844 2,125 27,013 23,974 Alaska 1 5 1,844 2,125 27,013 23,974 Alaska 1 0 9 88 85 473 526 Hawaii 10 9 73 86 1,093 1,169 Guam N N N 2 92 63 P.R. 1 3 125 327 252 256 Amer. Samoa U U U U U U U U U U U U U						-	- 7				
Ariz. 27 38 N N N N 166 240 3,815 3,415 Utah 50 69 3 - - - 326 346 538 374 Nev. 27 23 1 1 - - 119 135 2,413 2,012 PACIFIC 424 475 1 4 - - 2,800 3,041 32,291 29,174 Wash. 142 115 - 1 - - 378 353 2,524 2,566 Oreg. 67 100 1 3 - - 417 392 1,188 939 Calif. 204 246 - - - - 417 392 1,188 939 Calif. 204 246 - - - - 88 85 473 526 Hawaii 10 9						-	-		51		
Nev. 27 23 1 1 - - 119 135 2,413 2,012 PACIFIC 424 475 1 4 - - 2,800 3,041 32,291 29,174 Wash. 142 115 - 1 - - 378 353 2,524 2,566 Oreg. 67 100 1 3 - - 417 392 1,188 939 Calif. 204 246 - - - - 417 392 1,188 939 Alaska 1 5 - - - - 88 85 473 526 Hawaii 10 9 - - - - 73 86 1,093 1,169 Guam N N - - - - - 2 92 63 P.R. 1 3 -					N	N	N				
PACIFIC 424 475 1 4 - - 2,800 3,041 32,291 29,174 Wash. 142 115 - 1 - - 378 353 2,524 2,566 Oreg. 67 100 1 3 - - 417 392 1,188 939 Calif. 204 246 - - - 1,844 2,125 27,013 23,974 Alaska 1 5 - - - - 88 85 473 526 Hawaii 10 9 - - - - 73 86 1,093 1,169 Guam N N - - - - - - 2 92 63 P.R. 1 3 - - - - - - - - - - - - -					1	-	-				
Wash. 142 115 - 1 - - 378 353 2,524 2,566 Oreg. 67 100 1 3 - - 417 392 1,188 939 Calif. 204 246 - - - - 1,844 2,125 27,013 23,974 Alaska 1 5 - - - - 88 85 473 526 Hawaii 10 9 - - - - 73 86 1,093 1,169 Guam N N - - - - - 2 92 63 P.R. 1 3 - - - - 125 327 252 256 VI. - - - - - - - - 80 86 Amer. Samoa U U U U U U U U U U				1	4	_	_				
Calif. 204 246 - - - - 1,844 2,125 27,013 23,974 Alaska 1 5 - - - - 88 85 473 526 Hawaii 10 9 - - - - 73 86 1,093 1,169 Guam N N - - - - - 2 92 63 P.R. 1 3 - - - - 125 327 252 256 VI. - - - - - - - 80 86 Amer. Samoa U U U U U U U U U U	Wash.	142	115	-	1	-	-	378	353	2,524	2,566
Alaska 1 5 - - - - - 88 85 473 526 Hawaii 10 9 - - - - - 73 86 1,093 1,169 Guam N N - - - - - 2 92 63 P.R. 1 3 - - - - 125 327 252 256 V.I. - - - - - - - 80 86 Amer. Samoa U U U U U U U U U U				1	3	-	-				
Guam N N - - - - - 2 92 63 P.R. 1 3 - - - - 125 327 252 256 V.I. - - - - - - 80 86 Amer. Samoa U U U U U U U U U U				-	-	-	-				
P.R. 1 3 125 327 252 256 V.I 80 86 Amer. Samoa U U U U U U U U U U U U				-	-	-	-				
V.I 80 86 Amer. Samoa U U U U U U U U U U				-	-	-	-	-			
Amer. Samoa U U U U U U U U U U U		1 -	3	-	-	-	-	125	327		
C.N.M.I U - U - U - U 3 U	Amer. Samoa			U		U		U		U	U
	C.N.M.I.	-	U	-	U	-	U	-	U	3	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 December 11, 2004, and December 6, 2003 (49th Week)*

