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H E A L T H S T A T I S T I C S

FROM THE U. S. NATIONAL HEALTH SURVEY

LOSS OF TEETH

United States July 1957 - June 1958

Statistics on persons who have lost all of their permanent teeth, by age, sex, residence, region, race, income, education, time interval since last dental visit, and volume of dental visits. Based on data collected in household interviews during July 1957-June 1958.

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Washington, D. C.

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The U. S. National Health Survey is a continuing program under which the Public Health Service makes studies to determine the extent of illness and disability in the population of the United States and to gather related information. It is authorized by Public Law 652, 84th Congress.

CO-OPERATION OF THE BUREAU OF THE CENSUS

Under the legislation establishing the National Health Survey, the Public Health Service is authorized to use, insofar as possible, the services or facilities of other Federal, State, or private agencies. For the Health Interview Survey the Bureau of the Census designed and selected the sample, conducted the household interviews, and processed the data in accordance with specifications established by the Public Health Service.

Public Health Service Publication No. 584-B22

CONTENTS

Selected Findings	1
Source of Data	1
Edentulous Persons	1
Time Interval Since Last Dental Visit and Rate of Dental Visits	3
Detailed Tables	5
Appendix I. Technical Notes on Methods Background of This Report Statistical Design of the Health Interview	18 18
Survey General Qualifications Reliability of Estimates	18 19 19
Appendix II. Definitions of Certain Terms	21
Dental Care Terms	21
Demographic, Social, and Economic Terms	21
Location of Residence Terms	21
Appendix III. Questionnaire	23

EXPLANATION OF SYMBOLS	
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Category not applicable (three dots)	•••
Quantity is zero (1 dash)	-
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Magnitude of the sampling error precludes showing separate estimates	(*)

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LOSS OF TEETH

SELECTED FINDINGS

Loss of teeth occurs most often as the result of two of the most common diseases affecting the American people—dental decay and periodontal disease. During his lifetime, nearly every person has one or both of these ailments, and when treatment is too long delayed, tooth loss results. Accrued tooth loss in individuals leads ultimately to edentulousness—total loss of permanent teeth—and the number and distribution of edentulous persons provide an index to both the prevalence of dental disease and the extent of dental neglect in the U. S. population.

Based on health interviews conducted by the U. S. National Health Survey during July 1957-June 1958, there were approximately 22 million edentulous persons in the United States—13 percent of the population of the Nation. A person was classified as edentulous if he had lost all of his permanent teeth, regardless of whether or not he wore dentures.

Only 4 percent of persons 25-34 years of age were edentulous, but the percent was higher in each succeeding age group, reaching 67 percent for persons 75 years of age and over. In each of the age groups, the proportion edentulous was slightly higher for women than for men.

Rural areas had a somewhat higher percent of edentulous persons than did urban areas and the proportion edentulous was substantially higner in the white population than in the nonwhite population.

In general, the proportion edentulous was smaller among members of high income families than among members of low income families, and smaller for persons in families where the head of the family had at least one year of college than for persons in families where the family head had less education,

SOURCE OF DATA

The information contained in this report was obtained from nationwide household interviews conducted by the U.S. National Health Survey. The survey is continuous, each week covering a random sample of the civilian noninstitutional

This report was prepared by Jane W. Bergsten, of the U. S. National Health Survey staff. population of the United States. This report is based on interviews obtained during the period July 1957-June 1958, during which time interviews were conducted in approximately 36,000 households and included about 115,000 persons.

A description of the survey design, methods used in estimation, and the general qualifications of the data is presented in Appendix I. Particular attention should be given to the section entitled Reliability of Estimates. Since the figures presented are estimates based on a sample of the population, they are subject to sampling error. Although the sampling errors for most of the estimates presented are of relatively low magnitude, where an estimated number or the numerator or denominator of a percent or rate is small, the sampling error may be high.

Definitions of terms used in the report are given in Appendix II. Some of the terms have specialized meaning and a familiarity with the definitions will assist the reader in interpreting the data presented.

The questionnaire used during July 1957-June 1958 is reproduced in Appendix III.

EDENTULOUS PERSONS

Based on interviews conducted during July 1957-June 1958, U. S. National Health Survey data revealed that about 22 million persons, 13 percent of the population of the Nation, were edentulous.

This finding is based on responses to the question "Is there anyone in the family who has lost all of his teeth?" Persons who had lost all of their permanent teeth were classified as edentulous in the survey regardless of whether or not they wore dentures.

The proportion edentulous increased markedly with age, as would be expected. Virtually no one under 15 and only about 1 percent of those 15-24 years of age were edentulous. The proportion edentulous increased to 22 percent for those in the 45-54 year age group and increased to 67 percent for those 75 years of age and over.

The proportion edentulous was higher for women than for men in each of the separate age groups 25 years and above (fig. 1 and table 1). For all ages combined, 14 percent of the female population and 12 percent of the nucle population were edentulous.

The proportion of persons who are edentulous was higher among rural than among urban resi-

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Figure 1. Rate of edentulous persons per 100 population by sex and age.

dents, as may be seen in figure 2. When the population was divided into more detailed residence groups, a clear relationship between the proportion of edentulous persons and degree of urbanization occurred among women in each of the separate age groups. In general, the proportion was lowest among women living "Inside urbanized areas," and highest for rural-farm women. The relationship for men was not as pronounced (table 2).

Data on total number and percent of edentulous persons are presented for the four separate geographic regions of the Nation in table 3. The percent edentulous varied somewhat among the four regions. Within each of the separate age groups 25 years and over, residents of the Northeastern region had the lowest rate and those living in the North Central region had the highest rate of edentulous persons.

There were large differences between the two racial groups with respect to rates of edentulous persons. The proportion of the white population that had lost all of their permanent teeth was much higher than that for the nonwhite population. About 30 percent of white persons aged 45-64 were edentulous, as compared with only 17 percent of nonwhite persons. Corresponding figures for persons 65 years of age and over were 61 percent edentulous for the white population and 43 percent for the nonwhite population (fig. 3 and table 4).



Figure 2. Rate of edentulous persons per 100 population by residence and age.

When the population of the Nation was classified according to family income, differences in the proportion of persons who were edentulous occurred among the various income groups. The higher the family income, the smaller the pro-



Figure 3. Rate of edentulous persons per 100 population by race and age.



Figure 4. Rate of edentulous persons per 100 population by family income and age.

portion of persons in that income group who had lost all of their permanent teeth. Among persons 65 years of age and over, for example, 62 percent ot persons in families with incomes under \$2,000 were edentulous as compared with 55 percent of persons in families with incomes \$7,000 and over (fig. 4 and table 5).



Figure 5. Rate of edentulous persons per 100 population by education of family head and age.

