



Oral Health of United States Children

The National Dental Caries Prevalence Survey: 1979-1980

Public Use Data File Documentation and Survey Methodology

1979-1980

For Administrative Use Only

Epidemiology and Oral Disease Prevention Program

NATIONAL INSTITUTES OF HEALTH
National Institute of Dental Research

November 1992

Acknowledgments

We acknowledge the extensive contributions of the staff of Westat, Inc., and of the National Center for Health Statistics, whose efforts ensured the success of this survey. We thank the school and health personnel from regional, state and local jurisdictions for their time and cooperation. In addition, we recognize the assistance of CSR, Incorporated, Washington, DC, in the preparation of this document.

Foreword

"The National Dental Caries Prevalence Survey: 1979-80--Public Use Data File Documentation and Survey Methodology" is the fourth release from the National Institute of Dental Research's Public Use MicroData Release Program, which was initiated in 1990. All the information from the national oral examination surveys undertaken by the Institute from 1979-87 is now available as public use data files.

During the 1979-80 school year, the NIDR conducted a National Dental Caries Prevalence Survey of approximately 38,000 U.S. children aged 5 to 17 at schools located throughout the continental United States. The survey results provided estimates on the prevalence of dental caries as well as statistical information on gingivitis and the treatment needs of the nation's schoolchildren. Questionnaires completed by the parents or guardians provided extensive residential histories and, if known, the source of drinking water including natural or adjusted fluoride exposure. This publication presents data file documentation and survey methodology for all the components of 1979-80 survey.

In December 1981, the NIDR published a monograph titled "The Prevalence of Dental Caries in United States Children." The monograph presented national and regional dental caries findings for 5-17 year old schoolchildren by selected demographic characteristics. A year later, a second monograph, "Dental Treatment Needs of United States Children: 1979-80," was published. The results of more detailed analyses of dental caries have appeared in referred journals. The availability of these data files and documentation should facilitate further analyses of these survey data.

Following the format of earlier data file documentation released, we have made the documentation of this data file 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 procedures for weighting the data, estimating specific parameters, and computing their sampling errors. A bibliography of selected references also has 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.

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

Harald Loe

Harald Loe, D.D.S.
Director
National Institute of Dental Research

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Oral Health of United States Children

The National Dental Caries Prevalence Survey 1979-80

Public Use Data File Documentation and Survey Methodology

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I. INTRODUCTION

The documentation presented in this manual pertains to data collected by the National Dental Caries Prevalence Survey (OHSC I), which was designed by the National Caries Program (NCP) of the National Institute of Dental Research (NIDR) in cooperation with the National Center for Health Statistics. The NCP was a highly-targeted program of research and development whose mission was the elimination of dental caries as a major public health problem in the United States. The overall strategy to accomplish this mission was to develop agents and techniques for the prevention of dental caries and to promote their widespread acceptance and use by the public. One of the principal concerns of NCP was to find preventive measures that would be effective for children in the 5-17 year-old age group, where the incidence of caries was historically highest. It was essential, therefore, for the NCP to have an objective means for assessing the prevalence of dental caries among children, as well as for monitoring the effects of the preventive efforts.

The OHSC I survey was conducted during the 1979-80 school year by a private contractor, Westat, Inc., of Rockville, Maryland. Previous surveys carried out by the National Center for Health Statistics provided national estimates of caries prevalence for persons aged 1 to 79. The OHSC I survey was specifically designed to provide

prevalence data for school children. The substantially larger number of children in this survey increased the precision of oral health estimates. The NCP original plans were to conduct similar prevalence surveys at regular periodic intervals in order to:

- detect changes in caries experienced by school children in different geographic regions;
- assess the effects of the implementation of new caries preventive measures; and
- help target preventive research strategies for groups experiencing high levels of dental caries.

The purpose of the OHSC I survey was to assess the prevalence of coronal caries, gingivitis and the need for dental care among the nation's school-aged children. Data were collected by visual and tactile dental examinations. These data were used to provide NIDR with the prevalence estimates and baseline statistics for the nation as a whole, seven major geographic regions, and metropolitan/non-metropolitan segments of the population. Data from this survey were also intended to furnish NIDR with baseline statistics. These statistics would be used as a standard against which to measure the impact of prevention and demonstration programs and to identify high risk populations and to develop preventive strategies.

Questionnaires completed by the parents or guardian provided extensive residential histories as well as information on the sources of drinking water, including the natural or adjusted fluoride exposure, if known. This record of all locations where the children had resided for more than 6 months was later matched against data from the 1979 Fluoridation Census database.

Contents of this user's manual

In addition to a detailed file layout, this manual includes sections describing the sample design and multi-stage sampling procedures, and data analysis considerations, including procedures of estimation, weighting, and calculation of variances. The appendices provide additional detail on weighting and variance estimation, a description of the survey administration and field operations, a facsimile reproduction of the survey forms, a description of the diagnostic criteria used in the oral examination, references, and a glossary.

Uses of the OHSC I Survey Data

The information provided in this manual 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 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.

Because of the complexity of the data structure and sample design, a thorough understanding of the data structure, and Sections IV and V in this document, will aid the researcher in producing the appropriate statistics for relevant populations.

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

- The National Institute of Dental Research is responsible only for the data contained in this public use tape. Any published material derived from these data should acknowledge the NIDR as the original source. An example of this citation and reference is shown below.

The National Dental Caries Prevalence Survey (OHSC I) was conducted by the National Institute of Dental Research, National Institutes of Health, Public Health Service, Department of Health and Human Services, 1979-80.

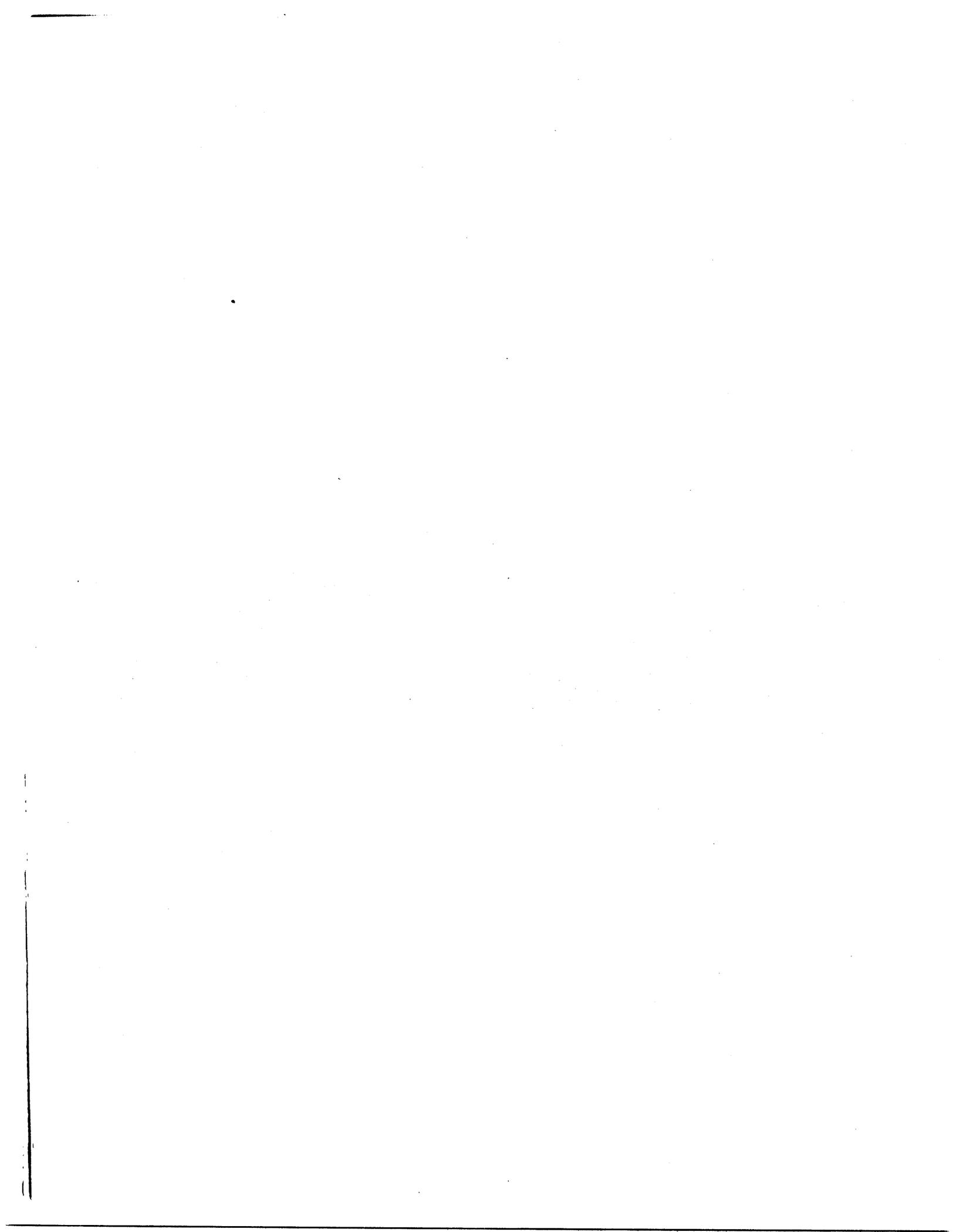
Reference:

Snowden, Cecelia B. and Ann J. Miller-Chisholm, eds., Oral Health of United States Children: The National Dental Caries Prevalence Survey 1979-80. Public Use Data File Documentation and Survey Methodology. National Institute of Dental Research, National Institutes of Health, 1992.

