



Oral Health of United States Adults

The National Survey of Oral Health in U.S. Employed Adults and Seniors: 1985-1986

Public Use Data File Documentation and Survey Methodology

Part II: Seniors

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
National Institutes of Health



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For Administrative Use Only

Epidemiology and Oral Disease Prevention Program
National Institute of Dental Research

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Acknowledgments

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Foreword

In the early 1980s, evaluations of available information on the oral health of U.S. adults revealed major gaps in our knowledge of the epidemiology of coronal caries, root surface caries, and periodontal diseases. To fill in these gaps, the National Institute of Dental Research (NIDR) began planning a comprehensive survey to assess the oral health status of adult Americans. Survey objectives were developed, diagnostic criteria finalized, sampling and data collection procedures tested, field logistics evaluated, and data dissemination plans outlined.

In 1985-86, the National Survey of Oral Health in U.S. Employed Adults and Seniors was conducted. Data dissemination began in March 1987, when provisional results from the survey were presented to the annual meeting of the International Association for Dental Research. In August 1987, a monograph entitled "Oral Health of United States Adults 1985-86" was released. The monograph presented national estimates of edentulism, dentulism, coronal and root surface caries, and periodontal diseases in employed adults aged 18 to 65 and in senior citizens aged 65 and older. A companion volume, published in 1988, reported regional findings for each of the seven geographic areas into which the country was stratified in the survey design. The results of more detailed analyses have appeared in refereed journals, and on several occasions NIDR staff have prepared special tabulations for use by outside investigators. From the beginning, however, a major objective of the data dissemination plan for the survey was to make the data available to outside investigators in the form of public use microdata files.

This objective has been met with the publication of "Public Use Data File Documentation and Survey Methodology Part I: Employed Adults" and "Public Use Data File Documentation and Survey Methodology Part II: Seniors." To make these documentations as complete and user-friendly as possible, essential information for accurate use of the data file has been complemented by ancillary information about the survey design, field procedures, and appropriate approaches to weighting the data and to computing estimates of sampling errors for specific parameters. A bibliography of selected references has also been included to direct users to previous analyses of the data and to help identify substantive and methodological considerations that may be applicable to particular uses of the data.

The files from the National Survey of Oral Health in U.S. Employed Adults and Seniors are excellent examples of the kind of data sharing that is feasible and that ought to become more routine. Although these files are not the first public use data files to be released by the National Institutes of Health (NIH), they are the very first public use microdata files to be released by NIH to the National Archives under NIH's new Guideline 3000-G-4 for permanent data files.

Finally, the publication of these volumes marks the initiation of the NIDR's Public Use Microdata Release Program. Parallel efforts are currently under way to develop public use microdata files for previous and recent surveys of caries in U.S. schoolchildren. As these

public use microdata files become available, the need for oral health data users' workshops is anticipated and these will be encouraged.

Many individuals within and outside the Institute have contributed to the completion of these data files. To all I extend the appreciation of the NIDR.

A handwritten signature in black ink, reading "Harald Loe". The signature is written in a cursive, flowing style.

Harald Loe, D.D.S.

Director

National Institute of Dental Research

TABLE OF CONTENTS

Sections	Pages
Foreword	iii
I. Introduction	1
II. Sample Design	5
III. Public Use Data File Description	9
IV. Definitions for Selected Data Items and Summary Recodes for Clinical Assessments	249
V. Administration and Procedures	251
VI. Oral Examination Criteria and Quality Control	255
VII. Data Analysis and Variance Estimation	257
Appendix I. Diagnostic Criteria	263
II. Glossary	275
III. References	277

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Public Use Data File Documentation and Survey Methodology

Part II: Seniors

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National Institute of Dental Research
National Institutes of Health

I. INTRODUCTION

The file documentation presented in this manual pertains to epidemiologic data collected through the National Survey of Oral Health in U.S. Employed Adults (OHEA) and Seniors (OHS) which was sponsored by the Epidemiology and Oral Disease Prevention Program of the National Institute of Dental Research (NIDR), National Institutes of Health, U.S. Public Health Service. The survey was conducted by Westat, Inc., of Rockville, MD, under contract number N01-DE-42553 between June 1984 and December 1986.

The survey was designed to establish the prevalence of coronal caries, root surface caries and periodontal destruction in a readily accessible adult population with sufficient precision to permit future detection of changes by geographic region and within 5-year age intervals. This survey was the first national study to provide information on both coronal and root caries and to measure periodontal destruction. Data were collected from two distinct populations: employed adults who were given oral health examinations within their employment settings, and adults age 65 and over who were examined in a sample of senior centers located in the same counties or contiguous counties, which were the primary sampling units (PSUs). Identical survey instruments were used with the two groups for collecting and recording

demographic and clinical data. The samples included a total of 15,132 employed adults and 5,649 seniors. A total of 20,781 dental examinations were conducted in 994 facilities, including 786 participating businesses and 208 senior centers.

Survey Objectives

The objectives of this survey were

- to provide estimates of the prevalence of oral disease;
- to detect variations in caries and periodontal destruction by geographic region;
- to provide a basis for assessment of the effects of implementing new caries and periodontal prevention measures; and
- to identify groups with high levels of disease so that preventive research strategies can be developed.

The documentation for these two surveys is presented in two separate volumes, each of which corresponds to one of the two groups in the study. Each volume contains a detailed description of the data files, as well as similar information on the overall survey design and administration, field procedures, and the oral examination quality control procedures. Parallel sampling procedures, which differed for the two groups, are presented in the appropriate volume. Each volume also includes a glossary and references.

Description of Survey Data

The information provided herein regarding the description and methodology of the survey is intended to provide the researcher with the knowledge needed for independent and appropriate use of the data. This document will also allow researchers to evaluate the strengths and limitations of the data. Adequate computer and statistical resources to manage data from a complex sample survey effectively and efficiently are necessary.

With the goal of mutual benefit, the NIDR requests that users of these data cooperate in certain actions:

- The National Institute of Dental Research is responsible for only the initial data. Any published material derived from these data should acknowledge the NIDR as the original source. It should also include a disclaimer that credits any analyses, interpretations, or conclusions reached to the author and not to the NIDR. An example of this citation is shown below.

The National Survey of Oral Health of Employed Adults and Seniors was conducted by the National

Institute of Dental Research, National Institutes of Health, Public Health Service, Department of Health and Human Services, 1985-86.

- Users who wish to publish technical descriptions of the data should make a reasonable effort to ensure that their descriptions are consistent with those published by the NIDR. The NIDR is not obligated to review such descriptions, however.

II. SAMPLE DESIGN

Sampling Frame

The sampling frame for the survey of seniors was multipurpose senior centers within the primary sampling units selected for the employed adults survey. Senior centers were defined as community facilities where older persons, as individuals or in groups, came together for services and activities such as educational programs, creative arts, health services or work. A complete list of senior centers within each of the 70 first-stage areas was obtained from 151 area agencies on aging.

Stages of Sample Design

The sample of seniors was selected through the use of a three-stage sample design that comprised, successively,

- (1) *Primary sampling units (PSUs)*—counties, or groups of contiguous counties.
- (2) *Senior centers* located within PSUs chosen with probability proportionate to size.
- (3) *A quota sample of persons 65 years of age and over who attended the centers.*

The counties or groups of counties designated as PSUs were those selected in the OHEA. The PSUs were stratified, to the extent practicable, to select the sample with probability proportionate to size. The stratification variables were

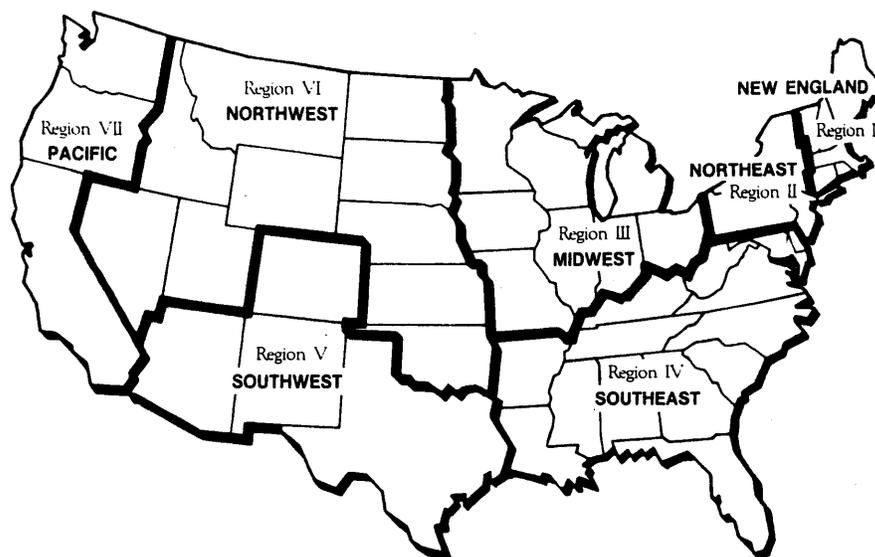
- standard metropolitan statistical areas (SMSAs) vs. non-SMSAs;
- percent urban;
- income;
- percent establishments with 100+ employees; and
- percent minority employees.

The sample sizes for seniors are summarized as follows:

	In U.S.	Per Region
Number of first-stage units	70	10
Number of centers	208	30
Average number of persons examined per center	27	27
Total number of persons examined	5649	812

Geographic Regions for the Survey

The 48 contiguous States (Alaska and Hawaii were excluded) were divided into geographic regions to coincide with those of the 1979-80 survey of school children and the 1985-86 survey of employed adults.



Region I—New England:

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont

Region II—Northeast:

New Jersey, New York, and Pennsylvania

Region III—Midwest:

Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin

Region IV—Southeast:

Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia, and the District of Columbia

Region V—Southwest:

Arizona, Colorado, New Mexico, and Texas

Region VI—Northwest:

Idaho, Kansas, Montana, Nebraska, Nevada, North Dakota, Utah, and Wyoming

Region VII—Pacific:

California, Oregon, and Washington

For each geographic region, the final selected sample included 10 representative PSUs.

Weighting the Sample

The sampled seniors were weighted to population estimates of persons 65 years of age and over who attended a senior center in the previous 12 months. These estimates were obtained from the 1984 National Health Interview Supplemental Survey on Aging conducted by the National Center for Health Statistics. Sample counts were adjusted to population estimates in two stages. Counts were first adjusted by age (65-74 and 75+), gender and residence in New York City; then, a poststratification adjustment was made to 16 age-gender-race cells provided by the Supplement on Aging. For the senior sample, the age categories were 65-74, 75-79, 80-84, 85+ and the racial categories were "white" or "black/other."

Errors in the Data Set and Published Differences

The data have been subjected to a great deal of careful editing. However, due to the large volume of data, a small number of errors or discrepancies potentially remain undetected. Any such errors should be brought to the attention of the NIDR so that new corrected copies of the file can be created and errata sheets issued.

In general, differences shown by comparisons between these data and previously published results have been attributed to analytical decisions, such as the exclusion of certain sample cases, and the methodology for handling missing data.

The file contains 5,649 records, containing 892 characters each. A detailed file description (location, description, and codes; number of records with specific codes) is followed by selected file location detail and summary tables.

III. PUBLIC USE DATA FILE DESCRIPTION

File Subsection	Page
SOCIODEMOGRAPHIC CHARACTERISTICS AND DENTAL HISTORY	11
CORONAL CARIES SURFACE ASSESSMENT	25
ROOT CARIES ASSESSMENT	111
CORONAL ASSESSMENT TOOTH CALLS	187
PERIODONTAL DESTRUCTION ASSESSMENTS	199
QUADRANTS	199
GINGIVAL ASSESSMENT	201
CALCULUS ASSESSMENT	211
LOSS OF ATTACHMENT ASSESSMENT	217
SUMMARY CLINICAL VARIABLES	237
PERSON SAMPLING WEIGHT AND VARIANCE ESTIMATION VARIABLES	241
Table 1. Racial Composition of the Sample and Estimated Population by Age Interval and Gender	246
Table 2. Number of Persons and Estimated Population With Decayed and Filled Teeth (DFT) and Decayed and Filled Surfaces (DFS)	247

**SOCIODEMOGRAPHIC CHARACTERISTICS
AND DENTAL HISTORY**

1-48

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	SOCIODEMOGRAPHIC CHARACTERISTICS	
1	Region	
	1 - New England	744
	2 - Northeast	640
	3 - Midwest	757
	4 - Southeast	772
	5 - Southwest	925
	6 - Northwest	816
	7 - Pacific	995
2-3	Primary Sampling Unit Identification	
	[01-99]	5649
4-5	Cluster Identification	
	[01-99]	5649
6-8	Senior Center Identification	
	[101-999]	5649
9	Size of Facility	
	1 - 10-49 Seniors	1514
	2 - 50-99 Seniors	2895
	3 - ≥100 Seniors	1240
10-12	Person Identification	
	000-999	5649
13	Gender	
	1 - Male	1899
	2 - Female	3750
14-15	Age	
	65-96 - Actual age in years	5649

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
16-17	Age Recode 01 - 65-69 02 - 70-74 03 - 75-79 04 - 80-84 05 - 85+	1567 1643 1324 751 364
18-19	Race (Self-determined) 01 - White, not Hispanic 02 - White, Hispanic 03 - Black, not of Hispanic origin 04 - Black, Hispanic origin 05 - American Indian or Alaskan Native 06 - Asian or Pacific Islander 10 - Other 97 - Refused 98 - Don't know 99 - Not ascertained	4469 357 613 42 35 31 0 3 0 99
20	Hispanic Ancestry 1 - Hispanic 2 - Non-Hispanic 9 - Unknown	399 5148 102
21	Education (Years of Schooling) 1 - Less than 8 years 2 - 8 through 11 years 3 - 12 years or equivalent 4 - More than 12 years 5 - 13 through 15 years 6 - 16 years or more 7 - Refused 8 - Don't know 9 - Not ascertained	1408 1744 1235 471 338 360 2 2 89

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
22-23	Number of Persons Living in Household 01-17 - Actual number of persons 99 - Not ascertained	 5396 253
24-25	Household Income (total yearly) 01 - Under \$ 2,500 02 - \$2,500 - \$7,499 03 - \$7,500 - \$12,499 04 - \$12,500 - \$19,999 05 - \$20,000 - \$29,999 06 - \$30,000 - \$39,999 07 - \$40,000 - \$49,999 08 - \$50,000 and over 97 - Refused 98 - Don't know 99 - Not ascertained	 555 2261 1326 598 254 99 30 26 36 54 410
26-27	Household Income Recode 01 - < \$7,500 02 - \$7,500 - \$19,999 03 - \$20,000 and over 09 - Refused, don't know, not ascertained	 2816 1924 409 500
28-30	Occupation Code 005-889 - Occupation (Occupation codes are from the 1980 Census of Population, Alphabetical Index of Industries and Occupations.) 996 - Retired person 997 - Refused 998 - Don't know 999 - Not ascertained	 585 4975 0 0 89