The percent edentulous was also computed for the different groups classified according to the educational attainment of the head of the family. As may be seen in figure 5 and table 6, the percent edentulous first increased and then dropped as the educational level of the family head increased. When family income and education of family head were cross-classified, the "low education-low income" group had the highest proportion edentulous and the "high education-high income" group had the lowest. The two remaining groups occupied middle positions (table 7).

TIME INTERVAL SINCE LAST DENTAL VISIT AND RATE OF DENTAL VISITS

Edentulous persons and persons who had some or all of their natural teeth were classified according to the time interval since their last dental visit in tables 8 and 9 and figures 6 and 7. Any visit to a dentist for treatment or advice was considered to be a dental visit, regardless of whether the service was provided by a dentist himself or by a dental hygienist working under a dentist's supervision.

In each of the separate age groups, 25 years and over, the proportion of edentulous persons who had visited a dentist during the 1-year peri-



Figure 6. Percent of edentulous and other persons who visited the dentist within the past year by age.



Figure 7. Percent of edentulous and other persons who had not visited a dentist within the past 5 years by age.

od prior to interview was substantially below that for the remainder of the population.

The proportion of edentulous persons visiting a dentist within the year decreased with age from 18 percent for persons 25-44 years of age to 7 percent for persons 65 years of age and over (fig. 6). The higher percent of persons with recent dental visits in the younger age groups is undoubtedly due to a comparatively larger proportion among the younger edentulous persons who only recently lost all of their teeth.

For both edentulous persons and persons who had their natural teeth, the percent who had not visited a dentist for 5 years or more increased with age. For edentulous persons the figures varied from 40 percent for persons 25-44 years of age to 69 percent for those 65 years of age and over. Corresponding figures for other persons were 13 percent and 33 percent (fig. 7).



Figure 8. Number of dental visits per person per year for edentulous and other persons by age.

The rates of dental visits for edentulous persons also fell considerably below those for persons with natural teeth. While there was little difference in the rates for persons 25-44 years of age, the differences were considerably larger in the older age groups (fig. 8 and table 10). The decrease in rate of dental visits from 1.5 visits per person per year for those 25-44 years of age to 0.5 visits for those 65 years of age and over, is again probably related to the decrease in the proportion of persons who recently became edentulous. While dental visits for edentulous persons included such services as checkup, denture repair, gum treatment, and fittings for new dentures, they also included visits for tooth extraction and fitting of the initial set of full dentures for persons who recently lost all of their teeth. These latter services generally involve a number of dental visits. Consequently, at those ages where the proportion of persons who recently became edentulous is large, their dental visit rate would be expected to be relatively higher than in groups where persons had been edentulous for some time.

DETAILED TABLES

Table	1.	Number and percent of edentulous persons by sex and age: United States, July 1957-June 1958	6
	2.	Number and rate per 100 population of edentulous persons by residence, sex, and age: United States, July 1957-June 1958	7
	3.	Number and rate per 100 population of edentulous persons by region, sex, and age: United States, July 1957-June 1958	.8
	4.	Number and rate per 100 population of edentulous persons by race and age: United States, July 1957-June 1958	9
	5.	Number and rate per 100 population of edentulous persons by family income and age: United States, July 1957-June 1958	9
·	6.	Number and rate per 100 population of edentulous persons by education of fami- ly head and age: United States, July 1957-June 1958	10
	7.	Number and rate per 100 population of edentulous persons by family income, ed- ucation of family head, and age: United States, July 1957-June 1958	10
	8.	Number of edentulous and other persons by time interval since last dental vis- it, sex, and age: United States, July 1957-June 1958	. 11
•	9.	Percent distribution of edentulous and other persons by time interval since last dental visit according to sex and age: United States, July 1957-June 1958	12
	10.	Number of dental visits and number of dental visits per person per year for edentulous and other persons by sex and age: United States, July 1957-June 1958	13
•		POPULATION	
	11.	Population used in obtaining rates shown in this publication by residence, sex, and age: United States, July 1957-June 1958	14
۰.	12.	Population used in obtaining rates shown in this publication by region, sex,	-

13. Population used in obtaining rates shown in this publication by age and demographic characteristic: United States, July 1957-June 1958-----

and age: United States, July 1957-June 1958-

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Table 1. Number and percent of edentulous persons by sex and age: United States, July 1957-June 1958

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[Data are based on household interviews during July 1957-June 1958 Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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]

	T 1	Edentulous persons				
Sex and age	fotal population	Number (in thousands)	Percent of total population			
Both sexes						
All ages	168,369	21,881	13.0			
)-14	52,637	(*)	(*)			
15-24	21,093	194	0.9			
25-34	22,738	812	3.6			
15-44	22,918	2,196	9.6			
.5-54	19,639	4,390	22.4			
5-64	14,831	5,647	38.1			
5-74	9,627	5,329	55.4			
5 1	4,886	3,287	67.3			
Male						
All ages	81,906	9,730	11.9			
-14	26,839	(*)	(*)			
	9,801	91	0.9			
5-34	10,859	277	2.6			
5-44	11,026	968	8.8			
5-54	9,592	2,103	21.9			
5-64	7,147	2,565	35.9			
5-74	4,511	2,383	52.8			
5+	2,131	1,330	62.4			
Female						
All ages	86,463	12,151	14.1			
-14	25,798	(*)	(*)			
5-24	11,292	102	0.9			
5-345-34	11,880	535	4.5			
	11,892	1,228	10.3			
5-545-64	10,047	2,287	22.8			
	7,685	3,082	40.1			
5-745	5,116	2,947	57.6			
	2,755	1,957	71.0			

Table 2. Number and rate per 100 population of edentulous persons by residence, sex, and age: United States, July 1957-June 1958

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				a ruence	<u> </u>		
Sev and age	:		Urban			Rural	<u></u>
	All areas	Total	Inside urbanized areas	Other urban places	Total	Nonfarm	Farm
		Number	of edentulo	us perso	ns in t	housands	· <u></u>
<u>Both sexes</u>		1	r 'l	1	1	1.1	
All ages	21,881	13,332	9,130	4,202	8,548	5,570	2,978
-24	220	130	91	(*)	90	51	(*)
25-44	3,008	1,629	1,095	534	1,379	917	46
5+	8,616	5,354	4,372	1,781	3,262	2,445	1,106
Male							
	0 720	E 900		1 769	2 0 20	2 502	1 2 2 6
All ages	9,730	5,800	4,032	1,700	3,930	2,392	1,530
)-24	105	66	50	(*)	(*)	(*)	(*)
25-44	1,245	687	469		1 92/	388	L03
5+	3,713	2,203	1,491	713	1,509	998	51
<u>Female</u>						· ·-	
All ages	12,151	7,532	5,099	2,434	4,618	2,978	1,64
	115	64	41	(*)	50	(*)	(*
)-24	1.763	942	626	316	821	529	29
45-64	5,370	3,376	2,350	1,026	1,994	1,259	73
55+	4,903	3,150	2,082	1,068	1,753	1,158	59.
Both sexes			Rate per	100 popu	lation		
All ages	13.0	12.9	12.3	14.7	13.1	12.6	14.
		0.0		(4)	0.0	0.2	(+
)-24	6.6	5.7	5.2		8.0	7.3	9
45-64	29.1	27.4	26.1	31.0	32.5	32.6	32.
5+	59.4	57.6	56.0	60.9	62.6	64.1	59.
Male							· .
All ages	11.9	11.8	11.3	13.1	12.0	11.8	12.
)- 24	0.3	0.3	0.3	(*)	(*)	(*)	(*
25-44	5.7	5.1	4.7	6.3	6.6	6.4	j 7.
45-64	27.9	26.4	25.3	29.6	30.6	32.1	28.
55+	55.9	54.5	53.1	57.7	58.1	61.4	52.
Female							
411 ages	14.1	14.0	13.1	16.3	14.2	13.3	16.
)-24			0.3	(*) 8 2	0.3	(*) 9.2	(*
LJ-44	30.3	28.2	26.8	32.3	34.5	33.1	37