(49th Week)*				Haemophilus	<i>influenzae</i> , inv	asive			Hep	atitis
	All	ages		•	Age <5				→ '	te), by type
		rotypes	Serot		Non-ser		Unknown			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	1,712	1,742	14	25	101	101	153	193	5,336	7,092
NEW ENGLAND	156	139	1	2	6	5	4	4	989	320
Maine N.H.	13 19	4 13	-	- 1	2	-	- 1	1 -	11 26	18 17
Vt.	8	9	-	-	-	-	1	-	8	6
Mass. R.I.	62 6	68 9	1 -	1 -	1	5	2	2 1	856 22	183 15
Conn.	48	36	-	-	3	-	-	-	66	81
MID. ATLANTIC Upstate N.Y.	381 122	364 127	1	3 3	5 5	3 3	37 5	47 9	656 109	1,747 131
N.Y. City	76	64	-	-	-	-	14	11	259	435
N.J. Pa.	73 110	67 106	-	-	-	-	4 14	11 16	138 150	201 980
E.N. CENTRAL	272	290	1	3	6	5	37	53	513	650
Ohio	101	67	1	-	2	-	16	11	49	159
Ind. III.	52 64	49 104	-	-	4	-	1 11	9 22	92 184	69 178
Mich. Wis.	20 35	23 47	-	3	-	5	6 3	1 10	136 52	199 45
W.N. CENTRAL	103	112	2	2	4	7	12	13	168	171
Minn.	44	52	1	2	4	7	1	2	32	44
lowa Mo.	1 36	38	1 -	-	-	-	7	10	51 42	29 57
N. Dak.	4	4	-	-	-	-	-	-	1	2
S. Dak. Nebr.	9	1 2	-	-	-	-	2	-	4 11	13
Kans.	9	15	-	-	-	-	2	1	27	26
S. ATLANTIC Del.	385	386	1	2	23	18	24	23	952 5	1,625 8
Md.	64	96	-	1	5	8	-	1	104	171
D.C. Va.	38	2 52	- -	-	-	-	1	6	7 124	43 101
W. Va.	17	15	- 1	-	1	-	3	-	6	14
N.C. S.C.	57 4	36 6	- -	-	6	3 -	1 -	2 2	101 24	105 38
Ga. Fla.	98 107	71 108	-	- 1	- 11	7	17 2	7 5	305 276	760 385
E.S. CENTRAL	65	78	1	1	2	3	9	9	142	258
Ky.	11	7	-	-	2	2	1	1	30	31
Tenn. Ala.	38 13	47 22	1	1	-	1 -	6 2	5 3	80 9	188 24
Miss.	3	2	-	-	-	-	-	-	23	15
W.S. CENTRAL Ark.	75 3	73 6	1	2	8	10 1	2 1	4	523 57	663 37
La.	14	21	-	-	-	2	i	4	54	46
Okla. Tex.	57 1	43 3	1	2	8 -	7	-	-	20 392	22 558
MOUNTAIN	180	160	4	6	27	23	21	17	434	450
Mont.	-	-	-	-	-	-	-	-	8	8
Idaho Wyo.	5 1	5 2	-	-	1	-	2	2	21 5	17 1
Colo. N. Mex.	44 37	35 18	1	-	- 8	4	5 6	6 1	51 23	62 22
Ariz.	62	78	-	6	13	10	2	4	264	254
Utah Nev.	18 13	12 10	2 1	-	2	5 4	5 1	4	48 14	37 49
PACIFIC	95	140	2	4	20	27	7	23	959	1,208
Wash.	3	11	2	-	-	7	1	3	59	66
Oreg. Calif.	43 35	37 58	-	4	20	20	3 1	3 10	62 807	60 1,061
Alaska Hawaii	4 10	20 14	-	-	-	-	1 1	7	5 26	9 12
Guam	-	- 14	-	-	-	-	-	-	∠o 1	2
P.R.	-	1	-	-	-	-	-	1	26	82
V.I. Amer. Samoa	- U	- U	- U	U	Ū	U	Ū	U	U	U
C.N.M.I. N: Not notifiable	U: Unavailable	U	orted cases	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 December 11, 2004, and December 6, 2003 (49th Week)*

(49th Week)*		epatitis (viral, B		pe C	Logica	nellosis	Lister	ineie	Lyme disease		
Donorting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	
Reporting area UNITED STATES	6,282	6,666	785	1,017	1,769	2,014	633	629	17,302	19,438	