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
31	Covered by Dental Insurance (Partial or full payment including Medicare or Medicaid) 1 - Yes 2 - No 7 - Refused 8 - Don't know 9 - Not ascertained	 1786 3660 1 19 183
32	Interval Since Last Dental Visit 1 - Less than 12 months 2 - 1 - 2 years 3 - 3 - 5 years 4 - More than 5 years 5 - Never received dental care 7 - Refused 8 - Don't know 9 - Not ascertained	 2040 1036 742 1584 122 1 2 122
33	Last Dental Visit Interval Recode 1 - Less than 12 months 2 - 1 - 5 years 3 - More than 5 years or never 9 - Don't know, refused, not ascertained	 2040 1778 1706 125

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
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FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
34-35	First Reason for Last Dental Visit	
	01 - No visit	122
	02 - Regular checkup	1117
	03 - Teeth cleaned	685
	04 - Teeth filled/broken tooth	418
	05 - Teeth pulled or other surgery	816
	06 - Toothache	54
	07 - Adjustment or repair of denture/ bridgework	852
	08 - Have a denture made	1185
	09 - For a prescription	1
	10 - Bleeding gums or periodontal disease	56
	11 - Loose teeth	42
	12 - Problems with wisdom teeth	12
	13 - Other reasons	11
	14 - Orthodontics	4
	15 - Caps and crowns/bonding	32
	16 - Root canal	16
	17 - Abscess	2
	18 - Temporomandibular joint (TMJ)	1
	19 - Accident [Type of injury not specified]	0
	97 - Refused	1
	98 - Don't know	9
	99 - Not ascertained	213

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
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FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
36-37	Second Reason for Last Dental Visit 01 - Inapplicable or only one reason given 02 - Regular checkup 03 - Teeth cleaned 04 - Teeth filled/broken tooth 05 - Teeth pulled or other surgery 06 - Toothache 07 - Adjustment or repair of denture/ bridgework 08 - Have a denture made 09 - For a prescription 10 - Bleeding gums or periodontal disease 11 - Loose teeth 12 - Problems with wisdom teeth 13 - Other reasons 14 - Orthodontics 15 - Caps and crowns/bonding 16 - Root canal 17 - Abscess 18 - TMJ 19 - Accident [Type of injury not specified]	5099 0 134 96 34 17 69 128 1 15 18 15 2 0 14 7 0 0 0
38	Currently in Need of Dental Treatment 1 - Yes 2 - No 7 - Refused 8 - Don't know 9 - Not ascertained	2035 3448 1 13 152
39	How Soon Treatment Needed 0 - Inapplicable 1 - Immediately 2 - Within 6 months from now 3 - More than 6 months from now 4 - Not at all 5 - Currently receiving treatment 7 - Refused 8 - Don't know 9 - Not ascertained	3449 813 791 145 0 62 1 10 378
40-41	Examiner Number [01-12]	5649

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
42-43	Recorder Number [01-12]	5649
44-45	Edentulous/Dentate 00 - Edentulous 01-28 - Dentate (number of permanent teeth)	2361 3288
46	Blank - (data user work area)	5649
47	Upper Fixed/Removable Prosthesis 0 - No prosthesis 1 - Full upper denture 2 - Partial upper denture	1827 2967 855
48	Lower Fixed/Removable Prosthesis 0 - No prosthesis 1 - Full lower denture 2 - Partial lower denture	2345 2253 1051

CORONAL CARIES SURFACE ASSESSMENT
49-188

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	CORONAL CARIES SURFACE ASSESSMENT	
	UPPER LEFT QUADRANT	
49-53	Upper Left Central Incisor	
49	Blank - (data user work area)	5649
50	<i>Lingual Surface</i>	
	0 - Normal sound surface	1618
	1 - Caries	37
	2 - Filled	471
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	6
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3214
	8 - Missing due to non-disease (trauma)	275
	9 - Excluded surface (present in mouth)	28
51	<i>Buccal Surface</i>	
	0 - Normal sound surface	1763
	1 - Caries	39
	2 - Filled	323
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	7
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3214
	8 - Missing due to non-disease (trauma)	275
	9 - Excluded surface (present in mouth)	28
52	<i>Mesial Surface</i>	
	0 - Normal sound surface	1481
	1 - Caries	52
	2 - Filled	589
	3 - 1 caries + 1 filled	1
	4 - Recurrent disease	9
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3214
	8 - Missing due to non-disease (trauma)	275
	9 - Excluded surface (present in mouth)	28

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
53	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1494 58 574 0 4 0 2 3214 275 28
54-58	Upper Left Lateral Incisor	
54	Blank - (data user work area)	5649
55	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1429 54 532 0 5 0 0 3318 286 25
56	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1669 42 305 0 4 0 0 3318 286 25

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
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FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
57	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1341 70 602 0 7 0 0 3318 286 25
58	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1372 60 578 0 9 0 1 3318 286 25
59-63	Upper Left Cuspid	
59	Blank - (data user work area)	5649
60	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1590 44 583 0 5 0 0 3156 254 17

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
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FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
61	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1841 52 326 0 3 0 0 3156 254 17</p>
62	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1737 57 421 0 6 1 0 3156 254 17</p>
63	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1465 59 688 1 9 0 0 3156 254 17</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
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FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
64-68	Upper Left 1st Bicuspid	
64	<i>Occlusal Surface</i>	
	0 - Normal sound surface	695
	1 - Caries	57
	2 - Filled	900
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	8
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3722
	8 - Missing due to non-disease (trauma)	251
	9 - Excluded surface (present in mouth)	16
65	<i>Lingual Surface</i>	
	0 - Normal sound surface	1318
	1 - Caries	48
	2 - Filled	292
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	2
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3722
	8 - Missing due to non-disease (trauma)	251
	9 - Excluded surface (present in mouth)	16
66	<i>Buccal Surface</i>	
	0 - Normal sound surface	1331
	1 - Caries	46
	2 - Filled	282
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3722
	8 - Missing due to non-disease (trauma)	251
	9 - Excluded surface (present in mouth)	16

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
67	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1075 54 528 0 3 0 0 3722 251 16
68	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	810 64 782 0 4 0 0 3722 251 16
69-73	Upper Left 2nd Bicuspid	
69	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	617 64 869 0 2 0 0 3836 245 16

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
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FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
70	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1187 47 317 0 1 0 0 3836 245 16
71	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1221 45 285 0 1 0 0 3836 245 16
72	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 822 62 663 0 4 0 1 3836 245 16

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
73	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>805 63 680 0 4 0 0 3836 245 16</p>
74-78	<p>Upper Left 1st Molar</p>	
74	<p><i>Occlusal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>301 44 917 5 9 0 0 4116 242 15</p>
75	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>839 28 404 0 4 0 1 4116 242 15</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
76	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1034 20 221 0 1 0 0 4116 242 15
77	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 596 38 629 0 13 0 0 4116 242 15
78	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 741 31 498 0 5 0 1 4116 242 15

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
79-83	Upper Left 2nd Molar	
79	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	334 44 1017 0 3 0 1 3995 240 15
80	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1101 22 274 0 2 0 0 3995 240 15
81	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1126 19 253 0 1 0 0 3995 240 15

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
82	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	843 33 520 0 3 0 0 3995 240 15
83	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	947 30 420 0 2 0 0 3995 240 15
UPPER RIGHT QUADRANT		
84-88	Upper Right Central Incisor	
84	Blank - (data user work area)	5649
85	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1598 30 503 1 8 0 0 3206 273 30

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
86	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1777 31 326 0 6 0 0 3206 273 30
87	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1510 44 579 0 6 0 1 3206 273 30
88	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1536 49 545 1 9 0 0 3206 273 30
89-93	Upper Right Lateral Incisor	
89	Blank - (data user work area)	5649

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
90	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1473 45 503 0 6 0 2 3315 285 20
91	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1707 37 282 0 2 0 1 3315 285 20
92	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1405 66 546 1 11 0 0 3315 285 20

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
93	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1453 56 514 0 6 0 0 3315 285 20
94-98	Upper Right Cuspid	
94	Blank - (data user work area)	5649
95	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1652 46 549 0 10 1 0 3118 255 18
96	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1871 47 329 0 10 0 1 3118 255 18

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
97	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1791 55 404 1 7 0 0 3118 255 18
98	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1546 57 641 0 14 0 0 3118 255 18
99-103	Upper Right 1st Bicuspid	
99	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	728 52 901 0 7 1 0 3700 246 14

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
100	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1350 46 291 0 2 0 0 3700 246 14</p>
101	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1350 48 289 0 2 0 0 3700 246 14</p>
102	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1090 57 540 0 2 0 0 3700 246 14</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
103	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface</p> <p>1 - Caries</p> <p>2 - Filled</p> <p>3 - 1 caries + 1 filled</p> <p>4 - Recurrent disease</p> <p>5 - Caries + recurrent</p> <p>6 - Recurrent + filled</p> <p>7 - Missing due to disease (extracted)</p> <p>8 - Missing due to non-disease (trauma)</p> <p>9 - Excluded surface (present in mouth)</p>	<p>834</p> <p>59</p> <p>787</p> <p>0</p> <p>9</p> <p>0</p> <p>0</p> <p>3700</p> <p>246</p> <p>14</p>
104-108	<p>Upper Right 2nd Bicuspid</p>	
104	<p><i>Occlusal Surface</i></p> <p>0 - Normal sound surface</p> <p>1 - Caries</p> <p>2 - Filled</p> <p>3 - 1 caries + 1 filled</p> <p>4 - Recurrent disease</p> <p>5 - Caries + recurrent</p> <p>6 - Recurrent + filled</p> <p>7 - Missing due to disease (extracted)</p> <p>8 - Missing due to non-disease (trauma)</p> <p>9 - Excluded surface (present in mouth)</p>	<p>654</p> <p>43</p> <p>844</p> <p>0</p> <p>3</p> <p>0</p> <p>0</p> <p>3849</p> <p>242</p> <p>14</p>
105	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface</p> <p>1 - Caries</p> <p>2 - Filled</p> <p>3 - 1 caries + 1 filled</p> <p>4 - Recurrent disease</p> <p>5 - Caries + recurrent</p> <p>6 - Recurrent + filled</p> <p>7 - Missing due to disease (extracted)</p> <p>8 - Missing due to non-disease (trauma)</p> <p>9 - Excluded surface (present in mouth)</p>	<p>1196</p> <p>29</p> <p>316</p> <p>0</p> <p>3</p> <p>0</p> <p>0</p> <p>3849</p> <p>242</p> <p>14</p>

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
106	<i>Buccal Surface</i>	
	0 - Normal sound surface	1228
	1 - Caries	32
	2 - Filled	283
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3849
	8 - Missing due to non-disease (trauma)	242
	9 - Excluded surface (present in mouth)	14
107	<i>Mesial Surface</i>	
	0 - Normal sound surface	836
	1 - Caries	42
	2 - Filled	662
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	3
	5 - Caries + recurrent	0
	6 - Recurrent + filled	1
	7 - Missing due to disease (extracted)	3849
	8 - Missing due to non-disease (trauma)	242
	9 - Excluded surface (present in mouth)	14
108	<i>Distal Surface</i>	
	0 - Normal sound surface	819
	1 - Caries	47
	2 - Filled	676
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	2
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3849
	8 - Missing due to non-disease (trauma)	242
	9 - Excluded surface (present in mouth)	14

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
109-113	Upper Right 1st Molar	
109	<i>Occlusal Surface</i>	
	0 - Normal sound surface	337
	1 - Caries	38
	2 - Filled	926
	3 - 1 caries + 1 filled	4
	4 - Recurrent disease	4
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4087
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	14
110	<i>Lingual Surface</i>	
	0 - Normal sound surface	861
	1 - Caries	24
	2 - Filled	423
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	1
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4087
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	14
111	<i>Buccal Surface</i>	
	0 - Normal sound surface	1029
	1 - Caries	22
	2 - Filled	256
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	1
	7 - Missing due to disease (extracted)	4087
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	14

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
112	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>607 33 661 0 6 0 2 4087 239 14</p>
113	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>757 23 527 0 2 0 0 4087 239 14</p>
114-118	<p>Upper Right 2nd Molar</p>	
114	<p><i>Occlusal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>387 42 1001 2 8 0 0 3954 240 15</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
115	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1130 32 277 0 1 0 0 3954 240 15
116	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1184 26 227 0 3 0 0 3954 240 15
117	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	930 28 478 0 4 0 0 3954 240 15

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
118	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p> <p align="center">LOWER LEFT QUADRANT</p>	<p>1043 30 361 0 6 0 0 3954 240 15</p>
119-123	<p>Lower Left Central Incisor</p>	
119	<p>Blank - (data user work area)</p>	<p>5649</p>
120	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2600 20 74 0 0 0 0 2704 246 5</p>
121	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2611 20 63 0 0 0 0 2704 246 5</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
122	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2571 28 93 0 2 0 0 2704 246 5
123	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2570 32 90 0 2 0 0 2704 246 5
124-128	Lower Left Lateral Incisor	
124	Blank - (data user work area)	5649
125	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2682 31 103 0 1 0 0 2581 247 4

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
126	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2710 24 83 0 0 0 0 2581 247 4
127	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2695 30 91 0 1 0 0 2581 247 4
128	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2634 44 135 0 4 0 0 2581 247 4
129-133	Lower Left Cuspid	
129	Blank - (data user work area)	5649

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
130	<i>Lingual Surface</i>	
	0 - Normal sound surface	2760
	1 - Caries	40
	2 - Filled	239
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	3
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2363
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	3
131	<i>Buccal Surface</i>	
	0 - Normal sound surface	2734
	1 - Caries	52
	2 - Filled	246
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	10
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2363
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	3
132	<i>Mesial Surface</i>	
	0 - Normal sound surface	2792
	1 - Caries	53
	2 - Filled	193
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	3
	5 - Caries + recurrent	1
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2363
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	3

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
133	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2649 58 328 0 7 0 0 2363 241 3</p>
134-138	<p>Lower Left 1st Bicuspid</p>	
134	<p><i>Occlusal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1744 43 784 1 3 0 0 2824 247 3</p>
135	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2306 34 233 0 2 0 0 2824 247 3</p>

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
136	<i>Buccal Surface</i>	
	0 - Normal sound surface	2216
	1 - Caries	42
	2 - Filled	311
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	6
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2824
	8 - Missing due to non-disease (trauma)	247
	9 - Excluded surface (present in mouth)	3
137	<i>Mesial Surface</i>	
	0 - Normal sound surface	2218
	1 - Caries	40
	2 - Filled	315
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	2
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2824
	8 - Missing due to non-disease (trauma)	247
	9 - Excluded surface (present in mouth)	3
138	<i>Distal Surface</i>	
	0 - Normal sound surface	1839
	1 - Caries	64
	2 - Filled	663
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	9
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2824
	8 - Missing due to non-disease (trauma)	247
	9 - Excluded surface (present in mouth)	3