Table 3. Number and rate per 100 population of edentulous persons by region, sex, and age: United States, July 1957-June 1958

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			Region		
Sex and age	All regions	Northeast	North Central	South	West
Both sexes	Number	of edentulo	us person	s in tho	usands
All ages	21,881	5,256	7,248	6,366	3,011
0-24	220	51	68	76 91/	(*)
۲٫۲-44 45-64 ۲٫۲	10,037	2,498	3,240	2,983	1,316
Male	0,010	2,024	2,052	2,472	1,200
All ages	9.730	2.236	3,275	2.833	1.387
0.24	105	(+)		(+)	(+)
25-44	1,245	299	41	328	175
45-64	4,668	1,116	1,510	1,406	636
65+	3,713	793	1,282	1,072	566
Female					
All ages	12,151	3,020	3,973	3,533	1,624
0-24	115	(*)	. (*)	50	(*)
25-44	1,763	383	605	487	289
65+	4,903	1,231	1,610	1,420	642
Both sexes		Rate per	100 popúl	ation	
A11 ages	13.0	12.5	14.4	12.3	12.5
0-24	0.3	0.3	0.3	0.3	(*)
25-44	6.6	5.7	7.7	6.1	6.8
45-64 65+	29.1 59.4	25.0	32.0 62.1	30.3 61.1	29.2 60.5
Male				• •	· ·
A11 ages	11.9	10.9	13.2	11.3	12.0
0-24	0.3	(*)	0.4	(*)	(*)
25-44	5.7	5.3	6.7	5.2	5.4
45-64 65+	27.9 55.9	23.1 48.9	30.2 58.7	29.8 57.1	28.8 59.3
Female			、		
All ages	14.1	14.0	15.5	13.2	13.1
0-24	0.3	(*)	(*)	0.4	(*)
25-44	7.4	6.2	8.6	6.9	8.1
45-64	30.3	26.8		30.7	29.5
ол	02.3	J, ۱۲	05.1	04.0	. 01.0

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Table 4. Number and rate per 100 population of edentulous persons by race and age: United States, July 1957-June 1958

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[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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]

A	Race							
Age	All races	White	Nonwhite	All races	White	Nonwhite		
	Number person	of eden is in tho	tulous ousands	Rate per	100 рор	oulation		
All ages	21,881	20,786	1,095	13.0	13.9	5.9		
0-24 25-44	,220 3,008	200- 2,893	(*) 114	0.3 6.6	0.3 .7.1	(*) 2.4		
45-64 65 1	10,037 8,616	9,508 8,184	529 432	້ 29.1 59.4	30.3 60.6	17.0 43.1		

Table 5. Number and rate per 100 population of edentulous persons by family income and age: United States, July 1957-June 1958

Total Nur 21,881	Under \$2,000 mber of 6,015	\$2,000- 3,999 edentulous	\$4,000- 6,999 persons in	\$7,000+ thousands	Unknown
Nu 21,881	mber of 6,015	edentulous	persons in	thousands	3
21,881	6,015	1 000 1			-
		4,908	6,143	3,037	1,718
220 3,008	(*) 332	43 570	83 1,422	(*) 534	(*) 150
10,037 8,616	1,886 3,759	2,443 1,911	3,233 1,404	1,659 804	816 738
	R	ate per 10	0 populatio	'n	
13.0	23.6	13.8	9.9	8.8	17.1
0.3 6.6	(*) 7.8	0.3 6.5	0.3 7.2	(*) 4.9	(*) 7.1
29.1 59.4	34.3 62.4	32.7 58.4	30.2 58.1	20.8 55.4	29.2 54.7
	3,008 10,037 8,616 13.0 0.3 6.6 29.1 59.4	3,008 332 10,037 1,886 8,616 3,759 R 13.0 23.6 0.3 (*) 6.6 7.8 29.1 34.3 59.4 62.4	3,008 332 570 10,037 1,886 2,443 8,616 3,759 1,911 Rate per 100 13.0 23.6 13.8 0.3 (*) 0.3 6.6 7.8 6.5 29.1 34.3 32.7 59.4 62.4 58.4	3,008 332 570 1,422 10,037 1,886 2,443 3,233 8,616 3,759 1,911 1,404 Rate per 100 population 13.0 23.6 13.8 9.9 0.3 (*) 0.3 0.3 6.6 7.8 6.5 7.2 29.1 34.3 32.7 30.2 59.4 62.4 58.4 58.1	3,008 332 570 1,422 534 10,037 1,886 2,443 3,233 1,659 8,616 3,759 1,911 1,404 804 Rate per 100 population 13.0 23.6 13.8 9.9 8.8 0.3 (*) 0.3 0.3 (*) 6.6 7.8 6.5 7.2 4.9 29.1 34.3 32.7 30.2 20.8 59.4 62.4 58.4 58.1 55.4

(See headnote on table 4)

Table 6. Number and rate per 100 population of edentulous persons by education of family head and age: United States, July 1957-June 1958

[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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] ٦

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	Education of family head							
Age	All educational groups	Under 5 years	5~8 years	9-12 years	College	Unknown		
	Number	of edent	ulous p	ersons	in thousa	nds		
All ages	21,881	2,442	9,894	7,044	1,757	744		
0-24 25-44	220 3,008	(*) 139	67 1,002	107 1,594	(*) 207	(*) 66		
45-64 65 1	10,037 8,616	992 1,281	4,715 4,109	3,223 2,120	784 752	324 352		
	Rate per 100 population							
All ages	13.0	19.0	19.6	9.7	6.2	18.3		
0-24 25-44	0.3 6.6	(*) 6.0	0.3 9.2	0.3 7.1	(*) 2.3	(*) 8.5		
45-64 65+	29.1 59.4	29.8 55.9	35.1 63.2	27.8 58.5	15.6 51.6	29.6 55.1		

