

Dental Visits Volume and Interval Since Last Visit: United States, 1978 and 1979

Statistics are presented on the volume of dental visits and the time interval since the last dental visit, by age, sex, race, family income, education of the head of family, usual activity status, place of residence, and geographic region. Estimates are based on data collected in health interviews during 1978 and 1979. Statistics are also presented on the proportion of persons with no out-of-pocket dental expense, those with expense by selected expense intervals, and per capita annual dental expense, by age and sex. Estimates are based on data collected by self-reporting during January-March 1978 on out-of-pocket spending for 1977.

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Under the legislation establishing the National Health Interview Survey, the Public Health Service is authorized to use, insofar as possible, the services or facilities of other Federal, State, or private agencies.

In accordance with specifications established by the Division of Health Interview Statistics, the Bureau of the Census, under a contractual arrangement, participated in planning the survey and collecting the data.

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Symbols

- --- Data not available
- ... Category not applicable
- Quantity zero
- 0.0 Quantity more than zero but less than 0.05
- Z Quantity more than zero but less than500 where numbers are rounded to thousands
- * Figure does not meet standards of reliability or precision
- # Figure suppressed to comply with confidentiality requirements

Dental Visits Volume and Interval Since Last Visit

by Charles S. Wilder, formerly with Division of Health Interview Statistics

Introduction

National estimates of the volume of dental visits and the distribution of the population by interval since last dental visit are presented in this report based on data collected in the National Health Interview Survey during 1978 and 1979. The population covered by the survey is the civilian noninstitutionalized population of the United States. A dental visit is defined as any visit to a dentist's office for treatment or advice, even if the service was not provided directly by the dentist but by a technician or hygienist acting under a dentist's supervision.

Also presented in this report is information on out-of-pocket expenses for dental care in 1977. This information is based on data collected from respondents to the National Health Interview Survey during January-March 1978. Per capita dental expense, average expense per person with expense, and a distribution by interval of expense are shown.

Data in this report can be compared with that on dental visits presented in several earlier published reports from the National Center for Health Statistics in Series 10. The most recent of these reports on dental visits was that for 1969 in Series 10, Number 76, and prior to that for July 1963-June 1964 in Series 10, Numbers 23 and 29. Summary statistics on dental visits and interval since last visit by age and sex are published each year in the Current Estimates reports in Series 10.

The information on dental visits presented in this report are averages based on data collected during 1978 and 1979. Two years of data were used to increase the stability of the estimates since increasing the sample size leads to smaller sampling errors. A comparison between the 2-year averages and the statistics for individual years is shown below:

	Average 1978 and 1979	1978	1979
Population	214,776,000	213,828,000	215,723,000
Percent with visit in year prior to interview	50.0	49.9	50.2
Number of dental visits per person per year	1.6	1.6	1.7

Highlights

- 1. An estimated 50 percent of the civilian noninstitutionalized population of the United States made at least one dental visit in the year prior to interviews in 1978 and 1979.
- 2. The average person made 1.6 dental visits.
- 3. About 2.9 percent of the population age 6 years and over had never made a dental visit.
- 4. Females had more dental visits per person than males did.
- 5. Children aged 6-16 years had the highest rate of dental visits.
- 6. White persons made more dental visits per person than persons of other races did.

- 7. Persons with annual family incomes of \$25,000 or more had the highest rate of dental visits.
- 8. Persons whose head of family had 16 years or more of education had high rates.
- 9. Residents of metropolitan areas made more dental visits per person than those living outside these areas did.
- 10. Persons living in the Northeast and West Regions had higher rates of dental visits than residents of the other two regions.
- 11. Average out-of-pocket expense for dental care in 1977 was \$47 per person. The average was \$113 per person with dental expense.

Source and limitations of the data

The information from the National Health Interview Survey (NHIS) presented in this report is based primarily on data collected in a continuing nation-wide survey conducted by household interview. (The data on out-of-pocket dental expenses were obtained by self-reporting, as explained later.) Each week a probability sample of households is interviewed by trained personnel of the U.S. Bureau of the Census to obtain information about the health and other characteristics of each member of the household in the civilian noninstitutionalized population of the United States.

Most of the estimates in this report are for the 2-year period 1978 and 1979. During these 104 weeks the probability sample was composed of about 83,000 eligible occupied households of which 80,000 were interviewed. These interviewed households contained about 220,500 persons living at the time of the interview. The total noninterview rate for 1978 and 1979 was 3.6 percent, of which 2.0 percent was due to respondent refusal, and the remainder was primarily due to the failure to find an eligible respondent at home after repeated calls.

The population figures used in computing rates and percentages presented in this report are found in tables F, 1, 15-18.

The data on dental expenses were obtained from responses to a questionnaire left with the respondents to the interviews conducted during January-March 1978. During these 13 weeks the sample included about 10,300 occupied households, of which 9,888 containing approximately 27,200 persons were interviewed. Following the household interview, the interviewer left a family medical expenses questionnaire for each family or each unrelated individual in the household for self-enumeration. Completed questionnaires were mailed to the U.S. Bureau of the Census. After followup of nonrespondents, the response rate was 86.7 percent of the persons in the interviewed households. (Two forms of the questionnaire were used; the answers to the questions were about the

same for each type of questionnaire and, thus, the results were pooled.)

A description of the design of the National Health Interview Survey, the methods used in estimation, and the general qualifications of the data obtained from this survey are presented in appendix I. Because the estimates shown in this report are based on a sample of the population, they are subject to sampling error. Therefore particular attention should be paid to the section entitled, "Reliability of estimates." Sampling errors for most of the estimates are relatively low. However, where an estimated number or the numerator or denominator of a rate or percentage is small, the sampling error may be high. Charts of relative sampling errors and instructions for their use are shown in appendix I.

Certain terms used in this report are defined in appendix II. Some of the terms have specified meanings for the purpose of this survey.

The questions used in 1978 and 1979 to obtain information on dental visits and interval since last dental visit are illustrated in appendix III. Also presented are the questions used in 1969 and July 1963-June 1964, from which the comparison information in table A is derived. The entire questionnaire used in 1978 is shown in the Current Estimates, Series 10, No. 130, and for 1979 in Series 10, No. 136. The health expenses questionnaires used in January-March 1978 are also presented in appendix III.

Questionnaire design and interviewer training have aimed at minimizing the effects of respondent differences in reporting. Respondent differences in reporting occur when household respondents do not know the requested information, fail to recall accurately events occurring during the reference period, report events as having occurred during the reference period that actually happened outside the reference period, or withhold information.

In this report, terms such as "similar" and "no difference" indicate that the difference between the

measures being compared is not statistically significant. Terms indicating difference (e.g., "greater than," "higher than," "less than") show that the difference is statistically significant at the 5-percent level of significance employing the t-test with a

critical value of ±1.96. Lack of comment regarding the difference between any two statistics does *not* mean the difference was tested and found to be not significant.

Interval since last dental visit

An estimated average of 107.4 million persons in the civilian noninstitutionalized population, or 50.0 percent of this population, made at least one visit to a dentist's office for treatment or advice during the year prior to interview in 1978 and 1979 (tables A, 1 and 2). This estimate of half of the population with a dental visit in the past year was markedly higher than the percent reported for July 1963-June 1964 and 1969 of 42.0 and 45.0, respectively. During recent years, according to the Current Estimates reports, the percent of the population with a dental visit in the year prior to interview has been near 50 percent.²

In general, for most demographic characteristics the proportion of the population with at least one dental visit in the year prior to interview was higher in 1978 and 1979 than in 1969. The exception was the income groups from \$7,000 annual family income and up. For each of the three income groups of \$7,000 or more shown in table A the percent in 1978 and 1979 was lower than in 1969. This fall in proportion was noted in the previous report on dental visits for 1969 (Series 10, No. 76). The explanation given there of the sizable number of persons shifting to a higher income level with no appreciable change in demand for dental services probably explains the drop in the percent with a visit for the current data.

Table B shows the population and percent distribution by family income for three time periods. The shift in population to higher income groups is in line with the rise in the Consumer Price Index (CPI) during the period. For example, the CPI, all items, was 116.3 in 1970, 195.3 in 1978, and 217.7 in 1979. Thus from 1970 to 1979 the CPI rose 87

percent. An income of \$4,000 in 1970 had to rise to \$7,480 in 1979 to maintain the same standard of living. Similarly, an income of \$10,000 in 1970 would have been \$18,700 in 1979. Therefore, if a sizable number of persons moved from one income level to another and the demand for dental services did not change appreciably, a drop in the percent with a visit could occur.

An estimated average of 9.1 percent of the population during 1978 and 1979 was reported as never having made a dental visit (table 2). This percent represents a substantial drop from the level of 13.3 percent reported for 1969 (Series, 10, No. 76). For the current data, an estimated 74.3 percent of the children under 6 years of age had never seen a dentist. The corresponding percent for persons 6 years of age and over was 2.9 percent. Table C shows the population under 6 years of age by single years and indicates that none of the children under 2 years of age and few of the 2 and 3 year olds had ever seen a dentist.

An estimated 8.8 percent of children 6-16 years were reported as never having made a dental visit (table 2). In addition, for this age group, 25.3 percent had not visited a dentist 1 year or more prior to the interview. Thus about one-third (34.1 percent) of the school-age children 6-16 years show evidence of neglected dental care. A report based on data from the National Health and Nutrition Examination Survey of 1971-74 reveals information about decayed, missing, and filled teeth (DMF) in the age groups 6-11 years and 12-17 years.² Among children 6-11 years the survey reported an average DMF score of 1.7 teeth per child. "The average score is comprised of 0.7 decayed, 0.1 missing, and 0.8 filled permanent teeth," For children aged 12-17 years, the estimated average DMF score was 6.2, consisting of 1.8 decayed teeth, 0.6 missing teeth, and 3.7 filled permanent teeth.

Because of the importance of dental care in the formative years, the age group 6-16 years was selected

^aThe percentages for 5 recent years were:

		Current Estimates-Series 10
1977	49.7 percent	No. 126
1976	48.7 percent	119
1975	50.3 percent	115
1974	49.3 percent	100
1973	48.9 percent	95

Table A. Percent of population with 1 or more dental visits within a year of interview and number of dental visits per person per year, by selected characteristics: United States, July 1963—June 1964, 1969, and 1978 and 1979

Selected characteristic	Percent of dental vi	f populati isit within				f dental visits on per year	
Selected characteristic	July 1963— June 1964	1969	1978 and 1979	July 1963— June 1964	1969	1978 and 1979	
All persons ¹	42.0	45.0	50.0	1.6	1.5	1.6	
Sex							
Male	40.1	43.8	48.3	1.4	1.4	1.5	
Female	43.8	46.1	51.6	1.7	1.6	1.8	
Age							
Under 5 years	11.1	11.0	14.3	0.3	0.3	0.4	
5-14 years	54.9	58.8	64.2	1.9	1.8	2.0	
15-24 years	55.1	55.6	56.6	2.0	1.7	1.7	
25-44 years	48.5	49.5	54.3	1.9	1.6	1.7	
45-64 years	38.4	42.3	48.9	1.7	1.6	1.8	
65 years and over	20.8	23.2	32.5	0.8	1.0	1.3	
Race							
White	44.6	47.3	52.3	1.7	1.6	4.7	
All other	22.7	28.3	35.7	0.9		1.7	
	22.1	20.3	30.7	0.9	0.7	1.1	
Family income							
Less than \$3,000	24.0	26.6	35.1	0.8	0.8	1.1	
\$3,000-\$4,999	33.4	31.9	33.8	1.0	1.0	1.1	
\$5,000-\$6,999	41.8	37.4	36.3	1.6	1.1	1.2	
\$7,000-\$9,999	51.3	45.1	38.4	1.9	1.4	1.2	
\$10,000-\$14,999	61.5	55.1	45.0	2.6	1.9	1.4	
\$15,000 or more	71.2	66.7	60.4	3.4	2.5	2.0	
Education of head of family							
Less than 9 years	26.9	28.1	29.6	1.0	0.8	1.0	
9-12 years	43.9	45.3	48.3	1.6	1.5	1.5	
13 years or more	62.6	62.9	64.2	2.6	2.2	2.3	
Usual activity status							
Preschool (under 6 years)	16.5	172	21.2	0 =	0.4		
School-age (6-16 years)	56.9	17.3		0.5	0.4	0.6	
Usually working (17 years and over)	43.7	60.1	64.6	2.0	1.9	2.1	
Usually keeping house (female, 17 years and over)	41.1	46.1	52.9 45.3	1.7	1.6	1.7	
Retired (45 years and over)		42.0		1.6	1.5	1.6	
Other setivity (17 years and even)	19.5	22.0	32.1	0.8	0.9	1.2	
Other activity (17 years and over)	53.2	54.5	54.7	2.0	1.7	1.7	
Place of residence							
All SMSA	44.7	47.2	52.0	1.8	1.6	1.8	
Nonfarm	38.1	40.9	45.3	1.2	1,2	1.3	
Farm	33.7	39.9	48.6	0.9	1.1	1.2	
Geographic region							
Northeast	47.7	49.8	54.9	2.1	1.8	2.0	
North Central	43.9	46.0	5 1 .8	1.5	1.6	2.0 1.6	
South	34.9	39.3	44.1	1.1	1.1	1.6	

¹Includes unknown income and education.

Table B. Civilian noninstitutionalized population and percent distribution, by family income:
United States, July 1963—June 1964, 1969, and 1978 and 1979

Family income	July 1963— June 1964	1969	Average 1978 and 1979	July 1963— June 1964	1969	Average 1978 and 1979
	Popu	lation in the	ousands	Perc	ent distri	bution
All incomes	185,797	197,422	214,776	100.0	100.0	100.0
Less than \$3,000	35,576	22.070	9,550	19.1	11.2	4.4
\$3,000-\$4,999	35,329	22,239	12,892	19.0	11.3	6.0
\$5,000-\$6,999	39,651	32,856	14,947	21.3	16.6	7.0
\$7,000-\$9,999	36,476	41,221	19,551	19.6	20.9	9.1
\$10,000-\$14,999	20,360	43,206	35,466	11.0	21.9	16.5
\$15,000 or more	8,465	24,834	101,859	4.6	12.6	47.4
\$15,000-\$24,999			54,740			25.5
\$25,000 or more			47,119			21.9
Unknown	9,941	10,996	20,511	5.4	5.6	9.5

Table C. Percent distribution of persons under 6 years of age by time interval since last dental visit and number of dental visits per person per year, according to single years of age: United States, 1978 and 1979

,	Popula under 6	Time interval cince last dental visit						Number of visits	
	Number in thousands	Percent	Less than 6 months	6-11 months	1 year	2-4 years	Never	Unknown	per person per year
				Pe	rcent d	istributio	on		
Under 6 years	18,537	100.0	15.7	5.4	3.1	0.8	74.3	0.6	0.6
Under 1 year	3,263	100.0	-	-			100.0	-	-
1 year	3,146	100.0	-	-	-		100.0	-	•
2 years	3,062	100.0	7.7	1.9	1.7	*0.1	87.9	*0.7	0.4
3 years	3,033	100.0	17.9	5.5	3.0	*0.6	72.0	0.9	0.7
4 years	3,014	100.0	29.6	10.5	6.3	1.5	51.1	1.0	0.9
5 years	3,019	100.0	41.1	15.4	8.1	2.9	31.3	1.2	1.4

for this analysis of the interval since last dental visit and the presence of decayed, missing, and filled teeth as revealed in the average DMF score. The same type of analysis obviously can be made for other age groups.

Among the age groups provided in table 2, children in the 6-16 year age group were most likely to have had a dental visit in the past year (64.2 percent). With the exception of children under 6 years, persons 65 years and older were least likely to have had a dental visit (32.5 percent). An estimated 44.0 percent of these older persons had not visited a dentist's office within 5 years or more of the interview.

Table D examines the percent of the population with a dental visit in the past year for selected demographic characteristics by unadjusted and age-adjusted percentages. Since the age distributions in the various population groups may differ considerably, comparisons should be made by using age-adjusted percentages. Age-adjusted data can be compared directly since the rates assume identical age distributions for all groups. The reader should use

age-adjusted rates only for examination of the relationships within a given demographic characteristic. The unadjusted (crude) percentages are the actual ones, which should be quoted rather than the age-adjusted ones.

Females had a higher percent with a visit in the year prior to interview than males did for both unadjusted and age-adjusted data in table D. White persons reported a markedly higher proportion with a visit than persons of other races did—52.3 percent contrasted with 35.7 percent. Age-adjustment made no appreciable difference in the rates.

In 1978 and 1979 persons with annual family incomes of \$25,000 or more reported the highest proportion with a dental visit in the past year (66.5 percent). Similarly, college graduates with 16 years or more of education reported the highest percent with a visit in the past year (69.2 percent). Higher proportions for those with high income or education were also reported in earlier years (table A). Figures 1 and 2 provide age-adjusted percentages of the population with a dental visit in the past year for family income and education of the head of the family.

Table D. Unadjusted and age-adjusted percent of population with dental visit within a year of interview, by selected characteristics: United States, 1978 and 1979

	With visit in	past year
Selected characteristic	Unadjusted	Age- adjusted ¹
Total ²	50.0	50.0
Sex		
Male	48.3 51.6	48.0 51.8
Race		
White All other	52.3 35.7	52.3 35.2
Family income		
Less than \$3,000 \$3,000-\$4,999 \$5,000-\$6,999	35.1 33.8	36.4 37.2
\$5,000-\$6,999	36.3 38.4 45.0	37.9 39.0 45.4
\$15,000 or more	60.4	59.3
\$15,000-\$24,999	55.1 66.5	54.5 64.6
Education of head of family		
Less than 9 years	29.6	31.4
9-12 years	48.3 40.7	47.9 40.6
12 years	51.6	51.2
13 years or more	64.2	64.2
13-15 years	58.6	58.5
16 years or more	69.2	69.1
Place of residence		
All SMSA	52.0	51.9
Nonfarm	45.3 48.6	45.7 48.8
Geographic region		
Northeast	54.9 51.8 44.1 52.0	55.0 51.8 44.2 52.0

¹Adjusted by the direct method to the age distribution of the total civilian noninstitutionalized population of the United States.
²Includes unknown income and education.

An estimated 52.9 percent of persons whose usual activity status was working had visited a dentist at least once in the year prior to interviews in 1978 and 1979 (table A). About one-third (32.1 percent) of the retired persons 45 years of age and over had made a dental visit in that period. This percentage is about 50 percent larger than the 22.0 percent reported for 1969.

Persons residing in standard metropolitan statistical areas (SMSA's) had a higher proportion with a dental visit than persons living outside SMSA's did. Contrary to the pattern for the 2 earlier years shown in table A, persons living on farms had a higher percent with a dental visit than persons not living on farms outside SMSA's did. Persons living in the Northeast Region had the highest proportion with a dental visit and those living in the South Region had the lowest percent.