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
139-143	Lower Left 2nd Bicuspid	
139	<i>Occlusal Surface</i>	
	0 - Normal sound surface	964
	1 - Caries	48
	2 - Filled	1013
	3 - 1 caries + 1 filled	1
	4 - Recurrent disease	6
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3371
	8 - Missing due to non-disease (trauma)	244
	9 - Excluded surface (present in mouth)	2
140	<i>Lingual Surface</i>	
	0 - Normal sound surface	1677
	1 - Caries	33
	2 - Filled	321
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3371
	8 - Missing due to non-disease (trauma)	244
	9 - Excluded surface (present in mouth)	2
141	<i>Buccal Surface</i>	
	0 - Normal sound surface	1642
	1 - Caries	37
	2 - Filled	352
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3371
	8 - Missing due to non-disease (trauma)	244
	9 - Excluded surface (present in mouth)	2

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
142	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1467 40 519 0 6 0 0 3371 244 2
143	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1179 52 792 0 8 0 1 3371 244 2
144-148	Lower Left 1st Molar	
144	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	239 21 786 0 3 0 0 4359 239 2

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
145	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	661 16 372 0 0 0 0 4359 239 2
146	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	610 18 420 0 1 0 0 4359 239 2
147	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	497 17 530 1 4 0 0 4359 239 2

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
148	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 472 21 554 0 2 0 0 4359 239 2
149-153	Lower Left 2nd Molar	
149	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 251 56 1002 0 6 0 0 4094 238 2
150	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 939 28 346 0 2 0 0 4094 238 2

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
151	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	813 36 461 0 5 0 0 4094 238 2
152	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	735 26 544 0 10 0 0 4094 238 2
153	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	834 32 445 0 4 0 0 4094 238 2
LOWER RIGHT QUADRANT		
154-158	Lower Right Central Incisor	
154	Blank - (data user work area)	5649

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
155	<i>Lingual Surface</i>	
	0 - Normal sound surface	2607
	1 - Caries	17
	2 - Filled	70
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2702
	8 - Missing due to non-disease (trauma)	248
	9 - Excluded surface (present in mouth)	5
156	<i>Buccal Surface</i>	
	0 - Normal sound surface	2623
	1 - Caries	16
	2 - Filled	55
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2702
	8 - Missing due to non-disease (trauma)	248
	9 - Excluded surface (present in mouth)	5
157	<i>Mesial Surface</i>	
	0 - Normal sound surface	2594
	1 - Caries	23
	2 - Filled	77
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2702
	8 - Missing due to non-disease (trauma)	248
	9 - Excluded surface (present in mouth)	5

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
158	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2572 31 90 0 1 0 0 2702 248 5
159-163	Lower Right Lateral Incisor	
159	Blank - (data user work area)	5649
160	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2692 27 97 0 2 0 0 2582 244 5
161	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2712 22 82 0 2 0 0 2582 244 5

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
162	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2697 29 90 0 2 0 0 2582 244 5
163	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2621 43 150 0 4 0 0 2582 244 5
164-168	Lower Right Cuspid	
164	Blank - (data user work area)	5649
165	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2787 29 243 0 5 0 0 2343 239 3

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
166	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2784 29 243 1 7 0 0 2343 239 3</p>
167	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2836 39 184 0 5 0 0 2343 239 3</p>
168	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2684 55 317 0 8 0 0 2343 239 3</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
169-173	Lower Right 1st Bicuspid	
169	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1746 56 800 0 5 0 0 2797 243 2
170	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 2317 42 246 0 2 0 0 2797 243 2
171	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 2228 53 322 0 4 0 0 2797 243 2

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
172	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2227 50 328 0 2 0 0 2797 243 2
173	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1845 67 688 0 7 0 0 2797 243 2
174-178	Lower Right 2nd Bicuspid	
174	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	941 54 1015 0 8 0 1 3387 240 3

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
175	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1683 32 301 0 3 0 0 3387 240 3
176	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1665 38 313 0 3 0 0 3387 240 3
177	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1458 42 518 0 1 0 0 3387 240 3

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
178	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1148 59 796 0 16 0 0 3387 240 3
179-183	Lower Right 1st Molar	
179	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	262 23 830 0 5 0 1 4285 239 4
180	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	715 15 389 0 2 0 0 4285 239 4

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
181	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 632 15 473 0 1 0 0 4285 239 4
182	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 524 14 579 0 4 0 0 4285 239 4
183	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 501 16 594 0 10 0 0 4285 239 4

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
184-188	Lower Right 2nd Molar	
184	<i>Occlusal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	265 34 1055 0 9 0 1 4042 239 4
185	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1000 14 348 0 2 0 0 4042 239 4
186	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	832 28 497 2 5 0 0 4042 239 4

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
187	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>763 18 579 0 4 0 0 4042 239 4</p>
188	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>892 18 451 0 3 0 0 4042 239 4</p>

ROOT CARIES ASSESSMENT
189-300

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	ROOT CARIES ASSESSMENT UPPER LEFT QUADRANT	
189-192	Upper Left Central Incisor—Root	
189	<i>Lingual Surface</i>	
	0 - Normal sound surface	2111
	1 - Caries	19
	2 - Filled	4
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3214
	8 - Missing due to non-disease (trauma)	274
	9 - Excluded surface (present in mouth)	26
190	<i>Buccal Surface</i>	
	0 - Normal sound surface	1965
	1 - Caries	54
	2 - Filled	110
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	6
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3214
	8 - Missing due to non-disease (trauma)	274
	9 - Excluded surface (present in mouth)	26
191	<i>Mesial Surface</i>	
	0 - Normal sound surface	2069
	1 - Caries	38
	2 - Filled	25
	3 - 1 caries + 1 filled	1
	4 - Recurrent disease	2
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3214
	8 - Missing due to non-disease (trauma)	274
	9 - Excluded surface (present in mouth)	26

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
192	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface</p> <p>1 - Caries</p> <p>2 - Filled</p> <p>3 - 1 caries + 1 filled</p> <p>4 - Recurrent disease</p> <p>5 - Caries + recurrent</p> <p>6 - Recurrent + filled</p> <p>7 - Missing due to disease (extracted)</p> <p>8 - Missing due to non-disease (trauma)</p> <p>9 - Excluded surface (present in mouth)</p>	<p>2037</p> <p>51</p> <p>36</p> <p>1</p> <p>10</p> <p>0</p> <p>0</p> <p>3214</p> <p>274</p> <p>26</p>
193-196	<p>Upper Left Lateral Incisor—Root</p>	
193	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface</p> <p>1 - Caries</p> <p>2 - Filled</p> <p>3 - 1 caries + 1 filled</p> <p>4 - Recurrent disease</p> <p>5 - Caries + recurrent</p> <p>6 - Recurrent + filled</p> <p>7 - Missing due to disease (extracted)</p> <p>8 - Missing due to non-disease (trauma)</p> <p>9 - Excluded surface (present in mouth)</p>	<p>1986</p> <p>27</p> <p>4</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>3318</p> <p>285</p> <p>29</p>
194	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface</p> <p>1 - Caries</p> <p>2 - Filled</p> <p>3 - 1 caries + 1 filled</p> <p>4 - Recurrent disease</p> <p>5 - Caries + recurrent</p> <p>6 - Recurrent + filled</p> <p>7 - Missing due to disease (extracted)</p> <p>8 - Missing due to non-disease (trauma)</p> <p>9 - Excluded surface (present in mouth)</p>	<p>1871</p> <p>42</p> <p>100</p> <p>0</p> <p>4</p> <p>0</p> <p>0</p> <p>3318</p> <p>285</p> <p>29</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
195	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1923 56 34 0 4 0 0 3318 285 29
196	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1945 45 22 0 5 0 0 3318 285 29

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
197-200	Upper Left Cuspid—Root	
197	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2178 26 10 0 1 0 0 3156 253 25
198	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1874 87 236 1 17 0 0 3156 253 25
199	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2100 65 45 0 5 0 0 3156 253 25

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
200	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2113 57 37 0 7 0 1 3156 253 25</p>
201-204	<p>Upper Left 1st Bicuspid—Root</p>	
201	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1608 37 8 0 0 0 0 3722 250 24</p>
202	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1444 63 142 0 4 0 0 3722 250 24</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
203	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1584 48 18 0 3 0 0 3722 250 24</p>
204	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1574 49 28 0 2 0 0 3722 250 24</p>
205-208	<p>Upper Left 2nd Bicuspid—Root</p>	
205	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1499 38 7 0 1 0 0 3836 244 24</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
206	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1407 43 93 0 2 0 0 3836 244 24
207	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1485 46 11 0 3 0 0 3836 244 24
208	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1468 57 18 0 2 0 0 3836 244 24

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
209-212	Upper Left 1st Molar—Root	
209	<i>Lingual Surface</i>	
	0 - Normal sound surface	1187
	1 - Caries	32
	2 - Filled	48
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	5
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4116
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	20
210	<i>Buccal Surface</i>	
	0 - Normal sound surface	1197
	1 - Caries	21
	2 - Filled	54
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4116
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	20
211	<i>Mesial Surface</i>	
	0 - Normal sound surface	1223
	1 - Caries	31
	2 - Filled	17
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4116
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	20

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
212	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1233 25 13 0 1 0 0 4116 241 20</p>
213-216	<p>Upper Left 2nd Molar—Root</p>	
213	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1328 29 35 0 0 0 0 3995 239 23</p>
214	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1318 26 47 0 1 0 0 3995 239 23</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
215	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1344 23 24 0 1 0 0 3995 239 23</p>
216	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1348 29 14 0 1 0 0 3995 239 23</p>
UPPER RIGHT QUADRANT		
217-220	Upper Right Central Incisor—Root	
217	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2116 20 8 0 2 0 0 3206 272 25</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
218	<p><i>Buccal Surface</i></p> <ul style="list-style-type: none"> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth) 	<p align="right">2008 47 85 1 5 0 0 3206 272 25</p>
219	<p><i>Mesial Surface</i></p> <ul style="list-style-type: none"> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth) 	<p align="right">2093 36 15 0 2 0 0 3206 272 25</p>
220	<p><i>Distal Surface</i></p> <ul style="list-style-type: none"> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth) 	<p align="right">2047 52 37 0 10 0 0 3206 272 25</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
221-224	Upper Right Lateral Incisor—Root	
221	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1989 28 5 0 1 0 0 3315 284 27
222	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1923 45 52 0 3 0 0 3315 284 27
223	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1955 42 20 0 6 0 0 3315 284 27

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
224	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1969 39 12 1 2 0 0 3315 284 27
225-228	Upper Right Cuspid—Root	
225	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 2199 34 15 0 2 0 0 3118 254 27
226	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 1969 89 181 0 10 1 0 3118 254 27

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
227	<i>Mesial Surface</i>	
	0 - Normal sound surface	2143
	1 - Caries	66
	2 - Filled	34
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	7
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3118
	8 - Missing due to non-disease (trauma)	254
	9 - Excluded surface (present in mouth)	27
228	<i>Distal Surface</i>	
	0 - Normal sound surface	2147
	1 - Caries	57
	2 - Filled	40
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	6
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3118
	8 - Missing due to non-disease (trauma)	254
	9 - Excluded surface (present in mouth)	27
229-232	Upper Right 1st Bicuspid—Root	
229	<i>Lingual Surface</i>	
	0 - Normal sound surface	1633
	1 - Caries	34
	2 - Filled	9
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3701
	8 - Missing due to non-disease (trauma)	245
	9 - Excluded surface (present in mouth)	27

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
230	<i>Buccal Surface</i>	
	0 - Normal sound surface	1494
	1 - Caries	49
	2 - Filled	127
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	5
	5 - Caries + recurrent	1
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3701
	8 - Missing due to non-disease (trauma)	245
	9 - Excluded surface (present in mouth)	27
231	<i>Mesial Surface</i>	
	0 - Normal sound surface	1622
	1 - Caries	43
	2 - Filled	9
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	2
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3701
	8 - Missing due to non-disease (trauma)	245
	9 - Excluded surface (present in mouth)	27
232	<i>Distal Surface</i>	
	0 - Normal sound surface	1615
	1 - Caries	40
	2 - Filled	17
	3 - 1 caries + 1 filled	1
	4 - Recurrent disease	3
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3701
	8 - Missing due to non-disease (trauma)	245
	9 - Excluded surface (present in mouth)	27

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
233-236	Upper Right 2nd Bicuspid—Root	
233	<i>Lingual Surface</i>	
	0 - Normal sound surface	1498
	1 - Caries	25
	2 - Filled	11
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3849
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	25
234	<i>Buccal Surface</i>	
	0 - Normal sound surface	1427
	1 - Caries	34
	2 - Filled	68
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	4
	5 - Caries + recurrent	0
	6 - Recurrent + filled	1
	7 - Missing due to disease (extracted)	3849
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	25
235	<i>Mesial Surface</i>	
	0 - Normal sound surface	1488
	1 - Caries	32
	2 - Filled	11
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	3
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3849
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	25

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
236	<i>Distal Surface</i>	
	0 - Normal sound surface	1472
	1 - Caries	39
	2 - Filled	20
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	3
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	3849
	8 - Missing due to non-disease (trauma)	241
	9 - Excluded surface (present in mouth)	25
237-240	Upper Right 1st Molar—Root	
237	<i>Lingual Surface</i>	
	0 - Normal sound surface	1212
	1 - Caries	36
	2 - Filled	49
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	3
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4087
	8 - Missing due to non-disease (trauma)	238
	9 - Excluded surface (present in mouth)	24
238	<i>Buccal Surface</i>	
	0 - Normal sound surface	1221
	1 - Caries	27
	2 - Filled	52
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4087
	8 - Missing due to non-disease (trauma)	238
	9 - Excluded surface (present in mouth)	24

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
239	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1246 37 17 0 0 0 0 4087 238 24</p>
240	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1258 26 16 0 0 0 0 4087 238 24</p>
241-244	<p>Upper Right 2nd Molar—Root</p>	
241	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1360 34 35 0 3 0 0 3954 239 24</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
242	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1339 33 56 0 4 0 0 3954 239 24
243	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1364 38 29 0 1 0 0 3954 239 24
244	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1391 31 10 0 0 0 0 3954 239 24