NEW ENGLAND Maine N.H.	353 3 39 5	333 1 18 4	14 - -	9 1	72 - 11	114 2 9 6	48 7 4 2	48 7 4	2,654 53 206	3,766 160 170	
Vt. Mass. R.I. Conn.	208 6 92	204 18 88	8 4 - 2	8 - - -	6 22 18 15	54 15 28	15 2 18	18 - 18	48 988 232 1,127	43 1,507 564 1,322	
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	1,214 87 119 725 283	723 91 184 173 275	140 16 - - 124	125 17 - - 108	505 107 54 94 250	582 147 70 86 279	149 47 20 26 56	125 34 23 23 45	11,432 3,920 - 3,209 4,303	12,799 4,255 210 2,832 5,502	
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	499 117 42 71 237 32	498 135 36 67 213 47	106 6 9 12 79	136 9 9 21 92 5	460 209 73 33 130 15	426 216 29 47 116 18	99 39 17 13 25 5	86 24 10 23 19 10	962 65 18 1 29 849	906 66 23 71 11 735	
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak.	309 49 14 185 4	319 33 13 222 2	52 18 - 34 -	255 9 1 242 -	59 7 6 31 2 5	68 3 10 35 1 2	22 6 3 8	17 5 - 6 -	701 591 44 54 -	443 318 50 68	
Nebr. Kans.	40 17	30 17	-	3 -	4 4	6 11	3 -	4 2	8 3	2 4	
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	1,817 28 160 19 256 39 178 76 567 494	1,903 11 127 12 184 38 150 150 636 595	156 - 20 3 16 24 11 6 15 61	144 - 9 - 9 7 11 24 13 71	369 12 74 11 50 9 38 4 36	504 27 131 19 91 17 37 7 34	110 N 17 - 18 4 26 3 14 28	129 N 27 1 11 6 17 5 30 32	1,329 137 779 11 171 27 120 15 13	1,256 203 677 11 154 27 121 15 10	
E.S. CENTRAL Ky. Tenn. Ala. Miss.	415 71 174 66 104	451 72 194 94 91	89 23 35 5 26	83 19 18 6 40	86 39 33 11 3	100 43 33 19 5	21 4 10 5 2	31 9 8 12 2	48 15 17 5 11	61 15 17 8 21	
W.S. CENTRAL Ark. La. Okla. Tex.	564 74 63 47 380	1,087 79 111 56 841	119 3 69 3 44	150 3 98 2 47	64 - 4 8 52	74 2 1 7 64	28 2 3 - 23	49 1 4 3 41	49 8 5 - 36	91 - 6 - 85	
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	489 2 10 7 56 12 278 55 69	543 16 8 31 76 34 250 47 81	36 2 - 2 - 7 6 5	49 3 1 - 13 - 7 - 25	81 3 9 7 19 4 11 24	69 4 4 2 12 3 11 23 10	26 - 1 - 12 1 - 4 8	31 2 2 - 9 2 10 2 4	32 - 6 3 - 2 6 14 1	14 - 3 2 - 1 3 2 3	
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	622 50 105 441 15	809 76 110 590 6 27	73 22 15 30	66 18 15 30	73 11 N 61 1	77 10 N 66	130 11 7 107 - 5	113 8 5 95 -	95 13 32 48 2 N	102 3 16 80 3 N	
Guam P.R.	6 53	9 124	- -	5 -	2	1 -	- -	-	- 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	

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 December 11, 2004, and December 6, 2003 (49th Week)*

	l Ma	OKIO					I – · ·		Rocky Mountain		
	Cum.	Cum.	Cum.	case Cum.	Cum.	ussis Cum.	Rabies, Cum.	Cum.	Cum.	d fever Cum.	