Publications also should include a disclaimer that credits any analyses, interpretations, or conclusions reached to the author and not to the NIDR.

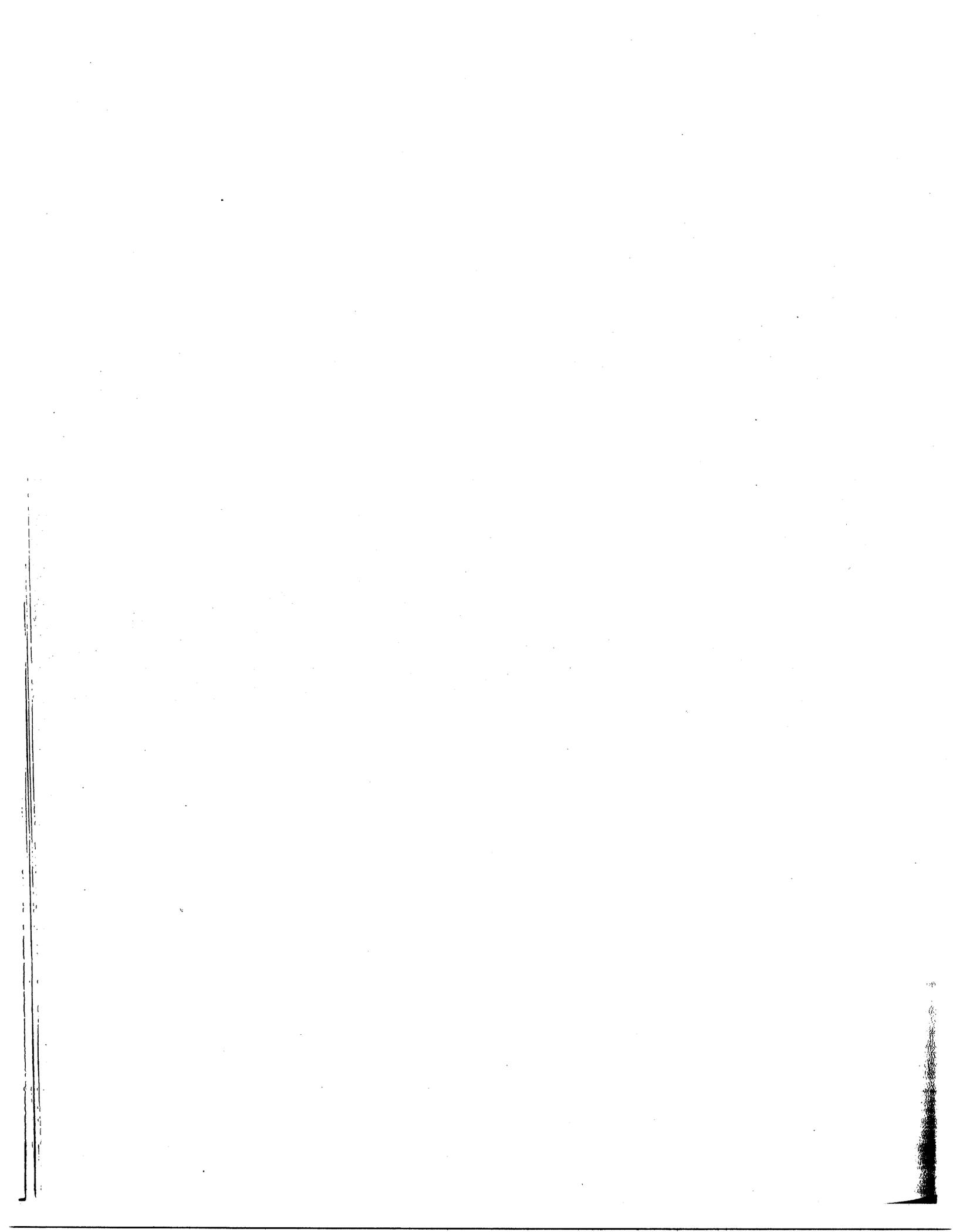
- Users who wish to publish technical descriptions of the data should make a reasonable effort to ensure that their descriptions are consistent with those published by the NIDR. The NIDR is not obligated to review such descriptions, however.
- Users may request updates to this publication and the data file. Mail the enclosed request form to:

Chief, Sampling, Statistics, and Data Management Section
Health Assessment Branch
EODPP, NIDR, NIH
5333 Westbard Avenue, Room 703
Bethesda, Maryland 20892



II. PUBLIC USE DATA FILE DESCRIPTION

<u>Record Number</u>	<u>Record Type</u>	<u>Page</u>
01	Summary and Recoded Variable	7
02	Replicate Weights	15
03	Residential History	23
04	Dental Caries Data and Treatment Needs	99



RECORD 01

Summary and Recoded Variables



**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 01
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
SUMMARY AND RECODES			
1-10	Coded Student ID Number		QID01
11-12	Record Type 01 - Summary and recodes	37703	REC01
13-14	Subrecord 00 - Subrecord Number	37703	SUBREC01
15	Region 1 - New England 2 - Northeast 3 - Midwest 4 - Southeast 5 - Southwest 6 - Northwest 7 - Pacific	4971 5417 5458 5789 5408 5211 5449	REGION
16-17	Number of Residential History Records (Record 03) 01-17 - Number of residential history records	37703	HISTORY
18	Is There Caries Data? (Record 04) 1 - Yes 2 - No	37703	CARIES
19-24	This Field Always Blank		FILLER
25-26*	Student's Age 04-22 - Student's age	37703	AGE
27	Student's Sex 1 - Male 2 - Female	18741 18962	SEX

*See Detailed Notes.

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 01
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
28	Race of Student (Observed by survey staff)		RACE
	1 - White	32282	
	2 - Black	4316	
	3 - Alaskan Native or American Indian	537	
	4 - Asian or Pacific Islander	196	
	5 - Other	369	
	9 - Not Ascertained	3	
29	Metropolitan Status of School		SMSA
	1 - SMSA	19177	
	2 - Non-SMSA	18526	
30	Were Replicate Weights Calculated for Student?		REPWGTS
	1 - Yes	37703	
	2 - No		
[31-36]	Student's Date of Birth		DOB
31-32	Month of Birth		DOBMO
	01-12 - Month of birth	37650	
	99 - Not ascertained	53	
33-34	Day of Birth		DOBDA
	01-31 - Day of birth	37633	
	99 - Not ascertained	70	
35-36	Year of Birth		DOBYR
	60-75 - Year of birth	37644	
	99 - Not ascertained	59	
37-57	This Field Always Blank		FILLER2