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	LOWER LEFT QUADRANT	
245-248	Lower Left Central Incisor—Root	
245	<i>Lingual Surface</i>	
	0 - Normal sound surface	2675
	1 - Caries	13
	2 - Filled	1
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2704
	8 - Missing due to non-disease (trauma)	246
	9 - Excluded surface (present in mouth)	10
246	<i>Buccal Surface</i>	
	0 - Normal sound surface	2612
	1 - Caries	27
	2 - Filled	49
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2704
	8 - Missing due to non-disease (trauma)	246
	9 - Excluded surface (present in mouth)	10
247	<i>Mesial Surface</i>	
	0 - Normal sound surface	2659
	1 - Caries	23
	2 - Filled	5
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	2
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2704
	8 - Missing due to non-disease (trauma)	246
	9 - Excluded surface (present in mouth)	10

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
248	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2659 26 3 0 1 0 0 2704 246 10
249-252	Lower Left Lateral Incisor—Root	
249	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2792 17 3 0 0 0 0 2581 247 9
250	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2705 41 66 0 0 0 0 2581 247 9

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
251	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2764 40 7 0 1 0 0 2581 247 9
252	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2754 47 10 0 1 0 0 2581 247 9
253-256	Lower Left Cuspid—Root	
253	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2997 28 7 0 3 0 0 2363 241 10

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
254	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2698 94 225 2 16 0 0 2363 241 10
255	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2927 76 29 0 2 1 0 2363 241 10
256	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2925 70 36 0 4 0 0 2363 241 10

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
257-260	Lower Left 1st Bicuspid—Root	
257	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 2533 25 6 0 1 0 0 2824 247 13
258	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 2084 103 355 0 23 0 0 2824 247 13
259	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	 2500 42 22 0 1 0 0 2824 247 13

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
260	<p><i>Distal Surface</i></p> <ul style="list-style-type: none"> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth) 	<p align="right">2468 59 35 0 3 0 0 2824 247 13</p>
261-264	<p>Lower Left 2nd Bicuspid—Root</p>	
261	<p><i>Lingual Surface</i></p> <ul style="list-style-type: none"> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth) 	<p align="right">1987 31 3 0 2 0 0 3371 244 11</p>
262	<p><i>Buccal Surface</i></p> <ul style="list-style-type: none"> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth) 	<p align="right">1702 76 241 0 4 0 0 3371 244 11</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
263	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1966 33 22 0 2 0 0 3371 244 11
264	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1918 58 42 0 5 0 0 3371 244 11
265-268	Lower Left 1st Molar—Root	
265	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1016 18 11 0 1 0 0 4359 239 5

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
266	<i>Buccal Surface</i>	
	0 - Normal sound surface	895
	1 - Caries	37
	2 - Filled	110
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	4
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4359
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	5
267	<i>Mesial Surface</i>	
	0 - Normal sound surface	1019
	1 - Caries	17
	2 - Filled	10
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4359
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	5
268	<i>Distal Surface</i>	
	0 - Normal sound surface	1018
	1 - Caries	22
	2 - Filled	6
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4359
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	5

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
269-272	Lower Left 2nd Molar—Root	
269	<i>Lingual Surface</i>	
	0 - Normal sound surface	1270
	1 - Caries	23
	2 - Filled	12
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4094
	8 - Missing due to non-disease (trauma)	238
	9 - Excluded surface (present in mouth)	11
270	<i>Buccal Surface</i>	
	0 - Normal sound surface	1072
	1 - Caries	48
	2 - Filled	175
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	10
	5 - Caries + recurrent	1
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4094
	8 - Missing due to non-disease (trauma)	238
	9 - Excluded surface (present in mouth)	11
271	<i>Mesial Surface</i>	
	0 - Normal sound surface	1264
	1 - Caries	21
	2 - Filled	18
	3 - 1 caries + 1 filled	1
	4 - Recurrent disease	2
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4094
	8 - Missing due to non-disease (trauma)	238
	9 - Excluded surface (present in mouth)	11

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
272	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p> <p align="center">LOWER RIGHT QUADRANT</p>	<p>1269 23 10 0 4 0 0 4094 238 11</p>
273-276	<p align="center">Lower Right Central Incisor—Root</p>	
273	<p><i>Lingual Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2671 12 4 0 0 0 0 2702 248 12</p>
274	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>2616 22 46 0 3 0 0 2702 248 12</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
275	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2644 31 9 0 3 0 0 2702 248 12
276	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2647 30 9 0 1 0 0 2702 248 12
277-280	Lower Right Lateral Incisor—Root	
277	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2779 26 6 0 1 0 0 2582 244 11

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
278	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2721 40 50 0 1 0 0 2582 244 11
279	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2755 46 11 0 0 0 0 2582 244 11
280	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2745 58 8 0 1 0 0 2582 244 11

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
281-284	Lower Right Cuspid—Root	
281	<i>Lingual Surface</i>	
	0 - Normal sound surface	3006
	1 - Caries	30
	2 - Filled	14
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	3
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2343
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	14
282	<i>Buccal Surface</i>	
	0 - Normal sound surface	2744
	1 - Caries	75
	2 - Filled	212
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	22
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2343
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	14
283	<i>Mesial Surface</i>	
	0 - Normal sound surface	2933
	1 - Caries	72
	2 - Filled	42
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	6
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	2343
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	14

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
284	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2942 60 39 0 12 0 0 2343 239 14
285-288	Lower Right 1st Bicuspid—Root	
285	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2551 43 5 0 0 0 0 2797 243 10
286	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2138 88 363 0 10 0 0 2797 243 10

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
287	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2523 57 14 0 5 0 0 2797 243 10
288	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	2491 59 48 0 1 0 0 2797 243 10
289-292	Lower Right 2nd Bicuspid—Root	
289	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1970 32 6 0 4 0 0 3387 240 10

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
290	<p><i>Buccal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1698 76 229 0 9 0 0 3387 240 10</p>
291	<p><i>Mesial Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1952 40 18 0 2 0 0 3387 240 10</p>
292	<p><i>Distal Surface</i></p> <p>0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)</p>	<p>1909 54 43 0 5 1 0 3387 240 10</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
293-296	Lower Right 1st Molar—Root	
293	<i>Lingual Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1079 23 12 0 1 0 0 4285 239 10
294	<i>Buccal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	936 34 138 0 7 0 0 4285 239 10
295	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1090 17 6 0 2 0 0 4285 239 10

NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
296	<i>Distal Surface</i>	
	0 - Normal sound surface	1096
	1 - Caries	17
	2 - Filled	2
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	0
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4285
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	10
297-300	Lower Right 2nd Molar—Root	
297	<i>Lingual Surface</i>	
	0 - Normal sound surface	1312
	1 - Caries	24
	2 - Filled	20
	3 - 1 caries + 1 filled	0
	4 - Recurrent disease	1
	5 - Caries + recurrent	1
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4042
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	10
298	<i>Buccal Surface</i>	
	0 - Normal sound surface	1114
	1 - Caries	56
	2 - Filled	175
	3 - 1 caries + 1 filled	1
	4 - Recurrent disease	12
	5 - Caries + recurrent	0
	6 - Recurrent + filled	0
	7 - Missing due to disease (extracted)	4042
	8 - Missing due to non-disease (trauma)	239
	9 - Excluded surface (present in mouth)	10

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
299	<i>Mesial Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1303 26 27 1 1 0 0 4042 239 10
300	<i>Distal Surface</i> 0 - Normal sound surface 1 - Caries 2 - Filled 3 - 1 caries + 1 filled 4 - Recurrent disease 5 - Caries + recurrent 6 - Recurrent + filled 7 - Missing due to disease (extracted) 8 - Missing due to non-disease (trauma) 9 - Excluded surface (present in mouth)	1315 27 14 0 1 1 0 4042 239 10

CORONAL ASSESSMENT TOOTH CALLS
301-328

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	CORONAL ASSESSMENT TOOTH CALLS	
	UPPER LEFT QUADRANT	
301	Upper Left Central Incisor Coronal Tooth Call	
	0 - Sound	1224
	1 - Caries	111
	2 - Filled	797
	7 - Missing due to disease	3214
	8 - Missing no disease	275
	9 - Excluded	28
302	Upper Left Lateral Incisor Coronal Tooth Call	
	0 - Sound	1063
	1 - Caries	119
	2 - Filled	838
	7 - Missing due to disease	3318
	8 - Missing no disease	286
	9 - Excluded	25
303	Upper Left Cuspid Coronal Tooth Call	
	0 - Sound	1265
	1 - Caries	113
	2 - Filled	844
	7 - Missing due to disease	3156
	8 - Missing no disease	254
	9 - Excluded	17
304	Upper Left 1st Bicuspid Coronal Tooth Call	
	0 - Sound	647
	1 - Caries	87
	2 - Filled	926
	7 - Missing due to disease	3722
	8 - Missing no disease	251
	9 - Excluded	16
305	Upper Left 2nd Bicuspid Coronal Tooth Call	
	0 - Sound	584
	1 - Caries	95
	2 - Filled	873
	7 - Missing due to disease	3836
	8 - Missing no disease	245
	9 - Excluded	16

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
306	Upper Left 1st Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 285 82 909 4116 242 15
307	Upper Left 2nd Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 318 64 1017 3995 240 15
UPPER RIGHT QUADRANT		
308	Upper Right Central Incisor Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 1233 101 806 3206 273 30
309	Upper Right Lateral Incisor Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 1122 117 790 3315 285 20
310	Upper Right Cuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 1336 111 811 3118 255 18

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
311	Upper Right 1st Bicuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	682 92 915 3700 246 14
312	Upper Right 2nd Bicuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	605 80 859 3849 242 14
313	Upper Right 1st Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	314 66 929 4087 239 14
314	Upper Right 2nd Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	365 69 1006 3954 240 15
LOWER LEFT QUADRANT		
315	Lower Left Central Incisor Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	2521 44 129 2704 246 5

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE**

NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
316	Lower Left Lateral Incisor Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	2575 60 182 2581 247 4
317	Lower Left Cuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	2487 110 445 2363 241 3
318	Lower Left 1st Bicuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	1633 93 849 2824 247 3
319	Lower Left 2nd Bicuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	909 88 1035 3371 244 2
320	Lower Left 1st Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	222 38 789 4359 239 2

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
321	Lower Left 2nd Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 219 93 1003 4094 238 2
LOWER RIGHT QUADRANT		
322	Lower Right Central Incisor Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 2531 41 122 2702 248 5
323	Lower Right Lateral Incisor Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 2579 56 183 2582 244 5
324	Lower Right Cuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 2540 92 432 2343 239 3
325	Lower Right 1st Bicuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	 1636 103 868 2797 243 2

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
326	Lower Right 2nd Bicuspid Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	878 102 1039 3387 240 3
327	Lower Right 1st Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	235 53 833 4285 239 4
328	Lower Right 2nd Molar Coronal Tooth Call 0 - Sound 1 - Caries 2 - Filled 7 - Missing due to disease 8 - Missing no disease 9 - Excluded	237 65 1062 4042 239 4

PERIODONTAL DESTRUCTION ASSESSMENTS

QUADRANTS 329

GINGIVAL ASSESSMENT 330-357

CALCULUS ASSESSMENT 358-371

LOSS OF ATTACHMENT ASSESSMENT 372-511

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
329	PERIODONTAL DESTRUCTION ASSESSMENTS	
	QUADRANTS (RANDOM SELECTION)	
	1 - Upper right and lower right	1428
	2 - Upper left and lower left	1384
	3 - Upper right and lower left	1433
4 - Upper left and lower right	1404	

GINGIVAL ASSESSMENT
330-357

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE**

NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	GINGIVAL ASSESSMENT (ONE UPPER QUADRANT)	
	UPPER LEFT QUADRANT OR UPPER RIGHT QUADRANT	
330-343		
330-331	Upper Central Incisor	
330	<i>Buccal Site</i>	
	0 - Absence of bleeding	1983
	1 - Presence of bleeding	129
	9 - Cannot be assessed	3537
331	<i>Mesial Site</i>	
	0 - Absence of bleeding	1991
	1 - Presence of bleeding	115
	9 - Cannot be assessed	3543
332-333	Upper Lateral Incisor	
332	<i>Buccal Site</i>	
	0 - Absence of bleeding	1814
	1 - Presence of bleeding	159
	9 - Cannot be assessed	3676
333	<i>Mesial Site</i>	
	0 - Absence of bleeding	1855
	1 - Presence of bleeding	110
	9 - Cannot be assessed	3684
334-335	Upper Cuspid	
334	<i>Buccal Site</i>	
	0 - Absence of bleeding	1996
	1 - Presence of bleeding	188
	9 - Cannot be assessed	3465
335	<i>Mesial Site</i>	
	0 - Absence of bleeding	1975
	1 - Presence of bleeding	198
	9 - Cannot be assessed	3476

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE**

NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
336-337	Upper 1st Bicuspid	
336	<i>Buccal Site</i>	
	0 - Absence of bleeding	1495
	1 - Presence of bleeding	130
	9 - Cannot be assessed	4024
337	<i>Mesial Site</i>	
	0 - Absence of bleeding	1491
	1 - Presence of bleeding	128
	9 - Cannot be assessed	4030
338-339	Upper 2nd Bicuspid	
338	<i>Buccal Site</i>	
	0 - Absence of bleeding	1395
	1 - Presence of bleeding	123
	9 - Cannot be assessed	4131
339	<i>Mesial Site</i>	
	0 - Absence of bleeding	1412
	1 - Presence of bleeding	99
	9 - Cannot be assessed	4138
340-341	Upper 1st Molar	
340	<i>Buccal Site</i>	
	0 - Absence of bleeding	1117
	1 - Presence of bleeding	146
	9 - Cannot be assessed	4386
341	<i>Mesial Site</i>	
	0 - Absence of bleeding	1153
	1 - Presence of bleeding	104
	9 - Cannot be assessed	4392
342-343	Upper 2nd Molar	
342	<i>Buccal Site</i>	
	0 - Absence of bleeding	1171
	1 - Presence of bleeding	195
	9 - Cannot be assessed	4283

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
343	<i>Mesial Site</i>	
	0 - Absence of bleeding	1207
	1 - Presence of bleeding	155
	9 - Cannot be assessed	4287
	GINGIVAL ASSESSMENT (ONE LOWER QUADRANT)	
344-357	LOWER LEFT QUADRANT OR LOWER RIGHT QUADRANT	
344-345	Lower Central Incisor	
344	<i>Buccal Site</i>	
	0 - Absence of bleeding	2412
	1 - Presence of bleeding	246
	9 - Cannot be assessed	2991
345	<i>Mesial Site</i>	
	0 - Absence of bleeding	2449
	1 - Presence of bleeding	202
	9 - Cannot be assessed	2998
346-347	Lower Lateral Incisor	
346	<i>Buccal Site</i>	
	0 - Absence of bleeding	2490
	1 - Presence of bleeding	286
	9 - Cannot be assessed	2873
347	<i>Mesial Site</i>	
	0 - Absence of bleeding	2567
	1 - Presence of bleeding	200
	9 - Cannot be assessed	2882
348-349	Lower Cuspid	
348	<i>Buccal Site</i>	
	0 - Absence of bleeding	2625
	1 - Presence of bleeding	379
	9 - Cannot be assessed	2645