Reporting area UNITED STATES	2004	1.057	2004	2003	10.701	2003	2004	2003	1 405	2003	
NEW ENGLAND	1,204 80	1,257 61	1,184 68	1,547 70	16,781 1,697	9,451 1,717	5,595 662	6,480 576	1,425 20	911 9	
Maine	6	2	11	6	34	12	51	66	-	-	
N.H. Vt.	5 4	6 2	7 3	5 3	96 94	91 66	30 35	28 37	- 1	-	
Mass.	46	30	35	42	1,421	1,457	295	206	15	9	
R.I. Conn.	4 15	2 19	2 10	2 12	40 12	20 71	38 213	65 174	2 2	-	
MID. ATLANTIC	322	340	147	195	2,691	1,253	897	879	96	40	
Upstate N.Y. N.Y. City	51 169	55 183	37 24	51 40	1,788 161	655 141	502 13	410 6	5 23	- 13	
N.J.	58	60	34	28	244	173	-	62	33	16	
Pa.	44	42	52	76	498	284	382	401	35	11	
E.N. CENTRAL Ohio	102 29	104 22	176 70	240 56	5,277 592	1,205 287	160 76	167 53	24 12	21 9	
Ind.	17	4	29	41	266	66	10	28	6	1	
III. Mich.	23 19	44 23	18 44	70 46	471 264	112 124	50 15	24 48	2 4	5 6	
Wis.	14	11	15	27	3,684	616	9	14	-	-	
W.N. CENTRAL Minn.	66 25	49 21	82 23	120 26	2,079 437	457 141	472 89	620 39	126 4	64 2	
Iowa	4	6	17	26	194	151	104	100	1	2	
Mo. N. Dak.	20 3	6 1	20 2	48 1	417 735	96 7	59 61	42 55	100	50 -	
S. Dak. Nebr.	1 4	3	2 4	1 7	73 63	5 15	10 53	129 98	4 17	5 4	
Kans.	9	12	14	11	160	42	96	157	-	1	
S. ATLANTIC	315	306	202	260	651	655	1,860	2,526	735	546	
Del. Md.	6 72	2 70	3 10	9 27	8 129	9 85	9 307	59 335	4 74	1 105	
D.C.	13	14	4	5	5	3	-	-	-	1	
Va. W. Va.	51 2	38 4	20 6	25 6	209 24	91 24	461 66	489 81	35 5	31 5	
N.C. S.C.	21 9	23 4	31 12	35 21	80 48	126 183	565 151	757 233	514 19	287 39	
Ga.	50	64	15	33	20	31	298	384	63	64	
Fla.	91	87	101	99	128	103	3	188	21	13	
E.S. CENTRAL Ky.	28 4	30 9	60 11	88 19	266 72	149 47	135 22	204 37	173 2	125 3	
Tenn.	7	7	15	28	135	70	36	101	88	68	
Ala. Miss.	12 5	7 7	17 17	20 21	42 17	18 14	66 11	62 4	47 36	21 33	
W.S. CENTRAL	91	129	109	168	771	712	1,025	1,111	218	96	
Ark. La.	8 5	4 5	17 35	14 39	73 11	44 10	48	25 5	138 5	39 1	
Okla.	7	4	10	17	33	88	101	190	71	42	
Tex.	71	116	47	98	654	570	876	891	4	14	
MOUNTAIN Mont.	49 1	42	62 3	91 5	1,647 65	972 5	210 26	174 21	28 3	9 1	
Idaho Wyo.	1 1	1 1	7 3	7 2	37 35	75 126	8 6	15 6	4 5	2 2	
Colo.	15	22	15	25	913	355	43	38	1	2	
N. Mex. Ariz.	4 13	3 8	9 12	12 29	140 206	72 181	5 109	5 70	2 4	1	
Utah	8	5	6	3	208	123	10	14	9	1	
Nev. PACIFIC	6	106	7	8 215	43	35 2,331	3 174	5	5	-	
Wash.	151 18	196 26	278 31	315 39	1,702 724	722	174 -	223	-	-	
Oreg. Calif.	17 111	10 153	55 182	57 200	457 486	434 1,097	6 160	6 208	3 2	- 1	
Alaska	2	1	3	7	12	66	8	9	-	-	
Hawaii	3	6	7	12	23	12	-	-	-	-	
Guam P.R.	-	1 2	1 11	12	7	1 4	- 57	- 67	N	- N	
1.11.					-						
V.I. Amer. Samoa	- U	U	U	U	U	U	U	Ū	U	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 II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 11, 2004, and December 6, 2003 (49th Week)*

(49th Week)*							Strej	otococcus pne	umoniae, inv	asive
	Salmon	ellosis	Shigel	losis	Streptococc invasive,		Drug res		Δne <	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	37,725	40,709	11,369	21,925	4,183	5,300	1,973	1,877	681	690