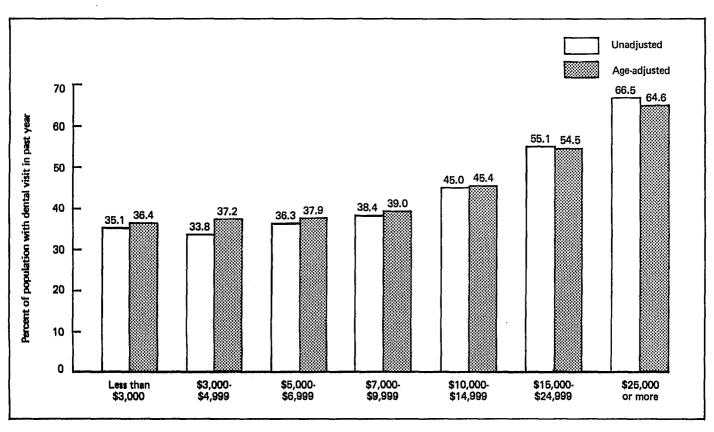


Figure 1. Unadjusted and age-adjusted percent of population with a dental visit within a year of interview, by family income: United States, 1978 and 1979

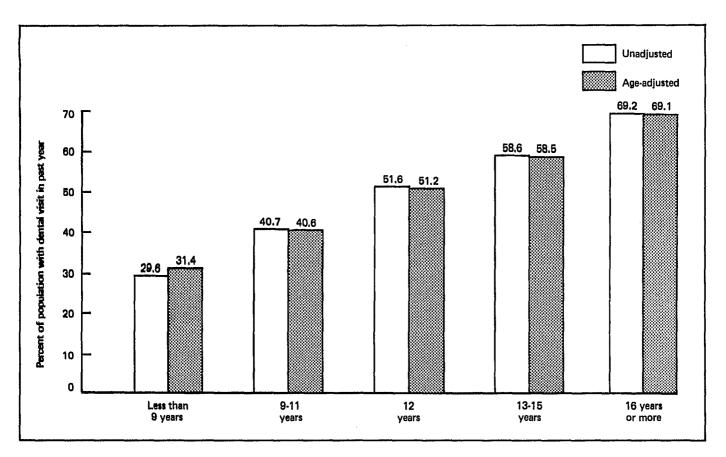


Figure 2. Unadjusted and age-adjusted percent of population with a dental visit within a year of interview, by education of head of family:

United States, 1978 and 1979

Volume of dental visits

During the 2 years, 1978 and 1979, an estimated average annual 354.4 million dental visits were made by the civilian noninstitutionalized population, or an average of 1.6 visits per person per year (tables A and 3). The number of visits per person per year was 1.5 in 1969 and 1.6 in July 1963-June 1964. The rate of dental visits was higher for males and females in the current period than in 1969. The number of dental visits per person per year was substantially higher for persons other than white during 1978 and 1979 than in 1969, 1.1 visits compared with 0.7 visits. The rate of dental visits for persons with annual family incomes of \$10,000 or more was somewhat lower in 1978 and 1979 than in 1969. Again, the rapid change in composition of income groups probably explains the drop in rates. The rate of dental visits was higher for retired persons in 1978 and 1979 than in 1969. The number of dental visits per person per year was higher for persons residing in the South Region in 1978 and 1979 than in 1969.

If the total number of dental visits reported for the current period is divided by the number of persons who had a visit during the year prior to interview, an estimated rate of 3.3 visits per person with at least one visit is obtained (354,375,000 divided by 107,414,000 persons with a visit in a year, tables 1 and 3). For 1969 the corresponding estimate was also 3.3 visits per person with a visit.

Table E shows unadjusted and age-adjusted rates of dental visits and age-specific rates for 6 age groups: under 6, 6-16, 17-24, 25-44, 45-64 and 65 years and over. These are the age groups usually found in recent reports in Series 10. Figure 3 shows the distribution of age-specific rates of dental visits for all persons for the data collected in 1978 and 1979. The number of dental visits per person per year was lowest for persons under 6 years of age and highest for persons 6-16 years. The low rate for persons under 6 is examined by single years of age in table C. For persons 5 years of age, the rate of dental visits has almost reached the average for all persons in the population.

The average number of dental visits per person per year for 1978 and 1979 was higher for females than for males—1.8 and 1.5, respectively (tables E and 3). White persons reported an average of 1.7 visits per person per year with a combined rate of 1.1 visits for persons of other races.

The number of dental visits per person per year for each of seven family income groups is provided in figure 4 and tables E, 5, and 6. The age-adjusted rates were identical for the four lowest income groups (under \$10,000 annual family income). In the three highest groups (family income of \$10,000 or more) the rates increased for each successive income level.

The influence of the education of the head of the family on the distribution of the use of dental services is illustrated in figure 5 and tables 7, 8, 9, 10. For each increase in educational level there was an increase in the rate of dental visits. Persons whose family head had 16 years or more of education, that is a college graduate, had a rate of visits 2.5 times that for the lowest education level, less than 9 years of schooling. Even though the population of the education group, less than 9 years of schooling, is substantially older than that of the highest education level (see table 15), the individual age specific rates also show the substantial difference in rates for these two educational levels. Table 10 shows, by a crossclassification of income and education, the number of dental visits per person per year. The rate of dental visits for persons with family income under \$10,000 but whose family head had some college education (13 years or more of education) was equal to the average of 1.6 visits for all persons in the population.

The distribution of dental visits among the population by usual activity status is presented in table 11. The rate for the school-age population 6-16 years was 2.1 visits per person per year. Persons 17 years of age and over whose usual activity was going to school had an average rate of 1.9 visits per person. Among the usually working group, the rate of 1.9 visits for females exceeded that of 1.6 visits for males.

Persons living in metropolitan areas (SMSA's) had

Table E. Unadjusted and age-adjusted number of dental visits per person per year, by age and selected characteristics:
United States, 1978 and 1979

	All a	ges		0.40	47.04	05.44	45.04	65
Selected characteristic	Unadjusted	Age- adjusted ¹	Under 6 years	6-16 years	17-24 years	25-44 years	45-64 years	years and over
Total ²	1.6	1.6	0.6	2.1	1.6	1.7	1.8	1.3
Sex								
faleemale	1.5 1.8	1.5 1.8	0.5 0.7	2.0 2.2	1.3 1.8	1.6 1.9	1.7 1.9	1.2 1.4
Race								
Vhite	1.7 1.1	1.8 1.1	0.6 0.4	2.3 1.2	1.7 1.0	1.8 1.3	1.9 1.3	1.4 1.0
Race and family income								
/hite—less than \$10,000	1.2 1.9 0.9 1.4	1.3 1.9 1.0 1.4	0.5 0.6 0.4 0.5	1.6 2.5 1.0 1.5	1.5 1.8 0.9 1.2	1.3 1.9 1.1 1.5	1.2 2.1 1.1 1.6	1.0 1.9 0.8 *1.4
Family income								
.ess than \$3,000 3,000-\$4,999 15,000-\$6,999 7,000-\$9,999 110,000-\$14,999 115,000 or more \$15,000 or more	1.1 1.2 1.2 1.4 2.0 1.8 2.3	1.2 1.2 1.2 1.2 1.4 2.0 1.8 2.3	*0.4 0.6 0.5 0.5 0.4 0.7 0.7	1.3 1.4 1.5 1.4 1.6 2.6 2.3 3.0	1.5 1.2 1.5 1.2 1.5 1.9 1.7	1.3 1.5 1.3 1.2 1.4 2.0 1.8 2.1	1.2 1.0 1.2 1.3 1.6 2.2 2.0 2.5	0.8 1.0 0.9 1.3 1.6 2.1 1.9
Education of head of family								
ess than 9 years -12 years 9-11 years 12 years 13 years or more 13-15 years 16 years or more	1.0 1.5 1.3 1.6 2.3 2.0 2.5	1.0 1.5 1.3 1.6 2.3 2.0 2.5	0.4 0.5 0.4 0.5 0.7 0.6 0.8	1.2 1.9 1.6 2.0 2.9 2.5 3.2	1.0 1.5 1.3 1.6 2.0 1.8 2.2	1.1 1.5 1.4 1.5 2.2 2.0 2.3	1.0 1.7 1.4 1.8 2.8 3.1	0.8 1.4 1.3 1.4 2.3 2.0 2.6
Education of head of family and family income								
.ess than \$10,000 Less than 9 years 9-12 years 9-11 years 12 years	0.8 1.2 1.2 1.3	0.9 1.3 1.2 1.3	*0.4 0.6 0.5 0.6	1.3 1.4 1.5 1.4	0.9 1.3 1.3 1.3	0.9 1.3 1.2 1.3	0.7 1.5 1.3 1.6	0.7 1.2 1.0 1.3
13 years or more	1.6 1.5 1.7	1.6 1.5 1.8	*0.4 *0.2 *1.0	1.5 1.3 *2.2	1.7 1.7 1.4	1.6 1.6 1.6	1.9 1.9 1.8	1.8 1.5 2.4
#10,000 or more Less than 9 years 9-12 years 9-11 years 12 years 13 years or more 13-15 years 16 years or more	1.2 1.6 1.4 1.7 2.4 2.1 2.6	1.2 1.6 1.4 1.7 2.4 2.2 2.6	*0.4 0.5 *0.3 0.5 0.8 0.7 0.8	1.3 2.1 1.8 2.2 3.0 2.6 3.3	1.1 1.6 1.3 1.7 2.2 1.9 2.4	1.2 1.5 1.4 1.5 2.3 2.1 2.3	1.4 1.8 1.5 1.9 2.9 2.4 3.2	1.2 1.7 1.7 1.7 2.6 2.6 2.6
Place of residence								
All SMSA	1.8 1.3	1.8 1.4	0.6 0.5	2.2 1.8	1.6 1.4	1.9 1.4	2.0 1.4	1.5 1.0
Nonfarm Farm Geographia region	1.2	1.2	*0.4	1.9	1.1	1.3	1.1	*0.6
Geographic region Northeast	2.0 1.6 1.4 1.8	1.9 1.6 1.4 1.8	0.6 0.5 0.5 0.6	2.5 2.1 1.6 2.5	2.0 1.5 1.3 1.6	2.0 1.7 1.5 1.9	2.1 1.8 1.6 1.9	1.6 1.2 1.2 1.5

¹Adjusted by the direct method to the age distribution of the total civilian noninstitutionalized population of the United States. 2 Includes unknown income and education.

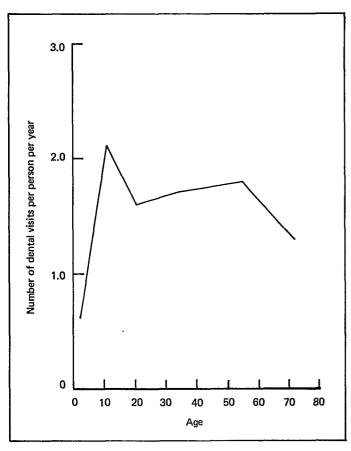


Figure 3. Number of dental visits per person per year, by age: United States, 1978 and 1979

substantially more visits per person per year than persons living outside SMSA's did (table 12). There was little difference in the rates of dental visits among farm and nonfarm residents outside metropolitan areas. Persons living in the Northeast and West Regions reported greater usage of dental services than residents of the North Central and South Regions did (tables 13 and 14). The distribution of rates of dental visits by geographic region conforms well with the distribution of dentists in active civilian practice.³ According to data for December 31, 1976, the number of active civilian dentists per 100,000 civilians by geographic region was as follows:

Region	Dentists per 100,000 civilian population	Dental visits per person per year
Northeast	62	2.0
North Central	49	1.6
South	41	1.4
West	62	1.8

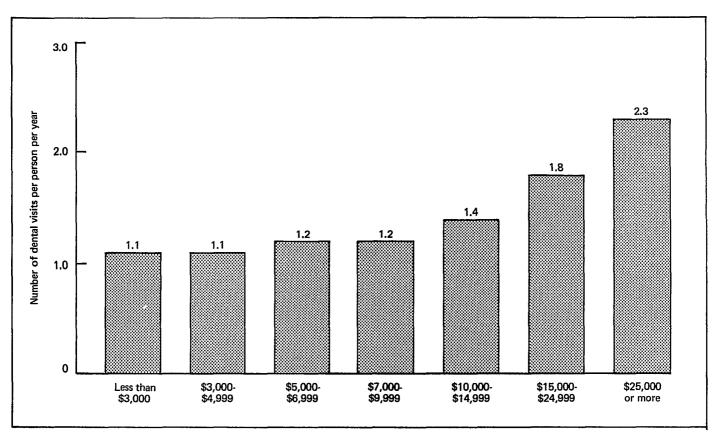


Figure 4. Number of dental visits per person per year, by family income: United States, 1978 and 1979

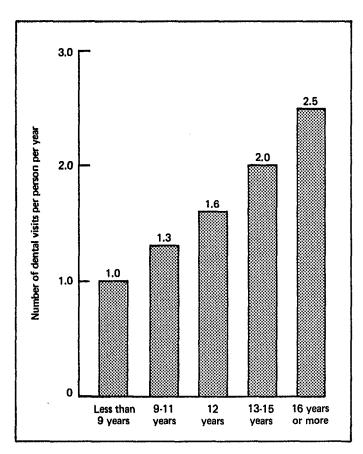


Figure 5. Number of dental visits per person per year, by education of head of family: United States, 1978 and 1979

Out-of-pocket dental expense

As mentioned earlier, following completion of the household interviews during January-March 1978, a mail-in questionnaire was left with each family and/or unrelated individual. The questionnaire was designed to obtain information about direct out-of-pocket health expenditures during 1977 for each person in the family unit, that is, each family of two or more related persons or each unrelated individual in the household. Out-of-pocket expense is defined as the amount paid by the individual or family member exclusive of any part paid by insurance, other person, or agency.

One of the items of expense requested was spending for dental services. Table F presents estimates for 1977 of dental expenses for the civilian noninstitutionalized population of the United States based on the responses to the mail-in questionnaires returned or questionnaires obtained through followup procedures. Among the questionnaires received 85.4 percent of all persons included on these questionnaires had reported known amounts of dental expenses. Known amounts include zero dollars or 1 dollar or more spent during 1977. The estimated dental expenses for the population are based on the responses with known amounts. This procedure imputes to persons with unknown amounts or to persons not responding the same distribution of health expenses as that for persons with known amounts. Thus the reader should be cautious in using these estimates.

During 1977 an estimated annual average of \$47 per person was spent out-of-pocket for dental expenses by members of the civilian noninstitutionalized population. An estimated 58.1 percent of the population had no dental expense. Thus there was an average expense of \$113 per person per year for persons who reported some expense. About 5 percent of the population reported \$250 or more dental expense per person per year. Figure 6 and table F show the distribution of per capita expense and average expense for persons with expense for 6 age

groups. Notable are the average expenses for persons with expense for the age groups 45-64 years and 65 years and over—\$146 and \$144 per person, respectively. Females had slightly higher rates of expense for all ages, but this pattern was not consistent within the age groups.

Comparison between tables A and F of the percent of the population with at least one dental visit within a year of interview and the percent of the population with no dental expense is of interest. For instance, 50.0 percent had a dental visit within a year of interview in 1978 and 1979, while 58.1 percent reported no dental expense. If the 58.1 percent includes persons who had dental service within the year 1977, but did not incur any out-of-pocket expense (say, the employer paid the cost, or some other third party paid) then the correspondence between the 50.0 percent reported in table A and the 58.1 percent in table F may be relatively close. For persons 65 years and over the similarity in the percent is quite striking, about a third had a dental visit (32.5 percent) and two-thirds did not, this agrees quite closely with the 68.8 percent who reported no dental expense. Since most dental expense is out-of-pocket spending, the closeness of these estimates is of interest.

Evidence that most dental expense is out-of-pocket is derived from provisional estimates from the National Medical Care Expenditure Survey (NMCES) for 1977. This survey employed a national sample of households for use as a panel followed throughout 1977 to obtain information about health problems, use of medical and dental services, and the total cost and source of payment of such care.

The NMCES data on dental expenses provide an estimate of \$187 as the mean expense per person with a dental expense during 1977, with an estimated 74.4 percent or \$139 paid out-of-pocket.⁴ This figure (\$139) is approximately 23 percent higher than the estimate (\$113) derived from the 1977 NHIS data.

Table F. Percent distribution of persons in January-March 1978 by intervals of annual out-of-pocket dental expense, average expense for persons with expense, and per capita expense, according to sex and age: United States, 1977

	Total			De	ntal expe	nse		Average	_	
Sex and age	population in thousands	No expense	Less than \$50			\$250- \$499	\$500 or more	for persons with expense	Per capita	
Both sexes			Per	cent dis	tribution			For persons with expense Expense in dollar 113 4: 45 95 46 90 38 110 55 146 66 144 48 49 85 41 96 42 110 45 37 66 156 46 156 46 156 47 115 56 156 48 115 56 157 98 41 115 56 158 58 113 55 1146 66 135 43 146 66 135 43	dollars	
All ages	213,195	58.1	21.5	8.5	7.0	3.0	2.0	113	47	
Under 6 years	18,453	85.2	11,9	1.4	1.1	*0.2	*0.2	45	7	
6-16 years	40,896	51.2	28.3	10.0	6.1	2.5	1.9	95	46	
17-24 years	31,588	57.1	23.6	8.8	6.6	2.7	*1.2	90	38	
25-44 years	56,278	52.7	23.9	10.0	8.0	3.4	2.0	110	52	
45-64 years	43,382	55.2	18.9	9.5	9.2	4.1	3.1	146	65	
65 years and over	22,598	68.8	13.8	5.5	6.6	3.0	2.3	144	45	
Under 5 years	15,336	90.0	7.8	*1.1	*0.8	*0.2	*0.2	49	5	
5-14 years	35,728	51.7	29.5	9.4	5.8	2.0	1.6	85	41	
15-24 years	39,873	56.1	23.8	9.0	6.6	3.0	1.4	96	42	
Male										
All ages	102,870	59.4	21.1	8.2	6.7	2.9	1.8	110	45	
Under 6 years	9,485	84.7	13.4	*1.0	*0.7	*0.1	*0.2	37	6	
6-16 years	20,781	51.9	28.2	10.3	5.7	2.4	1.5	87	42	
17-24 years	15,362	58.8	22.3	7.9	6.8	3.0	1.2	95	39	
25-44 years	27,201	54.5	23.3	9.7	7.4	3.2	1.8	107	49	
45-64 years	20,721	57.6	17.4	9.0	9.4	3.8	2.8	146	62	
65 years and over	9,322	69.3	13.2	5.4	6.3	3.4	2.4	156	48	
Under 5 years	7,843	90.5	8.0	*0.8	*0.5	*.	*0.2	42	4	
5-14 years	18,209	52.0	29.9	9.8	5.2	1.8	1.4	79	38	
15-24 years	19,576	57.6	23.0	8.3	6.6	3.3	1.3	98	41	
Female										
All ages	110,324	56.9	21.9	8.7	7.2	3.1	2.1	115	50	
Under 6 years	8,968	85.7	10.4	*1.8	*1.5	*0.4	*0.2	53	8	
6-16 years	20,115	50.5	28.3	9.6	6.6	2.7	2.2	102	50	
17-24 years	16,226	55.5	24.9	9.6	6.5	2.4	1.2	85	38	
25-44 years	29,077	51.1	24.5	10.2	8.5	3.5	2.1	113	55	
45-64 years	22,661	53.0	20.2	9.9	9.0	4.4	3.5	146	69	
85 years and over	13,277	68.5	14.3	5.6	6.8	2.7	2.2	135	43	
Under 5 years	7,494	89.5	7.6	*1.3	*1.1	*0.3	*0.2	55	6	
5-14 years	17,519	51.4	29.1	9.0	6.4	2.3	1.8	92	45	
15-24 years	20,297	54.7	24.7	9.8	6.5	2.7	1.6	95	43	

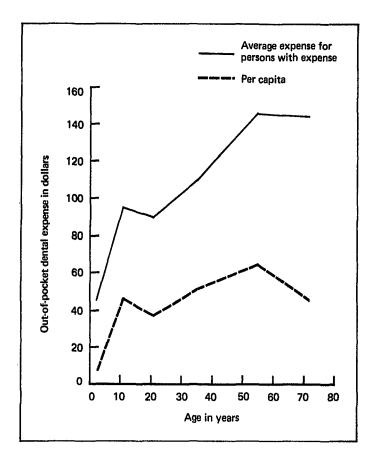


Figure 6. Annual out-of-pocket dental expense per person, per capita expense, and average expense for persons with expense, by age:

United States, 1977

References

¹National Center for Health Statistics: *Health, United States*, 1980, with *Prevention Profile*. DHHS Pub. No. (PHS) 81-1232. Public Health Service. Washington. U.S. Government Printing Office, Dec. 1980. p. 209.