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
349	<i>Mesial Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	2703 292 2654
350-351	Lower 1st Bicuspid	
350	<i>Buccal Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	2303 242 3104
351	<i>Mesial Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	2344 194 3111
352-353	Lower 2nd Bicuspid	
352	<i>Buccal Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	1825 174 3650
353	<i>Mesial Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	1869 124 3656
354-355	Lower 1st Molar	
354	<i>Buccal Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	947 119 4583
355	<i>Mesial Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	992 69 4588

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
356-357	Lower 2nd Molar	
356	<i>Buccal Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	1104 202 4343
357	<i>Mesial Site</i> 0 - Absence of bleeding 1 - Presence of bleeding 9 - Cannot be assessed	1168 134 4347

CALCULUS ASSESSMENT
358-371

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
358-364	CALCULUS ASSESSMENT (ONE UPPER QUADRANT) UPPER LEFT QUADRANT OR RIGHT QUADRANT	
358	Upper Central Incisor 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	1492 151 464 3542
359	Upper Lateral Incisor 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	1313 176 484 3676
360	Upper Cuspid 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	1404 195 580 3470
361	Upper 1st Bicuspid 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	1154 84 387 4024
362	Upper 2nd Bicuspid 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	1038 104 375 4132

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
363	Upper 1st Molar 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 690 137 435 4387
364	Upper 2nd Molar 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 577 182 609 4281
365-371	CALCULUS ASSESSMENT (ONE LOWER QUADRANT) LOWER LEFT QUADRANT OR LOWER RIGHT QUADRANT	
365	Lower Central Incisor 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 568 836 1250 2995
366	Lower Lateral Incisor 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 750 815 1206 2878
367	Lower Cuspid 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 1030 701 1271 2647

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
368	Lower 1st Bicuspid 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 1428 315 800 3106
369	Lower 2nd Bicuspid 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 1204 174 618 3653
370	Lower 1st Molar 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 632 83 351 4583
371	Lower 2nd Molar 0 - None 1 - Supragingival only 2 - Subgingival only or a combination of supragingival and subgingival 9 - Cannot be assessed	 677 143 483 4346

LOSS OF ATTACHMENT ASSESSMENT
372-511

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	LOSS OF ATTACHMENT ASSESSMENT (ONE UPPER QUADRANT) FGM=FREE GINGIVAL-MARGIN CEJ=CEMENTO ENAMEL JUNCTION	
372-441	UPPER LEFT QUADRANT OR UPPER RIGHT QUADRANT	
372-381	Upper Central Incisor	
	<i>Buccal Site</i>	
372-374	FGM/CEJ	
	-12 to 12 mm - Actual measurement	2098
	99 - No measurement	3551
375-376	FGM/POCKET	
	00 to 12 mm - Actual measurement	2098
	99 - No measurement	3551
	<i>Mesial Site</i>	
377-379	FGM/CEJ	
	-12 to 12 mm - Actual measurement	2097
	99 - No measurement	3552
380-381	FGM/POCKET	
	00 to 12 mm - Actual measurement	2097
	99 - No measurement	3552
382-391	Upper Lateral Incisor	
	<i>Buccal Site</i>	
382-384	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1959
	99 - No measurement	3690
385-386	FGM/POCKET	
	00 to 12 mm - Actual measurement	1959
	99 - No measurement	3690

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE**

NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
387-389	<p><i>Mesial Site</i></p> <p>FGM/CEJ</p> <p>-12 to 12 mm - Actual measurement 99 - No measurement</p>	<p>1962 3687</p>
390-391	<p>FGM/POCKET</p> <p>00 to 12 mm - Actual measurement 99 - No measurement</p>	<p>1962 3687</p>
392-401	<p>Upper Cuspid</p> <p><i>Buccal Site</i></p>	
392-394	<p>FGM/CEJ</p> <p>-12 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2164 3485</p>
395-396	<p>FGM/POCKET</p> <p>00 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2164 3485</p>
397-399	<p><i>Mesial Site</i></p> <p>FGM/CEJ</p> <p>-12 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2167 3482</p>
400-401	<p>FGM/POCKET</p> <p>00 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2167 3482</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
402-411	Upper 1st Bicuspid	
	<i>Buccal Site</i>	
402-404	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1613
	99 - No measurement	4036
405-406	FGM/POCKET	
	00 to 12 mm - Actual measurement	1613
	99 - No measurement	4036
	<i>Mesial Site</i>	
407-409	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1610
	99 - No measurement	4039
410-411	FGM/POCKET	
	00 to 12 mm - Actual measurement	1610
	99 - No measurement	4039
412-421	Upper 2nd Bicuspid	
	<i>Buccal Site</i>	
412-414	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1508
	99 - No measurement	4141
415-416	FGM/POCKET	
	00 to 12 mm - Actual measurement	1508
	99 - No measurement	4141

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
	<i>Mesial Site</i>	
417-419	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1510
	99 - No measurement	4139
420-421	FGM/POCKET	
	00 to 12 mm - Actual measurement	1510
	99 - No measurement	4139
422-431	Upper 1st Molar	
	<i>Buccal Site</i>	
422-424	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1246
	99 - No measurement	4403
425-426	FGM/POCKET	
	00 to 12 mm - Actual measurement	1246
	99 - No measurement	4403
	<i>Mesial Site</i>	
427-429	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1249
	99 - No measurement	4400
430-431	FGM/POCKET	
	00 to 12 mm - Actual measurement	1249
	99 - No measurement	4400

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
432-441	Upper 2nd Molar	
	<i>Buccal Site</i>	
432-434	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1360
	99 - No measurement	4289
435-436	FGM/POCKET	
	00 to 12 mm - Actual measurement	1360
	99 - No measurement	4289
	<i>Mesial Site</i>	
437-439	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1360
	99 - No measurement	4289
440-441	FGM/POCKET	
	00 to 12 mm - Actual measurement	1360
	99 - No measurement	4289
	LOSS OF ATTACHMENT ASSESSMENT (ONE LOWER QUADRANT)	
	LOWER LEFT QUADRANT OR LOWER RIGHT QUADRANT	
442-451	Lower Central Incisor	
	<i>Buccal Site</i>	
442-444	FGM/CEJ	
	-12 to 12 mm - Actual measurement	2619
	99 - No measurement	3030
445-446	FGM/POCKET	
	00 to 12 mm - Actual measurement	2619
	99 - No measurement	3030

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
447-449	<p><i>Mesial Site</i></p> <p>FGM/CEJ</p> <p>-12 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2600 3049</p>
450-451	<p>FGM/POCKET</p> <p>00 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2600 3049</p>
452-461	<p>Lower Lateral Incisor</p> <p><i>Buccal Site</i></p>	
452-454	<p>FGM/CEJ</p> <p>-12 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2743 2906</p>
455-456	<p>FGM/POCKET</p> <p>00 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2743 2906</p>
457-459	<p><i>Mesial Site</i></p> <p>FGM/CEJ</p> <p>-12 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2741 2908</p>
460-461	<p>FGM/POCKET</p> <p>00 to 12 mm - Actual measurement 99 - No measurement</p>	<p>2741 2908</p>

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
462-471	Lower Cuspid	
	<i>Buccal Site</i>	
462-464	FGM/CEJ	
	-12 to 12 mm - Actual measurement	2980
	99 - No measurement	2669
465-466	FGM/POCKET	
	00 to 12 mm - Actual measurement	2980
	99 - No measurement	2669
	<i>Mesial Site</i>	
467-469	FGM/CEJ	
	-12 to 12 mm - Actual measurement	2979
	99 - No measurement	2670
470-471	FGM/POCKET	
	00 to 12 mm - Actual measurement	2979
	99 - No measurement	2670
472-481	Lower 1st Bicuspid	
	<i>Buccal Site</i>	
472-474	FGM/CEJ	
	-12 to 12 mm - Actual measurement	2530
	99 - No measurement	3119
475-476	FGM/POCKET	
	00 to 12 mm - Actual measurement	2530
	99 - No measurement	3119

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
477-479	<i>Mesial Site</i> FGM/CEJ -12 to 12 mm - Actual measurement 99 - No measurement	2524 3125
480-481	FGM/POCKET 00 to 12 mm - Actual measurement 99 - No measurement	2524 3125
482-491	Lower 2nd Bicuspid	
482-484	<i>Buccal Site</i> FGM/CEJ -12 to 12 mm - Actual measurement 99 - No measurement FGM/POCKET 00 to 12 mm - Actual measurement 99 - No measurement	1986 3663 1986 3663
487-489	<i>Mesial Site</i> FGM/CEJ -12 to 12 mm - Actual measurement 99 - No measurement	1982 3667
490-491	FGM/POCKET 00 to 12 mm - Actual measurement 99 - No measurement	1983 3666

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
492-501	Lower 1st Molar	
	<i>Buccal Site</i>	
492-494	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1060
	99 - No measurement	4589
495-496	FGM/POCKET	
	00 to 12 mm - Actual measurement	1060
	99 - No measurement	4589
	<i>Mesial Site</i>	
	FGM/CEJ	
497-499	-12 to 12 mm - Actual measurement	1059
	99 - No measurement	4590
500-501	FGM/POCKET	
	00 to 12 mm - Actual measurement	1058
	99 - No measurement	4591
502-511	Lower 2nd Molar	
	<i>Buccal Site</i>	
502-504	FGM/CEJ	
	-12 to 12 mm - Actual measurement	1304
	99 - No measurement	4345
505-506	FGM/POCKET	
	00 to 12 mm - Actual measurement	1304
	99 - No measurement	4345

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
507-509	<i>Mesial Site</i>	
	FGM/CEJ -12 to 12 mm - Actual measurement 99 - No measurement	1295 4354
510-511	FGM/POCKET	
	00 to 12 mm - Actual measurement 99 - No measurement	1295 4354

SUMMARY CLINICAL VARIABLES
512-523

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
512-523	SUMMARY VARIABLES DECAYED (D) MISSING (M) OR FILLED (F) ASSESSMENTS FOR PERSON	
512-513	DFT 00-28 - # of D or F teeth scored for caries 99 - Not applicable	3288 2361
514-516	DFS 000-128 - # of D or F surfaces scored for caries 999 - Not applicable	3288 2361
517-519	DMFS 000-128 - # of D or F surfaces scored for caries and M surfaces scored for disease (includes edentulous persons with 128 missing surfaces) 999 - Not applicable	5413 236
520	LOSS OF ATTACHMENT (LA) LA Recode #1 for Person 0 - All scored sites <1 or cannot be determined 1 - At least one scored site with LA >= 1	 2434 3215
521	LA Recode #2 for Person 0 - All scored sites <2 or cannot be determined 1 - At least one scored site with LA >= 2	 2585 3064

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
522-523	<p>Maximum LA in mm for Person</p> <p>00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17</p> <p>99 - Cannot be determined (includes 2361 edentulous persons and 72 persons who could not be assessed for other reasons.)</p>	<p>1 151 299 562 559 564 421 254 191 87 58 25 22 10 8 3 0 1 2433</p>
524-525	Blank	5649

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
526-892	VARIANCE ESTIMATION VARIABLES	
526-527	Pseudostratum Identification	
	01	219
	02	27
	03	75
	04	75
	05	103
	06	174
	07	71
	08	197
	09	69
	10	84
	11	115
	12	96
	13	79
	14	27
	15	78
	16	217
	17	280
	18	106
	19	49
	20	109
	21	147
	22	187
	23	140
	24	189
	25	101
	26	40
	27	70
	28	33
	29	316
	30	271
	31	94
	32	76
	33	69
	34	243
	35	234
	36	86
	37	108
	38	94
	39	171
	40	47
	41	34
	42	303
	43	107
	44	239

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE**

NUMBER OF RECORDS = 5649

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
528	Pseudo-PSU Identification 1 2	2645 3004
529	Race Recode (Poststratification) 1 - White 2 - Black and Other	4928 721
530-540	Person Sampling Weight	5649
541-892	Replicate Weights	
541-548	Replicate Weight 01	5649
549-556	Replicate Weight 02	5649
557-564	Replicate Weight 03	5649
565-572	Replicate Weight 04	5649
573-580	Replicate Weight 05	5649
581-588	Replicate Weight 06	5649
589-596	Replicate Weight 07	5649
597-604	Replicate Weight 08	5649
605-612	Replicate Weight 09	5649
613-620	Replicate Weight 10	5649
621-628	Replicate Weight 11	5649
629-636	Replicate Weight 12	5649
637-644	Replicate Weight 13	5649
645-652	Replicate Weight 14	5649
653-660	Replicate Weight 15	5649
661-668	Replicate Weight 16	5649
669-676	Replicate Weight 17	5649
677-684	Replicate Weight 18	5649
685-692	Replicate Weight 19	5649

**NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86
PUBLIC USE FILE
NUMBER OF RECORDS = 5649**

FILE LOCATION	ITEM DESCRIPTION & CODES	CONTROL COUNTS
693-700	Replicate Weight 20	5649
701-708	Replicate Weight 21	5649
709-716	Replicate Weight 22	5649
717-724	Replicate Weight 23	5649
725-732	Replicate Weight 24	5649
733-740	Replicate Weight 25	5649
741-748	Replicate Weight 26	5649
749-756	Replicate Weight 27	5649
757-764	Replicate Weight 28	5649
765-772	Replicate Weight 29	5649
773-780	Replicate Weight 30	5649
781-788	Replicate Weight 31	5649
789-796	Replicate Weight 32	5649
797-804	Replicate Weight 33	5649
805-812	Replicate Weight 34	5649
813-820	Replicate Weight 35	5649
821-828	Replicate Weight 36	5649
829-836	Replicate Weight 37	5649
837-844	Replicate Weight 38	5649
845-852	Replicate Weight 39	5649
853-860	Replicate Weight 40	5649
861-868	Replicate Weight 41	5649
869-876	Replicate Weight 42	5649
877-884	Replicate Weight 43	5649
885-892	Replicate Weight 44	5649

TABLE 1: RACIAL¹ COMPOSITION OF THE SAMPLE AND ESTIMATED POPULATION BY AGE INTERVAL AND GENDER.
NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86.