NOTES

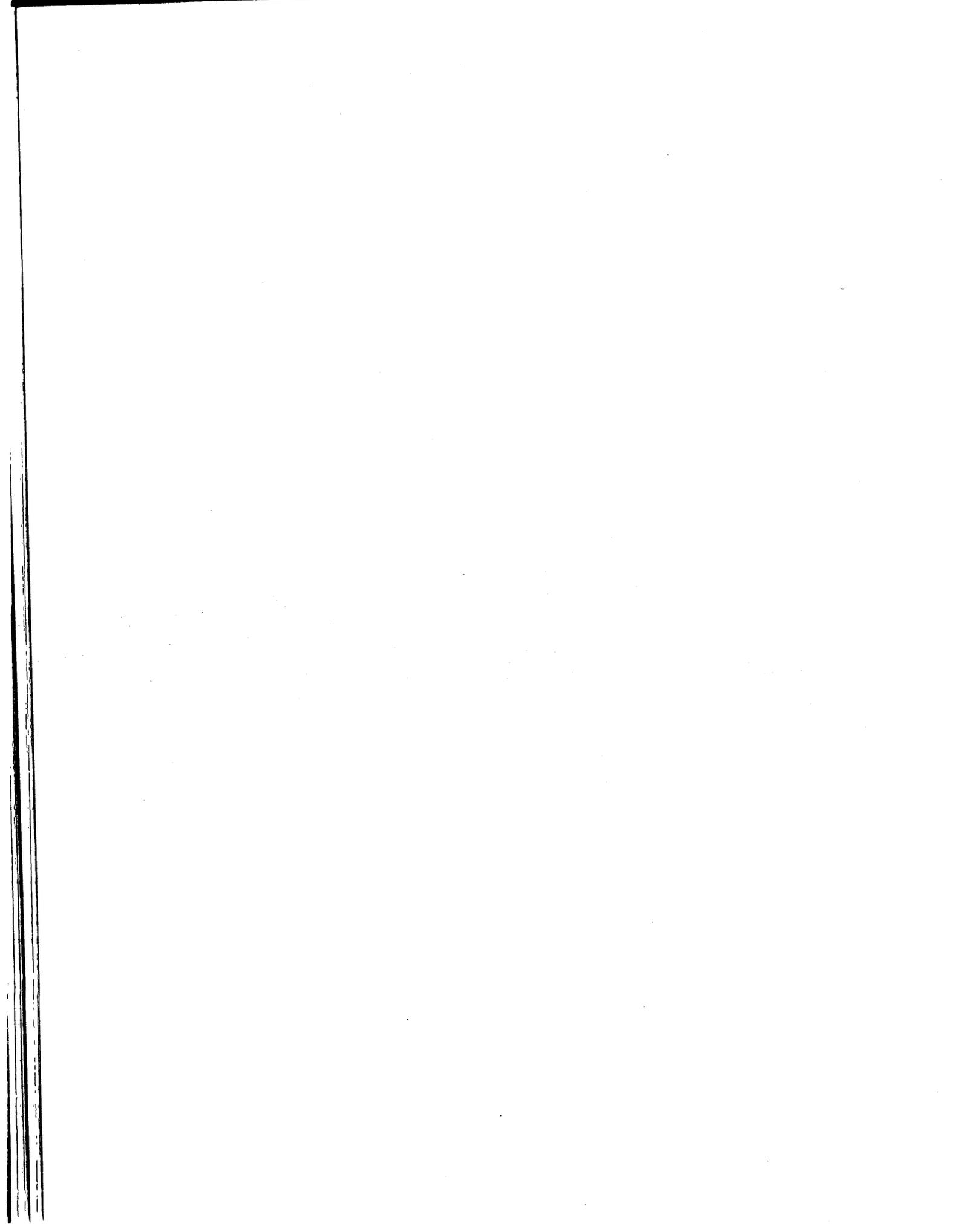
NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 01
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
58	Residential History Complete Blank - Inapplicable 1 - Complete 2 - Incomplete	2 33332 4369	QRES
59-70	Full Sample Weight Range - 19-18981	37703	FSW
71-73	Decayed, Missing or Filled Surfaces of Permanent Teeth in Children Aged 5-17 Blank - Not in age group or no permanent teeth 000-081 - Number of surfaces	1875 35828	PERMDMFS
74-76	Decayed or Filled Surfaces of Deciduous Teeth in Children Aged 5-9 Blank - Not in age group or no deciduous teeth 000-081 - Number of surfaces	16850 20853	DEC-DFS
77	All Permanent Surfaces Caries Free Children Age 5-17 Blank - Not in age group or no permanent teeth 1 - Caries free 2 - Caries history	1875 13774 22054	CFPERM
78	All Deciduous Surfaces Caries Free Children Aged 5-9 Only Blank - Not in age group or no deciduous teeth 1 - Caries free in deciduous teeth 2 - Caries history	16850 7942 12911	CFDEC
79-80	This Field Always Blank		FILLER3

NOTES

RECORD 02

Replicate Weights



**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 02
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
REPLICATE WEIGHTS*			
1-10	Coded Student ID Number		QID02
11-12	Record Type		REC02
	02 - Replicate Weights	37703	
13-14	Subrecord		SUBREC02
	00 - Subrecord Number	37703	
15	This Field Always Blank		BLANK02
16-22	Replicate Weight - 01		REPWGT01
	Range 19-20184	33703	
23-29	Replicate Weight - 02		REPWGT02
	Range 19-20184	33703	
30-36	Replicate Weight - 03		REPWGT03
	Range 19-20184	33703	
37-43	Replicate Weight - 04		REPWGT04
	Range 19-20184	33703	
44-50	Replicate Weight - 05		REPWGT05
	Range 19-20184	33703	
51-57	Replicate Weight - 06		REPWGT06
	Range 19-20184	33703	
58-64	Replicate Weight - 07		REPWGT07
	Range 19-20184	33703	

*See Detailed Notes.

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 02
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
65-71	Replicate Weight - 08		REPWGT08
	Range 19-20184	33703	
72-78	Replicate Weight - 09		REPWGT09
	Range 19-20184	33703	
79-85	Replicate Weight - 10		REPWGT10
	Range 19-20184	33703	
86-92	Replicate Weight - 11		REPWGT11
	Range 19-20184	33703	
93-99	Replicate Weight - 12		REPWGT12
	Range 19-20184	33703	
100-106	Replicate Weight - 13		REPWGT13
	Range 19-20184	33703	
107-113	Replicate Weight - 14		REPWGT14
	Range 19-20184	33703	
114-120	Replicate Weight - 15		REPWGT15
	Range 19-20184	33703	
121-127	Replicate Weight - 16		REPWGT16
	Range 19-20184	33703	
128-134	Replicate Weight - 17		REPWGT17
	Range 19-20184	33703	
135-141	Replicate Weight - 18		REPWGT18
	Range 19-20184	33703	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 02
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
142-148	Replicate Weight - 19 Range 19-20184	33703	REPWGT19
149-155	Replicate Weight - 20 Range 19-20184	33703	REPWGT20
156-162	Replicate Weight - 21 Range 19-20184	33703	REPWGT21
163-169	Replicate Weight - 22 Range 19-20184	33703	REPWGT22
170-176	Replicate Weight - 23 Range 19-20184	33703	REPWGT23
177-183	Replicate Weight - 24 Range 19-20184	33703	REPWGT24
184-190	Replicate Weight - 25 Range 19-20184	33703	REPWGT25
191-197	Replicate Weight - 26 Range 19-20184	33703	REPWGT26
198-204	Replicate Weight - 27 Range 19-20184	33703	REPWGT27
205-211	Replicate Weight - 28 Range 19-20184	33703	REPWGT28
212-218	Replicate Weight - 29 Range 19-20184	33703	REPWGT29

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 02
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
219-225	Replicate Weight - 30 Range 19-20184	33703	REPWGT30
226-232	Replicate Weight - 31 Range 19-20184	33703	REPWGT31
233-239	Replicate Weight - 32 Range 19-20184	33703	REPWGT32
240-295	This Field Always Blank		FILLER5
296-297	Pseudo Stratum Range 1-29	37703	STRATUM
298-299	Pseudo PSU Range 1-3	37703	SUDOPSU

NOTES

RECORD 03

Residential History



NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	RESIDENTIAL HISTORY*		
1-10	Coded Student ID Number		QID03
11-12	Record Type		REC03
	03 - Residential History	37703	
13-14	Subrecord		SUBREC03
	00 - Subrecord Number	37703	
15	This Field Always Blank		BLANK03
[16-24]	FIRST RESIDENCE (current)		RES1
16-19	City		CITY1
	Blank - Inapplicable/foreign country		
	0001-9700 - City codes (except 3333)	37420	
	3333 - Not located	281	
	9999 - Not ascertained	2	
20-22	County		COUNTY1
	Blank - Inapplicable/foreign country		
	001-332 - County or parish	36469	
	333 - Not located/multiple counties	93	
	334-509 - County in Texas	675	
	510-850 - Independent city	464	
	999 - County question not answered by parent	2	
23-24	State		STATE1
	Blank - Inapplicable/foreign country		
	01-56 - State	37701	
	99 - Not ascertained	2	
25-27	This Field Always Blank		FILLER6

*See Detailed Notes.