²National Center for Health Statistics: Decayed, missing, and filled teeth among persons 1-74 years, United States, by C. Harvey and J. E. Kelly. *Vital and Health Statistics*. Series 11-No. 223. DHHS Pub. No. (PHS) 81-1673. Public Health Service. Washington. U.S. Government Printing Office, Aug. 1981.

³National Center for Health Statistics: Health Resources Statistics, 1976-77 Edition. DHEW Pub. No. (PHS) 79-1509. Public Health Service. Washington. U.S. Government Printing Office, 1979.

⁴National Center for Health Services Research: National Health Care Expenditures Study. Dental Services: Use, Expenditures and Source of Payment, by Louis F. Rossiter. Data Preview 8. DHHS Pub. No. (PHS) 82-3319. Public Health Service. Washington. U.S. Government Printing Office, 1982.

⁵National Center for Health Statistics: Health Interview Survey Procedure, 1957-1974. Vital and Health Statistics. Series 1-No. 11. DHEW Pub. No. (HRA) 75-1311. Health Resources Administration. Washington. U.S. Government Printing Office, April 1975.

⁶National Center for Health Statistics: Health survey procedure: concepts, questionnaire development, and definitions in the Health Interview Survey. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 1-No. 2. Public Health Service. Washington. U.S. Government Printing Office, May 1964.

⁷U.S. National Health Survey: The statistical design of the health household interview survey. *Health Statistics*. PHS Pub. No. 584-A2. Public Health Service. Washington, D.C., July 1958.

⁸National Center for Health Statistics: Estimation and sampling variance in the Health Interview Survey, by J. A. Bean. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 38. Public Health Service. Washington. U.S. Government Printing Office, June 1970.

⁹National Center for Health Statistics: Quality control and measurement of nonsampling error in the Health Interview Survey, by D. A. Koons. *Vital and Health Statistics*. Series 2-No. 54. DHEW Pub. No. (HSM) 73-1328. Health Services and Mental Health Administration. Washington. U.S. Government Printing Office, March 1973.

10 National Center for Health Statistics: Health Interview responses compared with medical records, by E. Balamuth. Vital and Health Statistics. PHS Pub. No. 1000-Series 2-No. 7. Public Health Service. Washington. U.S. Government Printing Office, July 1965.

¹¹National Center for Health Statistics: Interview data on chronic conditions compared with information derived from medical records, by W. G. Madow. Vital and Health Statistics. PHS Pub. No. 1000-Series 2-No. 23. Public Health Service. Washington. U.S. Government Printing Office, May 1967.

¹²National Center for Health Statistics: Comparison of hospitalization reporting in three survey procedures, by C. F. Cannell and F. J. Fowler, Jr. Vital and Health Statistics. PHS Pub. No. 1000-Series 2-No. 8. Public Health Service. Washington. U.S. Government Printing Office, July 1965.

13 National Center for Health Statistics: The influence of interviewer and respondent psychological and behavioral variables on the reporting in household interviews, by C. F. Cannell, F. J. Fowler, Jr., and K. H. Marquis. Vital and Health Statistics. PHS Pub. No. 1000-Series 2-No. 26. Public Health Service. Washington. U.S. Government Printing Office, March 1968.

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Table 1. Number of persons by time interval since last dental visit and selected characteristics: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	Total			Time interv	al since las	st dental vis	it	
Selected characteristic	population	Less than 6 months	6-11 months	1 year	2-4 years	5 years or more	Never	Unknown
				Number o	f persons i	n thousand	3	
All persons ¹	214,776	76,562	30,852	28,320	27,384	29,130	19,490	3,038
Sex								
Male	103,635	35,438	14,634	13,899	13,692	14,126	10,203	1,643
Female	111,142	41,124	16,218	14,421	13,692	15,005	9,286	1,395
Age								
Under 6 years	18,537	2,915	1,006	579	156	*2	13,768	111 537
3-16 years	40,094 31,867	18,543 11.688	7,339 5,814	5,656 5,621	3,552 4.996	928 2,132	3,538 1,017	537 598
25-44 years	57,784	22,035	9,332	9,425	9,022	6,380	720	869
15-64 years	43,429	15,770	5,464	5,261	6,473	9,547	297	617
35 years and over	23,066	5,610	1,897	1,777	3,186	10,140	149	306
Under 5 years	15,518	1,674	541 6 272	334	67	- · · ·	12,824	78 454
5-14 years	34,947 40,032	16,162 15,311	6,272 7,345	4,666 6,857	2,763 5,873	564 2,499	4,066 1,433	454 714
·	40,002	10,011	7,040	0,007	3,070	2,400	1,400	,,,
Race	400 044	20.004	07.400	60 T40	00 500	04.074	44.050	
White	185,714 29,062	69,904 6,658	27,132 3,720	23,749 4,571	22,569 4,815	24,971 4,160	14,956 4,533	2,434 604
Family income								
ess than \$3,000	9,550	2,276	1,076	1,167	1,424	2,417	1,050	141
3,000-\$4,999	12,892	2,902	1,458	1,588	1,999	3,426	1,396	123
5,000-\$6,999	14,947	3,722	1,704	1,888	2,364	3,436	1,693	139
7,000-\$9,999	19,551	5,119	2,393	2,611	3,174	3,684	2,356	213
10,000-\$14,999	35,466	11,081	4,889	4,969	5,214	4,935	3,988	390
115,000 or more	101,859	44,789	16,732	13,574	10,638	7,876	6,990	1,261
\$15,000-\$24,999	54,740 47,119	21,500 23,289	8,672 8,060	7,668 5,906	6,469 4,169	5,087 2,789	4,772 2,218	572 689
Education of head of family								
.ess than 9 years	36,707	7,385	3,478	4,305	6,067	10,826	4,093	553
7-12 years	105,527	35,796	15,182	14,870	14,447	13,832	9,987	1,412
9-11 years	32,156	9,054	4,042	4,416	4,923	5,790	3,463	468
12 years	73,371	26,742	11,140	10,454	9,524	8,042	6,524	944
3 years or more	68,907	32,472	11,776	8,660	6,436	3,712	5,038	814
13-15 years	32,225	13,447	5,434	4,412	3,649	2,329	2,573	362
16 years or more	36,683	19,026	6,342	4,248	2,787	1,383	2,445	452
Usual activity status								
Preschool (under 6 years)	18,537	2,915	1,006	579	156	*2	13,768	111
School age (6-16 years)	40,094 88,670	18,543 33,472	7,339 13,400	5,656 13.557	3,552 13,597	928 12.125	3,538 1,155	537 1,364
Jaually keeping house (female, 17 years and over)	38,104	12,362	4,882	4,825	5,958	9,335	406	337
Retired (45 years and over)	11,403	2,712	954	971	1,668	4,874	91	133
Retired for health reasons (45 years and over)	3,745	745	294	343	596	1,685	45	37
Retired for other reasons (45 years and over)	7,658	1,967	660	628	1,072	3,189	46	96
Other activities (17 years and over)	17,968	6,558	3,272	2,732	2,454	1,866	531	555
Usually going to school (17 years and over)	12,615	5,326 1,232	2,655 617	2,031 701	1,503 951	506 1 260	316 215	278
	5,353	1,232	617	701	991	1,360	215	277
Place of residence	444.004	-4		40	40.040	48.550	40.000	
All SMSA	146,971	54,635	21,840	19,771	18,218	17,556	12,725	2,226
Nonfarm	61,733 6,072	19,831 2,096	8,156 856	7,802 747	8,360 806	10,532 1,042	6,301 464	751 62
Geographic region	-,	_,_,				-,- · -	•••	-
Northeast	48,042	19,204	7,164	5,920	5,488	6,366	3,238	664
Vorth Central	57,401	20,902	8,825	7,409	6,962	7,948	4,620	735
South	70,043	22,051	8,842	9,325	9,934	10,759	8,023	1,110
Nest	39,289	14,405	6,022	5,666	5,001	4,058	3,608	530

 $^{^{1}}$ includes unknown income and education.

For official population estimates for more general use, see U.S. Bureau of the Census reports on the civilian population of the United States, in <u>Current Population</u> <u>Reports</u>, Series P-20, P-25, and P-60.

NOTES: Relative standard errors of estimates for this table are found in appendix i.

Table 2. Percent distribution of persons by time interval since last dental visit, according to selected characteristics: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	Total		Tim	e interv	al since la	ast dental v	isit	
Selected characteristic	Total population	Less than 6 months	6-11 months	1 year	2-4 years	5 years or more	Never	Unknown
			Per	cent dist	ribution			
All persons 1	100.0	35.6	14.4	13.2	12.8	13.6	9.1	1.4
Sex								
Male	100.0	34.2	14.1	13.4	13.2	13.6	9.8	1.6
Female	100.0	37.0	14.6	13.0	12.3	13.5	8.4	1.3
Age								
Jnder 6 years	100.0	15.7	5.4	3.1	8.0	*0.0	74.3	0.6
3-16 years	100.0	46.2	18.3	14.1	8.9	2.3	8.8	1.3
17-24 years	100.0	36.7	18.2	17.6	15.7	6.7	3.2	1.9
15-44 years	100.0 100.0	38.1 36.3	16.1 12.6	16.3 12.1	15.6 14.9	11.0 22.0	1.2 0.7	1.5 1.4
15-64 years	100.0	24.3	8.2	7.7	13.8	44.0	0.7	1.3
Under 5 years	100.0	10.8	3.5	2.2	0.4		82.6	0.5
5-14 years	100.0	46.2	17.9	13.4	7.9	1.6	11.6	1.3
15-24 years	100.0	38.2	18.3	17.1	14.7	6.2	3.6	1.8
·	100.0	00.2	10.0	.,		0.2	0.0	***
Race	400.0			40.0	40.0	40.4		4.0
White	100.0	37.6	14.6	12.8	12.2	13.4	8.1	1.3
All other	100.0	22.9	12.8	15.7	16.6	14.3	15.6	2.1
Family income								
Less than \$3,000	100.0	23.8	11.3	12.2	14.9	25.3	11.0	1.5
\$3,000-\$4,999	100.0	22.5	11.3	12.3	15.5	26.6	10.8	1.0
\$5,000-\$6,999	100.0	24.9	11.4	12.6	15.8	23.0	11.3	0.9
\$7,000-\$9,999	100.0	26.2	12.2	13.4	16.2	18.8	12.1	1.1
\$10,000-\$14,999	100.0	31.2	13.8	14.0	14.7	13.9	11.2	1.1
\$15,000 or more	100.0	44.0	16.4	13.3	10.4	7.7	6.9	1.2
\$15,000-\$24,999	100.0	39.3	15.8	14.0	11.8	9.3	8.7	1.0
\$25,000 or more	100.0	49.4	7.1	12.5	8.8	5.9	4.7	1.5
Education of head of family								
Less than 9 years	100.0	20.1	9.5	11.7	16.5	29.5	11.2	1.5
9-12 years	100.0	33.9	14.4	14.1	13.7	13.1	9.5	1.3
9-11 years	100.0	28.2	12.6	13.7	15.3	18.0	10.8	1.5
12 years	100.0	36.4	15.2	14.2	13.0	11.0	8.9	1.3
13 years or more	100.0	47.1	17.1	12.6	9.3	5.4	7.3	1.2
13-15 years	100.0	41.7	16.9	13.7	11.3	7.2	8.0	1.1
16 years or more	100.0	51.9	17.3	11.6	7.6	3.8	6.7	1.2
Usual activity status								
Preschool (under 6 years)	100.0	15.7	5.4	3.1	8.0	*0.0	74.3	0.6
School age (6-16 years)	100.0	46.2	18.3	14.1	8.9	2.3	8.8	1.3
Usually working (17 years and over)	100.0	37.7	15.1	15.3	15.3	13.7	1.3	1.5
Usually keeping house (female, 17 years and over)	100.0	32.4	12.8	12.7	15.6	24.5	1.1	0.9
Retired (45 years and over)	100.0	23.8	8.4	8.5	14.6	42.7	0.8	1.2
Retired for health reasons (45 years and over)	100.0	19.9	7.9	9.2	15.9	45.0	1.2	1.0
Retired for other reasons (45 years and over)	100.0	25.7	8.6	8.2	14.0	41.6	0.6	1.3
Other activity (17 years and over)	100.0	36.5	18.2	15.2	13.7	10.4	3.0 2.5	3.1 2.2
Usually going to school (17 years and over)	100.0	42.2 23.0	21.0 11.5	16.1 13.1	11.9 17.8	4.0 25.4	4.0	5.2
Other (17 years and over)	100.0	23.0	11.5	13.1	17.0	25.4	4,0	5.2
Place of residence								
All SMSA	100.0	37.2	14.9	13.5	12.4	11.9	8.7	1.5
Nonfarm	100.0	32.1	13.2	12.6	13.5	17.1	10,2	1.2
Farm	100.0	34.5	14.1	12.3	13.3	17.2	7.6	1.0
Geographic region								
Northeast	100.0	40.0	14.9	12.3	11.4	13.3	6.7	1.4
North Central	100.0	36.4	15.4	12.9	12.1	13.8	8.0	1.3
South	100.0	31.5	12.6	13.3	14.2	15.4	11.5	1.6
West	100.0	36.7	15.3	14.4	12.7	10.3	9.2	1.3

 $[\]mathbf{1}_{\text{Includes}}$ unknown income and education.

Table 3. Average annual number of dental visits and number of dental visits per person per year, by race, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Sex and age	Total	White	All other	Total	White	All other
Both sexes	Ave	rage number of in thousands	visits	P	Number of v	••••
All ages	354,375	322,529	31,845	1.6	1.7	1.1
Under 6 years	10,434	9,004	1,430	0.6	0.6	0.4
	84,024	76,141	7,883	2.1	2.3	1.2
	50.125	45.646	4.479	1.6	1.7	1.0
25-44 years	99,989	90,131	9,858	1.7	1.8	1.3
	79,420	73,433	5,987	1.8	1.9	1.3
85 years and over Under 5 years 5-14 years	30,382	28,174	2,208	1.3	1.4	1.0
	6,129	5,224	906	0.4	0.4	0.3
	70,539	63.543	6,996	2.0	2.2	1.2
15-24 years	67,915	62,024	5,891	1.7	1.8	1.0
Male						
All ages	155,581	141,464	14,117	1.5	1.6	1.0
Under 6 years	4,371	3,688	683	0.5	0.5	0.4
	39,935	35,804	4,131	2.0	2.1	1.2
	20,931	18.985	1 <i>.</i> 947	1.3	1.4	0.9
25-44 years	43,501	39,646	3,854	1.6	1.6	1.2
45-64 years	35,864	33,229	2,634	1.7	1.8	1.2
35 years and over	10,979	10,111	868	1.2	1.2	0.9
	2,519	2,103	*416	0.3	0.3	*0.3
	33.706	30,063	3.643	1.9	2.0	1.2
15-24 years	29,012	26,311	2,701	1.5	1.6	1.0
Female						
All ages	198,793	181,065	17,728	1.8	1.9	1.1
Under 6 years	6,063	5,316	747	0.7	0.7	0.5
	44,089	40.337	3.752	2.2	2.5	1.1
7-24 years	29,194	26,661	2,533	1.8	1.9	1.0
25-44 years	56,488	50,485	6,003	1.9	2.0	1.4
45-64 years	43,556	40,203	3,353	1.9	2.0	1.3
	19,403	18,063	1,340	1.4	1.5	1.1
Under 5 years	3,610	3,121	*489	0.5	0.5	*0.4
	36,833	33,480	3,353	2.1	2.4	1.1
15-24 years	38,903	35,713	3,190	1.9	2.1	1.0

Table 4. Average annual number of dental visits and number of dental visits per person per year, by race, family income, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Family income and age	Total .	White	All other	Total	White	All other
All incomes ¹	Ave	rage number of in thousands	visits		Number of ver person per	
All ages	354,375	322,529	31,845	1.6	1.7	1.1
Under 6 years	10,434	9,004	1,430	0.6	0.6	0.4
3-16 years	84.024	76,141	7.883	2,1	2.3	1.2
7-24 years	50.125	45,646	4,479	1.6	1.7	1.0
25-44 years	99,989	90,131	9.858	1.7	1.8	1.3
15-64 years	79,420	73,433	5,987	1.8	1.9	1.3
35 years and over	30,382	28,174	2,208	1.3	1.4	1.0
Under 5 years	6,129	5,224	906	0.4	0.4	0.3
5-14 years	70,539	63,543	6,996	2.0	2.2	1.2
15-24 years	67.915	62,024	5,891	1.7	1.8	1.0
Less than \$10,000		,	·			
, , , , , , , , , , , , , , , , , , , ,						
All ages	66,004	54,595	11,409	1.2	1.2	0.9
Inder 6 years	2,575	1,929	646	0.5	0.5	0.4
-16 years	12,398	9,294	3,104	1.4	1.6	1.0
7-24 years	13,534	11,681	1,853	1.3	1.5	0.9
5-44 years	13,180	10,518	2,663	1.3	1.3	1.1
5-64 years	11,293	9,326	1,967	1.2	1.2	1.1
5 years and over	13,024	11,848	1,175	1.0	1.0	0.8
Under 5 years	1,455	1,046	*409	0.3	0.3	*0.3
5-14 years	11.097	8,413	2,685	1.4	1.6	1.0
15-24 years	15,954	13,444	2,510	1.4	1.5	0.9
\$10,000 and over						
All ages	258,392	241,738	16,655	1.9	1.9	1.4
Inder 6 years	7,114	6,515	599	0.6	0.6	0.5
3-16 years	65,247	61,042	4,205	2.4	2.5	1.5
7-24 years	33,100	30,977	2,123	1.7	1.8	1.2
75-44 years	79,626	73,608	6,018	1.8	1.9	1.5
5-64 years	60.328	57,114	3,215	2.1	2.1	1.8
35 years and over	12,977	12,482	*495	1.9	1.9	*1.4
Under 5 years	4,212	3,825	*387	0.4	0.4	*0.4
5-14 years	54,406	50,565	3,841	2,3	2.4	1.6
15-24 years	46,843	44,145	2,699	1.9	2.0	1.2

¹Includes unknown income.