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	1,944 89 135 58 1,107 128 427	2,009 132 135 70 1,175 122 375	278 9 9 4 171 19 66	327 6 9 8 220 19	168 11 19 8 109 21	437 28 29 19 194 15	66 2 8 37 19	98 - 7 N 10 81	71 3 N 3 56 9 U	9 N 5 N 4 U
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	5,233 1,196 1,142 948 1,947	4,672 1,101 1,267 823 1,481	1,089 401 361 228 99	2,272 553 405 343 971	675 221 102 147 205	895 336 140 166 253	131 56 U - 75	128 69 U - 59	118 84 U 7 27	98 69 U 4 25
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	4,618 1,178 578 1,278 774 810	5,319 1,269 531 1,865 751 903	1,061 166 209 313 205 168	1,786 287 176 962 232 129	798 215 94 165 270 54	1,227 280 117 322 345 163	464 325 139 - N N	412 268 144 - N N	167 80 39 9 N 39	302 94 30 124 N 54
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	2,325 603 409 594 41 130 175 373	2,353 540 369 853 36 116 160 279	431 63 63 172 3 13 37 80	755 96 84 351 10 16 86 112	284 138 N 58 13 20 14 41	320 153 N 74 17 22 25 29	20 N 15 - 5	19 N 15 3 1	102 67 N 14 4 - 7	74 53 N 3 7 - 5
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	10,454 81 785 60 1,120 223 1,595 793 1,788 4,009	10,439 97 807 47 1,018 124 1,301 765 1,971 4,309	2,518 6 142 39 161 9 372 286 598 905	6,432 161 555 73 417 - 944 508 1,125 2,649	810 3 169 10 68 25 122 37 163 213	866 6 214 9 94 34 102 39 171 197	964 4 - 6 N 104 N 71 238 541	993 1 25 1 N 71 N 137 223 535	59 N 43 3 N 13 U N N	18 N - 7 N 11 U N N
E.S. CENTRAL Ky. Tenn. Ala. Miss.	2,416 339 523 711 843	2,812 372 721 745 974	754 74 327 305 48	977 125 361 322 169	190 58 132	189 45 144	124 30 93	139 20 119	6 N N N	N N N
W.S. CENTRAL Ark. La. Okla. Tex.	3,290 552 790 381 1,567	5,806 773 839 445 3,749	2,606 76 268 468 1,794	5,606 100 438 823 4,245	239 16 2 61 160	272 6 2 88 176	65 10 55 N N	76 21 55 N N	116 8 26 43 39	121 7 26 58 30
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	2,282 183 145 53 515 261 716 237 172	2,173 110 170 74 473 283 684 209 170	797 4 13 5 148 122 396 50 59	1,231 2 33 8 319 257 498 48 66	493 9 10 128 82 218 42 4	498 1 19 2 136 112 193 33 2	38 N 11 5 N 20 2	8 N 7 - N 1	40 N - 37 - N 3	68 N - 52 11 N 5
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	5,163 559 385 3,813 57 349	5,126 574 415 3,829 93 215	1,835 107 78 1,600 6 44	2,539 162 209 2,112 11 45	526 53 N 348 - 125	596 74 N 390 - 132	101 - N N - 101	4 - N N - 4	2 N N N N	N N N N
Guam P.R.	26 293	43 697	33 8	41 27	- N	- N	- N	- N	- N	- N
V.I. Amer. Samoa C.N.M.I.	U 3	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 December 11, 2004, and December 6, 2003 (49th Week)*

(49th Week)*		Syph							Varicella		
		secondary	Cong			culosis	1	d fever	(Chicke		
Reporting area	Cum. 2004	Cum. 2003									
UNITED STATES	7,018	6,585	300	411	10,490	11,599	265	339	17,099	16,226	
NEW ENGLAND Maine	167 2	204 8	5	1	360	386 19	21	28	651 240	3,154	
N.H.	4	18	3	-	16	13	-	4	-	777 -	