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
[28-35]	Date Lived At Residence		DATLIV1
28-29	From Month		FROMMO1
	Blank - Inapplicable		
	01-12 - Month	35062	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	2641	
30-31	From Year		FROMYR1
	Blank - Inapplicable		
	60-80 - Actual number	35753	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	1950	
32-33	To Month		TOMO1
	Blank - Inapplicable		
	01-12 - Month	37679	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	24	
34-35	To Year		TOYR1
	Blank - Inapplicable		
	60-80 - Actual year	37697	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	6	
36	Public Water Supply		PWS1
	Blank - Inapplicable	2	
	1 - Yes	26599	
	2 - No	10249	
	8 - Don't know	37	
	9 - Not ascertained	816	

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NATIONAL DENTAL CARIES PREVALENCE SURVEY: 1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
37	Type of Fluoridation		QFL1
	Blank - Inapplicable, lived here less than six months	2	
	1 - Adjusted fluoridation	15821	
	2 - Natural fluoridation	2810	
	3 - Place not listed	19067	
	6 - Mixed data-combination of fluoridated and non-fluoridated water	3	
	7 - Refused		
	8 - Don't know		
	9 - Not ascertained		
38-39	Adjusted Fluoridation - Month		QFLMO1
	Blank - Inapplicable	2	
	01-12 - Month	14200	
	33 - Not located	796	
	99 - Not ascertained	22705	
40-41	Adjusted Fluoridation - Year		QFLYR1
	Blank - Inapplicable	2	
	45-80 - Actual year	15029	
	33 - Not located	796	
	99 - Not ascertained	21876	
[42-50]	SECOND RESIDENCE		RES2
42-45	City		CITY2
	Blank - Inapplicable/foreign country	13198	
	0001-9700 - City codes (except 3333)	23679	
	3333 - Not located	682	
	9999 - Not ascertained	144	
46-48	County		COUNTY2
	Blank - Inapplicable/foreign country	13198	
	001-332 - County or parish	22134	
	333 - Not located/multiple counties	967	
	334-509 - County in Texas	303	
	510-850 - Independent city	362	
	999 - County question not answered by parent	132	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
49-50	State		STATE2
	Blank - Inapplicable/foreign country	13805	
	01-56 - State	23877	
	99 - Not ascertained	21	
51-53	This Field Always Blank		FILLER7
[54-61]	Date Lived At Residence		DATLIV2
54-55	From Month		FROMMO2
	Blank - Inapplicable	13198	
	01-12 - Month	23115	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	1390	
56-57	From Year		FROMYR2
	Blank - Inapplicable	13198	
	60-80 - Actual number	23951	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	554	
58-59	To Month		TOMO2
	Blank - Inapplicable	13198	
	01-12 - Month	23157	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	1348	
60-61	To Year		TOYR2
	Blank - Inapplicable	13198	
	60-80 - Actual year	23930	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	575	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
62	Public Water Supply		PWS2
	Blank - Inapplicable	13200	
	1 - Yes	18810	
	2 - No	5693	
	8 - Don't know		
	9 - Not ascertained		
63	Type of Fluoridation		QFL2
	Blank - Inapplicable, lived here less than six months	13200	
	1 - Adjusted fluoridation	10109	
	2 - Natural fluoridation	1662	
	3 - Place not listed	12540	
	6 - Mixed data-combination of fluoridated and non-fluoridated water	192	
	7 - Refused		
	8 - Don't know		
	9 - Not ascertained		
64-65	Adjusted Fluoridation - Month		QFLMO2
	Blank - Inapplicable	13200	
	01-12 - Month	9173	
	33 - Not located	339	
	99 - Not ascertained	14991	
66-67	Adjusted Fluoridation - Year		QFLYR2
	Blank - Inapplicable	13200	
	45-80 - Actual year	9765	
	33 - Not located	339	
	99 - Not ascertained	14399	
[68-76]	THIRD RESIDENCE		RES3
68-71	City		CITY3
	Blank - Inapplicable/foreign country	22495	
	0001-9700 - City codes (except 3333)	14664	
	3333 - Not located	378	
	9999 - Not ascertained	166	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
72-74	County		COUNTY3
	Blank - Inapplicable/foreign country	22979	
	001-332 - County or parish	13483	
	333 - Not located/multiple counties	657	
	334-509 - County in Texas	195	
	510-850 - Independent city	236	
	999 - County question not answered by parent	153	
75-76	State		STATE3
	Blank - Inapplicable/foreign country	22978	
	01-56 - State	14698	
	99 - Not ascertained	27	
77-79	This Field Always Blank		FILLER8
[80-87]	Date Lived At Residence		DATLIV3
80-81	From Month		FROMMO3
	Blank - Inapplicable	22495	
	01-12 - Month	14203	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	1005	
82-83	From Year		FROMYR3
	Blank - Inapplicable	22495	
	60-80 - Actual number	14823	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	385	
84-85	To Month		TOMO3
	Blank - Inapplicable	22495	
	01-12 - Month	14011	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	1197	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
86-87	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	22495 14792 416	TOYR3
88	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	22497 11812 3394	PWS3
89	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	22497 6173 1055 7812 166	QFL3
90-91	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	22497 5559 193 9454	QFLMO3
92-93	Adjusted Fluoridation - Year Blank - Inapplicable 45-80 - Actual year 33 - Not located 99 - Not ascertained	22497 5980 193 9033	QFLYR3

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
[94-102]	FOURTH RESIDENCE		RES4
94-97	City		CITY4
	Blank - Inapplicable/foreign country	29007	
	0001-9700 - City codes (except 3333)	8341	
	3333 - Not located	237	
	9999 - Not ascertained	118	
98-100	County		COUNTY4
	Blank - Inapplicable/foreign country	29392	
	001-332 - County or parish	7547	
	333 - Not located/multiple counties	394	
	334-509 - County in Texas	119	
	510-850 - Independent city	149	
	999 - County question not answered by parent	102	
101-102	State		STATE4
	Blank - Inapplicable/foreign country	29392	
	01-56 - State	8298	
	99 - Not ascertained	13	
103-105	This Field Always Blank		FILLER9
[106-113]	Date Lived At Residence		DATLIV4
106-107	From Month		FROMMO4
	Blank - Inapplicable	29007	
	01-12 - Month	8107	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	589	
108-109	From Year		FROMYR4
	Blank - Inapplicable	29007	
	60-80 - Actual number	8441	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	255	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
110-111	To Month		TOMO4
	Blank - Inapplicable	29007	
	01-12 - Month	7906	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	790	
112-113	To Year		TOYR4
	Blank - Inapplicable	29007	
	60-80 - Actual year	8420	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	276	
114	Public Water Supply		PWS4
	Blank - Inapplicable	29009	
	1 - Yes	6806	
	2 - No	1888	
	8 - Don't know		
	9 - Not ascertained		
115	Type of Fluoridation		QFL4
	Blank - Inapplicable, lived here less than six months	29009	
	1 - Adjusted fluoridation	3495	
	2 - Natural fluoridation	638	
	3 - Place not listed	4461	
	6 - Mixed data-combination of fluoridated and non-fluoridated water	100	
	7 - Refused		
	8 - Don't know		
	9 - Not ascertained		
116-117	Adjusted Fluoridation - Month		QFLMO4
	Blank - Inapplicable	29009	
	01-12 - Month	3103	
	33 - Not located	119	
	99 - Not ascertained	5472	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
118-119	Adjusted Fluoridation - Year	29009	QFLYR4
	Blank - Inapplicable	3371	
	45-80 - Actual year	119	
	33 - Not located	5204	
	99 - Not ascertained		
[120-128]	FIFTH RESIDENCE		RES5
120-123	City		CITY4
	Blank - Inapplicable/foreign country	33080	
	0001-9700 - City codes (except 3333)	4450	
	3333 - Not located	121	
	9999 - Not ascertained	52	
124-126	County		COUNTY5
	Blank - Inapplicable/foreign country	33329	
	001-332 - County or parish	3934	
	333 - Not located/multiple counties	224	
	334-509 - County in Texas	81	
	510-850 - Independent city	84	
	999 - County question not answered by parent	51	
127-128	State		STATES5
	Blank - Inapplicable/foreign country	33329	
	01-56 - State	4364	
	99 - Not ascertained	10	
129-131	This Field Always Blank		FILLER10
[132-139]	Date Lived At Residence		DATLIV5
132-133	From Month		FROMMO5
	Blank - Inapplicable	33080	
	01-12 - Month	4352	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	271	