Table 5. Average annual number of dental visits, by family income, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix 1. Definitions of terms are given in appendix 11]

Sex and age incomes 1 Less than \$3,000- \$5,000- \$7,000- \$10,000- \$15,000- \$3,000- \$3,000- \$3,000- \$4,999- \$6,999- \$9,999- \$14,999- or more \$24,999 Both sexes Average annual number of visits in thousands				/ income	Family					
All ages . 354,375 10,885 14,408 17,405 23,305 49,593 208,800 99,781 Under 6 years . 10,434 *383 715 629 847 1,507 5,607 3,535 6-16 years . 84,024 1,649 2,634 3,509 4,606 10,510 54,737 25,510 17-24 years . 50,125 3,610 2,326 3,561 4,037 7,622 25,478 11,737 25-44 years . 99,989 1,825 2,886 3,501 4,988 14,787 64,838 33,619 45-64 years . 79,420 1,702 1,910 2,992 4,689 10,428 49,900 21,300 65 years and over . 30,382 1,716 3,938 3,212 4,157 4,738 8,239 4,081 Under 5 years . 6,129 *270 *385 *325 *475 946 3,266 1,820 5-14 years . 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years . 67,915 3,887 2,866 4,245 4,956 9,372 37,472 16,472 Male Male Male Male All ages . 155,581 3,831 5,467 6,220 9,348 20,188 98,294 45,387 Under 6 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years . 31,946 1,588 3,213 10,985 4,695 15,144 years . 31,949 11	\$25,000 or more								All incomes ¹	Sex and age
Under 6 years 10,434 *383 715 629 847 1,507 5,607 3,535 6-16 years 84,024 1,649 2,634 3,509 4,606 10,510 54,737 25,510 17-24 years 50,125 3,610 2,326 3,561 4,037 7,622 25,478 11,737 25,44 years 99,989 1,825 2,886 3,501 4,968 14,787 64,838 33,619 4,546 years 79,420 1,702 1,910 2,992 4,689 10,428 49,900 21,300 65 years and over 30,382 1,716 3,938 3,212 4,157 4,738 8,239 4,081 Under 5 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 1			sands	isits in thous	umber of vi	ge annual n	Avera			Both sexes
84,024 1,649 2,634 3,509 4,606 10,510 54,737 25,510 17-24 years 50,125 3,610 2,326 3,561 4,037 7,622 25,478 11,737 25,510 17-24 years 50,125 3,610 2,326 3,561 4,037 7,622 25,478 11,737 45-64 years 99,989 1,825 2,886 3,501 4,968 14,787 64,838 33,619 45-64 years 79,420 1,702 1,910 2,992 4,689 10,428 49,900 21,300 65 years and over 30,382 1,716 3,938 3,212 4,157 4,738 8,239 4,081 Under 5 years 6,129 *270 *385 *325 *475 946 3,266 1,820 5-14 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 67,915 3,887 2,866 4,245 4,956 9,372 37,472 16,472	109,019	99,781	208,800	49,593	23,305	17,405	14,408	10,885	354,375	All ages
6-16 years	2.072	3,535	5,607	1,507	847	629	715	*383	10,434	Under 6 years
17-24 years 50,125 3,610 2,326 3,561 4,037 7,622 25,478 11,737 25-44 years 99,989 1,825 2,886 3,501 4,968 14,787 64,838 33,619 45-64 years 79,420 1,702 1,910 2,992 4,689 10,428 49,900 21,300 65 years and over 30,382 1,716 3,938 3,212 4,157 4,738 8,239 4,081 Under 5 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 67,915 3,887 2,866 4,245 4,956 9,372 37,472 16,472 Male All ages 155,581 3,831 5,467 6,220 9,348 20,188 98,294 45,387 Under 6 years 4,371 *191 *383 *212 *244 *443 2,534 1,578 6-16 years 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years 20,931 1,133 958 1,446 1,568 3,213 10,985 4,695 12-44 years 43,501 711 1,000 997 2,183 5,920 29,726 15,314 45-64 years 35,864 554 *498 956 1,418 3,723 25,436 10,055 65 years and over 10,979 *544 1,297 1,102 1,642 1,723 3,478 1,588 Under 6 years 2,519 *145 *174 *93 *123 *321 1,492 810 5-14 years 29,012 1,158 1,163 1,770 2,058 3,915 16,713 6,887 Female All ages 198,793 7,054 8,941 11,185 13,957 29,405 110,505 54,394	29,227	25.510	54,737	10.510	4.606	3,509	2,634	1,649	84.024	
25-44 years 99,989 1,825 2,886 3,501 4,968 14,787 64,838 33,619 45-64 years 79,420 1,702 1,910 2,992 4,689 10,428 49,900 21,300 65 years and over 30,382 1,716 3,938 3,212 4,157 4,738 8,239 4,081 Under 5 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 70,539 1,485 2,423 3,130 4,059 9,372 37,472 16,472 84 84 84 84 84 84 84 84 84 84 84 84 84	13,741	11.737	25,478	7,622	4,037	3,561	2,326	3,610	50,125	
45-64 years 79,420 1,702 1,910 2,992 4,689 10,428 49,900 21,300 65 years and over 30,382 1,716 3,938 3,212 4,157 4,738 8,239 4,081 Under 5 years 61,29 *270 *385 *325 *475 946 3,266 1,820 5-14 years 70,559 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 67,915 3,887 2,866 4,245 4,956 9,372 37,472 16,472	31,220	33,619	64,838	14,787	4.968	3,501	2,886	1.825	99,989	
66 years and over 30,382 1,716 3,938 3,212 4,157 4,738 8,239 4,081 Under 5 years 6,129 *270 *385 *325 *475 946 3,266 1,820 5-14 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 67,915 3,887 2,866 4,245 4,956 9,372 37,472 16,472	28,600	21,300	49,900	10,428	4,689	2,992	1,910	1,702	79,420	
Under 5 years 6,129 *270 *385 *325 *475 946 3,266 1,820 5-14 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 67,915 3,887 2,866 4,245 4,956 9,372 37,472 16,472 Male All ages 155,581 3,831 5,467 6,220 9,348 20,188 98,294 45,387 Under 6 years 4,371 *191 *383 *212 *244 *443 2,534 1,578 6-16 years 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years 20,931 1,133 958 1,446 1,568 3,213 10,985 4,695 25-44 years 35,864 554 *498 956 1,418 3,723 25,436 10,055 65 years and over 10,979 *544 1,297 1,102 1,642 1,723 3,478 1,588 Under 5 years 25,149 10,979 *544 1,297 1,102 1,642 1,723 3,478 1,588 Under 5 years 33,706 719 1,335 1,301 1,925 4,585 21,449 10,733 15-24 years 29,012 1,158 1,163 1,770 2,058 3,915 16,713 6,887 Female All ages 198,793 7,054 8,941 11,185 13,957 29,405 110,505 54,394	4,158	4.081	8,239	4,738	4,157	3.212	3,938	1,716	30,382	
5-14 years 70,539 1,485 2,423 3,130 4,059 9,322 45,084 22,490 15-24 years 67,915 3,887 2,866 4,245 4,956 9,372 37,472 16,472 Male Male All ages 155,581 3,831 5,467 6,220 9,348 20,188 98,294 45,387 Under 6 years 4,371 *191 *383 *212 *244 *443 2,534 1,578 6-16 years 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years 20,931 1,133 958 1,446 1,568 3,213 10,985 4,695 25-44 years 43,501 711 1,000 997 2,183 5,920 29,726 15,314 45-64 years 35,864 554 *498 956 1,418 3,723 25,436 10,055 65 years and over 10,979 *544 1,297 1,102 1,642 1,723 3,478	1,446									
15-24 years	22,594			9.322	4.059	3.130	2,423	1.485	70.539	
All ages	21,000							3,887		
Under 6 years 4,371 *191 *383 *212 *244 *443 2,534 1,578 6-16 years 39,935 697 1,331 1,505 2,295 5,166 26,135 12,157 17-24 years 20,931 1,133 958 1,446 1,568 3,213 10,985 4,695 25-44 years 43,501 711 1,000 997 2,183 5,920 29,726 15,314 45-64 years 35,864 554 *498 956 1,418 3,723 25,436 10,055 65 years and over 10,979 *544 1,297 1,102 1,642 1,723 3,478 1,588 Under 6 years 2,519 *145 *174 *93 *123 *321 1,492 810 5-14 years 33,706 719 1,335 1,301 1,925 4,585 21,449 10,733 15-24 years 29,012 1,158 1,163 1,770 2,058 3,915 16,713 6,887										Male
6-16 years	52,907	45,387	98,294	20,188	9,348	6,220	5,467	3,831	155,581	All ages
17-24 years 20,931 1,133 958 1,446 1,568 3,213 10,985 4,695 25-44 years 43,501 711 1,000 997 2,183 5,920 29,726 15,314 45-64 years 35,864 554 *498 956 1,418 3,723 25,436 10,055 65 years and over 10,979 *544 1,297 1,102 1,642 1,723 3,478 1,588 Under 5 years 2,519 *145 *174 *93 *123 *321 1,492 810 5-14 years 33,706 719 1,335 1,301 1,925 4,585 21,449 10,733 15-24 years 29,012 1,158 1,163 1,770 2,058 3,915 16,713 6,887 Female All ages 198,793 7,054 8,941 11,185 13,957 29,405 110,505 54,394	956	1.578	2.534	*443	*244	*212	*383	*191	4,371	Under 6 years
17-24 years 20,931 1,133 958 1,446 1,568 3,213 10,985 4,695 25-44 years 43,501 711 1,000 997 2,183 5,920 29,726 15,314 45-64 years 35,864 554 *498 956 1,418 3,723 25,436 10,055 65 years and over 10,979 *544 1,297 1,102 1,642 1,723 3,478 1,588 Under 5 years 2,519 *145 *174 *93 *123 *321 1,492 810 5-14 years 33,706 719 1,335 1,301 1,925 4,585 21,449 10,733 15-24 years 29,012 1,158 1,163 1,770 2,058 3,915 16,713 6,887 Female All ages 198,793 7,054 8,941 11,185 13,957 29,405 110,505 54,394	13,978	•		5,166	2,295	1,505	1,331	697	39,935	
25-44 years 43,501 711 1,000 997 2,183 5,920 29,726 15,314 45-64 years 35,864 554 *498 956 1,418 3,723 25,436 10,055 65 years and over 10,979 *544 1,297 1,102 1,642 1,723 3,478 1,588 Under 5 years 2,519 *145 *174 *93 *123 *321 1,492 810 5-14 years 33,706 719 1,335 1,301 1,925 4,585 21,449 10,733 15-24 years 29,012 1,158 1,163 1,770 2,058 3,915 16,713 6,887 Female All ages 198,793 7,054 8,941 11,185 13,957 29,405 110,505 54,394	6,291	4.695	10,985	3.213	1,568	1,446	958	1,133	20,931	
45-64 years	14,411				2.183	997	1,000	711		
65 years and over	15,381			3.723		956	*498	554		45-64 years
Under 5 years 2,519 *145 *174 *93 *123 *321 1,492 810 5-14 years 33,706 719 1,335 1,301 1,925 4,585 21,449 10,733 15-24 years 29,012 1,158 1,163 1,770 2,058 3,915 16,713 6,887 Female 198,793 7,054 8,941 11,185 13,957 29,405 110,505 54,394	1,891			1.723	1.642	1.102	1.297	*544	10.979	
5-14 years	682			*321	*123	*93	*174	*145	2.519	Under 5 years
15-24 years	10,716	10.733		4.585	1,925	1,301	1.335	719	33,706	
All ages	9,826				2,058		1,163	1,158		
· · · · · · · · · · · · · · · · · · ·										Female
Under 6 years	56,111	54,394	110,505	29,405	13,957	11,185	8,941	7,054	198,793	All ages ,
	1,116	1.956	3.073	1,065	604	*417	*332	*192	6,063	Under 6 years
6-16 years	15,249					2.003		952		
17-24 years 29,194 2,476 1,368 2,115 2,470 4,409 14,492 7,042	7.450				•					
25-44 years 56,488 1,114 1,886 2,504 2,786 8,867 35,113 18,304	16.808									25-44 years
45-64 years	13,219									45-64 vears
65 years and over	2,268		,							
Under 5 years	764	•								
5-14 years	11.877									
15-24 years	11,174									

¹Includes unknown income.

Table 6. Number of dental visits per person per year, by family income, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix i. Definitions of terms are given in appendix ii]

	All				Famil	y income			
Sex and age	incomes 1	Less than \$3,000	\$3,000- \$4,999	\$5,000- \$6,999	\$7,000- \$9,999	\$10,000- \$14,999	\$15,000 or more	\$15,000- \$24,999	\$25,000 or more
Both sexes				lumber of v	isits per pe	rson per yea	r		
All ages	1.6	1.1	1.1	1.2	1.2	1.4	2.0	1.8	2.3
Under 6 years	0.6	*0.4	0.6	0.5	0.5	0.4	0.7	0.7	0.7
B-16 years	2.1	1.3	1.4	1.5	1.4	1.6	2,6	2.3	3.0
17-24 years	1.6	1.5	1.2	1.5	1.2	1.5	1.9	1.7	2.0
25-44 years	1.7	1.3	1.5	1.3	1.2	1.4	2.0	1.8	2.1
15-64 years	1.8	1.2	1.0	1.2	1.3	1.6	2.2	2.0	2.5
35 years and over	1.3	0.8	1.0	0.9	1.3	1.6	2.1	1.9	2.5
Under 5 years	0.4	*0.4	*0.4	*0.3	*0.3	0.3	0.5	0.4	0.6
5-14 years	2.0	1.4	1.4	1.5	1.4	1.6	2.5	2.2	2.9
15-24 years	1.7	1.5	1.2	1.5	1.3	1.5	2.1	1.8	2.3
Male									
All ages	1.5	1.0	1.0	0.9	1.0	1.2	1.9	1.6	2.2
Jnder 6 years	0.5	*0.5	*0.6	*0.3	#0.0				
1-16 years	2.0	1.1	1.3		*0.3	*0.2	0.6	0.6	0.7
7-24 years	1.3	1.1	1.1	1.3 1.3	1.4 1.0	1.6 1.3	2.4	2.1	2.8
5-44 years	1.6	1.3	1.3	0.9	1.1	1.2	1.6 1.8	1.4	1.7
5-64 years	1.7	1.1	*0.8	1.0				1.6	2.0
5 years and over	1.2	*1.0	1.0	0.7	1.0	1.2	2.1	1.8	2.4
I Index 5 was					1.1	1.2	1.9	1.6	2.4
Under 5 years	0.3	*0.4	*0.3	*0.2	*0.2	*0.2	0.4	0.4	0.6
5-14 years	1.9	1.4	1.4	1.2	1.3	1.5	2.3	2.1	2.7
15-24 years	1.5	1.0	1.1	1.3	1.1	1.2	1.8	1.6	2.0
Female									
All ages	1.8	1.2	1.2	1.3	1.3	1.6	2.2	2.0	2.5
Inder 6 years	0.7	*0.4	*0.6	*0.6	0.7	0.6	0.8	0.8	0.8
I-16 years	2.2	1.6	1.4	1.7	1.4	1.7	2.8	2.4	3.2
7-24 years	1.8	1.8	1.3	1.6	1.4	1.6	2.1	2.0	2,3
5-44 years	1.9	1.4	1.5	1.6	1.2	1.7	2.1	2.0	2.3
5-64 years	1.9	1.2	1.1	1.3	1.6	1.9	2.4	2.2	2.5
35 years and over	1.4	0.7	1.0	1.1	1.5	2.0	2.3	2.2	2.5
Under 5 years	0.5	*0.3	*0.4	*0.4	*0.5	0.4	2.3 0.6	2.1 0.5	0.7
5-14 years	2.1	1.5	1.3	1.7	1.4	1.6			
15-24 years	1.9	1.8	1.4	1.6	1.4	1.6	2.7 2.3	2.4	3.1
	110	1.0	1.7	1.0	I 1º9	1.0	2.3	2.1	2.6

¹Includes unknown income.

Table 7. Average annual number of dental visits, by education of head of family, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix 1. Definitions of terms are given in appendix [1]

	All			Education	on of head o	f family		
Sex and age	educational groups 1	Less than 9 years	9-12 years	9-11 years	12 years	13 years or more	13-15 years	16 years or more
Both sexes			Average nu	umber of v	isits in thou	sands		
All ages	354,375	35,95 9	158,804	42,571	116,233	155,164	64,409	90,755
Under 6 years	10,434	783	4,932	1,229	3,703	4,569	1,872	2,696
I-16 years	84,024	7,456	40,324	10,690	29,634	35,376	13,974	21,401
7-24 years	50,125	3,856	25,697	6,650	19,047	20,124	10,922	9,202
15-44 years	99,989	6,002	40,763	9,802	30,961	52,445	21,369	31,076
5-64 years	79,420	9,794	35,332	9,708	25,624	32,813	12,205	20,609
5 years and over	30,382	8,068	11,757	4,493	7,264	9,838	4,067	5,771
Under 5 years	6,129	*356	2,791	707	2.085	2,904	1,206	1.698
5-14 years	70,539	5,807	34,022	8,982	25,041	29,973	12,046	17,926
15-24 years	67,915	5,932	34,139	8,880	25,259	27,191	13,516	13,675
Male								
All ages	155,581	13,867	68,325	18,453	49,872	71,920	28,274	43,646
Jnder 6 years	4,371	*243	2,089	598	1,491	1,935	699	1,235
i-16 years	39,935	3,451	19,088	5,305	13,783	16,986	6,227	10,759
7-24 years	20,931	1,390	10,916	2,641	8,275	8,510	4,296	4,214
5-44 years	43,501	1,865	16,883	4,072	12,811	24,492	9,435	15,057
5-64 years	35,864	4,154	15,395	4,153	11,242	15,911	5,772	10,139
5 years and over	10,979	2,765	3,953	1,683	2,270	4,085	1,844	2,241
Under 5 years	2,519	*49	1,077	*336	741	1,315	*485	830
5-14 years	33,706	2,723	16,539	4,665	11,874	14,055	5,112	8,944
15-24 years	29,012	2,311	14,478	3,543	10,935	12,061	5,626	6,435
Female								
Aliages	198,793	22,092	90,479	24,118	66,361	83,244	36,135	47,109
Jnder 6 years	6,063	*540	2,843	631	2,212	2,634	1.173	1,461
I-16 years	44,089	4.005	21,235	5,384	15.851	18,390	7,747	10.642
7-24 years	29,194	2,466	14,780	4,008	10,772	11,613	6,626	4,987
15-44 years	56,488	4,138	23,880	5,729	18,151	27.953	11,934	16.018
5-64 years	43,556	5,639	19,937	5,555	14,383	16,902	6.432	10,470
5 years and over	19,403	5,304	7.804	2,810	4,993	5,752	2,223	3,530
Under 5 years	3,610	*307	1,714	*370	1,344	1.589	721	868
5-14 years	36,833	3,083	17,483	4,317	13,167	15,918	6,935	8,983
15-24 years	38.903	3.621	19,661	5.337	14,324	15,130	7.891	7,240

¹Includes unknown education.