Table 7. Number and rate per 100 population of edentulous persons by family income, educationof family head, and age: United States, July 1957-June 1958

(See headnote on table 6)

		Family income and educat: family head				Income		
Age	Total	Under	\$4,000	\$4,	000+	or		
		Under 9 years	9+ years	Under 9 years	9+ years	unknown		
	Number of edentulous persons in thousands							
All ages	21,881	7,638	2,978	3,855	5,136	2,274		
0-24 25-44	220 3,008	46 494	(*) 381	46 589	77 1,341	(*) 202		
45-64 65+	10,037 8,616	3,048 4,049	1,148 1,415	2,279 941	2,511 1,207	1,052 1,004		
			Rate per 1	00 popula	tion			
All ages	13.0	21.9	12.0	15.6	7.2	17.4		
0-24 25-44	0.3 6.6	0.3 7.8	(*) 5.9	0.5 9.6	0.2	(*) 7.4		
45-64 65 +	29.1 59.4	35.3 62.3	29.3 58.3	33.0 58.6	22.0 56.0	29.3 55.1		

Table 8. Number of edentulous and other persons by time interval since last dental visit, sex, and age: United States, July 1957-June 1958

[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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]

Edentulous and other per-	· .	Time	e interva	l since	last de	ntal visi	.t	
sons, sex, and age	Total	Less than 6 months	6-11 months	l year	2-4 years	5 years or over	Never	Unknown
EDENTULOUS PERSONS		Number of e	dentulou	is and ot	her per	sons in t	housand	
Both sexes		÷						
A11 ages	21,881	1,452	903	1,515	4,061	12,940	86	[.] 924
0.24	220	41		(*)	62	(+)	(*)	(+)
25-44	3,008	311	223	357	875	1,200	(*)	(*)
45-64	10,037	693	416	732	2,061	5,809	(*)	308
654	8,610	406	220	389	1,063	5,919	42) 3//
Male							ч	
All ages	9,730	658	393	679	1,829	5,693	41	436
0.34	105	(+)	(+)	(*)	. (+)	(*)	· (+)	(+)
25-44	1.245	122	(*)	(*)	380	480	(*)	(*)
45-64	4,668	331	184	350	995	2,628	(*)	165
65+	3,713	184	. 96	162	422	2,580	(*)	253
Female					•		-	
All ages	12,151	793	509	836	2,233	7,247	45	487
			(1)	(1)		(4.)	(4)	(1)
0-24	1 763	189	(*)	206	(*) //95	(*) 720	(*)	(*) (*)
45-64	5,370	362	232	382	1.067	3,180	(*)	143
65+	4,903	222	124	228	641	3,339	(*)	324
OTHER PERSONS					1 			
Both sexes	n na mana na ma							
All ages	146,488	36,963	22,344	22,130	20,066	11,563	30,308	3,113
0-24	73.510	17.837	10,102	9,183	5.926	1.238	28 299	925
25-44	42,649	11,667	7,962	8,301	8,157	4,347	1,130	1,084
45-64	24,433	6,327	3,691	3,912	4,812	4,325	568	798
65+	5,896	1,132	589	734	1,171	1,653	311	306
Male				· ·			· .	
	72 175	16 853	10 518	10 910	10 103	6.078	15 779	1 936
AII ages	12,115	10,055	10,510	10,510	10,105	0,070	13,773	1,550
0-24	36,535	8,290	4,851	4,551	3,058	655	14,591	540
25-44	20,640	5,140	3,667	4,038	4,038	2,376	639	742
45-64	12,071	2,896	1,711	1,958	2,434	2,213	357	503
0)+	2,929	527	289	363	5/3	833	192	1 151
Female			· .]
			11 00-	11 000	0.000	F /05	1. 500	
All ages	74,313	20,110	11,827	11,220	9,962	5,485	14,530	1,178
0-24	36,975	9,547	5,251	4,632	2,868	583	13,708	385
25-44	22,008	6,528	4,295	4,264	4,119	1,971	491	342
45-64	12,362	3,431	1,980	1,954	2,378	2,112		295
	2,908	605	105	3/1	270	820	119	1

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Table 9. Percent distribution of edentulous and other persons by time interval since last dental visit according to sex and age: United States, July 1957-June 1958

[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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] ٦

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Edentulous and other per-	Time interval since last dental visit							
sons, sex, and age	Total	Less than 6 months	6-11 months	1 year	2-4 years	5 years or over	Never	Unknown
EDENTULOUS PERSONS								
Both sexes								
All ages	100.0	6.6	4.1	6.9	18.6	59.1	0.4	4.2
0.24	100.0	19 6	20.0	(+)	29.2	(+)	(*)	(+)
25-44	100.0	10.3	20.0	11.9	20.2	39.9	(*)	(*)
45-64	100.0	6.9	4.1	7.3	20.5	57.9	(*)	3.1
65+	100.0	4.7	2.6	4.5	12.3	68.7	0.5	6.7
<u>Male</u>		•						
All ages	100.0	6.8	4.0	7.0	18.8	58.5	0.4	4.5
0-24	100.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)
25-44	100.0	9.8	7.4	12.1	30.5	38.6	(*)	(*)
45-64	100.0	7.1	3.9	7.5	21.3	56.3	(*) (*)	3.5
65+	100.0	5.0	2.6	4.4	11.4	69.5	(*)	0.8
Female								
All ages	100.0	6.5	4.2	6.9	18.4	59.6	0.4	4.0
0-24	100.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)
25-44	100.0	10.7	7.4	11.7	28.1	40.8	(*)	(*)
45-64 65+		6.7	4.3	7.1	19.9	59.2 68 1	(*) (*)	
OTHER PERSONS	100.0	4.5	 5	4.7	13.1	0012		
Both seves								
	100.0	25.2	15.3	15 1	13.7	79	20.7	2 1
ALL Ages	100.0	23.2	13.3		13.7		20.7	
0-24	100.0	24.3	13.7	12.5	8.1	1.7	38.5	1.3
	100.0	27.4	18.7	19.5	19.1		2.6	2.5
65+	100.0	19.2	10.0	12.4	19.7	28.0	5.3	5.2
Male		•		•				
All ages	100.0	23.4	14.6	15.1	14.0	8.4	21.9	2.7
0-24	100.0	22.7	13.3	12.5	8.4	1.8	39.9	1.5
25-44	100.0	24.9	17.8	19.6	19.6	11.5	3.1	3.6
45-64	100.0	24.0	14.2	16.2	20.2	18.3	3.0	4.2
65+	100.0	18.0	9.9	12.4	19.6	28.4	0.0	5.2
Female								
All ages	100.0	27.1	15.9	15.1,	13.4	7.4	19.6	1.6
0-24	100.0	25.8	14.2	12.5	7.8	1.6	37.1	1.0
25-44	100.0	29.7	19.5	19.4	18.7	9.0	2.2	1.6
45-64	100.0	27.8	16.0	15.8	19.2	17.1	1.7	2.4
03+	100.0	20.4	10.1	12.5	20.1	27.6	4.0	5.2