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
134-135	From Year Blank - Inapplicable 60-80 - Actual number 97 - Refused 98 - Don't know 99 - Not ascertained	33080 4504 119	FROMYR5
136-137	To Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	33080 4157 466	TOMO5
138-139	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	33080 4453 170	TOYR5
140	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	33082 3680 941	PWS5
141	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	33082 1870 353 2340 58	QFL5

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
142-143	Adjusted Fluoridation - Month		QFLMO5
	Blank - Inapplicable	33082	
	01-12 - Month	1657	
	33 - Not located	52	
	99 - Not ascertained	2912	
144-145	Adjusted Fluoridation - Year		QFLYR5
	Blank - Inapplicable	33082	
	45-80 - Actual year	1817	
	33 - Not located	52	
	99 - Not ascertained	2752	
[146-154]	SIXTH RESIDENCE		RES6
146-149	City		CITY6
	Blank - Inapplicable/foreign country	36072	
	0001-9700 - City codes (except 3333)	1540	
	3333 - Not located	51	
	9999 - Not ascertained	40	
150-152	County		COUNTY6
	Blank - Inapplicable/foreign country	36172	
	001-332 - County or parish	1348	
	333 - Not located/multiple counties	91	
	334-509 - County in Texas	27	
	510-850 - Independent city	28	
	999 - County question not answered by parent	37	
153-154	State		STATE6
	Blank - Inapplicable/foreign country	36172	
	01-56 - State	1521	
	99 - Not ascertained	10	
155-157	This Field Always Blank		FILLER11
[158-165]	Date Lived At Residence		DATLIV6

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
158-159	From Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	36072 1520 111	FROMMO6
160-161	From Year Blank - Inapplicable 60-80 - Actual number 97 - Refused 98 - Don't know 99 - Not ascertained	36072 1577 54	FROMYR6
162-163	To Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	36072 1484 147	TOMO6
164-165	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	36072 1576 55	TOYR6
166	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	36074 1215 414	PWS6

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
167	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	36074 617 123 863 26 21 26	QFL6
168-169	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	36074 534 21 1074	QFLMO6
170-171	Adjusted Fluoridation - Year Blank - Inapplicable 45-80 - Actual year 33 - Not located 99 - Not ascertained	36074 594 21 1014	QFLYR6
[172-180]	SEVENTH RESIDENCE		RES7
172-175	City Blank - Inapplicable/foreign country 0001-9700 - City codes (except 3333) 3333 - Not located 9999 - Not ascertained	36959 703 24 17	CITY7
176-178	County Blank - Inapplicable/foreign country 001-332 - County or parish 333 - Not located/multiple counties 334-509 - County in Texas 510-850 - Independent city 999 - County question not answered by parent	36998 633 37 6 13 16	COUNTY7

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
179-180	State		STATE7
	Blank - Inapplicable/foreign country	36998	
	01-56 - State	701	
	99 - Not ascertained	4	
181-183	This Field Always Blank		FILLER12
[184-191]	Date Lived At Residence		DATLIV7
184-185	From Month		FROMM07
	Blank - Inapplicable	36959	
	01-12 - Month	682	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	62	
186-187	From Year		FROMYR7
	Blank - Inapplicable	36959	
	60-80 - Actual number	709	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	35	
188-189	To Month		TOM07
	Blank - Inapplicable	36959	
	01-12 - Month	649	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	95	
190-191	To Year		TOYR7
	Blank - Inapplicable	36959	
	60-80 - Actual year	696	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	48	

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
192	Public Water Supply		PWS7
	Blank - Inapplicable	36961	
	1 - Yes	560	
	2 - No	182	
	8 - Don't know		
	9 - Not ascertained		
193	Type of Fluoridation		QFL7
	Blank - Inapplicable, lived here less than six months	3961	
	1 - Adjusted fluoridation	306	
	2 - Natural fluoridation	54	
	3 - Place not listed	378	
	6 - Mixed data-combination of fluoridated and non-fluoridated water	4	
	7 - Refused		
	8 - Don't know		
	9 - Not ascertained		
194-195	Adjusted Fluoridation - Month		QFLMO7
	Blank - Inapplicable	36961	
	01-12 - Month	259	
	33 - Not located	7	
	99 - Not ascertained	476	
196-197	Adjusted Fluoridation - Year		QFLYR7
	Blank - Inapplicable	36961	
	45-80 - Actual year	298	
	33 - Not located	7	
	99 - Not ascertained	437	
[198-206]	EIGHTH RESIDENCE		RES8
198-201	City		CITY8
	Blank - Inapplicable/foreign country	37333	
	0001-9700 - City codes (except 3333)	355	
	3333 - Not located	8	
	9999 - Not ascertained	7	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
202-204	County		COUNTY8
	Blank - Inapplicable/foreign country	37354	
	001-332 - County or parish	313	
	333 - Not located/multiple counties	17	
	334-509 - County in Texas	4	
	510-850 - Independent city	9	
	999 - County question not answered by parent	6	
205-206	State		STATE8
	Blank - Inapplicable/foreign country	37354	
	01-56 - State	347	
	99 - Not ascertained	2	
207-209	This Field Always Blank		FILLER13
[210-217]	Date Lived At Residence		DATLIV8
210-211	From Month		FROMMO8
	Blank - Inapplicable	37333	
	01-12 - Month	335	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	35	
212-213	From Year		FROMYR8
	Blank - Inapplicable	37333	
	60-80 - Actual number	349	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	21	
214-215	To Month		TOMO8
	Blank - Inapplicable	37333	
	01-12 - Month	315	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	55	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
216-217	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	37333 339 31	TOYR8
218	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	37335 278 90	PWS8
219	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37335 154 25 186 3 37335	QFL8
220-221	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	37335 137 2 229	QFLMO8
222-223	Adjusted Fluoridation - Year Blank - Inapplicable 45-80 - Actual year 33 - Not located 99 - Not ascertained	37335 151 2 215	QFLYR8

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
[224-232]	NINTH RESIDENCE		RES9
224-227	City		CITY9
	Blank - Inapplicable/foreign country 0001-9700 - City codes (except 3333) 3333 - Not located 9999 - Not ascertained	37535 160 4 4	
228-230	County		COUNTY9
	Blank - Inapplicable/foreign country 001-332 - County or parish 333 - Not located/multiple counties 334-509 - County in Texas 510-850 - Independent city 999 - County question not answered by parent	37548 132 9 3 7 4	
231-232	State		STATE9
	Blank - Inapplicable/foreign country 01-56 - State 99 - Not ascertained	37548 153 2	
233-235	This Field Always Blank		FILLER14
[236-243]	Date Lived At Residence		DATLIV9
236-237	From Month		FROMMO9
	Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37535 150 18	
238-239	From Year		FROMYR9
	Blank - Inapplicable 60-80 - Actual number 97 - Refused 98 - Don't know 99 - Not ascertained	37535 154 14	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
240-241	To Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37535 136 32	TOMO9
242-243	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	37535 149 19	TOYR9
244	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	37537 131 35	PWS9
245	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37537 58 13 91 4	QFL9
246-247	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	37537 50 2 114	QFLMO9

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY: 1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
248-249	Adjusted Fluoridation - Year		QFLYR9
	Blank - Inapplicable	37537	
	45-80 - Actual year	56	
	33 - Not located	2	
	99 - Not ascertained	108	
[250-258]	TENTH RESIDENCE		RES10
250-253	City		CITY10
	Blank - Inapplicable/foreign country	37611	
	0001-9700 - City codes (except 3333)	84	
	3333 - Not located	4	
	9999 - Not ascertained	4	
254-256	County		COUNTY10
	Blank - Inapplicable/foreign country	37611	
	001-332 - County or parish	77	
	333 - Not located/multiple counties	5	
	334-509 - County in Texas	1	
	510-850 - Independent city	1	
	999 - County question not answered by parent	4	
257-258	State		STATE10
	Blank - Inapplicable/foreign country	37611	
	01-56 - State	85	
	99 - Not ascertained	3	
259-261	This Field Always Blank		FILLER15
[262-269]	Date Lived At Residence		DATLIV10
262-263	From Month		FROMMO10
	Blank - Inapplicable	37611	
	01-12 - Month	79	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	13	