Table 8. Number of dental visits per person per year, by education of head of family, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All			Education	on of hea	d of family		
Sex and age	educational groups ¹	Less than 9 years	9-12 years	9-11 years	12 years	13 years or more	13-15 years	16 years or more
Both sexes		Nu	mber of v	visits per	person p	er year		
All ages	1.6	1.0	1.5	1.3	1.6	2.3	2.0	2.5
Under 6 years	0.6	0.4	0.5	0.4	0.5	0.7	0.6	0.8
6-16 years	2.1	1.2	1.9	1.6	2.0	2.9	2.5	3.2
17-24 years	1.6	1.0	1.5	1.3	1.6	2.0	1.8	2.2
25-44 years	1.7	1.1	1.5	1.4	1.5	2.2	2.0	2.3
15-64 years	1.8	1.0	1.7	1.4	1.8	2.8	2.4	3.1
35 years and over	1.3	0.8	1.4	1.3	1.4	2.3	2.0	2.6
Under 5 years	0.4	*0.2	0.3	0.3	0.4	0.5	0.5	0.6
5-14 years	2.0	1.2	1.9	1.6	2.0	2.7	2.4	3.0
15-24 years	1.7	1.1	1.6	1.4	1.7	2.2	1.9	2.6
Male								
All ages	1.5	0.8	1.4	1.2	1.4	2.1	1.8	2.4
Jnder 6 years	0.5	*0.2	0.4	0.4	0.4	0.6	0.4	0.7
3-16 years	2.0	1.1	1.8	1.6	1.9	2.7	2.2	3.2
7-24 years	1.3	0.7	1.3	1.0	1.4	1.8	1.5	2.2
25-44 years	1.6	0.7	1.3	1.3	1.3	2.0	1.8	2.2
15-64 years	1.7	1.0	1.5	1.3	1.7	2.7	2.3	3.0
5 years and over	1.2	0.7	1.2	1.2	1.2	2.4	2.4	2.4
Under 5 years	0.3	*0.1	0.3	*0.3	0.3	0.5	*0.4	0.6
5-14 years	1.9	1.1	1.8	1.6	1.8	2.5	2.0	2.9
15-24 years	1.5	0.8	1.4	1.1	1.5	2.0	1.7	2.5
Female								
All ages	1.8	1.1	1.6	1.4	1.7	2.4	2.2	2.6
Inder 6 years	0.7	*0.5	0.6	0.4	0.7	0.8	0.8	0.9
6-16 years	2.2	1.3	2.1	1.7	2.2	3.0	2.7	3.3
7-24 years	1.8	1.3	1.6	1.5	1.7	2.2	2.2	2.3
5-44 years	1.9	1.4	1.7	1.5	1.7	2.3	2.3	2.3
5-64 years	1.9	1.1	1.8	1.5	1.9	2.9	2.5	3.3
55 years and over	1.4	1.0	1.5	1.3	1.6	2.3	1.8	2.7
Under 5 years	0.5	*0.4	0.4	*0.3	0.5	0.6	0.6	0.6
5-14 years	2.1	1.2	2.0	1.6	2.1	2.9	2.7	3.1
15-24 years	1.9	1.4	1.8	1.6	1.8	2.4	2.2	2.6

¹Includes unknown education.

NOTE: Relative standard errors of estimates for this table are found in appendix ${\bf I}_{\bullet}$

Table 9. Average annual number of dental visits, by education of head of family, family income, and age: United States, 1978 and 1979 [Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	All			Education	on of head o	f family		
Family income and age	educational groups ¹	Less than 9 years	9-12 years	9-11 years	12 years	13 years or more	13-15 years	16 years or more
All incomes ²			Average no	umber of v	isits in thou	sands		
All ages	354,375	35,959	158,804	42,571	116,233	155,164	64,409	90,755
Under 6 years	10,434	783	4,932	1,229	3,703	4,569	1,872	2,696
B-16 years	84,024	7,456	40,324	10,690	29,634	35,376	13,974	21,401
17-24 years	50,125	3,856	25,697	6,650	19,047	20,124	10,922	9,202
25-44 years	99,989	6,002	40,763	9,802	30,961	52,445	21,369	31,076
15-64 years	79,420	9.794	35,332	9.708	25,624	32,813	12.205	20,609
35 years and over	30,382	8.068	11.757	4,493	7.264	9.838	4.067	5.771
Under 5 years	6,129	*356	2,791	707	2,085	2,904	1,206	1,698
5-14 years	70,539	5,807	34,022	8,982	25,041	29,973	12.046	17,926
15-24 years	67,915	5,932	34,139	8,880	25,259	27,191	13,516	13,675
Less than \$10,000								
All ages	66,004	14,886	35,073	14,051	21,021	14,852	9,589	5,263
Jnder 6 years	2,575	*439	1,845	730	1,116	*290	*100	*191
3-16 years	12,398	3,599	7,119	3,383	3.736	1,463	977	*486
17-24 years	13,534	1,305	7,178	2,548	4,631	4,988	3,987	1.001
25-44 years	13,180	1.885	7,176	2,569	4,607	4.025	2.271	1.754
15-64 years	11,293	2,715	6,450	2,580	3,869	1,647	1.051	596
35 years and over	13,024	4.943	5,304	2,241	3,062	2,439	1,203	1,235
Under 5 years	1,455	*113	1,174	*397	777	*168	*49	*119
5-14 years	11,097	2,879	6,695	3,206	3,489	1,397	893	*504
15-24 years	15,954	2,350	8,273	3,056	5,217	5,176	4,122	1,054
\$10,000 or more								
All ages	258,392	16,611	110,077	24,619	85,458	130,060	50,382	79,678
Under 6 years	7,114	*273	2,657	*358	2,298	4,112	1,653	2,458
3-16 years	65,247	3,251	30,131	6,422	23,709	31,374	11,941	19,433
17-24 years	33,100	2,051	16,838	3,603	13,236	14,101	6,350	7.751
25-44 years	79,626	3,340	29,899	6,174	23,725	46,081	18,162	27,919
45-64 years	60,328	5,848	25,622	6,404	19,217	28,267	9,861	18,406
35 years and over	12,977	1.848	4,930	1,656	3,274	6.125	2,414	3,711
Under 5 years	4,212	*194	1,377	*218	1,159	2,592	1,060	1.531
5-14 years	54,406	2,482	24,878	5,024	19,855	26,598		16,283
	46.843	2,482 2.899	24,878		18,229		10,316	
15-24 years	40,043	∡,ರಶ್	23,371	5,142	10,229	20,396	8,569	11,828

¹ includes unknown education. 2 includes unknown income.

Table 10. Number of dental visits per person per year, by education of head of family, family income, and age: United States, 1978 and 1979 [Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix 1. Definitions of terms are given in appendix 11]

	All			Education	on of hea	d of family		
Family income and age	educational groups ¹	Less than 9 years	9-12 years	9-11 years	12 years	13 years or more	13-15 years	16 years or more
All incomes ²		Nu	mber of	visits per	person p	er year		
All ages	1.6	1.0	1.5	1.3	1.6	2.3	2.0	2.5
Under 6 years	0.6	0.4	0.5	0.4	0.5	0.7	0.6	0.8
6-16 vears	2.1	1.2	1.9	1.6	2.0	2.9	2.5	3.2
17-24 years	1.6	1.0	1.5	1.3	1.6	2.0	1.8	2.2
25-44 years	1.7	1.1	1.5	1.4	1.5	2.2	2.0	2.3
45-64 years	1.8	1.0	1.7	1.4	1.8	2.8	2.4	3.1
85 years and over	1.3	0.8	1.4	1.3	1.4	2.3	2.0	2.6
Under 5 years	0.4	*0.2	0.3	0.3	0.4	0.5	0.5	0.6
5-14 years	2.0	1.2	1.9	1.6	2.0	2.7	2.4	3.0
15-24 years	1.7	1.1	1.6	1.4	1.7	2.2	1.9	2.6
Less than \$10,000								
All ages	1.2	0.8	1.2	1.2	1.3	1.6	1.5	1.7
Under 6 years	0.5	*0.4	0.6	0.5	0.6	*0.4	*0.2	*1.0
8-16 years	1.4	1.3	1.4	1.5	1.4	1.5	1.3	*2.2
17-24 years	1.3	0.9	1.3	1.3	1.3	1.7	1.7	1.4
25-44 years	1.3	0.9	1.3	1.2	1.3	1.6	1.6	1.6
45-64 years	1.2	0.7	1.5	1.3	1.6	1.9	1.9	1.8
85 years and over	1.0	0.7	1.2	1.0	1.3	1.8	1.5	2.4
Under 5 years	0.3	*0.1	0.4	*0.3	0.5	*0.3	*0.1	*0.7
5-14 years	1.4	1.2	1.5	1.5	1.4	1.5	1.3	*2.5
15-24 years	1.4	1.1	1.3	1.3	1.3	1.6	1.7	1.4
\$10,000 or more								
All ages	1.9	1.2	1.6	1.4	1.7	2.4	2.1	2.6
Under 6 years	0.6	*0.4	0.5	*0.3	0.5	0.8	0.7	8.0
8-16 years	2.4	1.3	2.1	1.8	2.2	3.0	2.6	3.3
17-24 years	1.7	1.1	1.6	1.3	1.7	2.2	1.9	2.4
25-44 years	1.8	1.2	1.5	1.4	1.5	2.3	2.1	2.3
45-64 years	2.1	1.4	1.8	1.5	1.9	2.9	2.4	3.2
B5 years and over	1.9	1.2	1.7	1.7	1.7	2.6	2.6	2.6
Under 5 years	0.4	*0.3	0.3	*0.2	0.3	0.6	0.5	0.6
5-14 years	2.3	1.2	2.0	1.7	2.1	2.8	2.5	3.0
15-24 years	1.9	1.1	1.7	1.5	1.8	2.4	2.1	2.8

¹ Includes unknown education.
2 Includes unknown income.

Table 11. Average annual number of dental visits and number of dental visits per person per year, by sex, usual activity status, and age:
United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix 1. Definitions of terms are given in appendix !!]

Usual activity status and age	Both sexes	Male	Female	Both sexes	Male	Female
All activities	Average num	ber of visits in	thousands	Number of vis	its per perso	on per year
All ages	354,375	155,581	198,793	1.6	1.5	1.8
Under 6 years	10.434	4,371	6.063	0.6	0.5	0.7
6-16 years	84.024	39.935	44,089	2.1	2.0	2.2
17-24 years	50,125	20,931	29,194	1.6	1.3	1.8
25-44 years	99.989	43,501	56,488	1.7	1.6	1.9
45-64 years	79,420	35,864	43,556	1.8	1.7	1.9
65 years and over	30.382	10,979	19,403	1.3	1.2	1.4
Under 5 years	6,129	2,519	3,610	0.4	0.3	0.5
		•	• .	2.0	1.9	2.1
5-14 years	70,539	33,706	36,833		1.5	
15-24 years	67,915	29,012	38,903	1.7	1.5	1.9
Preschool (under 6 years)	10,434	4,371	6,063	0.6	0.5	0.7
School age (6-16 years)	84,024	39,935	44,089	2.1	2.0	2.2
Usually working (17 years and over)	152,754	84.523	68,231	1,7	1.6	1.9
17-24 years	23,421	10,307	13,115	1.5	1.2	1.8
25-44 years	72,980	40,784	32,196	1,7	1.6	1.9
45-64 years	51,845	30,701	21,144	1.9	1.8	2.0
65 years and over	4,508	2,731	1,777	1.7	1.6	1.9
Usually keeping house (female, 17 years and over)	62.783		62.783	1.6		1.6
17-24 years	4,055		4,055	1,2	• • •	1.2
25-44 years	22.370		22,370	1.8		1.8
45-64 years	20,673		20,673	1.8		1.8
65 years and over	15,685	• • •	15,686	1.4	•••	1.4
OD years and over	•	• • • •	•			
Retired (45 years and over)	14,170	11,934	2,236	1,2	1.2	1.8
45-64 years	4,789	3,953	837	1.6	1.5	2.6
65 years and over	9,381	7,982	1,400	1.1	1.1	1.6
Retired for health reasons (45 years and over)	4,112	3,302	810	1.1	1.0	1.9
45-64 years	2,649	2,145	*504	1.5	1.3	*2.7
65 years and over	1,463	1,157	*306	0.8	0.7	*1.3
Retired for other reasons (45 years and over)	10,058	8,633	1,426	1.3	1.3	1.8
45-64 years	2,140	1,808	*332	1.8	1.7	*2.6
65 years and over	7,918	6,825	1,093	1.2	1.2	1.6
Other activity (17 years and over)	30,208	14,818	15,390	1.7	1.5	1.9
17-24 years	22,649	10.624	12.024	1.8	1.6	2.1
25-44 years	4,639	2.717	1,923	1.6	1.4	2.0
45-64 years	2.113	1,210	903	1.4	1.2	1.9
65 years and over	808	*267	*541	0.7	*0.8	*0.7
Usually going to school (17 years and over)	24,212	11,494	12,718	1.9	1.8	2.1
17-24 years	21,157	9.812	11,345	1.9	1.7	2.1
	• • •	• •				
25-44 years	2,586	1,479	1,107	2.1	2.3	1.9
45-64 years	*345	*128	*216	*1.9	*1.8	*2.0
65 years and over	*124	*74	*50	*1.6	*2.2	*1.2
Other (17 years and over)	5,996	3,324	2,672	1.1	1.0	1.4
17-24 years	1,491	812	679	1.1	0.9	1.5
25-44 years	2,053	1,237	816	1.2	0.9	2.2
45-64 years	1,768	1,082	687	1.3	1.1	1.8
65 years and over	684	*193	*491	0.7	*0.6	*0.7

Table 12. Average annual number of dental visits and number of dental visits per person per year, by place of residence, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix i. Definitions of terms are given in appendix ii]

	All	All	Outside .	SMSA	All	All	Outside :	SMSA
Sex and age	areas	SMSA	Nonfarm	Farm	areas	SMSA	Nonfarm	Farm
Both sexes	Average	number of	visits in thou	isands	Numbe	er of visits	per person	per year
All ages	354,375	264,351	82,859	7,165	1.6	1.8	1.3	1.2
Under 6 years	10,434	7,598	2,679	*158	0.6	0.6	0.5	*0.4
6-16 years	84,024	60,095	21,709	2,220	2.1	2.2	1.8	1.9
17-24 years	50,125	36,363	12,894	868	1.6	1.6	1.4	1.1
25-44 years	99,989	76,470	21,768	1,751	1.7	1.9	1.4	1.3
45-64 years	79,420	61,271	16,486	1,662	1.8	2.0	1.4	1.1
65 years and over	30,382	22,554	7,322	*506	1.3	1.5	1.0	*0.6
Under 5 years	6,129	4,201	1,814	*114	0.4	0.4	0.4	*0.3
5-14 years	70,53 9	50,682	18,204	1,654	2.0	2.2	1.7	1.7
15-24 years	67,915	49,173	17,265	1,477	1.7	1.8	1.5	1.4
Male								
All ages	155,581	116,815	35,558	3,208	1.5	1.7	1.2	1.0
Under 6 years	4,371	3,174	1,132	*66	0.5	0.5	0.4	*0.3
6-16 years	39,935	28,471	10,463	1,001	2.0	2.1	1.7	1.6
17-24 years	20,931	15,171	5,393	*367	1.3	1.4	1.2	*0.8
25-44 years	43,501	33,524	9,291	686	1.6	1.7	1.2	1.0
45-64 years	35,864	28,226	6.858	779	1.7	2.0	1.2	1.0
65 years and over	10,979	8,249	2,422	*309	1.2	1.4	0.8	*0.8
Under 5 years	2,519	1,745	731	*43	0.3	0.3	0.3	*0.2
5-14 years	33,706	24,273	8,739	695	1.9	2.0	1.6	1.4
15-24 years	29,012	20,798	7,517	697	1.5	1.6	1.3	1.2
Female								
All ages	198,793	147,535	47,301	3,957	1.8	1.9	1.5	1.4
Under 6 years	6,063	4,424	1.547	*92	0.7	0.7	0.6	*0.5
6-16 years	44,089	31,624	11,246	1,219	2.2	2.4	1.9	2.1
17-24 years	29,194	21,191	7,501	*501	1.8	1.8	1.7	*1.6
25-44 years	56,488	42.946	12,477	1,066	1.9	2.0	1.5	1.6
45-64 years	43,556	33.045	9.629	883	1.9	2.1	1.5	1.1
65 years and over	19,403	14,306	4,900	*197	1.4	1.6	1.1	*0.5
Under 5 years	3,610	2,455	1,083	*72	0.5	0.5	0.5	*0.5
5-14 years	36,833	26,409	9,465	959	2.1	2.3	1.8	2.1
15-24 years	38,903	28,375	9,747	781	1.9	2.0	1.7	1.7

Table 13. Average annual number of dental visits, by geographic region, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Sex and age	All regions	Northeast	North Central	South	West
Both sexes	Average number of visits in thousands				
All ages	354,375	94,371	92,393	96,652	70,959
Under 6 years	10,434	2,317	2.703	3,114	2,301
6-16 years	84,024	21,672	22,764	21,810	17.778
17-24 years	50,125	13,493	13,734	13,431	9,468
25-44 years	99,989	25,591	26,474	26,887	21,038
45-64 years	79,420	22,753	19,704	22.345	14,618
65 years and over	30,382	8,545	7,015	9,066	5,757
Under 5 years	6,129	1,146	1,552	1.998	1.433
5-14 years	70,539	18,212	19,349	17,970	15.008
15-24 years	67,915	18,123	18,300	18,387	13,105
Male					
All ages	155,581	41,281	41,446	41,408	31,446
Under 6 years	4,371	893	1,227	1,472	779
6-16 years	39,935	10,133	11,001	9,888	8,913
17-24 years	20,931	5,352	6,456	5,733	3,390
25-44 years	43,501	11,014	11,515	11,614	9,357
45-64 years	35,864	10,353	8,880	9,731	6,900
65 years and over	10,979	3,535	2,368	2,970	2,106
Under 5 years	2,519	*483	578	1,066	*393
5-14 years	33,706	8,385	9,685	8.221	7,415
15-24 years	29,012	7,510	8,421	7,806	5,275
Female					
All ages	198,793	53,090	50,947	55,244	39,513
Under 6 years	6,063	1,423	1,476	1,642	1,522
B-16 years	44,089	11,539	11,763	11,922	8,865
17-24 years	29,194	8,140	7,278	7,698	6,078
25-44 years	56,488	14,577	14,959	15,272	11,680
45-64 years	43,556	12,400	10,824	12,614	7,718
85 years and over	19,403	5,010	4,647	6,096	3,651
Under 5 years	3,610	663	974	932	1,040
5-14 years	36,833	9,827	9,664	9,749	7,593
15-24 years	38,903	10,613	9,879	10,581	7.830

Table 14. Number of dental visits per person per year, by geographic region, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix 1. Definitions of terms are given in appendix 11]

Sex and age	All regions	Northeast	North Central	South	West		
Both sexes	Number of visits per person per year						
Allages	1.6	2.0	1.6	1.4	1.8		
Under 6 years	0.6	0.6	0.5	0.5	0.6		
6-16 years	2.1	2.5	2.1	1.6	2.5		
17-24 years	1.6	2.0	1.5	1.3	1.6		
25-44 years	1.7	2.0	1.7	1.5	1.9		
45-64 years	1.8	2.1	1.8	1.6	1.9		
35 years and over	1.3	1.6	1.2	1.2	1.5		
Under 5 years	0.4	0.4	0.4	0.4	0.5		
5-14 years	2.0	2.4	2.1	1.5	2.4		
15-24 years	1.7	2.1	1.6	1.4	1.8		
Male							
All ages	1.5	1.8	1.5	1.2	1.6		
Jnder 6 years	0.5	0.5	0.5	0.5	0.4		
3-16 years	2.0	2.3	2.0	1.4	2.4		
7-24 years	1.3	1.6	1.5	1.2	1.2		
25-44 years	1.6	1.8	1.5	1.3	1.7		
5-64 years	1.7	2.0	1.7	1.5	1.8		
5 years and over	1.2	1.6	1.0	0.9	1.3		
Under 5 years	0.3	*0.3	0.3	0.4	*0.3		
5-14 years	1.9	2.2	2.0	1.4	2.3		
15-24 years	1.5	1.8	1.5	1.2	1.5		
Female							
All ages	1.8	2.1	1.7	1.5	2.0		
Jnder 6 years	0.7	0.8	0.6	0.6	0.9		
3-16 years	2.2	2.7	2.2	1.8	2.5		
7-24 years	1.8	2.3	1.6	1.5	2.0		
5-44 years	1.9	2,2	1.9	1.6	2.0		
5-64 years	1.9	2.2	1.9	1.7	1.9		
55 years and over	1,4	1.5	1.3	1.3	1.7		
Under 5 years	0.5	0.4	0.5	0.4	0.7		
5-14 years	2.1	2.6	2.1	1.7	2.5		
15-24 years	1.9	2.5	1.8	1.6	2.5		

NOTE: Relative standard errors of estimates for this table are found in appendix i.