Table 10. Number of dental visits and number of dental visits per person per year for edentulous and other persons by sex and age: United States, July 1957-June 1958

[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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]

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Sex and age	Total	Edentulous persons	Other persons	Total	Edentulous persons	Other persons
	Numb	er of dental in millions	visits	Numb pe	er of dental r person per	visits year
Both sexes		1	1		1	ı
All ages	269.2	17.5	251.7	1.6	0.8	1.7
0-24 25-44	115.5 84.6	(*) 4.5	115.0 80.1	1.6 1.9	(*) 1.5	1.6 1.9
45-64 65+	58.2 11.0	8.4 4.2	49.8 6.8	1.7 0.8	0.8 0.5	2.0 1.2
Male						
All ages	114.7	6.8	107.9	1.4	0.7	1.5
0-24	50.3 33.8	(*) (*)	50.0 32.4	1.4	(*) (*)	1.4 1.6
45-64 65+	25.1 5.5	3.3 (*)	21.8 3.6	1.5 0.8	0.7 (*)	1.8
Female						
All ages	154.6	10.8	143.8	1.8	0.9	1.9
0-24 25-44	65.2 50.8	(*) 3.1	65.0 47.7	1.8 2.1	(*) 1.7	1.8 2.2
45-64 65 1	33.1 5.6	5.1 (*)	28.0 3.2	1.9 0.7	0.9 (*)	2.3 1.1

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Table 11. Population used in obtaining rates shown in this publication by residence, sex, andage: United States, July 1957-June 1958

[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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] ٦

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		•	Re	sidence	4		
			Urban		~ -*	Rural	
Sex and age	All areas	Total	Inside urbanized areas	Other urban places	Total	Nonfarm	Farm
Both sexes			Populatio	n in tho	usands	* * .	
All ages	168,369	102,985	74,492	28,493	65,384	44,334	21,049
0-24 25-44	73,730 45,656	42,607 28,347	30,280 21,064	12,327 7,282	31,123 17,310	20,939 12,532	10,184 4,777
45-64 65+	34,470 14,512	22,729 9,303	16,770 6,378	5,959 2,925	11,741 5,210	7,499 3,364	4,242 1,846
Male	· · ·	2					
All ages	81,906	49,098	35,567	13,530	32,808	21,905	10,903
0-24 25-44	36,640 21,885	20,825 13,453	14,766 9,998	6,059 3,455	15,815 8,431	10,493 6,087	5,322 2,344
45-64 65+	16,739 6,641	10,774 4,045	7,994 2,810	2,780 1,236	5,965 2,596	3,700 1,625	2,265 971
<u>Female</u>	•••• ••	• •					
All ages	86,463	53,888	38,925	14,963	32,576	22,429	10,146
0-24 25-44	37,089 23,772	21,782 14,893	15,514 11,066	6,268 3,827	15,308 `8,878	10,445 6,445	4,862 2,433
45-64 65+	17,731 7,871	11,955 5,257	8,776 3,568	3,179 1,689	5,776 2,614	3,799 1,740	1,977 874

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population Reports</u>: Series P-20, P-25, P-50, P-57, and P-60.

Table 12. Population used in obtaining rates snown in this publication by region, sex, and age: United States, July 1957-June 1958

[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional pop-'ulation of the United States. Detailed figures may not add to totals due to rounding. 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 [1]

- :			Region	······································	
Sex and age	A11 regions	Northeast	North Central	South	West
<u>Both sexes</u>		Populatio	on in thou	isands	
All ages	168,369	42,125	50,340	51,903	24,001
0-24 25-44 45-64	73,730 45,656 34,470	16,495 11,870 9,978	21,971 13,583 10,128	24,596 13,379 9,851	10,667 6,824 4,513
<u>Male</u>	81.906	20,487	24.722	25,120	1,577
0-24 25-44	36,640 21,885	8,358 5,680	10,968 6,573	12,167 6,362	5,148 3,270
45-64 65+ <u>Female</u>	16,739 6,641	4,825 1,623	4,997 2,184	4,712 1,879	2,205 955
All ages	86,463	21,637	25,618	26,783	12,425
0-24 25-44	37,089 23,772	8,137 6,190	11,004 7,010	12,429 7,016	5,519 3,555
45-64 65 +	17,731 7,871	5,153 2,157	5,131 2,473	5,139 2,198	2,308 1,042

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NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population Reports</u>: Series P-20, P-25, P-50, P-57, and P-60.

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Table 13. Population used in obtaining rates shown in this publication by age and demographic characteristic: United States, July 1957-June 1958

[Data are based on household interviews during July 1957-June 1958. Data refer to the civilian noninstitutional population of the United States. Detailed figures may not add to totals due to rounding. 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]

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			Age		
Characteristic	All ages	0-24	25-44	45-64	65+
	4	Populati	on in th	ousands	
Total persons	168,369	73,730	45,656	34,470	14,512
Race					
WhiteNonwhite	149,810 18,559	64,074 9,656	40,868 4,788	31,357 3,114	13,511 1,002
Family income					
Under \$2,000 \$2,000-3,999 \$4,000-6,999 \$7,000+ Unknown	25,459 36,051 62,248 34,549 10,062	9,654 16,488 29,475 14,323 3,791	4,282 8,811 19,634 10,804 2,126	5,499 7,481 10,722 7,972 2,797	6,024 3,272 2,417 1,451 1,349
Education of family head				į	
Under 5 years 5-8 years 9-12 years College	12,836 50,497 72,483 28,485 4,067	4,914 19,738 34,684 12,840 1,554	2,305 10,843 22,565 9,165 778	3,326 13,415 11,611 5,023 1,095	2,292 6,501 3,623 1,457 639
Family income and education of family head					-
<u>Under \$4,000</u> Under 9 years 9 + years <u>\$4,000+</u>	34,822 24,853	13, 394 12,041	6,304 6,461	8,623 3,923	6,501 2,428
Under 9 years 9+ years Unknown	24,633 70,971 13,090	10,007 33,360 4,928	6,122 24,022 2,747	6,897 11,434 3,593	1,607 2,155 1,821

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population Reports</u>: Series P-20, P-25, P-50, P-57, and P-60.

APPENDIX I

TECHNICAL NOTES ON METHODS

Background of This Report

This report on Loss of Teeth is one of a series of statistical reports which cover separate healthrelated topics prepared by the U. S. National Health Survey. The report is based on information collected in the continuing nationwide sample Health Interview Survey, which is a main aspect of the program.

The Health Interview Survey uses a questionnaire which, in addition to personal and demographic characteristics, requests information on illnesses, injuries, chronic conditions, medical care, dental care, and hospitalization. As interview data relating to each of these various broad subject areas are tabulated and analyzed, separate reports are issued covering one or more specific topics. The present report on edentulous persons is based on the consolidated sample for 52 weeks of interviewing ending June 29, 1958.