AGE INTERVAL	RACIAL GROUP	GENDER					
		MALE		FEMALE		TOTAL	
		NUMBER IN SAMPLE	ESTIMATED POPULATION	NUMBER IN SAMPLE	ESTIMATED POPULATION	NUMBER IN SAMPLE	ESTIMATED POPULATION
65-74	WHITE	888	742,601	1905	1,372,055	2793	2,114,656
	BLACK & OTHER	156	75,154	261	164,084	417	239,238
	TOTAL	1044	817,755	2166	1,536,139	3210	2,353,894
75-79	WHITE	385	299,301	776	525,990	1161	825,291
	BLACK & OTHER	47	30,626	116	38,765	163	69,391
	TOTAL	432	329,927	892	564,755	1324	894,682
80-84	WHITE	242	133,294	409	333,169	651	466,463
	BLACK & OTHER	32	14,878	68	22,663	100	37,541
	TOTAL	274	148,172	477	355,832	751	504,004
85 AND OVER	WHITE	136	65,986	187	171,906	323	237,892
	BLACK & OTHER	13	5,034	28	12,914	41	17,948
	TOTAL	149	71,020	215	184,820	364	255,840
ALL AGES	WHITE	1651	1,241,182	3277	2,403,120	4928	3,644,302
	BLACK & OTHER	248	125,692	473	238,426	721	364,118
	TOTAL	1899	1,366,874	3750	2,641,546	5649	4,008,420

¹ Race recode for poststratification (file location 529)

TABLE 2. NUMBER OF PERSONS AND ESTIMATED POPULATION WITH DECAYED AND FILLED TEETH (DFT) AND DECAYED AND FILLED SURFACES (DFS). NATIONAL SURVEY OF ORAL HEALTH IN SENIORS: U.S. 1985-86

NUMBER	DFT		DFS	
	NUMBER IN SAMPLE	ESTIMATED POPULATION	NUMBER IN SAMPLE	ESTIMATED POPULATION
0	272	165,166	272	165,166
1	269	172,007	120	69,816
2	284	177,124	129	85,308
3	244	167,011	121	75,376
4	233	167,666	117	76,787
5	211	153,165	112	70,681
6	192	145,061	110	73,425
7	169	122,661	84	57,755
8	178	145,343	103	70,058
9	151	119,477	91	67,782
10	164	118,090	77	56,587
11	158	120,430	83	68,243
12	130	102,150	78	61,422
13	136	110,750	76	53,692
14	101	75,687	68	46,559
15	102	68,574	57	36,166
16	77	57,097	72	53,794
17	72	56,738	56	36,005
18	55	42,922	66	45,205
19	31	25,025	60	52,876
20	18	13,830	62	61,569
21	15	14,569	48	33,438
22	10	5,039	41	33,827
23	7	4,384	56	52,938
24	5	5,246	45	31,144
25	3	3,666	53	41,469
26	1	425	56	47,295
27	0	0	50	35,976
28	0	0	53	45,238
29-49	-	-	623	473,098
50-69	-	-	201	143,673
70 AND OVER	-	-	48	36,934
ENDENTULOUS	2,361	1,649,118	2,361	1,649,118
ALL PERSONS	5,649	4,008,420	5,649	4,008,420

IV. DEFINITIONS FOR SELECTED DATA ITEMS AND SUMMARY RECODES FOR CLINICAL ASSESSMENTS

DECAYED (D) MISSING (M) OR FILLED (F) ASSESSMENTS FOR PERSONS

DFT in COLUMNS 512-513 is based on the coronal caries tooth calls located in COLUMNS 301-328 and represents the number of tooth codes 1 and 2 for each tooth. DFS in COLUMNS 514-516 is based on the coronal caries surface assessments located in COLUMNS 49-188 and represents the number of surface codes 1-6 for each tooth. DMFS in COLUMNS 517-519 is also based on the coronal caries surface assessments located in COLUMNS 49-188 and represents the number of surface codes 1-7 for each tooth assessed. The code 99 or 999 is utilized for surfaces excluded from the clinical assessment for coronal caries.

PERIODONTAL ASSESSMENTS

- **Quadrants and Sites**

Periodontal assessments were made in 28 buccal and mesial sites in random combinations of quadrants for all persons *with at least one tooth present*. The detailed descriptions for the periodontal assessments for gingival bleeding, calculus and periodontal destruction are located in Appendix I. Each designation of combined quadrants represents approximately $\frac{1}{4}$ of the randomly selected sampled persons. The combinations of upper and lower quadrants are located in COLUMN 329 and represent the following:

- 1 = upper right and lower right
- 2 = upper left and lower left
- 3 = upper right and lower left
- 4 = upper left and lower right

- **Gingival Assessment**

An affected site for the gingival assessment was defined as one that bled after gentle probing of the sulcus. The gingival assessment for buccal and mesial sites for each tooth assessed is located in COLUMNS 330-357.

- **Calculus Assessment**

For the calculus assessment two sites were examined but only one call was recorded for each tooth eligible to be assessed. The codes for the calculus assessment are located in COLUMNS 358-371.

- **Periodontal Destruction Assessments**

Recession

Pocket Depth

Loss of Attachment (LA)

LA Recodes

The distance from the free gingival margin (FGM) to the cemento-enamel junction (FGM/CEJ) and the distance from the FGM to the bottom of the sulcus or pocket (FGM/POCKET) were measured directly by the examiner in the buccal and mesial sites for each tooth in the designated upper and lower quadrants. A total of 28 sites were eligible to be examined unless the tooth was missing or the site could not be assessed for other reasons. When gingival recession was present the FGM/CEJ measurement was recorded as a negative value (-12 to -01). When no recession was present the value for the FGM/CEJ measurement is a positive value (00 to 12). Pocket depth represents the distance in millimeters (mm) from the CEJ to the bottom of the pocket.

The LA is calculated by subtraction of the two measurements [FGM/Pocket - FGM/CEJ] for each site. If one of the measurements is missing, the calculation of LA cannot be made. The FGM/CEJ and FGM/POCKET measurements in mm by site for each tooth assessed are located in COLUMNS 372-511.

The LA RECODE #1 for all persons with at least one scored site with LA ≥ 1 is located in COLUMN 520. The LA RECODE #2 for all persons with at least one scored site with LA ≥ 2 is coded in COLUMN 521. The maximum LA in mm for the scored sites is located in COLUMNS 522-523.

V. ADMINISTRATION AND PROCEDURES

Enlistment of the Participation of Senior Centers and Seniors

To ensure quality, the survey was administered according to standard procedures throughout the training and field work, and the criteria for the dental examinations were precisely defined. To achieve a maximum cooperation rate among senior centers, the procedure included

- advance contacts to obtain endorsement from relevant influential organizations;
- contacts on the State and regional level to pave the way for acceptance of the survey;
- addressing specific concerns that selected centers might have about participation; and
- refusal conversion.

A specified number or quota of seniors from each center was recruited. The following steps were taken to ensure maximum participation at each of the selected centers:

1. Recruiting on a day when the greatest number of seniors were at the center via a group meeting, letters which invited seniors to participate, and study brochures;
2. Scheduling the examinations on a day designated by the center as one of their busiest so that additional seniors could sign up for participation on the day of the examination;
3. Providing advance promotion of the study in a prominent place within the center, and allowing seniors to sign up for examination appointments in advance;
4. Distributing appointment cards to seniors at recruitment time as well as obtaining home addresses in order to send reminder cards to their homes shortly before the examination period. If recruitment at a senior center fell short of the required number, another senior center was selected within the same PSU.

Training and Calibration

The preparation for conducting dental examinations nationwide was extensive. Training for all staff was rigorous, requiring formal 1-day sessions for the senior center screening and negotiation team and for local coordinators, 1 week's classes for traveling field coordinators, and 2 weeks' training and calibrating for the examination teams. A pretest and 1-day debriefing followed the training and calibration.

Facility Screening and Negotiation Team

Experienced telephone interviewers were selected as members of the screening and negotiating team. All were familiar with the complexities of negotiating with senior centers. Training for the screening and negotiation team, conducted approximately 2 months before the startup for the coordinating team members, allowed lead time sufficient to screen, negotiate, and recruit senior centers for the first examinations. A 1-day training session for the facility screening and negotiation team members was held.

The initial staff—three full-time screener/negotiators and two clerks trained to assist by organizing assignments and preparing advance packets for senior centers—was augmented to nine screener/negotiators and two full-time supervisors after it became obvious that their work was more time consuming and difficult than anticipated. The addition of more lead time for screening and negotiations provided field coordinators sufficient time to work in their assigned centers.

Training for screening and negotiation team members consisted of a step-by-step review of the screening and negotiation procedure manuals and forms designed expressly for this project, study definitions, and role-playing.

Field Coordination Team

A 1-week training session was held for 10 full-time coordinators (of whom 7 had extensive field experience on prior studies) and four temporary coordinators who would serve as local coordinators during the Washington, DC, area pilot study. Included in the instruction were classroom interactive lectures, visual aides, role plays, and exercises covering sampling, scheduling, recordkeeping, and reporting procedures.

Immediately after training, the field coordinators traveled to their first PSU assignments, which enabled them to complete their assignments before the arrival of the examination teams. Local (nontraveling) coordinators hired in each PSU assisted the lead coordinators with advance coordination and recruitment. Preparation for the average 3 to 4 weeks' work at the local level, which also entailed assisting the examination teams in the PSUs, consisted of about 8 hours' training, generally divided evenly between recruitment and examination procedures. By accompanying the lead coordinators on at least one visit to each selected senior center, the local coordinators became acquainted with the contact person and physical

layout at each location prior to the examination period. They then assisted the lead coordinators with scheduling seniors recruited at group meetings and telephoning seniors when personal contact was impossible.

Dental Examination Team

Joint training for nine dentists and nine recorders comprised, during the first week, an introduction to the purpose of the study, the sample design, the method of data collection, the role and responsibility of each member of the team, and the dental equipment used for the study. Conducted by NIDR staff, the sessions included lectures and demonstrations of the criteria for each dental assignment.

The second week of training, conducted by Westat staff, consisted of a 1-day review of the criteria for each assessment and 3 days of timed examiner calibration. During the calibration sessions, each examiner and the senior dental advisor (the standard) examined the same subjects, after which data forms were collected. NIDR staff entered the data into a computer to compare the results from field examiners and the senior dental advisor. The differences were very small, indicating that all examiners were closely calibrated to the standard. To foster optimum teamwork, the dentists and recorders were both exposed to the coding conventions as well as the examination criteria.

Pilot Study

A pilot study conducted in the Washington, DC, area the week following examiner and recorder training provided an opportunity to test field procedures and dental equipment and to observe the examination team under field conditions. During the pilot test, seniors were examined at several senior centers. A 1-day debriefing session was held immediately after the pilot test.

Field Procedures

Field work began at the home office approximately 1 to 2 months before field activities were to begin in a PSU, when the screening and negotiating team contacted each senior center for the sample by telephone to secure its participation in the study.

Each of the nine teams, and one backup team, conducting field activities for the study consisted of a traveling coordinator, a local coordinator, a dentist, and a recorder. Shortly after screening and negotiating activities were completed in a PSU, one or more coordinators arrived in the PSU to finish any negotiations with the senior centers, to conduct recruiting of individuals within each center, to schedule examination days at the centers, and to schedule examinees' appointments. The coordinators began working in PSUs 2 or 3 weeks prior to the arrival of the examiners. During the 1-day overlap when the coordinator and the dentist and recorder were in the same PSU, the coordinator briefed the others on the centers and gave them examination schedules, then left the PSU to begin activities in the next scheduled PSU.

The dentist, recorder, and local assistant coordinator traveled to the senior centers each day to conduct the examinations, taking portable dental equipment with them. Examinations were conducted in the center if the center could provide space for the examinations. When space was not available within a center, the examinations were performed in mobile examination centers (MECs), large recreational vehicles fully equipped for dental examinations.

To avoid the effects of weather on examination schedules, the examination teams began in the Southeast, moving across the South and Southwest during the early spring and reaching the West Coast by May. They then traveled through the Northwest and the Midwest during the early summer, reaching the northeastern States by fall. Field operations were completed in the Northeast during late fall 1985 and winter 1986. Dental examiners were rotated within regions and among PSUs.

Response Rates

Final overall response rates by region are given below.

<i>Regions</i>	<i>No. Contacted at Exam Time</i>	<i>No. Examined</i>	<i>Response Rates</i>
I	870	744	86%
II	757	640	85%
III	876	757	86%
IV	979	772	79%
V	1,028	925	90%
VI	923	816	88%
VII	1,107	995	90%
Total	6,540	5,649	86%

VI. ORAL EXAMINATION CRITERIA AND QUALITY CONTROL

General Procedures

Upon the arrival of the dentist and recorder in a PSU, the coordinator briefed them on their scheduled senior centers and on any problems within each facility. The local coordinators also attended these briefings.

On examination day, the examination teams arrived at the center at least 30 minutes ahead of the first scheduled examination and checked in with the contact person. The dentist and recorder set up the portable dental equipment in the designated area. When space was not available within the center, a mobile examination center (MEC) was driven to the facility and parked within walking distance.

At examination time, the local coordinator requested that each participant complete a consent form and a brief demographic and dental history profile. The dentist conducted an oral examination to determine the extent of coronal and root surface caries and periodontal disease, and called out data codes to indicate the findings. The dental recorder marked the appropriate data codes on an optical scanning form. At the conclusion of the examination, with the subject still present, the recorder scan-edited the data to ensure accuracy, completeness, and legibility. All forms for a PSU were submitted in a batch for processing by the NIDR.

Diagnostic Criteria

Coronal and root surface caries assessments were made for 28 permanent teeth (128 tooth surfaces) and for gingival bleeding, calculus, and periodontal attachment level at two sites per tooth (mesial and buccal) in half the upper and lower arches, in randomly selected quadrants.

The diagnostic criteria for this survey are presented in Appendix I. These criteria were excerpted from the *National Survey of Oral Health in U.S. Employed Adults and Seniors: Calibration and Training, January 14-18, 1985*.

Quality Control

Quality control procedures were instituted to ensure that the data collected would be reliable and valid. These procedures were to conduct replicate examinations, to observe examiners, and to rotate and move examination teams between PSUs.

To minimize the effect of potential examiner bias within a PSU, examination teams were scheduled so that no more than 20 percent of the examinations in a PSU would be conducted by any one examiner. Throughout the study, the schedule was monitored and altered as necessary to ensure adherence to this "20 percent rule." Recorders were rotated among examiners to avoid the systematic bias of any examiner-recorder data recording pattern. At

least two examination teams examined the subjects in each PSU; four or five teams performed the examinations in each region.

Besides conducting the calibration of all clinical assessments and pretesting of the fieldwork, the standard examiner visited each examination team in the field and performed replicate examinations on groups of study subjects to compare findings.

As discussed above, the environment in which the examinations were performed and the equipment, instruments, and supplies used by the dentists and recorders were also fully standardized. In each senior center with adequate space for the procedure (i.e., large establishments) the setup of portable equipment and instrumentation was exactly that specified by the study protocol. At sites lacking adequate examination space, the use of MECs ensured identical conditions.

Adherence to a strict time frame for conducting the examinations, as well as for preliminary screening, negotiations, and followup with makeup examinations, was also a means of maintaining quality control, minimizing uncontrolled variables that could affect rates of participation or even the examinations themselves. Designated procedures were observed for all contacts with senior centers and seniors.

The standard recruitment procedures were designed to yield maximum initial response rates. Printed information, letters of introduction, and reminders were carefully designed and used uniformly for the duration of the study.