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
264-265	From Year Blank - Inapplicable 60-80 - Actual number 97 - Refused 98 - Don't know 99 - Not ascertained	37611 81 11	FROMYR10
266-267	To Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37611 75 17	TOMO10
268-269	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	37611 79 13	TOYR10
270	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	37613 61 29	PWS10
271	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37613 32 9 48 1	QFL10

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
272-273	Adjusted Fluoridation - Month		QFLMO10
	Blank - Inapplicable	37613	
	01-12 - Month	26	
	33 - Not located		
	99 - Not ascertained	64	
274-275	Adjusted Fluoridation - Year		QFLYR10
	Blank - Inapplicable	37613	
	45-80 - Actual year	33	
	33 - Not located		
	99 - Not ascertained	57	
[276-284]	ELEVENTH RESIDENCE		RES11
276-279	City		CITY11
	Blank - Inapplicable/foreign country	37647	
	0001-9700 - City codes (except 3333)	51	
	3333 - Not located	2	
	9999 - Not ascertained	3	
280-282	County		COUNTY11
	Blank - Inapplicable/foreign country	37649	
	001-332 - County or parish	47	
	333 - Not located/multiple counties	3	
	334-509 - County in Texas	1	
	510-850 - Independent city		
	999 - County question not answered by parent	3	
283-284	State		STATE11
	Blank - Inapplicable/foreign country	37649	
	01-56 - State	52	
	99 - Not ascertained	2	
285-287	This Field Always Blank		FILLER16
[288-295]	Date Lived At Residence		DATLIV11

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
288-289	From Month		FROMMO11
	Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37647 46 10	
290-291	From Year		FROMYR11
	Blank - Inapplicable 60-80 - Actual number 97 - Refused 98 - Don't know 99 - Not ascertained	37647 47 9	
292-293	To Month		TOMO11
	Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37647 45 11	
294-295	To Year		TOYR11
	Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	37647 47 9	
296	Public Water Supply		PWS11
	Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	37649 39 15	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
297	Type of Fluoridation		QFL11
	Blank - Inapplicable, lived here less than six months	37649	
	1 - Adjusted fluoridation	19	
	2 - Natural fluoridation	5	
	3 - Place not listed	29	
	6 - Mixed data-combination of fluoridated and non-fluoridated water	1	
	7 - Refused		
	8 - Don't know		
	9 - Not ascertained		
298-299	Adjusted Fluoridation - Month		QFLMO11
	Blank - Inapplicable	37649	
	01-12 - Month	14	
	33 - Not located	1	
	99 - Not ascertained	39	
300-301	Adjusted Fluoridation - Year		QFLYR11
	Blank - Inapplicable	37649	
	45-80 - Actual year	18	
	33 - Not located	1	
	99 - Not ascertained	35	
[302-310]	TWELFTH RESIDENCE		RES12
302-305	City		CITY12
	Blank - Inapplicable/foreign country	37676	
	0001-9700 - City codes (except 3333)	23	
	3333 - Not located		
	9999 - Not ascertained	4	
306-308	County		COUNTY12
	Blank - Inapplicable/foreign country	37676	
	001-332 - County or parish	23	
	333 - Not located/multiple counties		
	334-509 - County in Texas		
	510-850 - Independent city		
	999 - County question not answered by parent	4	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
309-310	State		STATE12
	Blank - Inapplicable/foreign country	37676	
	01-56 - State	24	
	99 - Not ascertained	3	
311-313	This Field Always Blank		FILLER17
[314-321]	Date Lived At Residence		DATLIV12
314-315	From Month		FROMMO12
	Blank - Inapplicable	37676	
	01-12 - Month	20	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	7	
316-317	From Year		FROMYR12
	Blank - Inapplicable	37676	
	60-80 - Actual number	20	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	7	
318-319	To Month		TOMO12
	Blank - Inapplicable	37676	
	01-12 - Month	17	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	10	
320-321	To Year		TOYR12
	Blank - Inapplicable	37676	
	60-80 - Actual year	18	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	9	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
322	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	37678 16 9	PWS12
323	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37678 7 3 15	QFL12
324-325	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	37678 7 18	QFLMO12
326-327	Adjusted Fluoridation - Year Blank - Inapplicable 45-80 - Actual year 33 - Not located 99 - Not ascertained	37678 7 18	QFLYR12
[328-336]	THIRTEENTH RESIDENCE		RES13
328-331	City Blank - Inapplicable/foreign country 0001-9700 - City codes (except 3333) 3333 - Not located 9999 - Not ascertained	37687 12 2 2	CITY13

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
332-334	County Blank - Inapplicable/foreign country 001-332 - County or parish 333 - Not located/multiple counties 334-509 - County in Texas 510-850 - Independent city 999 - County question not answered by parent	37689 9 3 2	COUNTY13
335-336	State Blank - Inapplicable/foreign country 01-56 - State 99 - Not ascertained	37689 12 2	STATE13
337-339	This Field Always Blank		FILLER18
[340-347]	Date Lived At Residence		DATLIV13
340-341	From Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37687 11 5	FROMMO13
342-343	From Year Blank - Inapplicable 60-80 - Actual number 97 - Refused 98 - Don't know 99 - Not ascertained	37687 11 5	FROMYR13
344-345	To Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37687 9 7	TOMO14

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
346-347	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	37687 10 6	TOYR13
348	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 7 - Refused 8 - Don't know 9 - Not ascertained	37689 10 4 4	PWS13
349	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37689 4 9 1 4	QFL13
350-351	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	37689 4 10	QFLMO13
352-353	Adjusted Fluoridation - Year Blank - Inapplicable 45-80 - Actual year 33 - Not located 99 - Not ascertained	37689 4 10	QFLYR13

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
[354-362]	FOURTEENTH RESIDENCE		RES14
354-357	City		CITY14
	Blank - Inapplicable/foreign country	37692	
	0001-9700 - City codes (except 3333)	8	
	3333 - Not located	1	
	9999 - Not ascertained	2	
358-360	County		COUNTY14
	Blank - Inapplicable/foreign country	37692	
	001-332 - County or parish	8	
	333 - Not located/multiple counties	1	
	334-509 - County in Texas		
	510-850 - Independent city		
	999 - County question not answered by parent	2	
361-362	State		STATE14
	Blank - Inapplicable/foreign country	37692	
	01-56 - State	9	
	99 - Not ascertained	2	
363-365	This Field Always Blank		FILLER19
[366-373]	Date Lived At Residence		DATLIV14
366-367	From Month		FROMMO14
	Blank - Inapplicable	37692	
	01-12 - Month	8	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	3	
368-369	From Year		FROMYR14
	Blank - Inapplicable	37692	
	60-80 - Actual number	8	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	3	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
370-371	To Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37692 7 4	TOMO14
372-373	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	37692 8 3	TOYR14
374	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	37694 7 2	PWS14
375	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37694 4 1 4	QFL14
376-377	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	37694 4 5	QFLMO14

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
378-379	Adjusted Fluoridation - Year		QFLYR14
	Blank - Inapplicable	37694	
	45-80 - Actual year	4	
	33 - Not located		
	99 - Not ascertained	5	
[380-388]	FIFTEENTH RESIDENCE		RES15
380-383	City		CITY15
	Blank - Inapplicable/foreign country	37697	
	0001-9700 - City codes (except 3333)	4	
	3333 - Not located		
	9999 - Not ascertained	2	
384-386	County		COUNTY15
	Blank - Inapplicable/foreign country	37697	
	001-332 - County or parish	4	
	333 - Not located/multiple counties		
	334-509 - County in Texas		
	510-850 - Independent city		
	999 - County question not answered by parent	2	
387-388	State		STATE15
	Blank - Inapplicable/foreign country	37697	
	01-56 - State	4	
	99 - Not ascertained	2	
389-391	This Field Always Blank		FILLER20
[392-399]	Date Lived At Residence		DATLIV15
392-393	From Month		FROMMO15
	Blank - Inapplicable	37697	
	01-12 - Month	3	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	3	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
394-395	From Year Blank - Inapplicable 60-80 - Actual number 97 - Refused 98 - Don't know 99 - Not ascertained	37697 3 3	FROMYR15
396-397	To Month Blank - Inapplicable 01-12 - Month 97 - Refused 98 - Don't know 99 - Not ascertained	37697 3 3	TOMO15
398-399	To Year Blank - Inapplicable 60-80 - Actual year 97 - Refused 98 - Don't know 99 - Not ascertained	37697 3 3	TOYR15
400	Public Water Supply Blank - Inapplicable 1 - Yes 2 - No 8 - Don't know 9 - Not ascertained	37699 3 1	PWS15
401	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37699 1 3	QFL15