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Table 15. Population used in obtaining rates shown in this publication, by race, education of head of family, sex, family income, and age:
United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix 1. Definitions of terms are given in appendix 11]

	ΔII	Ra	Race Education of head of fan			f family	mily			
Sex, family income, and age	All persons 1	White	All other	Less than 9 years	9-12 years	9-11 years	12 years	13 years or more	13-15 years	16 year or more
Both sexes				Po	pulation in	thousands				
All ages ²	214,776	185,714	29,062	36,707	105,527	32,156	73,371	68,907	32,225	36,683
Jnder 6 years	18,537	15,215	3,322	2,063	9,761	2,911	6,850	6,446	3,087	3,359
-16 years	40,094	33,341	6,753	6,097	21,060	6,513	14,547	12,282	5,658	6,624
7-24 years	31,867	27,198	4,669	4,001	17,374	5,110	12,264	10,065	5,935	4,130
5-44 years	57,784	50,370	7,414	5,546	27,349	7,061	20,287	24,161	10,444	13,717
5-64 years	43,429 23,066	38,736 20,856	4,694 2,210	9,504 9,497	21,325 8,658	6,970 3,590	14,355 5,068	11,697 4,257	5,078 2,024	6,619 2,233
Under 5 years	15,518	12,746	2,772	1,726	8,132	2,413	5,719	5,434	2,612	2,82
5-14 years	34,947	28,956	5,992	5,048	18,378	5,586	12,791	11,031	5,101	5,93
15-24 years	40,032	34,052	5,980	5,387	21,685	6,535	15,150	12,327	6,966	5,36
Male										
llages	103,635	90,053	13,582	17,240	50,552	15,242	35,310	34,069	15,767	18,30
nder 6 years	9,513	7,835	1,678	1,056	5,015	1,457	3,558	3,312	1,564	1,74
6 years	20,392	16,996	3,396	3,056	10,762	3,342	7,420	6,219	2,804	3,41
-24 years	15,522	13,376	2,147	2,079	8,406	2,517	5,889	4,821	2,895	1,92
-44 years	27,949	24,687	3,262	2,541	12,969	3,249	9,720	12,089	5,247	6,84
-64 years	20,754	18,599	2,155	4,343	10,065	3,265	6,800	5,912	2,479	3,43
years and over	9,505 7,935	8,561 6,533	944 1,403	4,166 890	3,335 4,138	1,412	1,923 2,946	1,715 2,798	777	93
Under 5 years	17,814	14,801	3,013	2,522	9,437	1,192 2,886	6,550	5,599	1,323 2,532	1,47 3,06
15-24 years	19,678	16,873	2,805	2,778	10,608	3,237	7,371	5,955	3,408	2,54
Female										
Rges	111,142	95,662	15,480	19,467	54,975	16,914	38,060	34,839	16,458	18,38
der 6 years	9,024	7,380	1,644	1,007	4,745	1,454	3,292	3,134	1,523	1,61
6 years	19,702	16,345	3,357	3,041	10,298	3,172	7,127	6,063	2,854	3,20
-24 years	16,344	13,822	2,522	1,922	8,969	2,593	6,376	5,244	3,039	2,20
-44 years	29,835	25,683	4,152	3,005	14,380	3,812	10,568	12,071	5,196	6,87
-64 years	22,676	20,137	2,539	5,161	11,259	3,705	7,554	5,784	2,599	3,18
years and over	13,561	12,295	1,266	5,330	5,323	2,178	3,145	2,542	1,246	1,29
Under 5 years	7,583 17,133	6,213 14,154	1,370 2,979	836 2,526	3,994 8,941	1,221 2,700	2,773 6,241	2,636 5,432	1,289 2,569	1,34 2,86
15-24 years	20,355	17,180	3,175	2,609	11,077	3,297	7,780	6,373	3,558	2,81
Less than \$10,000										
lages	56,940	44,220	12,719	18,369	28,272	11,918	16,354	9,409	6,336	3,07
nder 6 years , , , , ,	5,191	3,535	1,656	1,092	3,301	1,419	1,882	732	534	198
6 years	8,926	5,859	3,067	2,779	4,989	2,331	2,658	953	732	22
-24 years	10,059	7,896	2,162	1,507	5,471	1,936	3,535	3,008	2,306	70
-44 years	10,315	7,819	2,496	2,156	5,537	2,083	3,454	2,501	1,396	1,10
64 years	9,501	7,639	1,862	4,040	4,413	1,940	2,474	886	552	33
years and over	12,948	11,472	1,476	6,794	4,560	2,210	2,350	1,329	815	51
Jnder 5 years	4,431	3,044	1,388	916	2,816	1,199	1,617	641	467	174
i-14 years	7,951 11,793	5,196 9,050	2,755 2,743	2,380 2,083	4,555 6,389	2,100 2,386	2,455 4,003	904 3,147	702 2,403	20: 74:
\$10,000 or more										
ages	137,326	125,028	12,298	13,725	67,669	17,079	50,590	54,863	23,635	31,228
nder 6 years ,	11,771	10,553	1,219	714	5,669	1,223	4,446	5,300	2,342	2,959
6 years	27,468	24,681	2,787	2,553	14,239	3,546	10,693	10,466	4,521	5,94
-24 years	19,016	17,224	1,792	1,941	10,439	2,683	7,756	6,487	3,314	3,17
44 years	43,348	39,269	4,079	2,718	19,918	4,380	15,538	20,450	8,512	11,93
-84 years	28,842	26,779	2,063	4,220	14,524	4,298	10,225	9,817	4,035	5,78
years and over	6,880	6,522	358	1,579	2,880	948	1,932	2,342	911	1,431
	0.75/	8,744	1,011	595	4,655	992	3,662	4,433	1,965	2,468
Under 5 years	9,754 23,904	21,455	2,449	2,033	12,301	2,963	9,338	9,390	4,049	5,342

¹ Includes unknown education. 2 Includes unknown income.

For official population estimates for more general use, see U.S. Bureau of the Census reports on the civilian population of the United States, in <u>Current Population</u> <u>Reports</u>, Series P-20, P-25, and P-60.

NOTES: Relative standard errors of estimates for this table are found in appendix i.

Table 16. Population used in obtaining rates shown in this publication, by family income, sex, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

	Family income								
Sex and age	All incomes ¹	Less than \$3,000	\$3,000- \$4,999	\$5,000- \$6,999	\$7,000- \$9,999	\$10,000- \$14,999	\$15,000 or more	\$15,000- \$24,999	\$25,000 or more
Both sexes				Popula	ation in tho	usands			
All ages	214,776	9,550	12,892	14,947	19,551	35,466	101,859	54,740	47,119
Under 6 years	18,537	874	1,151	1,308	1.858	3,724	8,048	5,285	2.763
6-16 years	40,094	1,222	1,940	2,404	3,361	6,520	20,948	11,294	9.654
17-24 years	31,867	2.381	1,980	2,406	3,292	5,246	13,770	6,916	6.854
25-44 years	57,784	1,368	1,972	2,674	4,301	10.381	32,968	18,398	14,570
45-64 years	43,429	1,470	1,969	2,569	3,493	6,611	22,231	10,643	11,588
65 years and over	23,066	2,236	3,880	3,586	3,246	2,985	3,895	2,204	1.691
Under 5 years	15,518	762	979	1,112	1.578	3,144	6,610	4,329	2,281
5-14 years	34,947	1,055	1,772	2,126	2.999	5,900	18,004	10,159	7.845
15-24 years	40,032	2,659	2,320	2,880	3,935	6,446	18,152	9,007	9,114
Male									
All ages	103,635	3,668	5,243	6,624	9,082	17,319	52,049	27,771	24,277
Under 6 years	9,513	412	603	642	952	1,920	4,186	2,759	1,428
6-16 years	20,392	630	1,010	1,203	1,698	3,302	10,703	5,792	4,911
17-24 years	15,522	1,001	912	1,099	1,517	2,537	7.003	3,322	3,680
25-44 years	27,949	564	749	1,125	1,970	5.056	16,508	9,341	7,167
45-64 years	20,754	504	652	964	1,392	3,031	11.849	5.545	6,304
65 years and over	9,505	557	1.317	1.591	1.553	1.474	1.800	1,013	787
Under 5 years	7,935	355	505	545	807	1,616	3,439	2,271	1.168
5-14 years	17,814	529	945	1,060	1,503	3,006	9,212	5.208	4.004
15-24 years	19,678	1,159	1,076	1,339	1,857	3,137	9,241	4,394	4,847
Female									
All ages	111,142	5,882	7,650	8,323	10,469	18,147	49,811	26,968	22,842
Under 6 years	9,024	462	548	666	906	1.804	3,861	2,526	1.335
6-16 years	19,702	592	929	1,201	1.662	3,218	10,245	5.503	4,743
17-24 years	16,344	1,380	1.068	1,307	1,775	2,709	6,767	3,594	3,174
25-44 years	29,835	804	1,224	1,549	2,331	5,324	16,460	9.057	7.403
45-64 years	22,676	966	1,317	1,605	2,101	3,581	10,382	5.098	5,284
65 years and over	13,561	1,679	2,563	1,996	1,693	1,510	2,095	1,191	904
Under 5 years	7,583	407	474	567	770	1,528	3,171	2,058	1,113
5-14 years	17,133	526	827	1,066	1,496	2,894	8,793	4.951	3,842
15-24 years	20.355	1,501	1,244	1,540	2,078	3.309	8.911	4,614	4,297

¹Includes unknown income.

NOTES: Relative standard errors of estimates for this table are found in appendix I.

For official population estimates for more general use, see U.S. Bureau of the Census reports on the civilian population of the United States, in Current Population Reports, Series P-20, P-25, and P-60.

Table 17. Population used in obtaining rates shown in this publication, by sex, usual activity status, and age: United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

Usual activity status and age	Both sexes	Male	Female			
All activities	Population in thousands					
All ages	214,776	103,635	111,142			
Under 6 years	18.537	9.513	9,024			
3-16 years	40.094	20,392	19,702			
17-24 years	31.867	15.522	16,344			
25-44 years	57,78 4	27,949	29,835			
15-64 years	43.429	20.754	22,676			
85 years and over	23,066	9,505	13,561			
Under 5 years	15,518	7.935	7.583			
5-14 years	34.947	17,814	17,133			
15-24 years	40,032	19,678	20,355			
•	•	•	•			
Preschool (under 6 years)	18,537	9,513	9,024			
School age (6-16 years)	40,094	20,392	19,702			
Usually working (17 years and over)	88,670	53,658	35,012			
17-24 years	16,124	8,937	7,187			
25-44 years	42,566	26,015	16,551			
45-64 years	27,380	17,035	10,345			
65 years and over	2,601	1,671	930			
Usually keeping house (female 17 years and over)	38,104	,	38,104			
17-24 years	3,293		3,293			
25-44 years	12,325		12,235			
45-64 years	11,530		11,530			
65 years and over	10,956	• • •	10,956			
Retired (45 years and over)	11,403	10,182	1,221			
45-64 years	3,005	2,686	320			
65 years and over	8,398	7,497	901			
Retired for health reasons (45 years and over)	3,745	3,323	422			
45-64 years	1,818	1,629	190			
65 years and over	1,927	1,695	232			
Retired for other reasons (45 years and over)	7.658	6,859	799			
45-64 years	1,187	1,057	130			
65 years and over	6,471	5,802	669			
Other activity (17 years and over)	17,968	9.889	8.079			
17-24 years	12,451	6,585	5,865			
25-44 years	2.892	1.934	959			
45-64 years	1,514	1,033	482			
65 years and over	1,110	337	773			
Usually going to school (17 years and over)	12.615	6.458	6.157			
17-24 years	11,141	5,722	5,419			
25-44 years	1,217	630	587			
45-64 years	181	73	108			
65 years and over	76	33	43			
Other (17 years and over)	5,353	3,431	1,921			
17-24 years	1,310	864	446			
25-44 years	1,676	1,304	372			
45-64 years	1,333	960	374			
65 years and over	1,034	304	730			

NOTES: Relative standard errors of estimates for this table are found in appendix I.

For official population estimates for more general use, see U.S. Bureau of the Census reports on the civilian population of the United States, in Current Population Reports, Series P-20, P-25, and P-60.

Table 18. Population used in obtaining rates shown in this publication, by place of residence, geographic region, sex, and age:
United States, 1978 and 1979

[Data are based on household interviews of the civilian noninstitutionalized population. The survey design, general qualifications, and information on the reliability of the estimates are given in appendix I. Definitions of terms are given in appendix II]

		Plac	e of residenc	Geographic region				
Sex and age	All areas	All	Outside :	SMSA		North		
		SMSA	Nonfarm	Farm	Northeast	Central	South	West
Both sexes			Po	pulation i	in thousands			
All ages	214,776	146,971	61,733	6,072	48,042	57,401	70,043	39,289
Under 6 years	18,537 40,094	12,519 26,938	5,606 11,957	412 1,198	3,657 8,739	5,132 10,636	6,204 13,543	3,544 7,175
17-24 years	31,867	22,125	8,981	760	6,801	8,998	10,260	5,807
25-44 years	57,784 43,429	40,600	15,865	1,319	12,665	15,472	18,479	11,167
65 years and over	23,066	30,060 14,728	11,791 7.534	1,579 804	10,681 5.500	11,168 5,995	13,842 7,714	7,738 3,858
Under 5 years	15,518	10,474	4.705	339	3,052	4,317	5,138	3,010
5-14 years	34,947	23,527	10,452	968	7,538	9,307	11,848	6,254
15-24 years	40,032	27,582	11,387	1,063	8,607	11,141	13,022	7,262
Male								
All ages	103,635	70,613	29,863	3,158	22,954	27,845	33,670	19,165
Under 6 years	9,513	6,456	2,830	228	1,803	2,665	3,224	1,821
6-16 years	20,392	13,674	6,087	631	4,453	5,390	6,886	3,663
17-24 years	15,522	10,640	4,442	440	3,326	4,431	4,966	2,799
25-44 years	27,949	19,514	7,775	659	6,044	7,579	8,864	5,461
45-64 years	20,754	14,423	5,540	791	5,069	5,360	6,552	3,773
65 years and over	9,505	5,907	3,190	408	2,258	2,420	3,178	1,649
Under 5 years	7,935	5,391	2,359	186	1,512	2,213	2,679	1,531
5-14 years	17,814	11,997	5,305	512	3,790	4,775	6,054	3,196
	19,678	13,382	5,694	601	4,280	5,499	6,343	3,555
Female								
All ages	111,142	76,357	31,870	2,915	25,088	29,556	36,373	20,124
Under 6 years	9,024	6,064	2,776	184	1,854	2,466	2,980	1,723
6-16 years	19,702	13,264	5,870	567	4,286	5,246	6,658	3,512
17-24 years	16,344	11,485	4,539	320	3,475	4,567	5,294	3,008
25-44 years	29,835	21,086	8,089	660	6,621	7,893	9,615	5,706
45-64 years	22,676	15,637	6,251	788	5,611	5,809	7,290	3,965
65 years and over	13,561	8,821	4,344	396	3,241	3,575	4,536	2,209
Under 5 years	7,583	5,083	2,346	153	1,540	2,105	2,458	1,479
5-14 years	17,133	11,530	5,147	456	3,748	4,532	5,795	3,058
15-24 years	20,355	14,199	5,693	462	4,327	5,642	6,679	3,707

NOTES: Relative standard errors of estimates for this table are found in appendix ${\bf I}_{\bullet}$

For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in Current Population Reports, Series P-20, P-25, and P-60.

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Appendix I. Technical notes on methods

Background of this report

This report is one of a series of statistical reports prepared by the National Center for Health Statistics (NCHS). It is based on information collected in a continuing nationwide sample of households in the National Health Interview Survey (NHIS).

The National Health Interview Survey utilizes a questionnaire that obtains information on personal and demographic characteristics, illnesses, injuries, impairments, chronic conditions, and other health topics. As data relating to each of these various broad topics are tabulated and analyzed, separate reports are issued that cover one or more of the specific topics.

The population covered by the sample for the National Health Interview Survey is the civilian, noninstitutionalized population of the United States living at the time of the interview. The sample does not include members of the Armed Forces or U.S. nationals living in foreign countries. It should also be noted that the estimates shown do not represent a complete measure of any given topic during the specified calendar period since data are not collected in the interview for persons who died during the reference period. For many types of statistics collected in the survey, the reference period covers the 2 weeks prior to the interview week. For such a short period, the contribution by decedents to a total inventory of conditions or services should be very small. However, the contribution by decedents during a long reference period (e.g., 1 year) might be sizable, especially for older persons.