The population covered by the sample for the Health Interview Survey is the civilian population of the United States living at the time of the household interview. Although the sample collection covers persons living as inmates of resident-type institutions, data for these persons are not included in the figures given in these reports. The sample does not include members of the Armed Forces, United States nationals living in foreign countries, and crews of vessels. It should also be noted that the estimates of dental visits shown do not represent a complete inventory of dental visits for any specified calendar period since no adjustment has been made for persons who had dental visits during the reference period and who were not living at the time of the household interview—a time lapse of two weeks.

Statistical Design of the

Health Interview Survey

General plan. — The sampling plan of the survey follows a multistage probability design which permits a continuous sampling of the civilian population of the United States. The first stage of this design consists of an area sample of 372 from among approximately 1,900 geographically defined Primary Sampling Units (PSU's) into which the United States has been divided. A PSU is a county, a group of contiguous counties, or a Standard Metropolitan Statistical Area.

With no loss in general understanding, the remaining stages can be telescoped and treated in this discussion as an ultimate stage. Within PSU's, then, ultimate stage units called segments are defined, also geographically, in such a manner that each segment contains an expected six households in the sample. Each week a random sample of about 120 segments is drawn. In the approximately 700 households in those segments persons are interviewed concerning illnesses, injuries, chronic conditions, disability, and other factors related to health.

The household members interviewed each week are a representative sample of the population so that samples for successive weeks can be combined into larger samples for, say a calendar quarter, or a year. Thus the design permits both continuous measurement of characteristics of high incidence or prevalence in the population, and through the larger consolidated samples more detailed analysis of less common characteristics and smaller categories. The continuous collection has administrative and operational advantages, as well as technical assets, since it permits field work to be handled with an experienced, stable staff.

Sample size and geographic detail.—The national sample plan over a 12-month period includes approximately 115,000 persons from 36,000 households in 6,000 segments, with representation from every State. The over-all sample was designed in such a fashion, that from the annual sample, tabulations can be provided for various geographic sections of the United States and for urban and rural sectors of the Nation.

<u>Collection of data.</u>—The field operations for the household survey are performed by the Bureau of the Census under specifications established by the Public Health Service. In accordance with these specifications the Bureau of the Census designs and selects the sample, conducts the field interviewing, and edits and codes the questionnaires. Tabulations are prepared by the Public Health Service using the Bureau of the Census electronic computers.

Estimating methods, —Each statistic produced by the survey—for example, the number of edentulous persons—is the result of two stages of ratio estimation. In the first of these, the ratio factor is 1950 decennial population count to estimated population for 1950 for the U. S. National Health Survey's first-stage sample of PSU's. These factors are applied separately for more than 50 color-residence classes.

Later, ratios of sample-produced estimates of the population to official Bureau of the Census figures for current population in 76 age-sex-color classes are computed, and serve as second-stage factors for ratio estimating.

The effect of the ratio estimating process is to make the sample more closely representative of the population by age, sex, color, and residence, thus reducing sampling variance.

For prevalence statistics, such as number of edentulous persons, figures are first calculated for each calendar quarter by averaging estimates for all weeks of interviewing in that quarter. Prevalence data for a year are then obtained by averaging the four quarterly figures.

For statistics measuring the number of occurrences during a specified time period, such as number of dental visits, a similar computational procedure is used, but the statistics have a different interpretation. For one of the dental visits items, the questionnaire asks for the respondent's experience over the two calendar weeks prior to the week of interview. In such instances, the estimated quarterly total for the statistic is simply 6.5 times the average two-week estimate produced by the 13 successive samples taken during the quarter.

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 two-calendar-week interval prior to week of interview—is treated in analysis as though it measured the total of such experience occurring in the year. Such interpretation leads to no significant bias.

The interviewing and estimation procedure, as noted earlier, are designed to reproduce the experience in the reference period of the questionnaire for the population living at the time of interview.

General Qualifications

Nonresponse.—Data were adjusted for nonresponse by a procedure which imputed to persons in a household not interviewed the characteristics of interviewed persons in the same segment. The total noninterview rate was 6 percent; 1 percent was refusal, and the remainder was accounted for by all other reasons, such as failure to find any household respondent after repeated trials.

The interview process.—The statistics presented in this report are based on replies secured in interviews of persons in the sampled households. Each person 18 years and over, available at the time of interview, was interviewed individually. Proxy respondents within the household were employed for children and for adults not available at the time of the interview, provided the respondent was closely related to the person about whom information was being obtained.

<u>Rounding of numbers</u>, — The original tabulations on which 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 or tenth of million. Because of sampling error, however, they are not necessarily accurate to that detail. Derived statistics such as rates and percent distributions are computed after the estimates on which they 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 over-all totals by age, sex, and color, (which are adjusted to independent estimates), these figures are based on the sample of households in the U. S. National Health Survey. They are given primarily for the purpose of providing 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. In some instances they will permit users to recombine published data into classes more suitable to their specific needs. With the exception of the over-all totals by age, sex, and color, mentioned above, the population figures may in some cases differ from corresponding figures (which are derived from different sources) published in reports of the Bureau of the Census. For population data for general use, see the official estimates presented in Bureau of the Census reports in the P-20, P-25, P-50, P-57, and P-60 series.

Reliability of Estimates

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Since the estimates 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 measurement error. 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 lie 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.

The estimates of standard errors shown in tables I and II are approximations for the 372-area sample and may be used by the reader to determine standard errors for the statistics presented in this report.

Table I. Standard errors of estimates of aggregates

(All numbers sho	wn in thous	ands)
	Standar	d error
Size of estimate	Number of persons in a pop- ulation group (a)	Number of dental visits (b)
100	22	
500	50	
1.000	- 70	430
2,000	. 100	600
3,000	120	. 750
5,000	160	1,000
10,000	220	1,300
20,000	300	1,900
- 30,000	330	2,250
50,000	350	3,000
100,000	400	4,500
200,000	•••	6,500
500,000		11,250
750,000	•••	14,700
1,250,000	•••	20,750

<u>Illustration of use of table 1.</u>—The number of edentulous women in the Nation was 12,151,000. Since this is an estimate of an aggregate and designates the number of persons in a population group, column (a) of table I is appropriate. Reading from this column, a statistic of 10,000,000 has a standard error of 220,000 and a statistic of 20,000,000 has a standard error of 300,000. Interpolating between these values, the appropriate standard error of the estimated 12.151,000 is 237,000.

In order to derive standard 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 tables of standard errors shown in this report should be interpreted as providing an estimate of approximate standard error rather than as the precise standard error for any specific statistic. The following guides will enable the reader to determine the sampling errors for the data contained in this report.