VII. DATA ANALYSIS AND VARIANCE ESTIMATION

Constructing Estimates

Constructing estimates from the OHS requires some care. The data were obtained from a complex multistage design. The first stage consisted of the same first-stage units chosen for the employed adult sample. The second stage was a sample of senior centers located within the first stage geographic areas. The third stage was a quota of persons 65 years of age and over who attended on the days the teams were at the centers. In this section, recommended procedures and the rationale for them are described. General considerations are presented first, then more specific ones.

Weighting Data

The general methods of estimation and analysis of data described in standard textbooks assume that all sample observations are independently selected, with equal probabilities of selection, i.e., that the data are from a simple random sample. The requirements for simple random sampling are rarely met in surveys since it is almost always more cost effective to select samples through a complex sample design (e.g., using stratification, clustering of observations, and different sampling rates for different subgroups of the population) than to select simple random samples. Due to varying selection probabilities and covariances, serious biases could be introduced and misleading results obtained if standard methods were applied to data from complex designs. Because this NIDR survey employed unequal weights and clustered samples, simple random sampling assumptions are inappropriate.

Weighting sample data so that tabulations give estimates of population totals is a common procedure in complex sample surveys. It is essential when universe totals are required. Although it is less critical when the focus is on internal analysis of the sample data (e.g., regression models) rather than on population totals and percentages, even in these situations weighting will frequently improve the quality of the estimates.

Weighting is normally used to accomplish a number of objectives, all of which apply to this survey:

- to bring sample data up to the dimensions of population totals;
- to permit unbiased estimates when elements of the population have different probabilities of selection;
- to use auxiliary data to reduce sampling errors;
- to minimize biases arising from the fact that nonrespondents may be different from respondents; and

- to reduce other imperfections in the study; for example, if the sampling frame does not comprise the entire population of interest, there may be minor errors in sampling.

Population Estimates

An estimator of the population mean, \hat{Y}_1 (i.e., y_i = number of permanent teeth) based on the sample is

$$\hat{Y}_1 = \frac{\sum_{i=1}^n w_i y_i}{\sum_{i=1}^n w_i}, \quad \text{where } w_i \text{ is the person sampling weight}$$

and similarly an estimator of a population total, \hat{Y}_2 (i.e., y_i = indicator for an edentulous person) is

$$\hat{Y}_2 = \sum_{i=1}^n w_i y_i, \quad y_i = \begin{cases} 1, & \text{if edentulous} \\ 0, & \text{otherwise} \end{cases}$$

w_i is the person sampling weight

Other Considerations

Other uses of the data from this survey involve two important considerations. The first is that of multiple measurements. Although the weights are on a person level, there are multiple measures (m measures on n teeth) per person. To obtain person-level statistics, summary statistics must be constructed. For instance, a separate measure exists for each tooth. If an individual has k teeth and d_i is a measured characteristic of the i -th tooth, then the average level of the characteristic for the j -th person is

$$\bar{d}_j = \frac{1}{k} \sum_{i=1}^k d_i$$

Other possible person-level summaries include

$$\max(d_1, \dots, d_k) \text{ and } 1 - \prod_{i=1}^k (1 - d_i)$$

The first example might be useful for summarizing pocket depth. The second is useful for summarizing whether any of the teeth meet a specific criterion. In that case, d_i is an indicator variable that is equal to 1 if a tooth meets a criterion; otherwise, it is zero. Summary statistics are appropriately adjusted by the person sampling weight.

The second consideration encountered is that of missing data, a common problem in surveys. The loss of information is caused by failure either to obtain or to record data. The many techniques for adjusting for missing data include making assumptions about the missing data and imputation (see Little and Rubin, 1986).

Reliability of Estimates

Two types of errors are possible in making an estimate based on a sample survey—sampling and nonsampling. The standard error primarily indicates the magnitude of the sampling error, i.e., the variation in the data that occurs by chance because a sample rather than the entire population was surveyed. While standard errors also partially measure the effect of some nonsampling errors such as nonresponse, they do not measure any systematic biases in the data. The nonsampling errors can be attributed to many sources, e.g., inability to obtain information about all sampled individuals, definitional difficulties, collection errors made during recording or coding, data processing errors, estimating values for missing data, and failure to represent all units within the sample. The full extent of nonsampling error is generally unknown.

The next section describes procedures for calculating estimates for standard errors and for using these estimates to determine the amount of confidence that users should place in statistics from the survey. Particular emphasis is placed upon statistics that involve comparisons between subgroups of the population. These procedures are based on the assumption that no systematic biases exist. Users should always consider the possibility that biases are distorting statistics and comparisons.

Variance Estimates

Variance is defined as a measure of a statistic's reliability due to random selection. In particular, design variance is due to the randomness that arises because a sample rather than the whole population is examined. If the whole population were selected, the sampling variance would be zero. This heuristic definition can be put in more theoretical terms:

Let s_1, s_2, \dots, s_I be the set of all possible samples of the study population that can be obtained from a given sample design.

Let p_1, p_2, \dots, p_I be the respective probabilities of selecting each of the samples. Assume x is a statistic of interest.

Let x_1, x_2, \dots, x_I be the estimates of x that would be obtained from each of the possible samples.

Let \hat{x} be the estimate from the sample that is actually selected.

Then the expectation, variance, and standard error of \hat{x} are defined as follows:

$$E(\hat{x}) = \sum_{i=1}^I p_i x_i$$

$$\text{var}(\hat{x}) = \sum_{i=1}^I p_i [x_i - E(\hat{x})]^2$$

$$\text{se}(\hat{x}) = \sqrt{\text{var}(\hat{x})}$$

Techniques for estimation of variances in complex surveys include Taylor series linearization (TSL) and balanced repeated replications (BRR), of which balanced half-sample replication (BHS) is a special case (McCarthy, 1966, 1969). The BHS procedure requires a design with two primary units per stratum, or appropriate association of sampling units with one of two pairs. Half-samples are then formed by selecting one unit from the pair in each stratum. Each different way of splitting the sample into two half-samples leads to another replicate estimate. The variance among the replicate estimates provides an estimate of the variance of the statistic. In this study, pseudostrata have been formed so that two PSUs are assigned to each stratum. Pseudostratum and pseudo PSU are given in data file locations 526-527 and 528 respectively.

For the purpose of developing estimates of variance using BRR, 44 variance strata were constructed. For each replicate, the original weights were ratio-readjusted by gender, race (white, Black and other), and age group (65-74, 75-79, 80-84, 85+) so that the weight of an individual could be changed over replications. Judkins (1989) used a modified version of BRR to estimate standard errors for these data. The first half-sample of each of the 44 replicates was adjusted down by 10 percent and the second half-sample was adjusted up by 10 percent. The adjustments to the weights were then recalculated for each replicate. (These weights are available in file locations 541-892.)

In general, denote a sample estimate x (e.g., decayed, missing, filled teeth) by x_k from the k -th half-sample; $k=1, 2, \dots, 44$.

A population value for x is estimated by

$$\bar{x} = \frac{1}{44} \sum_{k=1}^{44} x_k$$

and the sample variance of x is given by

$$\text{Est}(\text{var } x) = \sum_{k=1}^{44} \frac{(x_k - \bar{x})^2}{44}$$

In the case of the perturbation factor (p) (Judkins, 1990),

$$\text{Var}_p(x) = 100 \text{ Var}(x) \text{ where } 100 = \frac{1}{p^2}, p = 0.10.$$

The advantage of this method is its simplicity, since the estimate x may be a simple linear estimate such as a population total or a mean, or a complex nonlinear estimate such as a correlation coefficient. Thus, given the person sampling weights (file locations 530-540) and a set of half-sample weights, the variance of any estimate may be computed by applying the formulas shown above.

Software for Calculation of Variances

A number of computer programs have been developed to calculate sampling errors of estimates based on complex sample designs (Kaplan and Francis, 1979; Wolter, 1985).

The software Survey Data Analysis (SUDAAN), developed at Research Triangle Institute, uses a first-order Taylor series approximation of the deviations of estimates from their expected values. This approximation for large samples is given in Kendall and Stuart (1961). Woodruff (1971) presents the application of this technique to sample surveys.

WESVAR, developed at Westat, uses BRR and Jackknife techniques for computing sampling errors. It can be accessed from Statistical Analysis System (SAS) after installing a load module on a computer.

SUDAAN and WESVAR procedures both include a range of options such as chi-square statistics for contingency tables, variances for functions of multiple variables, standard errors, coefficient of variation, relative variances, and confidence intervals, as well as facilities for conducting hypothesis testing about the elements of the table, and for creating a file of results. Other software includes OSIRIS, developed at the University of Michigan.

Examples of procedures for mean number of permanent teeth by gender category follow:

TLS (SUDAAN)

PROC SUDAAN;

NEST pseudostratum pseudo PSU;
WEIGHT person sampling weight;
VAR edentulous/dentate variable name;
SUBGROUP gender;
LEVELS 2;
TABLES gender;

BRR (WESVAR)

```
PROC WESVAR METHOD = BRR;  
WEIGHT      person sampling weight  
            replicate weight1 - replicate weight44 variables;  
VAR         edentulous/dentate variable name;  
COMPUTE     meanvar = edentulous/dentate variable name/C;  
FACTOR      100;  
TABLES     gender/COMPUTE (VALUE LIST);
```

where : C is set to 1 for all relevant cases
 meanvar = is a user supplied variable name that is the mean number of
 permanent teeth

Each table will contain the mean of the variable of interest, sample size and weighted population count of persons with valid responses to the analysis variable in each gender category.

APPENDICES

Appendix I. DIAGNOSTIC CRITERIA

The NIDR scoring system includes the following codes for teeth and surfaces:

- **TOOTH CODES**

- S, sound crown (no caries or restorations)
 - R, sound root (no caries or restorations)
 - Y, exclusion (tooth, root cannot be scored)
 - E, missing (caries/periodontal disease)
 - M, missing (orthodontic or non-disease)
 - U, unerupted
 - C, full crown coverage

- **SURFACE CODES**

- *Caries*

- X, occlusal surface
 - 0, lingual surface
 - 1, buccal surface
 - 2, mesial surface
 - 3, distal surface

- *Restorations*

- 5, occlusal surface
 - 6, lingual surface
 - 7, buccal surface
 - 8, mesial surface
 - 9, distal surface

- *Recurrent Caries*

- 55, occlusal surface
 - 66, lingual surface
 - 77, buccal surface
 - 88, mesial surface
 - 99, distal surface

There is no occlusal code, i.e., X or 5, for root surfaces or for the crowns of anterior teeth.

These codes were called by the examiner and electronically converted to the data codes shown in Section III, Public Use Data File Description.

Coronal Caries

The D component of the DMFS (decayed, missing or filled surface) assessment is diagnosed as follows:

Frank lesions are detected as gross cavitation. Incipient lesions may be subdivided into three categories according to location, each with special diagnostic considerations. The categories are:

A. *Pits and fissures on occlusal, buccal and lingual surfaces:* These areas are diagnosed as carious when the explorer catches after insertion with moderate to firm pressure and when the catch is accompanied by one or more of the following signs of decay:

1. Softness at the base of the area.
2. Opacity adjacent to the area providing evidence of undermining or demineralization.
3. Softened enamel adjacent to the area which may be scraped away with the explorer. (Care should be taken to avoid removal of enamel that could be remineralized.)

In other words, a deep pit or fissure in which the explorer catches is not in itself sufficient evidence of decay; it must be accompanied by at least one of the above-named signs.

B. *Smooth areas on buccal (labial) or lingual surfaces:* These areas are carious if they are decalcified or if there is a white spot as evidence of subsurface demineralization and if the area is found to be soft by:

1. Penetration with the explorer, or
2. Scraping away the enamel with the explorer. (Care should be taken to avoid removal of enamel that could be remineralized.) These areas should be diagnosed as sound when there is only visual evidence of demineralization, but no evidence of softness.

C. *Proximal surfaces:* For areas exposed to direct visual and tactile examination, as when there is no adjacent tooth, the criteria are the same as those for smooth areas on facial or lingual surfaces. For areas not available to direct visual and tactile examination, the following criterion applies: A discontinuity of the enamel in which

the explorer will catch is carious if there is softness. In posterior teeth, visual evidence of undermining under a marginal ridge is not acceptable evidence of a proximal lesion unless a surface break can be entered with the explorer. In the anterior teeth, however, transillumination can serve as a useful aid in discovering proximal lesions. Transillumination is achieved by placing a mirror lingually and positioning the examining light so that it passes through the teeth and reflects into the mirror. If a characteristic shadow or loss of translucency is seen on the proximal surface, then this is indicative of caries on the surface. Ideally, the actual diagnosis should be confirmed with the explorer; however, clear visualization of a lesion by transillumination can justify a positive diagnosis.

The M (missing) component of the DMFS surface assessment traditionally represents only those permanent teeth that have been extracted as a result of caries. For this survey, however, no distinction will be made between teeth lost from caries and those lost for periodontal reasons. It is necessary, however, to distinguish teeth extracted because of caries or periodontal destruction from those extracted or missing for other reasons such as trauma or orthodontics. Therefore, there will be two calls for the missing components: E when the tooth was lost as a result of caries or periodontal destruction and M when the tooth was lost for any other reason.

The F component of the DMFS assessment represents a tooth surface that has been filled, with either a permanent or temporary filling, as a result of caries involvement. Here also it is necessary to distinguish between surfaces restored for caries and those restored for other reasons, such as trauma, hypoplasia, or malformation.

Special Conditions:

1. Coronal caries starts at or just above the cemento-enamel junction (CEJ). If the coronal and root surfaces are both affected by a single lesion, it will be necessary to determine whether the lesion originated at the root or the crown. If more than half of the lesion is above the CEJ, then the site origin is assumed to be coronal surface. If the site of origin is determined to be on the root, no call is made for coronal caries. When the lesion appears to affect the root and coronal surfaces equally, both surfaces should be scored as affected. For restorations, the same rules apply.
2. Teeth restored with full coverage—If a permanent tooth bears a full crown restoration, the examiner must try to determine the reason the crown was placed. If the crown was placed because of disease, the tooth will be coded as C, indicating a 5, 6, 7, 8, or 9 on the posterior tooth, or a 6, 7, 8, or 9 on an anterior tooth. However, if the crown was placed for any other reason, such as a fracture, malformation, or cosmetic reasons, the tooth is scored Y. For the purposes of this survey, abutment teeth with full crown coverage will also be scored C. Note: This rule applies only to permanent teeth with full crowns or jackets. If a fracture, for example, has been restored with

anything less than full coverage, all surfaces not involved by the restoration will be scored as usual.