Statistical design of the National Health Interview Survey

General plan.—The sampling plan of the survey follows a multistage probability design that permits a continuous sampling of the civilian noninstitutionalized population of the United States. The

sample is designed in such a way that the sample of households interviewed each week is representative of the target population and that weekly samples are additive over time. This feature of the design permits both continuous measurement of characteristics of samples and more detailed analysis of less common characteristics and smaller categories of health-related items. The continuous collection has administrative and operational advantages as well as technical assets since it permits fieldwork to be handled with an experienced, stable staff.

The overall sample was designed so that tabulations can be provided for each of the four major geographic regions and for selected places of residence in the United States.

The first stage of the sample design consists of drawing a sample of 376 primary sampling units (PSU's) from approximately 1,900 geographically defined PSU's. A PSU consists of a county, a small group of contiguous counties, or a standard metropolitan statistical area. The PSU's collectively cover the 50 States and the District of Columbia.

With no loss in general understanding, the remaining stages can be combined and treated in this discussion as an ultimate stage. Within PSU's, then, ultimate stage units called segments are defined in such a manner that each segment contains an expected four households. Three general types of segments are used.

Area segments which are defined geographically. List segments, using 1970 census registers as the frame

Permit segments, using updated lists of building permits issued in sample PSU's since 1970.

Census address listings were used for all areas of the country where addresses were well defined and could be used to locate housing units. In general the list frame included the larger urban areas of the United States from which about two-thirds of the NHIS sample was selected.

The usual NHIS sample consists of approximately 12,000 segments containing about 50,000 assigned households, of which 9,000 were vacant, demolished, or occupied by persons not in the scope of the survey. The 41,000 eligible occupied households yield a probability sample of about 110,000 persons.

During 1978 and 1979 the sample comprised about 83,000 eligible occupied households of which about 80,000 were interviewed. The interviewed households contained about 220,500 persons living at the time of the interview. The total noninterview rate was 3.6 percent, of which 2.0 percent was due to respondent refusal.

During the January-March quarter of 1978 the sample contained about 10,300 eligible occupied households of which approximately 9,900 were interviewed. These interviewed households had about 27,200 persons living at the time of the interview.

Descriptive material on data collection, field procedures, and questionnaire development in the NHIS have been published^{5,6} as well as a detailed description of the sample design and a report on the estimation procedure.^{7,8}

Collection of data.—Field operations for the survey are performed by the U.S. Bureau of the Census under specifications established by the National Center for Health Statistics. In accordance with these specifications the Bureau of the Census participates in survey planning, selects the sample, and conducts the field interviewing as an agent of NCHS. The data are coded, edited, and tabulated by NCHS.

Estimating procedures.—Since the design of the NHIS is a complex multistage probability sample, it is necessary to use complex procedures in the derivation of estimates. Four basic operations are involved.

- 1. Inflation by the reciprocal of the probability of selection.—The probability of selection is the product of the probabilities of selection from each step of selection in the design (PSU, segment, and household).
- 2. Nonresponse adjustment.—The estimates are inflated by a multiplication factor which has as its numerator the number of sample households in a given segment and as its denominator the number of households interviewed in that segment.
- 3. First-stage ratio adjustment.—Sampling theory indicates that the use of auxiliary information that is highly correlated with the variables being estimated improves the reliability of the estimates. To reduce the variability between PSU's within a region, the estimates are ratio adjusted to the 1970 populations within 12 race-residence classes.
- 4. Poststratification by age-sex-race.—The estimates are ratio adjusted within each of 60 age-sex-race

cells to an independent estimate of the population of each cell for the survey period. These independent estimates are prepared by the Bureau of the Census. Both the first-stage and poststratified ratio adjustments take the form of multiplication factors applied to the weight of each elementary unit (person, household, condition, and hospitalization).

The effect of the ratio-estimating process is to make the sample more closely representative of the civilian noninstitutionalized population by age, sex, race, and residence, which thereby reduces sampling variance.

As noted, each week's sample represents the population living during that week and characteristics of the population. Consolidation of samples over a time period, e.g., a calendar quarter, produces estimates of average characteristics of the U.S. population for the calendar quarter. Similarly, population data for a year are averages of the four quarterly figures.

For prevalence statistics, such as number of persons classified by time interval since last visit, figures are first calculated for each calendar quarter by averaging estimates for all weeks of interviewing in the quarter. Prevalence data for a year are then obtained by averaging the four quarterly figures. Similarly an estimate for 2 years is obtained by averaging eight quarterly figures.

For other types of statistics-namely those measuring the number of occurrences during a specified time period—such as number of visits to a dentist, a similar computational procedure is used, but the statistics are interpreted differently. For these items, the questionnaire asks for the respondent's experience over the 2 calendar weeks prior to the week of interview. In such instances the estimated quarterly total for the statistic is 6.5 times the average 2-week estimate produced by the 13 successive samples taken during the period. The annual total is the sum of the four quarters. Thus the experience of persons interviewed during a year-experience which actually occurred for each person in a 2-calendar-week interval prior to week of interview-is treated as though it measured the total of such experience during the *year.* Such interpretation leads to no significant bias.

When 2 years of data are used, as in this report, the sum of the annual estimates is divided by 2 to obtain an average annual estimate for the statistic.

General qualifications

Nonresponse.—Data were adjusted for nonresponse by a procedure that imputes to persons in a household who were not interviewed the characteristics of persons in households in the same segment who were interviewed.

NOTE: A list of references follows the text.

The interview process.—The statistics presented in this report are based on replies obtained in interviews with persons in the sample households. Each person 19 years of age and over present at the time of interview was interviewed individually. For children and for adults not present in the home at the time of the interview, the information was obtained from a related household member such as a spouse or the mother of a child.

Rounding of numbers.—The original tabulations on which the data in this report are based show all estimates to the nearest whole unit. All consolidations were made from the original tabulations using the estimates to the nearest unit. In the final published tables, the figures are rounded to the nearest thousand, although these are not necessarily accurate to that detail. Devised statistics such as rates and percent distributions are computed after the estimates on which these are based have been rounded to the nearest thousand.

Population figures.—Some of the published tables include population figures for specified categories. Except for certain overall totals by age, sex, and race, which are adjusted to independent estimates, these figures are based on the sample of households in the NHIS. These are given primarily to provide denominators for rate computation, and for this purpose are more appropriate for use with the accompanying measures of health characteristics than other population data that may be available. With the exception of the overall totals by age, sex, and race mentioned above, the population figures differ from figures (which are derived from different sources) published in reports of the Bureau of the Census. Official population estimates are presented in Bureau of the Census reports in Series P-20, P-25, and P-60.

Reliability of estimates

Since the statistics presented in this report are based on a sample, they will differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and interviewing personnel and procedures.

As in any survey, the results are also subject to reporting and processing errors and errors due to nonresponse. To the extent possible, these types of errors were kept to a minimum by methods built into survey procedures. Although it is very difficult to measure the extent of bias in the National Health Interview Survey, a number of studies have been conducted to study this problem. The results have been published in several reports. 10-13 The standard errors shown in this report were computed using the balanced half-sample replication procedure.

NOTE: A list of references follows the text.

The standard error is primarily a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the standard error also reflects part of the variation which arises in the measurement process. It does not include estimates of any biases which might be in the data. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 95 out of 100 that the difference would be less than twice the standard error and about 99 out of 100 that it would be less than 2½ times as large.

Standard error charts.—The relative standard error of an estimate is obtained by dividing the standard error of the estimate by the estimate itself and is expressed as a percentage of the estimate. For this report, asterisks are shown for any cell with more than a 30-percent relative standard error. Included in this appendix are charts from which the relative standard errors can be determined for estimates shown in the report. In order to derive relative errors which would be applicable to a wide variety of health statistics and which could be prepared at a moderate cost, a number of approximations were required. As a result, the charts provide an estimate of the approximate relative standard error rather than the precise error for any specific aggregate or percentage.

Three classes of statistics for the health survey are identified for purposes of estimating variances.

- 1. Narrow range.—This class consists of (1) statistics which estimate a population attribute, e.g., the number of persons in a particular income group, and (2) statistics for which the measure for a single individual during the reference period used in data collection is usually either 0 to 1 and, on occasion, may take on the value 2 or very rarely 3.
- 2. Medium range.—This class consists of other statistics for which the measure for a single individual during the reference period used in data collection will rarely lie outside the range 0 to 5.
- 3. Wide range.—This class consists of statistics for which the measure for a single individual during the reference period used in data collection can range from 0 to a number in excess of 5, e.g., the number of days of bed disability.

In addition to classifying variables according to whether they are narrow-, medium-, or wide-range, statistics in the survey are further classified as to whether they are based on a reference period of 2 weeks, 6 months, or 12 months.

General rules for determining relative standard errors.—The following rules will enable the reader to determine approximate relative standard errors from the charts for estimates presented in this report.

These charts represent standard errors of NHIS data. They should be used in preference to the charts which have appeared in all previous Series 10 publications.

- Rule 1. Estimates of aggregates: Approximate relative standard errors for estimates of aggregates such as the number of persons with a given characteristic are obtained from appropriate curves, figures I, II, and IV. The number of persons in the total U.S. population or in an age-sex-race class of the total population is adjusted to official Bureau of the Census figures and is not subject to sampling error.
- Rule 2. Estimates of percentages in a percent distribution: Relative standard errors for percentages in a percent distribution of a total are obtained from appropriate curves, figures III and V. For values which do not fall on one of the curves presented in the chart, visual interpolation will provide a satisfactory approximation.
- Rule 3. Estimates of rates where the numerator is a subclass of the denominator: This rule applies for prevalence rates or where a unit of the numerator occurs, with few exceptions, only once in the year for any one unit in the denominator. For example, in computing the rate of visual impairments per 1,000 population, the numerator consisting of persons with the impairment is a subclass of the denominator, which includes all persons in the population. Such rates if converted to rates per 100 may be treated as though they were percentages and the relative standard errors obtained from the percentage charts for population estimates. Rates per 1,000, or on any other base, must first be converted to rates per 100; then the percentage chart will provide the relative standard error per 100.
- Rule 4. Estimates of rates where the numerator is not a subclass of the denominator: This rule applies where a unit of the numerator often occurs more than once for any one unit in the denominator. For example, in the computation of the number of persons injured per 100 currently employed persons per year, it is possible that a person in the denominator could have sustained more than

one of the injuries included in the numerator. Approximate relative standard errors for rates of this kind may be computed as follows:

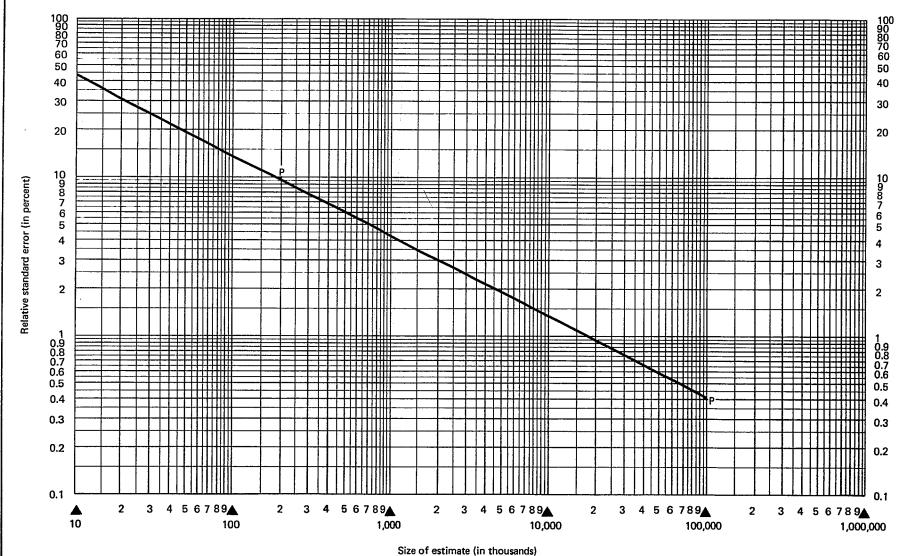
- (a) Where the denominator is the total U.S. population or includes all persons in one or more of the age-sex-race groups of the total population, the relative error of the rate is equivalent to the relative error of the numerator, which can be obtained directly from the appropriate chart.
- (b) In other cases the relative standard error of the numerator and of the denominator can be obtained from the appropriate curve. Square each of these relative errors, add the resulting values, and extract the square root of the sum. This procedure will result in an upper bound on the standard error and will overstate the error to the extent that the correlation between numerator and denominator is greater than zero.
- Rule 5. Estimates of difference between two statistics (mean, rate, total, etc.): The standard error of a difference is approximately the square root of the sum of the squares of each standard error considered separately. A formula for the standard error of a difference,

$$d = X_1 - X_2$$

is

$$\sigma_d = \sqrt{(X_1 \ V_{x1})^2 + (X_2 \ V_{x2})^2}$$

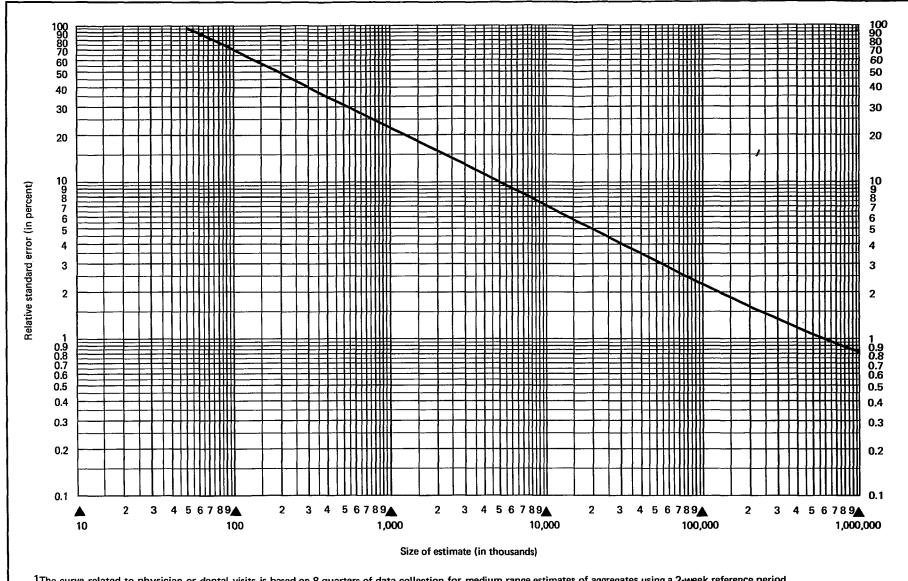
where X_1 is the estimate for class 1, X_2 is the estimate for class 2, and V_{x_1} and V_{x_2} are the relative errors of X_1 and X_2 respectively. This formula will represent the actual standard error quite accurately for the difference between separate and uncorrelated characteristics although it is only a rough approximation in most other cases. The relative standard error of each estimate involved in such a difference can be determined by one of the four rules above, whichever is appropriate.



¹This curve represents estimates of relative standard errors based on <u>8 quarters</u> of data collection for narrow range estimates of population characteristics or narrow range estimates of aggregates using a 12-month reference period.

Example of use of chart: An estimate of 10,000,000 persons with annual family income of \$15,000 or more, or 10,000,000 persons who were hospitalized one or more times in the past year (on scale at bottom of chart) has a relative standard error of 1.3 percent (read from scale at left side of chart), or a standard error of 130,000 (1.3 percent of 10,000,000).

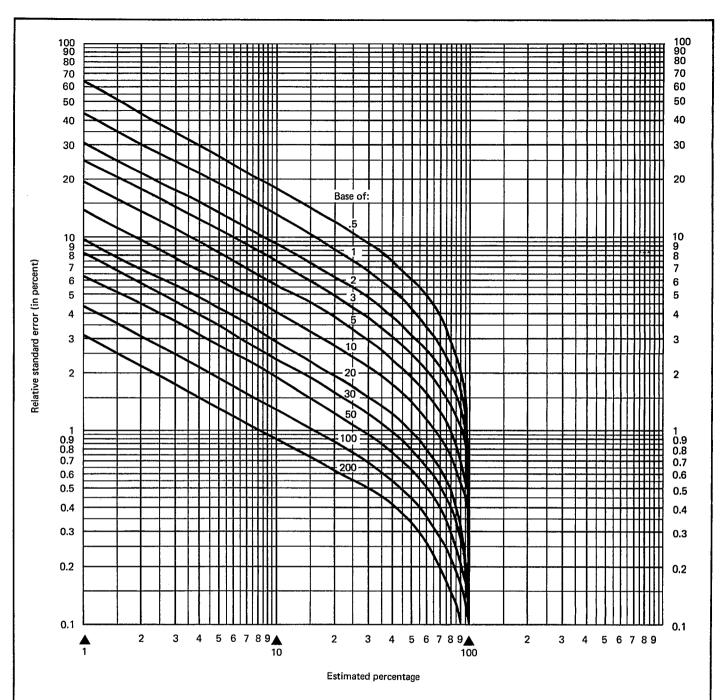
Figure I. Relative standard errors for population characteristics ¹



¹The curve related to physician or dental visits is based on 8 quarters of data collection for medium range estimates of aggregates using a 2-week reference period.

Example of use of chart: An estimate of 10,000,000 dental visits (on scale at bottom of chart) has a relative standard error of 7.0 percent (read from scale at left side of chart), or a standard error of 700,000 (7.0 percent of 10,000,000).

Figure II. Relative standard errors for number of physician or dental visits based on a 2-week reference period¹



¹These curves represent estimates of relative standard errors of percentages of population characteristics based on 8 quarters of data collection for narrow range estimates.

Example of use of chart: An estimate of 20 percent (on scale at bottom of chart) based on an estimate of 10,000,000 has a relative standard error of 2.7 percent (read from the scale at the left side of chart), the point at which the curve for a base of 10,000,000 intersects the vertical line for 20 percent. The standard error in percentage points is equal to 20 percent X 2.7 percent, or 0.54 percentage points.