- 1. Approximate standard errors for estimates of the number of dental visits and the number of persons in a population group¹ are obtained from the appropriate columns of table I.
- Approximate standard errors for percentage distributions of dental visits or of persons in a population group¹ are given in table II.
- A rough approximation of the standard errors for rates showing the number of dental visits per person per year for edentulous and for other persons² are obtained by

¹The number and percentage distribution of persons in an age, sex, or color group, or the total number of persons in the population are not subject to sampling error because of adjustment to official Bureau of the Census figures.

²Note that where the rate refers to a group of persons with a specific characteristic obtained from the survey (e.g., edentulous persons), rule 3 applies, even if the group is further subdivided by age, sex, or color.

taking the square root of the sum of the squares of the standard error of the numerator used in obtaining the rate divided by the numerator itself and the standard error of the denominator used divided by the denominator itself, and then multiplying by the rate. This computation will normally give an overestimation of the true sampling error. Example: The number of dental visits per person per year for edentulous persons 45-64 years of age is 0.8 visits. The numerator used in obtaining the rate is 8,400,000 visits (table 10), and the denominator is 10,037,000 persons (table 2). The standard error of the numerator is 1,204,000 visits (from Appendix table 1), and the standard error of the denominator is 220,000 persons (from Appendix table 1), Carrying out the computations for

$$0.8 \times \sqrt{\left(\frac{1,204,000}{8,400,000}\right)^2 + \left(\frac{220,000}{10,037,000}\right)^2}$$

gives 0.1 as the approximate standard error for a rate of 0.8 visits. c

Table II. Standard errors of estimated percentages based on number of persons in a population group or number of dental visits (body of table expressed in percentage points)

Estimated percentage				Base of	percent	age (base	is shown	in thous	ands)		
Population group	100	500	1,000	2,000	3,000	5,000	10,000	20,000	30,000	50,000	100,000
Dental visits	2,500	12,500	25,000	50,000	75,000	125,000	250,000	500,000	750,000	1,250,000	
2 or 98	3.6	1.6	1.1	0.8	0.7	0.5	0.4	0.3	0.2	0.2	0.1
5 or 95	5.6	2.5	1.8	1.3	1.0	0.8	0.6	0.4	0.3	0.3	0.2
10 or 90	6.8	3.0	2.1	1.5	1.2	1.0	0.7	0.5	0.4	0.3	0.2
25 or 75	9.8	4.4	3.1	2.2	1.8	1.4	1.0	0.7	0.6	0.4	0.3
50	12.9	5.8	4.1	2.9	2.4	1.8	1.3	0.9	0.7	0.6	0.4

<u>Illustration of use of table 11.</u>—Of the 269,200,000 dental visits made during July 1957-June 1958, 7 percent were made by edentulous persons. Since this is a percentage based on dental visits, table 11 is appropriate. Since neither of these values can be read directly from the table, interpolation may be carried out as follows: for a base of 250,000,000 a statistic of 5 percent has a standard error of 0.6 percentage points, and a statistic of 10 percent has a standard error of 0.7 percentage point. Interpolations with a base of 250,000,000 a statistic of 7 percent would have a standard error of 0.64 percentage points. Corresponding calculations with a base of 250,000,000 produce a standard error of 0.44 percentage points. A final interpolation between these two results yields an estimated 0.62 percentage points which rounds to 0.6 as the approximate standard error for a statistic of 7 percent with a base of 269,200,000. Interpolation has been carried out in two dimensions in the example. For most purposes, a simple scanning of the table will reveal an approximate approximate and percentage reverses a simple scanning of the table will reveal an approximate approximate and percentage points.

APPENDIX II

DEFINITIONS OF CERTAIN TERMS USED IN THIS REPORT

Dental Care Terms

<u>Edentulous persons</u>.—Persons who have lost all of their permanent teeth are classed as edentulous persons. An edentulous person may have dentures but does not have any natural teeth.

Dental visits.—Each visit to a dentist's office for treatment or advice is considered to be a dental visit. The visit may involve services provided directly by the dentist or by a dental hygienist acting under a dentist's supervision. Services provided while a person was a patient in a hospital for overnight or longer are not considered to be dental visits.

<u>Time interval since last dental visit</u>.—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.

The interval is recorded to the nearest month for periods of a month or more but less than a year, and to the nearest year for periods of a year or more.

Demographic, Social, and Economic 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 upon the purpose of the table.

Race.—In this report, the population has been subdivided into two groups according to race, "White" and "Nonwhite." "Nonwhite" includes Negro, American Indian, Chinese, Japanese, and so forth. Mexican persons are included with "White" unless definitely known to be Indian or other nonwhite race,

<u>Family income</u>.—Each member of a family is classified according to the total income of the family of which he 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 income.

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 ending with the week of interview. Income from all sources is included, e.g., wages, salaries, rents from property, pensions, help from relatives, and so forth.

Education of family head,—Each member of a family is classified according to the education of the head of the family of which he 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,

The categories of educational status show the highest grade of school completed. Only grades completed in regular schools, where persons are given a formal education, are included. A "regular" school is one which 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.

Location of Residence Terms

<u>Urban residence.</u>—The definition of urban areas used in the U. S. National Health Survey is the same as that used in the 1950 Census. According to this definition, the urban population comprises all persons living in (a) places of 2,500 inhabitants or more incorporated as cities, boroughs, and villages; (b) incorporated towns of 2,500 inhabitants or more except in New England, New York, and Wisconsin, where "Towns" are simply minor civil divisions of counties; (c) the densely settled urban fringe, including both incorporated and unincorporated areas around cities of 50,000 or more; and (d) unincorporated places of 2,500 inhabitants or more outside any urban fringe.

In this report, the urban population has been subdivided into those living "Inside urbanized areas" and those living in "Other urban places."

Inside urbanized areas, —Following the definition used in the 1950 Census, the population in urbanized areas comprises all persons living in (a) cities of 50,000 inhabitants or more in 1940 or according to a special census taken between 1940 and 1950; and (b) the densely settled urban fringe, including both incorporated and unincorporated areas, surrounding these cities,

Other urban places.—The remaining urban population not classified as living "Inside urbanized areas" is classified as living in "Other urban places."

<u>Rural residence.</u>—The remaining population not classified as "Urban" is classified as "Rural," In this report the rural population has been subdivided into "Rural farm" and "Rural nonfarm,"

Rural farm,-All rural residents living on farms are classified as "Rural farm." In deciding whether members of a household reside on a farm or ranch. the statement of the household respondent that the house is on a farm or ranch is accepted, with the following exception. A house occupied by persons who pay cash rent for the house and yard only is not counted as a farm or ranch even though the surrounding area is farm land. This special case does not cover: (1) the living quarters of a tenant farmer who rents farm land as well as house and yard; (2) the quarters of a hired hand who receives living quarters on a farm as part of his compensation or (3) separate living quarters inside a structure which is classified as on a farm. In all these cases the living guarters are counted as on a farm.