Vt. Mass.	108	1 128	-	-	239	9 204	- 14	- 15	411	790 147	
R.I.	22	23	1	-	30	44	1	2	-	5	
Conn.	31	26	1	1	75	97	6	7	-	1,435	
MID. ATLANTIC Upstate N.Y.	941 95	836 40	39 4	63 12	1,908 260	2,078 277	61 8	76 12	85 -	40	
N.Y. City N.J.	585 141	481 166	15 19	31 20	923 413	1,061 421	22 16	35 21	-	-	
Pa.	120	149	1	-	312	319	15	8	85	40	
E.N. CENTRAL	832	837	57	74	1,095	1,097	18	32	6,088	5,766	
Ohio Ind.	217 55	186 45	1 9	3 16	181 123	186 125	5	2 4	1,364 139	1,161	
III.	355	355	16	21	489	519	-	16	2	-	
Mich. Wis.	174 31	235 16	31	33 1	216 86	205 62	10 3	10	3,955 628	3,671 934	
W.N. CENTRAL	135	140	5	5	418	438	10	6	130	76	
Minn. Iowa	16 5	42 9	1	-	169 33	183 30	6	2 2	- N	- N	
Mo.	85	56	2	4	111	108	2	1	5	-	
N. Dak. S. Dak.	-	2 2	-	-	4 8	4 16	-	-	82 43	76	
Nebr.	6	6	-	1	36	24	2	1	-	-	
Kans.	23	23	2	-	57	73	-	-	- 0.010	- 0.000	
S. ATLANTIC Del.	1,822 8	1,729 6	52 1	80 -	2,281	2,387 23	43	54 -	2,018 4	2,083 29	
Md. D.C.	338 89	288 46	9 1	12	242 71	231	11	10	- 25	1 29	
Va.	93	74	3	1	247	248	9	14	487	499	
W. Va. N.C.	2 176	2 143	12	19	22 294	20 324	8	9	1,234 N	1,267 N	
S.C.	112 332	93	8 2	14 13	163	159 497	- 5	-	268	258	
Ga. Fla.	672	469 608	16	21	393 849	885	10	6 15	-	-	
E.S. CENTRAL	371	302	19	12	494	659	7	8	-	-	
Ky. Tenn.	47 123	32 128	1 8	1 2	113 195	121 215	3 4	1 3	-	-	
Ala.	152	107	8	7	153	220	-	4	-	-	
Miss.	49	35	2	2	33	103	-	-		4.450	
W.S. CENTRAL Ark.	1,127 38	871 45	50 -	76 3	1,032 104	1,703 88	20	30	5,645 -	4,452 -	
La. Okla.	265 24	160 61	2	1	143	- 141	- 1	- 1	51	16	
Tex.	800	605	48	71	785	1,474	19	29	5,594	4,436	
MOUNTAIN	323	305	42	33	487	423	8	7	2,482	655	
Mont. Idaho	3 22	11	2	2	14 4	5 8	-	1	-	-	
Wyo. Colo.	3 38	35	-	3	4 107	4 101	3	4	56 1,877	88	
N. Mex.	56	65	1	10	34	45	-	-	1,077	4	
Ariz. Utah	155 8	172 11	39	18	208 36	203 35	2 1	2	- 448	563	
Nev.	38	11	-	-	80	22	2	-	-	-	
PACIFIC	1,300	1,361	31	67	2,415	2,428	77	98	-	-	
Wash. Oreg.	136 27	75 42	-	-	219 74	226 101	6 2	3 4	-	-	
Caliť. Alaska	1,127 3	1,232 1	30	65	1,979 35	1,943 53	63	90	-	-	
Hawaii	7	11	1	2	108	105	6	1	-	-	
Guam		. 1	<u>-</u>		15	48	-	-	112	143	
P.R. V.I.	161 4	191 1	5 -	14	84	100	-	-	271 -	580	
Amer. Samoa	U	U	U	U	U	U	U	U	U	U	
C.N.M.I.	2	U	-	U	10	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 III. Deaths	in 122 U.		* week e			oer 11	, 2004 (19th Week)	All causes, by age (years)						
Demonting Association	All					_	P&I†	Danastina Assa	All		I				P&I†
Reporting Area	Ages	≥ 65 388	110	25–44	1–24 15	<1 8	Total	Reporting Area S. ATLANTIC	Ages	≥65	45–64	25–44 119	1–24 41	<1 40	Total
NEW ENGLAND Boston, Mass.	553 158	388 98	31	29 17	8	8 4	47 18	Atlanta, Ga.	1,440 147	885 85	355 40	119	41	40 8	68 5
Bridgeport, Conn.	39	31	6	2	-	-	2	Baltimore, Md.	196	116	50	20	6	4	15
Cambridge, Mass.	13	11	2	-	-	-	1	Charlotte, N.C.	123	81	27	9	2	4	11
Fall River, Mass. Hartford, Conn.	22 58	13 41	6 14	1	1	1	6	Jacksonville, Fla. Miami, Fla.	189 94	120 61	49 21	15 7	2	3 2	3 2