3. Banded or bracketed teeth—All visible surfaces are to be examined as well as possible and scored in the usual manner.
4. Teeth extracted for orthodontic reasons—Certain teeth, typically first bicuspid, may have been extracted as part of the orthodontic treatment. These are scored as M. The examiner must determine that the teeth were extracted for orthodontic reasons, although this is not usually difficult because of the typically symmetrical patterns of such extractions. Rather than trying to determine whether the extracted teeth are first or second bicuspid, we have adopted the convention of calling them first bicuspid. Teeth other than bicuspid may also be extracted for orthodontic reasons. In many cases the subject will have good recall of the reasons for the extractions and can help the examiner make the correct determination.
5. Non-vital teeth—Non-vital teeth are to be scored in the same manner as vital teeth. If, however, in your opinion a restoration on a non-vital tooth was placed solely to seal a root canal and not for caries, that restoration will not be scored. If no other lesions or restorations are present, the tooth will be called sound.
6. Hypoplastic teeth—If you can determine that a restoration on such a tooth was placed solely for aesthetic reasons and not for caries, that restoration will not be scored. If a hypoplastic tooth is restored with a full crown, it is to be excluded (coded Y).

General Considerations Applicable to Criteria and Other Examination Procedures:

1. Stain or pigmentation alone should not be regarded as indicative of decay.
2. A tooth is considered erupted when any part of its crown projects through the gum.
3. In the case of supernumerary teeth, the examiner must decide which tooth is the "legitimate" occupant of the space. Only that tooth is to be scored.
4. Where both a deciduous and a permanent tooth occupy the same tooth space, only the permanent tooth is called. However, if only a deciduous tooth is present, the space is assigned a U, indicating an unerupted permanent tooth.
5. Third molars are not included in the survey. When examining second molars, it is important to note that a third molar may occupy the space of a missing second molar. If it can be determined that this has occurred, the diagnosis and call must relate to the status of the missing second molar, not the drifted third molar. If the second molar, for example, was extracted due to caries and the space is now occupied by a sound third molar, the second molar is scored E and the third molar is not scored.

6. When the tooth crown is destroyed by caries and only the roots remain, this is recorded as all surfaces carious.
7. If a surface contains both a caries lesion and a restoration, both are called. However, if the caries is contiguous with the restoration, a "recurrent caries" call is made using the double score notation (i.e., 55, 66, 77, 88, or 99). It is possible to have calls of all three types on the same surface. For example, an occlusal surface with a sound restoration, a new lesion, and a restored area with recurrent decay would be coded for all three of these conditions (i.e., X, 5, 55). Note: A defect in the margin is not considered carious in the absence of definitive visual and tactile criteria for caries. As a precaution, avoid excessive probing of the margins of defective restorations that could be dislodged. It is important to examine each filled surface for recurrent decay before making the final surface call. If recurrent decay is discovered after the surface has been called, the recorder will have to erase the original call, leading to possible recording errors.
8. If an adhesive sealant is present in a pit and fissure, and there is no evidence of caries or restoration, that surface would be considered sound. However, sealant used as a restorative material is scored as a filling.
9. When a filling or a lesion on a posterior tooth or a lesion on an anterior tooth extends beyond the line angle onto another surface, then the other surface is also called. However, a proximal filling on an anterior tooth is not considered to involve the adjacent lingual or labial surface unless it extends at least one-third of the distance to the opposite proximal surface.
10. For the purpose of the survey, incisal edges of anterior teeth are not considered as separate surfaces and are not represented as such on the data collection forms. If a lesion or restoration is confined solely to the incisal edge, it should be scored as involving the nearest adjacent surface.
11. An effort should be made to examine each subject in the same manner regardless of the amount of caries or prior treatment. It is well to systematize the examination procedure and to follow the same routine for each examinee. For dental caries the exam forms are set up to start with the upper left central incisor and proceed distally through the second molar. The same procedure is followed in sequence for the upper right, lower left, and lower right quadrants. The examiner should examine the surfaces in the following order: lingual, labial, mesial, and distal for the anterior teeth and occlusal, lingual, buccal, mesial, and distal for the posterior teeth. It is not advisable to call out individual codes as each tooth or surface is examined. This is confusing to the recorder. It is better if the examiner accumulates the diagnostic codes in his or her memory in logical groupings before dictating the calls to the recorder. As an aid to consistency, teeth should be air-dried prior to the examination of each quadrant.

12. Mobile teeth are to be scored in the usual manner but should be examined with caution.
13. Fixed or removable prostheses (full or partial) will be recorded on the form, by arch, if present. It is important to remember that the subject may not be wearing prostheses at the time of examination; the examiner should question the subject to determine whether a wearable prosthesis exists.
14. In the case of full mouth or full arch extractions, the examiner will ascertain whether the appropriate call is E or M for each quadrant. Rather than assigning a code to each missing tooth, the recorder will code the entire quadrant E or M.

Root Surface Caries

Caries occurs in root surfaces of teeth only where there has been loss of normal gingival attachment (apical recession from the CEJ). Generally, caries in root surfaces occurs coronal to the present gingival margin; very few lesions exist solely in the gingival pocket. Although all exposed root surfaces are susceptible, it has been reported that caries predominantly occurs in proximal and buccal aspects.

Root caries starts at or just below the CEJ. Most commonly, early root caries lesions are small and round. However, they may spread laterally along the cervical junction, sometimes coalescing with neighboring lesions to produce a gutter or even a collar of caries around the root. Caries that begins in a root surface does not tend to affect the outer enamel surface directly. Rather, it may undermine the cervical enamel and may exist in coronal dentin, leaving a cervical enamel spur or ledge. If the carious process continues, pieces of this ledge may fracture, making it appear as if caries had originated in the enamel as well as the cementum. The opposite sequence can occur as well, with cervical coronal caries spreading apically to involve the CEJ and then the root surface. Whenever both a coronal surface and a root surface are affected by a single caries lesion, only its likely site of origin should be scored as decayed on the recording form. The likely site of origin can often be determined by clinical appearance. When it is impossible to determine the site of origin, both the coronal and root surfaces should be scored "decayed." For restorations, the same rules apply. The margins of all filled root surfaces should be gently checked for recurrent decay, and the criteria for scoring "decayed and filled" root surfaces should be the same as for coronal surfaces.

Root caries seldom spreads apically. However, because new decay usually starts at or near the gingival margin, with continued loss of gingival attachment (recession), new lesions may develop further down the root. Areas of abrasion or erosion in root surfaces rarely become carious because they are generally kept clean and are free of plaque. Root caries frequently occurs beneath plaque, but rarely beneath calculus. Accumulations of plaque which obstruct the examination procedure should be removed. Surfaces covered entirely by calculus are considered sound.

Active caries lesions in root surfaces are yellow/orange, tan, or light brown in color. Lesions in remission tend to be darker, sometimes almost black. When root caries is covered by small amounts of plaque, the discoloration of the lesion usually shows through.

In some incipient lesions the carious area of the root surface may merely be discolored without cavitation, but the area will be soft to exploration. Cavitation with jagged margins and a roughened but soft floor or base usually occurs in advanced lesions. Normal cementum is softer than enamel and frequently will yield to pressure from the tip of an explorer. Areas of root caries, however, are softer than surrounding cementum; therefore, it is possible to differentiate sound cementum from carious cementum based on tactile sense. In the presence of root caries, an explorer penetrates the tissue but usually can be removed easily. However, if the explorer penetrates but resists withdrawal or "sticks," the surface is usually sound cementum. With experience and training, it is possible to develop a tactile sense to differentiate sound from carious cementum.

N.B. For areas without gross cavitation, visual criteria related to location, shape and discoloration of the suspected area do not, in themselves, define root caries. The tactile criteria of softness to an explorer tip must be met for a definitive diagnosis of root caries to be made.

For the assessment of gingival recession and root caries, each tooth is considered to have four surfaces (aspects), irrespective of the number of its roots. These surfaces are lingual, buccal (labial), mesial, and distal. Because of the constricted anatomy of the root surfaces of lower incisors, few lesions will be confined solely to the lingual surface—only small lesions at the midpoint. Most lingual lesions will also affect the adjacent mesial and/or distal root surfaces. However, lesions of the mesial and distal surfaces which extend lingually but do not reach the midline are only scored as interproximal lesions. On all other teeth, for root caries that appears to wrap around the line angle of the root, the more involved surface is considered the primary site of the lesion and is scored carious, whereas the adjoining surface is only scored as carious when the lesion clearly extends at least 1 mm past the line angle. The tooth and surface codes for the root caries assessment are identical to those for coronal caries, with the exception of the "R" score, which is equivalent to the "S" score, indicating a tooth for which all root surfaces are sound.

All exposed portions of a tooth's root surface should be carefully examined. The most difficult areas to examine are proximal surfaces, in posterior teeth, particularly those that contain proximal restorations. Subgingival inspection is usually unnecessary because few lesions are confined subgingivally and because it may produce bleeding.

Periodontal Destruction

The assessment for periodontal destruction will be made for one maxillary quadrant and one mandibular quadrant. The quadrants will be randomly designated and preprinted on the

examination form. Only teeth in full eruption are to be measured. In this survey, the assessment of periodontal destruction includes periodontal, gingival, and calculus assessments.

Periodontal Assessment. Clinically and quantitatively, the loss of attachment is the distance in millimeters (mm) from the CEJ to the bottom of the pocket. Pocket depth is the distance from the free gingival margin (FGM) to the bottom of the sulcus/pocket.

The NIDR periodontal probe will be used to measure the loss of attachment in buccal (B) and mesial (M) sites. The distance from the FGM to the CEJ and the distance from the FGM to the bottom of the sulcus/pocket will be measured for each site. Where the gingival margin is subject to recession and the CEJ is exposed, the distance from the CEJ to the gingival margin is called a negative value. Loss of attachment will be calculated by the computer program.

The NIDR probe is color coded and graduated at 2, 4, 6, 8, 10, and 12 mm. The periodontal probe is to be held with a light grasp not to exceed 25 grams and pointed toward the apex of the tooth. Each measurement is rounded to the lowest whole millimeter. The probe is inserted from the buccal aspect to measure both buccal and mesial sites.

For the interproximal site (M), the examiner should keep the probe in the direction of the long axis of the tooth as close to the contact point as possible even if the adjacent tooth is missing. For the upper and lower molars, the buccal assessments are always made at the midpoint of the mesial root.

Special considerations in the periodontal assessment:

1. Calculus at the mesial or buccal sites that obscures the CEJ or interferes with the correct placement of the probe is removed using a curette.
2. When a margin of a restoration is below the CEJ, the position of the CEJ will be estimated using adjacent landmarks and dental anatomy.
3. When the CEJ cannot be estimated, the examiner will code Y to exclude the site.
4. When the natural tooth is missing (i.e., implants, partial denture, or pontics), the tooth sites are scored Y. (On the recording form, the missing tooth position should be the same for both the periodontal and caries assessments.)
5. Mobile teeth should be examined with care. The CEJ should be estimated if possible.
6. Orthodontically banded teeth, splinted teeth, and hemisected teeth will be considered on an individual basis and should be examined if possible.

7. Partially erupted teeth and root tips are excluded. (It is necessary to have at least a partial clinical crown, including the CEJ, present for the periodontal assessment.) The code of Y should be used for the mesial and buccal sites of the excluded tooth.

Gingival Assessment. The buccal and mesial sites of one upper quadrant and one lower quadrant will be assessed. A score of 0 or 1 will be assigned for each tooth site; if a tooth is missing or cannot be assessed, a single Y call will be made.

- 0, no bleeding
- 1, bleeding
- Y, cannot be assessed

The teeth should be dried with air before the examiner begins each quadrant. To examine the gingiva adjacent to each tooth, the NIDR probe will be inserted no more than 2 mm into the gingival sulcus, starting just distal to the midpoint of the buccal surface and then moved gently into the mesial interproximal area. After all sites of a single quadrant are probed in this fashion, the bleeding points are assessed. A call of 0 or 1 is made for each buccal and mesial site, beginning with the second molar and continuing to the central incisor.

Calculus Assessment. A single score will be assigned for each designated tooth space, according to the following codes:

- 0, absence of calculus
- 1, supragingival calculus but no subgingival calculus present
- 2, supragingival and subgingival calculus, or subgingival calculus only
- Y, cannot be assessed

Supragingival calculus includes calculus located on the exposed crown and root of the tooth and extends to 1 mm below the free gingival margin (FGM). The assessment for calculus should be made after the teeth in a designated quadrant are dried with air. The examiner should observe the buccal and mesial aspects of each tooth to determine the presence of supragingival calculus and to probe for subgingival calculus using the #17 explorer or the NIDR probe. Once subgingival calculus is detected, the examiner should make a single call and proceed to the next tooth.

When a tooth is missing or cannot be assessed, a single Y call will be made.

Demographic/Dental History Form
(Self-Administered)

PAGE 2		NATIONAL SURVEY ADULT DENTAL HEALTH		REGION	1 2 3 4 5 6 7	TYPE OF FACILITY	0 1 2 3 4 5 6 7 8 9
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Appendix II. GLOSSARY

20% rule. Quality control measure in which scheduling ensured that no more than 20 percent of the subjects in a PSU were examined by any one examiner.

AARP. American Association of Retired Persons.

ADA. American Dental Association.

BHS. Balanced half-sample, a special case of balanced repeat replications for estimation of variance.

BRR. Balanced repeat replications, a technique for estimation of variance.

CEJ. Cemento-enamel junction.

DFS. Decayed or filled surface.

DMF. Decayed, missing, or filled.

DMFS. Decayed, missing, or filled surface.

DMFT. Decayed, missing, or filled tooth.

DMI. Dun's Marketing Index, a source of information on U.S. businesses available from Dun & Bradstreet, Parsippany, NJ.

FGM. Free gingival margin.

MEC. Mobile examination center.

NCHS. National Center for Health Statistics, Centers for Disease Control, Public Health Service, U.S. Department of Health and Human Services.

NIDR probe. Periodontal probe with 2 mm markings designed expressly for NIDR epidemiologic surveys; its gold coating is patented by the American Dental Manufacturing Company, Missoula, MT.

NTIS. National Technical Information Service (division of the U.S. Department of Commerce), Springfield, VA 22161.

OHEA. Acronym for the National Survey of Oral Health in Employed Adults.

OHS. Acronym for the National Survey of Oral Health in Seniors.

Periodontal destruction. In this survey, dental health parameter determined by periodontal, gingival, and calculus assessments.

PSU. Primary sampling unit, a county or group of contiguous counties.

Recurrent decay. Caries on the crown or root contiguous to a restoration.

RR. Response rate.

SAS. Statistical Analysis System, SAS Institute, Cary, NC.

SIC. Standard Industrial Classification, a coding system for U.S. businesses developed by the U.S. Government.

SMSA. Standard metropolitan statistical area.

Standard examiner. Reference examiner for the purpose of calibrating field examiners.

TSL. Taylor series linearization, a technique for estimation of variance.

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