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY: 1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
402-403	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	37699 4	QFLMO15
404-405	Adjusted Fluoridation - Year Blank - Inapplicable 45-80 - Actual year 33 - Not located 99 - Not ascertained	37699 4	QFLYR15
[406-414]	SIXTEENTH RESIDENCE		RES16
406-409	City Blank - Inapplicable/foreign country 0001-9700 - City codes (except 3333) 3333 - Not located 9999 - Not ascertained	37698 3 2	CITY16
410-412	County Blank - Inapplicable/foreign country 001-332 - County or parish 333 - Not located/multiple counties 334-509 - County in Texas 510-850 - Independent city 999 - County question not answered by parent	37698 3 2	COUNTY16
413-414	State Blank - Inapplicable/foreign country 01-56 - State 99 - Not ascertained	37698 3 2	STATE16
415-417	This Field Always Blank		FILLER21
[418-425]	Date Lived At Residence		DATLIV16

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
418-419	From Month		FROMMO16
	Blank - Inapplicable	37698	
	01-12 - Month	2	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	3	
420-421	From Year		FROMYR16
	Blank - Inapplicable	37698	
	60-80 - Actual number	2	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	3	
422-423	To Month		TOMO16
	Blank - Inapplicable	37698	
	01-12 - Month	2	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	3	
424-425	To Year		TOYR16
	Blank - Inapplicable	37698	
	60-80 - Actual year	2	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	3	
426	Public Water Supply		PWS16
	Blank - Inapplicable	37700	
	1 - Yes	2	
	2 - No	1	
	8 - Don't know		
	9 - Not ascertained		

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
427	Type of Fluoridation Blank - Inapplicable, lived here less than six months 1 - Adjusted fluoridation 2 - Natural fluoridation 3 - Place not listed 6 - Mixed data-combination of fluoridated and non-fluoridated water 7 - Refused 8 - Don't know 9 - Not ascertained	37700 3	QFL16
428-429	Adjusted Fluoridation - Month Blank - Inapplicable 01-12 - Month 33 - Not located 99 - Not ascertained	37700 3	QFLMO16
430-431	Adjusted Fluoridation - Year Blank - Inapplicable 45-80 - Actual year 33 - Not located 99 - Not ascertained	37700 3	QFLYR16
[432-440]	SEVENTEENTH RESIDENCE		RES17
432-435	City Blank - Inapplicable/foreign country 0001-9700 - City codes (except 3333) 3333 - Not located 9999 - Not ascertained	37700 1 2	CITY17
436-438	County Blank - Inapplicable/foreign country 001-332 - County or parish 333 - Not located/multiple counties 334-509 - County in Texas 510-850 - Independent city 999 - County question not answered by parent	37700 1 2	COUNTY17

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 03
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
439-440	State		STATE17
	Blank - Inapplicable/foreign country	37700	
	01-56 - State	1	
	99 - Not ascertained	2	
441-443	This Field Always Blank		FILLER22
[444-451]	Date Lived At Residence		DATLIV17
444-445	From Month		FROMMO17
	Blank - Inapplicable	37700	
	01-12 - Month	1	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	2	
446-447	From Year		FROMYR17
	Blank - Inapplicable	37700	
	60-80 - Actual number	1	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	2	
448-449	To Month		TOMO17
	Blank - Inapplicable	37700	
	01-12 - Month	1	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	2	
450-451	To Year		TOYR17
	Blank - Inapplicable	37700	
	60-80 - Actual year	1	
	97 - Refused		
	98 - Don't know		
	99 - Not ascertained	2	

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RECORD 04

Dental Caries Data and Treatment Needs

	Page
Dental caries data	99
Treatment needs data	199

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
1-10	Coded Student ID Number		QID04
11-12	Record Type 04 - Dental Caries Data	37703	REC04
13-14	Subrecord 00 - Subrecord Number	37703	SUBREC04
15-17	This Field Always Blank		FILLER23
18	Upper Left, Central Incisor, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	4419 97 44 651 32035 80 215 4 158	UPLCILIN
19	Upper Left, Central Incisor, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	4429 91 40 651 32155 64 111 4 158	UPLCIBUC

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
20	Upper Left, Central Incisor, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	4131 376 54 651 31832 215 282 4 158	UPLCIMES
21	Upper Left, Central Incisor, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	4346 177 38 651 31831 198 300 4 158	UPLCIDIS
22	This Field Always Blank		FILLER24
23	Upper Left, Lateral Incisor, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	6852 79 50 1488 28386 190 539 11 108	UPLLLIN

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY: 1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
24	Upper Left, Lateral Incisor, Buccal Surface		UPLLIBUC
	1 - Sound primary	6783	
	2 - Decayed primary	155	
	3 - Filled primary	43	
	4 - Unerupted permanent	1488	
	5 - Sound permanent	28936	
	6 - Decayed permanent	84	
	7 - Filled permanent	95	
	8 - Missing (due to caries) permanent	11	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	108	
25	Upper Left, Lateral Incisor, Mesial Surface		UPLLIMES
	1 - Sound primary	6664	
	2 - Decayed primary	271	
	3 - Filled primary	46	
	4 - Unerupted permanent	1488	
	5 - Sound permanent	28523	
	6 - Decayed permanent	249	
	7 - Filled permanent	343	
	8 - Missing (due to caries) permanent	11	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	108	
26	Upper Left, Lateral Incisor, Distal Surface		UPLLDIS
	1 - Sound primary	6895	
	2 - Decayed primary	59	
	3 - Filled primary	27	
	4 - Unerupted permanent	1488	
	5 - Sound permanent	28961	
	6 - Decayed permanent	57	
	7 - Filled permanent	97	
	8 - Missing (due to caries) permanent	11	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	108	
27	This Field Always Blank		FILLER25

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
28	Upper Left, Cuspid, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16337 114 146 1456 19518 25 48 2 57	UPLCULIN
29	Upper Left, Cuspid, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16130 288 179 1456 19509 49 33 2 57	UPLCUBUC
30	Upper Left, Cuspid, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16458 90 49 1456 19519 34 38 2 57	UPLCUMES

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
31	Upper Left, Cuspid, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	16175 273 149 1456 19524 22 45 2 57	UPLCUDIS
32	This Field Always Blank		FILLER26
33	Upper Left, 1st Bicuspid or 1st Primary Molar, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	14850 238 340 472 19899 24 33 15 1832	UPL1BLIN
34	Upper Left, 1st Bicuspid or 1st Primary Molar, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	14827 238 363 472 19896 30 30 15 1832	UPL1BBUC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
35	Upper Left, 1st Bicuspid or 1st Primary Molar, Mesial Surface		UPL1BMES
	1 - Sound primary	14495	
	2 - Decayed primary	384	
	3 - Filled primary	549	
	4 - Unerupted permanent	472	
	5 - Sound permanent	19811	
	6 - Decayed permanent	33	
	7 - Filled permanent	112	
	8 - Missing (due to caries) permanent	15	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	1832	
36	Upper Left, 1st Bicuspid or 1st Primary Molar, Distal Surface		UPL1BDIS
	1 - Sound primary	12599	
	2 - Decayed primary	922	
	3 - Filled primary	1907	
	4 - Unerupted permanent	472	
	5 - Sound permanent	19560	
	6 - Decayed permanent	53	
	7 - Filled permanent	343	
	8 - Missing (due to caries) permanent	15	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	1832	
37	Upper Left, 1st Bicuspid or 1st Primary Molar, Occlusal Surface		UPL1BOCC
	1 - Sound primary	12037	
	2 - Decayed primary	1043	
	3 - Filled primary	2348	
	4 - Unerupted permanent	472	
	5 - Sound permanent	18821	
	6 - Decayed permanent	178	
	7 - Filled permanent	957	
	8 - Missing (due to caries) permanent	15	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	1832	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
38	Upper Left, 2nd Bicuspid or 2nd Primary Molar, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	15919 705 1786 338 18837 33 49 21 15	UPL2BLIN
39	Upper Left, 2nd Bicuspid or 2nd Primary Molar, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	17742 242 426 338 18870 26 23 21 15	UPL2BBUC
40	Upper Left, 2nd Bicuspid or 2nd Primary Molar, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	15378 891 2141 338 18501 45 373 21 15	UPL2BMES