Lowell, Mass.	20	19	1	-		-	4	Norfolk, Va.	58	41	9	4	2	2	2
Lynn, Mass.	10	7	3	-	-	-	1	Richmond, Va.	67	43	14	3	4	3	3
New Bedford, Mass.	26	23	2	1	-		4	Savannah, Ga.	70	44	17	6	2	1	2
New Haven, Conn. Providence, R.I.	U 63	U 47	U 10	U 2	U 3	U 1	U 3	St. Petersburg, Fla. Tampa, Fla.	69 210	45 140	14 47	3 15	4 3	3 5	3 15
Somerville, Mass.	3	2	1	-	-	-	-	Washington, D.C.	202	101	62	25	9	5	6
Springfield, Mass.	47	30	14	2	-	1	2	Wilmington, Del.	15	8	5	2	-	-	1
Waterbury, Conn.	26	17	6	2	1	-	2	E.S. CENTRAL	958	630	218	71	24	15	75
Worcester, Mass.	68	49	14	2	2	1	4	Birmingham, Ala.	247	166	62	13	5	1	28
MID. ATLANTIC	2,238	1,544 27	478 10	138 6	43 2	32 1	100 5	Chattanooga, Tenn.	81 78	52 58	14	8 4	6 2	1 1	4 6
Albany, N.Y. Allentown, Pa.	46 24	18	3	3	-	-	5 1	Knoxville, Tenn. Lexington, Ky.	101	67	13 22	9	2	1	11
Buffalo, N.Y.	84	61	15	6	1	1	8	Memphis, Tenn.	124	77	26	16	5		6
Camden, N.J.	16	8	4	2	1	1	1	Mobile, Ala.	63	43	18	1	-	1	6
Elizabeth, N.J.	20	10	9	1		-	1	Montgomery, Ala.	90	54	19	14	1	2	2
Erie, Pa. Jersey City, N.J.	49 41	39 33	7 5	2 2	1 1	-	2	Nashville, Tenn.	174	113	44	6	3	8	12
New York City, N.Y.	1,179	822	247	67	21	19	46	W.S. CENTRAL	1,772	1,125	432	126	39	50	93
Newark, N.J.	69	38	21	8	-	2	3	Austin, Tex. Baton Rouge, La.	106 46	63 35	24 8	10 3	4	5	6
Paterson, N.J.	8	5	3	-	-	-	-	Corpus Christi, Tex.	69	49	14	2	2	2	5
Philadelphia, Pa. Pittsburgh, Pa.§	334 20	216 15	77 4	30	9 1	2	9	Dallas, Tex.	220	129	59	16	6	10	11
Reading, Pa.	21	18	2	-	1	-	2	El Paso, Tex.	114	77	25	7	3	2	5
Rochester, N.Y.	129	90	33	3	2	1	10	Ft. Worth, Tex.	154 403	95 238	43	6 33	3 12	7 12	9 23
Schenectady, N.Y.	30	25	1	3	1	-	2	Houston, Tex. Little Rock, Ark.	403 77	∠36 43	108 21	10	2	1	23 5
Scranton, Pa.	27	19	5	1	2	-	1	New Orleans, La.	49	33	14	2	-		-
Syracuse, N.Y. Trenton, N.J.	77 30	57 15	18 10	2 1	-	4	4 2	San Antonio, Tex.	311	212	62	28	1	8	19
Utica, N.Y.	14	12	1	-	-	1	2	Shreveport, La.	80	53	21	2	3	1	2
Yonkers, N.Y.	20	16	3	1	-	-	1	Tulsa, Okla.	143	98	33	7	3	2	8
E.N. CENTRAL	2,212	1,439	496	136	64	75	127	MOUNTAIN Albuquerque, N.M.	1,036 142	682 89	222 36	76 14	33 2	21 1	64 11
Akron, Ohio	52	42	6	-	-	4	3	Boise, Idaho	57	38	6	3	3	7	5
Canton, Ohio Chicago, III.	38 371	30 207	6 101	2 24	8	29	6 26	Colo. Springs, Colo.	74	54	8	7	4	1	5
Cincinnati, Ohio	79	55	11	8	4	1	3	Denver, Colo.	101	60	24	9	4	4	3
Cleveland, Ohio	236	165	51	13	5	2	10	Las Vegas, Nev. Ogden, Utah	232 24	146 19	60 2	18	7 3	1	13 1
Columbus, Ohio	216	138	56	11	4	7	13	Phoenix, Ariz.	117	71	31	8	2	3	5
Dayton, Ohio Detroit, Mich.	138 171	91 93	30 52	12 17	5 7	2	9 10	Pueblo, Colo.	26	18	4	2	2	-	-
Evansville, Ind.	51	35	11	3	1	1	4	Salt Lake City, Utah	109	70	23	8	6	2	8
Fort Wayne, Ind.	54	35	13	1	3	2	-	Tucson, Ariz.	154	117	28	7	-	2	13
Gary, Ind.	25	17	7	1	-	-	1	PACIFIC	1,793	1,254	370	108	28	32	156
Grand Rapids, Mich. Indianapolis. Ind.	91 207	69 116	16 46	1 23	2 13	3 9	8 11	Berkeley, Calif. Fresno. Calif.	15 218	10 168	5 32	11	3	4	1 24