<u>Rural nonfarm.</u>—The remaining rural population not classified as "Rural farm" is classified as "Rural nonfarm."

<u>Region</u>,—For the purposes of classifying the population by geographic area of residence, the National Health Survey uses the same grouping of states used by the Bureau of the Census and many other agencies. The four major regions are:

South

Region	States included		•	Georgia, Florida
Northeast	Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York,			Arkansas, Lousi Texas
	New Jersey, Pennsylvania	West		Montana, Idaho, Colorado, New I
North Central	Michigan, Ohio, Indiana, Illinois, Wisconsin, Minnesota, Iowa,			Utah, Nevada, W California

Missouri, North Dakota, South Dakota, Nebraska, Kansas

Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Lousiana, Oklahoma, Texas

Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, California

APPENDIX III

QUESTIONNAIRE

The items below show the exact content and wording of the questionnaire used in the household survey. The actual questionnaire is designed for a household as a unit and includes additional spaces for reports on more than one person.

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18. (2)	•						MEDICAL	CARE					
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1. (8) 1 11 *	Last weeko "Yee"	ar the week	before did		sin the f	Cumily go to a	deutist? A	NAME CINC 1					186
(b)	How many t	ines durin	g the past	2 week	8?						-	<u></u> !	to, of time
2. mat	t did you b	nne visit:									- E E		
			. (n	rst_)									
The	t did you b	75A6 QODE 0	n the {set (et	c.)	V18117							Treatment	t for guine
	· · ·					_					1000	Dther (S	pacify)
11 -	"No" to q.	216, 65k;		* *** *	A-11-13						<u> </u>	No. or	
	TOOL LING 1											han ieo.	Hever
4. Is (there myon	se in the f	(amily who (bas los	st all of	his teeth?					C 100	-	
							BOSPITAL	CARE					
25. (a)	DURING THE	PAST 12	ONTHS bas		in the f	mily been a	patient is a				Tes (1	whie II)	
11 -	"Yes": Box many (or longer?	homit	-19						+		Ro. of tim
26. (a)	During the	e past 12 e	withs has	BEJORC	in the f	amily been a	patient in a	sursing	- <u></u> .		- Tes (1	able II)	
Dome of secilarity (LTICS? () He new time sets we is a section from or continuity											h		
=====	BOM BHEY	LINES VER	yod 18 8 8	arenag	and of								
27. Dat the spe	ring the pa st is, your ch as wage	est iz mont r's, your es, salarie	hs in which -'s, etc.? is, rents f	6 group (Show rom pro	Card B) perty, pr	Include inc ensions, help	of your famili une from all o from relative	ly Tall, Boarces, es, etc.					
					Tab	le I e III	NESSER TI	PATRENTS AN	ACCIDEN	16		_	
		Tf 6 ye	ara old	Did	ron first	t notice	To Inter-	Did you first	Then did	00 900	About how	Please	11 -1."
any lavs.	of these	or one	r, 838;	DURD	NG THE PA	AST 3 MONTES	viewer:	DURING THE	yon last talk to a	still take any	many days during the	this	or "2"
nclud	were you is bed	or the	in col.	Orri		Did start	If Col. (k) in	or before that	doctor about?	nedicine or treat-	past 12 months, has	read	(r) ask:
be 2 res-	all or most of	before would you	How many			inring the par t weeks or	at checked	cimer	(Month and	the doctor	you in bed	state-	Please
ends?	LDB GRY7	have been working	keep	3	Jurine b	before that Line?	1s on	(If during past I3 months, ask):	only if	for7	aost of the	Then tell	this card and
		at a job or busi-	work	aon uns	. ((if during pas	it of Cards	Thich south?	1950)	Or, follow any advice		state-	tell me
		ness (going to	school)?	10	2	2 veels, ssl):	continue;			pe save.		you best.	these state-
(going to) school)? to continue; continue; be gaver (school) col. Which week, last otherwise,												(Snow	ments
	except (n)) week or the STUP for?									•		Cards C-	fits you
	1	for?	ţ	1	1 6							P. as appro-	fits you best.
		for?	ţ						-			Cards C- P, as appro- priate)	fits you best. (Show Card G)
(4)	(b)	for?	a	(4)	(1)	(=)	(88)	(8)	- (0)	(P)	(q)	Cards C- P, as appro- priate) (T)	fits you best. (Show Card G) (S)
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Gard-A	Card C	Card E	Card G
NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY
Check List of Chronic Conditions	For 1	for :	•
1. Asthma16. Kidney stones or other kidney trouble2. Any allergy17. Arthritis or rheumatism3. Tuberculosis17. Arthritis or rheumatism4. Chronic bronchitis18. Prostate trouble5. Repeated attacks of sinus trouble19. Diabetes6. Rheumatic fever20. Thyroid trouble or goiter7. Hardening of the arteries21. Epilepsy or convulsions of any kind8. High blood pressure21. Epilepsy or convulsions of any kind9. Heart trouble22. Mental or nervous trouble with varicose veins1. Trouble with varicose veins23. Repeated trouble with back or spine4. Stomach ulcer24. Tumor or cancer 5. Any other chronic5. Any other chronic26. Hernia or rupture	 Workers and other persons except Housewives and Children 1. Cannot work at all at present. 2. Can work but limited in amount or kind of work. 3. Can work but limited in kind or amount of outside activities. 4. Not limited in any of these ways. 	 Children from 6 to 16 years old and others going to school 1. Cannot go to school at all at present time. 2. Can go to school but limited to certain types of schools or in school attendance. 3. Can go to school but limited in other activities. 4. Not limited in any of these ways. 	 Confined to the house all the time, except in emergencies, Can go outside but need the help of another person in getting around outside. Can go outside alone but have trouble in getting around freel Not limited in any of these ways
BER B	Card D	Card F	Card H
RATIONAL REALIN SURVET	RATIONAL HEALTH SURVET	RATIONAL HEALTH SURVEY	RAILORAL REALIN SURVEY
 Deafness or serious trouble with hearing Serious trouble with seeing, even with glasses Condition present since birth, such as cleft palate or club foot Stammering or other trouble with speech Missing fingers, hand, or arm Missing toes, foot, or leg Cerebral palsy Paralysis of any kind Any permanent stiffness or deformity of the foot or leg, fingers, arm, or back 	 Cannot keep house at all at present. Can keep house but limited in amount or kind of housework. Can keep house but limited in outside activities. Not limited in any of these ways. 	 Cannot take part at all in ordinary play with other children. Can play with other children but limited in amount or kind of play. Not limited in any of these ways. 	 12 months Under \$500 (including loss) \$500 - \$999 \$1,000 - \$1,999 \$2,000 - \$2,999 \$3,000 - \$3,999 \$4,000 - \$4,999 \$5,000 - \$6,999 \$7,000 - \$9,999 \$10,000 and over

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