Figure III. Relative standard errors of percentages of population characteristics ¹
[Base of percentage shown on curves in millions]

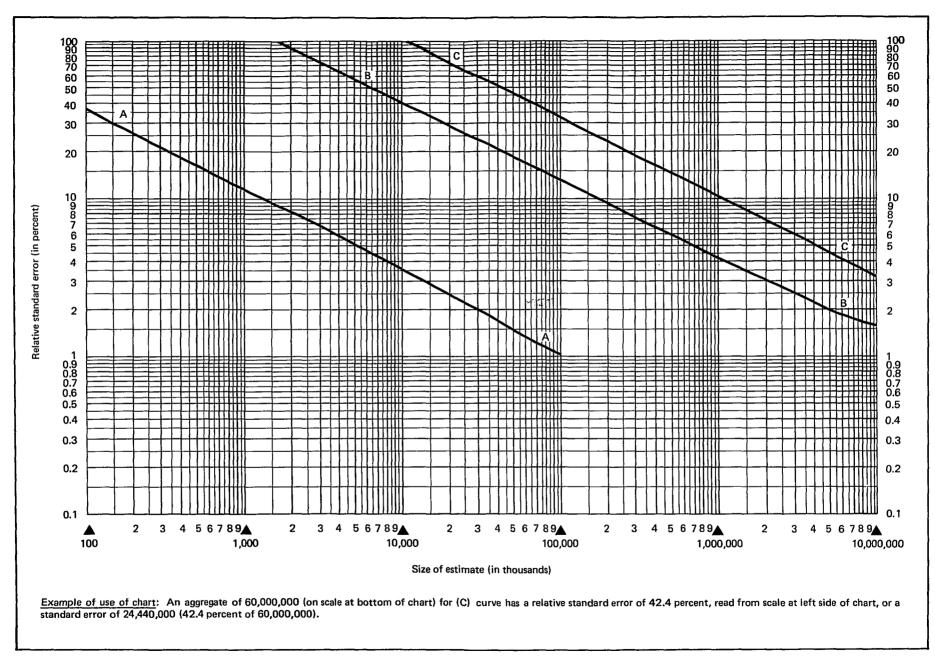
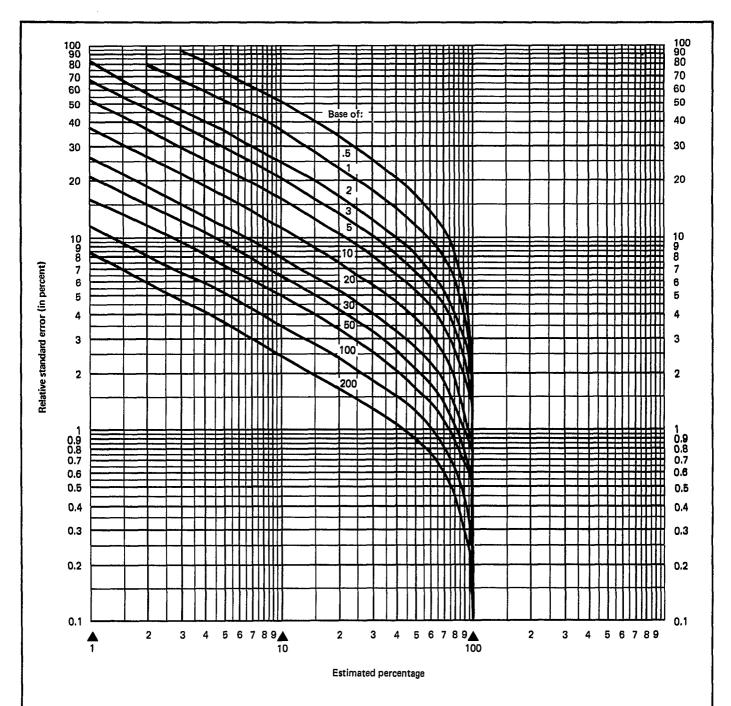


Figure IV. Relative standard errors for aggregates based on one quarter of data for number of persons (A), individual type of expense (B), and total expense (C)



Example of use of chart: An estimate of 50 percent (on scale at bottom of chart) based on an estimate of 1,000,000 has a relative standard error of 11.7 percent (read from the scale at the left side of the chart), the point at which the curve for a base of 1,000,000 intersects the vertical line for 50 percent. The standard error in percentage points is equal to 50 percent X 11.7 percent or 5.9 percentage points.

Figure V. Relative standard errors for percentages based on one quarter of data collection for number of persons (type A data, narrow and medium range)

[Base of percentage shown on curves in millions]

Appendix II. Definitions of certain terms used in this report

Terms relating to dental visits

Dental visit.—A dental visit is defined as any visit to a dentist's office for treatment or advice, including services by a technician or hygienist acting under a dentist's supervision.

Interval since last dental visit.—The interval since the last dental visit is the length of time prior to the week of interview since a dentist or dental hygienist was last visited for treatment or advice of any type.

Terms relating to out-of-pocket dental expenses

Out-of-pocket expense.—The amount paid directly by the individual or family member exclusively of any part paid by insurance, other person, or agency. The following definition pertains only to out-of-pocket expenses.

Dental bills.—The amount spent for cleaning, filling, straightening, bridgework, dental laboratory fees, and other services from a dentist or hygienist.

Demographic terms

Age.—The age recorded for each person is the age at last birthday. Age is recorded in single years and grouped in a variety of distributions depending on the purpose of the table.

Race.—The population is divided into two racial groups, "white" and "all other." "All other" includes Negro, American Indian, Chinese, Japanese, and any other race. Mexican persons are included with "white" unless definitely known to be Indian or of another race.

Income of family or of unrelated individuals.— Each member of a family is classified according to the total income of the family of which he or she is a member. Within the household all persons related to each other by blood, marriage, or adoption constitute a family. Unrelated individuals are classified according to their own incomes.

The income recorded is the total of all income received by members of the family (or by an unrelated individual) in the 12-month period preceding the week of interview. Income from all sources is included, e.g., wages, salaries, rents from property, pensions, and help from relatives.

Education.—The categories of education status show the years of school completed. Only years completed in regular schools, where persons are given a formal education, are included. A "regular" school is one that advances a person toward an elementary or high school diploma or a college, university, or professional school degree. Thus education in vocational, trade, or business schools outside the regular school system is not counted in determining the highest grade of school completed.

Education of head of family or of unrelated individuals.—Each member of a family is classified according to the education of the head of the family of which he or she is a member. Within the household all persons related to each other by blood, marriage, or adoption constitute a family. Unrelated individuals are classified according to their own education.

Usual activity.—All persons in the population are classified according to their usual activity during the 12-month period prior to the week of interview. The "usual" activity, in case more than one is reported, is the one at which the person spent the most time during the 12-month period. Children under 6 years of age are classified as "preschool." All persons aged 6-16 years are classified as "school age."

The categories of usual activity used in this report for persons aged 17 years and over are usually working, usually going to school, usually keeping house, retired, and other activity. For several reasons these categories are not comparable with somewhat similarly named categories in official Federal labor force statistics. First, the responses concerning usual activity are accepted without detailed questioning since the objective of the question is not to estimate the numbers of persons in labor force categories but

to identify crudely certain population groups which may have differing health problems. Second, the figures represent the usual activity status over the period of an entire year, whereas official labor force statistics relate to a much shorter period, usually 1 week. Third, the minimum age for usually working persons is 17 in the National Health Interview Survey, and the official labor force categories include all persons aged 14 or older. Finally, in the definitions of specific categories which follow, certain marginal groups are classified differently to simplify procedures.

Usually working includes persons 17 years of age or older who are paid employees; self-employed in their own business, profession, or in farming; or unpaid employees in a family business or farm. Work around the house or volunteer or unpaid work such as for a church is not counted as working.

Usually going to school includes persons 17 years of age or older whose major activity is going to school. Usually keeping house includes female persons 17 years of age or older whose major activity is described as "keeping house" and who cannot be classified as "working."

Retired includes persons 45 years old and over who consider themselves to be retired. In case of doubt, a person 45 years of age or older is counted as retired if he or she has either voluntarily or involuntarily stopped working, is not looking for work, and is not described as "keeping house." A retired person may or may not be able to work.

Other activity includes all persons 17 years of age or older not classified as "working," "retired," or "going to school," and females 17 years of age or older not classified as "keeping house."

Place of residence.—The place of residence of a member of the civilian noninstitutionalized population is classified as inside a standard metropolitan statistical area (SMSA) or outside an SMSA and either farm or nonfarm.

Standard metropolitan statistical areas.—The definitions and titles of SMSA's are established by the U.S. Office of Management and Budget with the advice of the Federal Committee on Standard Metropolitan Statistical Areas.

The definition of an individual SMSA involves two considerations: first, a city or cities of specified population that constitute the central city and identify the county in which it is located as the central county; second, economic and social relationships with contiguous counties (except in New

England) that are metropolitan in character so that the periphery of the specific metropolitan area may be determined. SMSA's are not limited by State boundaries. In New England SMSA's consist of towns and cities, rather than counties. The metropolitan population in this report is based on SMSA's as defined in the 1970 census and does not include any subsequent additions or changes.

Central cities.—Each SMSA must include at least one central city. The complete title of an SMSA identifies the central city or cities. If only one central city is designated, then it must have 50,000 inhabitants or more. The area title may include, in addition to the largest city, up to two city names on the basis and in the order of the following criteria: (1) the additional city has at least 250,000 inhabitants or (2) the additional city has a population of one-third or more of that of the largest city and a minimum population of 25,000. An exception occurs where two cities have contiguous boundaries and constitute, for economic and social purposes, a single community of at least 50,000, the smaller of which must have a population of at least 15,000.

Farm and nonfarm residence.—The population residing outside SMSA's is subdivided into the farm population, which comprises all non-SMSA residents living on farms, and the nonfarm population, which comprises the remaining outside SMSA population. The farm population includes persons living on places of 10 acres or more from which sales of farm products amounted to \$50 or more during the previous 12 months or on places of less than 10 acres from which sales of farm products amounted to \$250 or more during the preceding 12 months. Other persons living outside an SMSA were classified as nonfarm if their household paid rent for the house but their rent did not include any land used for farming.

Sales of farm products refer to the gross receipts from the sale of field crops, vegetables, fruits, nuts, livestock and livestock products (milk, wool, etc.), poultry and poultry products, and nursery and forest products produced on the place and sold at any time during the preceding 12 months.

Geographic region.—For the purpose of classifying the population by geographic area, the States are grouped into four regions. These regions, which correspond to those used by the U.S. Bureau of the Census, are shown in figure VI.

Region	States Included				
Northeast	. Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Con- necticut, New York, New Jersey, Pennsylvania				
North Central	. Michigan, Ohio, Indiana, Illinois, Wisconsin, Minnesota, Iowa, Mis- souri, North Dakota, South Dakota, Kansas, Nebraska				
South	. Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Texas, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma				
West	. Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Alaska, Oregon, Califonia, Hawaii				

Figure VI. Geographic regions

Appendix III. Questionnaire items relating to dental visits

Questions from the 1978 and 1979 questionnaires

				# # 1 / L
12a. During the past 2 weeks, did anyone in the family go to the dentist?	Y	N (13)		
b. Who was this? - Mark "Dental visit" box in person's column.			12b.	☐ Dental visit
c. During the past 2 weeks, did anyone else in the family go to a dentist?	Y (Reask 12b and c)	N		
If "Dental visit," ask: d. During the past 2 weeks, how many times did — — go to a dentist?			d.	No. of dental visits (NP)
Do not ask for children I yr. old and under.				
Mark box or ask: 13. ABOUT how long has it been since — — LAST went to a dentist?			13.	1 📉 2-week dental visit
				2 Past 2 weeks not reported (12) 3 2 weeks-6months 4 Over 6-12 months 5 1 year 6 2-4 years 7 5+ years 8 Never/age I or under

Questions from the 1969 and 1963-64 questionnaires

Questions from the 1969 questionnaire

7a. During the past 2 weeks, did anyone in the family, (that is you, your, etc.) go to a dentist?	Yes (7b and c) No (9)		
b. Who was this? - Mark "Dental visit," box in person's column.		7b.	Dental visit
c. During the past 2 weeks, did anyone else in the family go to a dentist?	Yes (Reask 7b and c)		
For each person with "Dental visit," ask: d. During the past 2 weeks, how many times did go to dentist?		d.	No. of dental visits (NP)
If "Dental visit," ask: 8a. For what (other) condition did see the dentist? – Enter condition in 8a.		8a.	Exam. or cleaning (8b)
b, Did see the dentist for any { other condition? specific		ь.	Yes (8s) No other (8c) No specific (NP)
For each condition in 8a, ask: c. During the past 2 weeks was sick because of his?		c.	Yes (Enter condition or in item C) (NP)
			1 2 week dental visit (9b) No dental visit (9a)
9a. ABOUT how long has it been since went to a dentist? Estimate is acceptable. If less than 1 year, mark appropriate box.		90.	2 Past 2 weeks not reported (Q.** 7 and 8) 3 2 weeks - 6 months 4 Over 6 - 12 months Years (NP) 0 Never (NP)
b. During the past 12 months, about how many times did —— go to a dentist?		ь.	Number of visits (NP)

Questions from the July 1963-June 1964 questionnaire

18. LAST WEEK OR THE WEEK BEFORE did anyone in the family go to a dentist?	☐ Yes	N₀
if "Yes," ask:		No. of times
(a) Who was this?	(1) (2) (3)	•
(b) Anyone else?	othe	ractions or or surgery ightening
For each person with "Yes" checked, ask:	(Ort	hodontia) atment for gums
(c) How many times did you visit the dentist LAST WEEK OR THE WEEK BEFORE?		aning teeth mination
(d) What did you have done (the last time, the time before, etc.)?		ture work er (Specify)- <u>a</u>
(e) Anything else?		· · · · · · · · · · · · · · · · · · ·
If "No" to Question 18, ask:	Under 6 mos.	6-12 mos.
19. ABOUT how long has it been since you went to a dentist?	No. of years	Never

Appendix IV. Questionnaire items relating to out-of-pocket health expenses

Health Expenses Questionnaire, 1978: Form A

Pi	ease answer the fol	مراوعيين مماسوال	fa.				Person No	
	IRSU BIJSTHEI LIIU IV.	Howing question	s for	DENTAL BILLS	PAID		William	
1.	How much did THI that is, from Janu			Ils for this person d		past 12 months,	DOLLARS \$	CENTS
	INCLUDE amount Cleanings Fillings	• •	Dentel surger; Extractions		atory fees	Other services from a dentist or hygienist	or No dental k for this per	
	. ,,,,,,,	,-		DOCTORS' BILL	-			
2.	How much did TH	IS FAMILY sper		lls for this person d	•		DOLLARS	. CENTS
-	INCLUDE emount Routine doctor vis Treatments Check-ups	its spent for: Isits Doctor f	fees while a It in a hospital	Deliveries Pregnancy care Laboratory fees	Shots Other		or No dector to	bills paid
				HOSPITAL BILL	.S PAID			
3.	How much did TH	IS FAMILY spen	ıd on hospital k	bills for this person	during t	he past 12 months?	DOLLARS \$	CENTS
	INCLUDE amount Room and board Operating and delivery rooms	nts spent for: Anesthe: Tests X-rays	sia	Special treatment Any other hospita	is al service:	5	or No hospita paid for thi	
			PAYMENTS #	AADE FOR PRESC	CRIPTIC	ON MEDICINE		
4.	About how much d	lid THIS FAMIL'	Y spend on med L'S OR DENTIS	dicine for this perso ST'S PRESCRIPTIO	on during	the past 12 months	DOLLARS \$	CENTS
	INCLUDE omoun						No prescril cines beug	ght for
	PAY	/MENTS MADE	FOR EYEGL	.ASSES, CONTAC	T LENS	SES OR OPTOMETRI	IST'S BILLS	
5.	During the past 12 or optometrists' fe	2 months, how moves for this pers	uch did THIS F on?	FAMILY spend on ey	/eglasser	s, contact lenses,	DOLLARS \$	CENTS
							No amount these items	
			PAYMENTS N	MADE FOR "OTH	ER" ME	DICAL BILLS		
6a.	. How much did THI past 12 months?	IS FAMILY spen	id on other med	lical expenses for th	his perso	n during the	DOLLARS \$	CENTS
	DO NOT INCLUD	JE any expenses v nes of any kind.	which you have e	already recorded. DO	NOT 'NC	LUDE amounts	No emount	
	Chireprac Hearing a Special b	E amounts spent factors' or Padiatrist ald braces, trusses, whicial limbs	es' fees	Physical Seccial n				
6b.	. What type of medic	cal expenses did	d this person h	sve?				
				Type of Medical E	xpense			
			I I	REFERRED TO R		s		
7.	Check one of the f	following boxes:	:			<u> </u>		
	1 Referred to re-	cords for ALL dell	lar emeunts ente	red on this page.			1 🗆 AH	
	2 Referred to rer	cords for SOME bu	st net all deller «	omeunts entered on th	is page.		2 🗀 Son	ne .
	3 Did NOT refer	r to ANY records.					3 🗀 Nor	ne

Health Expense Questionnaire, 1978: Form B

Health care expenses paid for persons in this family

 For each person listed please enter the amount you or this family paid for that person's medical care. Subtract any amount you got back from health insurance. Count only the amount you paid between January 1, 1977 and December 31, 1977. Subtract any amount you got back from health insurance during this period. Please check your bills, receipts or checkstubs. If you do not have bills, receipts or checkstubs, please enter your best estimate. If the person did not have any expenses, mark the "none" box with an "X." 	first name
	last name
AMOUNT PAID FOR DOCTOR EXPENSES Include all expenses related to doctor office visits <u>and</u> the amounts paid for doctors and surgeons while this person was a patient in the hospital.	s or: none
2. AMOUNT PAID FOR HOSPITAL EXPENSES Include all hospital charges except doctor and surgeon fees while this person was a patient in the hospital.	s none
3. AMOUNT PAID FOR DENTAL EXPENSES Include all expenses related to dental office visits for this person.	\$ or: none
T	
4. AMOUNT PAID FOR OPTICAL EXPENSES Include all expenses for having this person's eyes examined for glasses plus the cost of eyeglasses or contact lenses.	or: none
5. AMOUNT PAID FOR PRESCRIPTION MEDICINES Include all expenses for medicine obtained with a doctor's or dentist's prescription for this person.	s or: none
6. AMOUNT PAID FOR OTHER MEDICAL EXPENSES Include any other medical expenses which are not included above. Do this for each person.	s or: none

	N
7. HOW MUCH DID THIS FAMILY SPEND ON HEALTH INSURANCE in 1977 for persons listed on page 2?	
Include:	\
paycheck deductions for health insurance	\
 Social Security check deductions for Medicare 	\$ 5
 amounts paid directly to health insurance plans or to So for Medicare 	ocial Security or: none
Do <u>not</u> include:	
accident insurance	
 amounts your employer or union pays for your health it 	nsurance
	\overline{N}
8. DURING 1977 DID THIS FAMILY PAY ANY MEDI	
EXPENSES FOR PERSONS NOT LISTED ON PA	GE 2?
Como ausamilas.	Please go to
Some examples: • persons living here now, but not listed on page 2	question 9.
 anyone who lived here in 1977, but does not live here no 	ow / NO NO
 children now away at school or elsewhere 	
 parents, other relatives, or friends in nursing homes or el 	Isewhere Please go to question 10.
parents, other relatives, or friends now deceased	
	<u></u>
9. PLEASE ENTER THE TOTAL AMOUNT THIS F	AMILY
PAID DURING 1977 FOR ALL TYPES OF MEDIC	CAL \$
EXPENSES FOR PERSONS NOT LISTED ON	PAGE 2
/Damanahan ta aulatmat amanusta una until a la fai la la la la	or: Inone
(Remember to subtract amounts you get back from health in	surance.)
7	V
	Checked records for all dollar
10. MARK ONE BOX WITH AN "X."	amounts entered on this form,
	Checked records for some amounts.
	Did <u>not</u> check records.
\	
11. ENTER YOUR NAME AND THE NAMES OF	
ALL PERSONS WHO HELPED YOU ANSWER	your name
THE QUESTIONS ON THIS FORM.	>
If any of these persons are <u>not</u> listed on page 2,	your name
do not write their names. Instead, write "friend."	
"sister," "doctor," and so forth.	
\sim	

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