Lansing, Mich.	53	39	7	3	2	2	1	Glendale, Calif.	26	21	3	2	-	-	3
Milwaukee, Wis.	105	67	25	9	1	3	7	Honolulu, Hawaii	84	60	15	5	-	4	9
Peoria, III.	59	40	13	2	2	2	1	Long Beach, Calif.	71	53	11	5	2	-	10
Rockford, III.	60	40	12	5	-	3	1	Los Angeles, Calif.	397 U	259	92	29 U	9 U	8 U	32
South Bend, Ind. Toledo, Ohio	31 112	26 79	5 21	1	7	4	3 5	Pasadena, Calif. Portland, Oreg.	127	U 87	U 33	4	-	2	U 7
Youngstown, Ohio	63	55	7	-	-	1	5	Sacramento, Calif.	U	Ü	Ü	Ü	U	U	Ú
W.N. CENTRAL	679	425	160	53	19	22	51	San Diego, Calif.	169	116	34	11	3	5	14
Des Moines, Iowa	Ü	U	U	Ü	Ü	Ü	Ü	San Francisco, Calif.	118	69	31	15	2	1	15
Duluth, Minn.	29	22	6	1	-	-	2	San Jose, Calif. Santa Cruz, Calif.	213 26	153 22	44 3	8 1	4	4	17 4
Kansas City, Kans.	39	17	12	5	3	2	5	Seattle, Wash.	152	108	31	10	1	2	8
Kansas City, Mo. Lincoln, Nebr.	90 67	59 42	23 18	3 4	3 1	2	4 4	Spokane, Wash.	67	50	13	2	2	-	6
Minneapolis, Minn.	68	39	13	9	3	4	5	Tacoma, Wash.	110	78	23	5	2	2	6
Omaha, Nebr.	105	76	18	7	-	4	10	TOTAL	12,681 [¶]	8,372	2,841	856	306	295	781
St. Louis, Mo.	109	61	32	9	2	5	12								
St. Paul, Minn.	59	45 64	9	1	3 4	1	2 7								
Wichita, Kans.	113	. 64	29	14	4	2		<u> </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.

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format and on a paid subscription basis for paper copy. To receive an electronic copy each week, send an e-mail message to listserv@listserv.cdc.gov. The body content should read SUBscribe mmwr-toc. Electronic copy also is available from CDC's World-Wide Web server at http://www.cdc.gov/mmwr or from CDC's file transfer protocol server at ftp://ftp.cdc.gov/pub/publications/mmwr. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone 202-512-1800.

Data in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the following Friday. Address inquiries about the *MMWR* Series, including material to be considered for publication, to Editor, *MMWR* Series, Mailstop E-96, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333; telephone 888-232-3228.

All material in the MMWR Series is in the public domain and may be used and reprinted without permission; citation as to source, however, is appreciated.

All MMWR references are available on the Internet at http://www.cdc.gov/mmwr. Use the search function to find specific articles.

Use of trade names and commercial sources is for identification only and does not imply endorsement by the U.S. Department of Health and Human Services.

References to non-CDC sites on the Internet are provided as a service to MMWR readers and do not constitute or imply endorsement of these organizations or their programs by CDC or the U.S. Department of Health and Human Services. CDC is not responsible for the content of these sites. URL addresses listed in MMWR were current as of the date of publication.

☆U.S. Government Printing Office: 2005-733-116/00060 Region IV ISSN: 0149-2195