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
41	Upper Left, 2nd Bicuspid or 2nd Primary Molar, Distal Surface		UPL2BDIS
	1 - Sound primary	17452	
	2 - Decayed primary	339	
	3 - Filled primary	618	
	4 - Unerupted permanent	338	
	5 - Sound permanent	18295	
	6 - Decayed permanent	62	
	7 - Filled permanent	563	
	8 - Missing (due to caries) permanent	21	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	15	
42	Upper Left, 2nd Bicuspid or 2nd Primary Molar, Occlusal Surface		UPL2BOCC
	1 - Sound primary	12215	
	2 - Decayed primary	1740	
	3 - Filled primary	4455	
	4 - Unerupted permanent	338	
	5 - Sound permanent	17398	
	6 - Decayed permanent	188	
	7 - Filled permanent	1333	
	8 - Missing (due to caries) permanent	21	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	15	
43	Upper Left, 1st Molar, Lingual Surface		UPL1MLIN
	4 - Unerupted permanent	3234	
	5 - Sound permanent	27737	
	6 - Decayed permanent	720	
	7 - Filled permanent	5755	
	8 - Missing (due to caries) permanent	241	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
44	Upper Left, 1st Molar, Buccal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3234 33130 297 785 241 16	UPLIMBUC
45	Upper Left, 1st Molar, Mesial Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3234 31972 282 1958 241 16	UPLIMMES
46	Upper Left, 1st Molar, Distal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3234 33399 243 570 241 16	UPL1MDIS
47	Upper Left, 1st Molar, Occlusal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3234 19968 2176 12068 241 16	UPL1MOCC

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
48	Upper Left, 2nd Molar, Lingual Surface		UPL2MLIN
	4 - Unerupted permanent	21093	
	5 - Sound permanent	15703	
	6 - Decayed permanent	113	
	7 - Filled permanent	765	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
49	Upper Left, 2nd Molar, Buccal Surface		UPL2MBUC
	4 - Unerupted permanent	21093	
	5 - Sound permanent	16314	
	6 - Decayed permanent	88	
	7 - Filled permanent	179	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
50	Upper Left, 2nd Molar, Mesial Surface		UPL2MMES
	4 - Unerupted permanent	21093	
	5 - Sound permanent	16378	
	6 - Decayed permanent	31	
	7 - Filled permanent	172	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
51	Upper Left, 2nd Molar, Distal Surface		UPL2MDIS
	4 - Unerupted permanent	21093	
	5 - Sound permanent	16410	
	6 - Decayed permanent	61	
	7 - Filled permanent	110	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
52	Upper Left, 2nd Molar, Occlusal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	21093 12208 868 3505 18 11	UPL2MOCC
53	Upper Right, Central Incisor, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	4430 70 52 598 32078 85 213 5 172	UPRCILIN
54	Upper Right, Central Incisor, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	4431 75 46 598 32210 68 98 5 172	UPRCIBUC

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NATIONAL DENTAL CARIES PREVALENCE SURVEY: 1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
55	Upper Right, Central Incisor, Mesial Surface		UPRCIMES
	1 - Sound primary	4147	
	2 - Decayed primary	348	
	3 - Filled primary	57	
	4 - Unerupted permanent	598	
	5 - Sound permanent	31907	
	6 - Decayed permanent	219	
	7 - Filled permanent	250	
	8 - Missing (due to caries) permanent	5	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	172	
56	Upper Right, Central Incisor, Distal Surface		UPRCIDIS
	1 - Sound primary	4340	
	2 - Decayed primary	165	
	3 - Filled primary	47	
	4 - Unerupted permanent	598	
	5 - Sound permanent	31886	
	6 - Decayed permanent	189	
	7 - Filled permanent	301	
	8 - Missing (due to caries) permanent	5	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	172	
57	This Field Always Blank		FILLER27
58	Upper Right, Lateral Incisor, Lingual Surface		UPRLILIN
	1 - Sound primary	6758	
	2 - Decayed primary	79	
	3 - Filled primary	48	
	4 - Unerupted permanent	1637	
	5 - Sound permanent	28373	
	6 - Decayed permanent	168	
	7 - Filled permanent	512	
	8 - Missing (due to caries) permanent	14	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	114	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
59	Upper Right, Lateral Incisor, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	6716 127 42 1637 28878 86 89 14 114	UPRLIBUC
60	Upper Right, Lateral Incisor, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	6572 259 54 1637 28479 249 325 14 114	UPRLIMES
61	Upper Right, Lateral Incisor, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	6791 65 29 1637 28900 66 87 14 114	UPRLIDIS
62	This Field Always Blank		FILLER28

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
63	Upper Right, Cuspid, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16336 102 107 1516 19505 25 53 3 56	UPRCULIN
64	Upper Right, Cuspid, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16088 281 176 1516 19513 41 29 3 56	UPRCUBUC
65	Upper Right, Cuspid, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16401 99 45 1516 19512 40 31 3 56	UPRCUMES

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
66	Upper Right, Cuspid, Distal Surface		UPRCUDIS
	1 - Sound primary	16184	
	2 - Decayed primary	241	
	3 - Filled primary	120	
	4 - Unerupted permanent	1516	
	5 - Sound permanent	19523	
	6 - Decayed permanent	25	
	7 - Filled permanent	35	
	8 - Missing (due to caries) permanent	3	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	56	
67	This Field Always Blank		FILLER29
68	Upper Right, 1st Bicuspid or 1st Primary Molar, Lingual Surface		UPR1BLIN
	1 - Sound primary	14907	
	2 - Decayed primary	224	
	3 - Filled primary	327	
	4 - Unerupted permanent	498	
	5 - Sound permanent	19860	
	6 - Decayed permanent	20	
	7 - Filled permanent	22	
	8 - Missing (due to caries) permanent	13	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	1832	
69	Upper Right, 1st Bicuspid or 1st Primary Molar, Buccal Surface		UPR1BBUC
	1 - Sound primary	14920	
	2 - Decayed primary	225	
	3 - Filled primary	313	
	4 - Unerupted permanent	498	
	5 - Sound permanent	19854	
	6 - Decayed permanent	28	
	7 - Filled permanent	20	
	8 - Missing (due to caries) permanent	13	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	1832	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
70	Upper Right, 1st Bicuspid or 1st Primary Molar, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	14559 372 527 498 19749 36 117 13 1832	UPR1BMES
71	Upper Right, 1st Bicuspid or 1st Primary Molar, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	12771 893 1794 498 19516 57 329 13 1832	UPR1BDIS
72	Upper Right, 1st Bicuspid or 1st Primary Molar, Occlusal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	12093 1020 2345 498 18771 178 953 13 1832	UPR1BOCC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
73	Upper Right, 2nd Bicuspid or 2nd Primary Molar, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	15975 682 1758 327 18812 34 56 22 37	UPR2BLIN
74	Upper Right, 2nd Bicuspid or 2nd Primary Molar, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	17783 246 386 327 18859 21 22 22 37	UPR2BBUC
75	Upper Right, 2nd Bicuspid or 2nd Primary Molar, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	15355 926 2134 327 18470 47 385 22 37	UPR2BMES

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
76	Upper Right, 2nd Bicuspid or 2nd Primary Molar, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	17447 370 598 327 18256 55 591 22 37	UPR2BDIS
77	Upper Right, 2nd Bicuspid or 2nd Primary Molar, Occlusal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	12025 1786 4604 327 17374 177 1351 22 37	UPR2BOCC
78	Upper Right, 1st Molar, Lingual Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3233 27663 686 5870 237 14	UPR1MLIN

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
79	Upper Right, 1st Molar, Buccal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3233 33243 271 705 237 14	UPR1MBUC
80	Upper Right, 1st Molar, Mesial Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3233 32026 226 1967 237 14	UPR1MMES
81	Upper Right, 1st Molar, Distal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3233 33447 233 539 237 14	UPR1MDIS
82	Upper Right, 1st Molar, Occlusal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3233 19625 2116 12478 237 14	UPR1MOCC

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
83	Upper Right, 2nd Molar, Lingual Surface		UPR2MLIN
	4 - Unerupted permanent	21259	
	5 - Sound permanent	15508	
	6 - Decayed permanent	112	
	7 - Filled permanent	795	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
84	Upper Right, 2nd Molar, Buccal Surface		UPR2MBUC
	4 - Unerupted permanent	21259	
	5 - Sound permanent	16195	
	6 - Decayed permanent	76	
	7 - Filled permanent	144	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
85	Upper Right, 2nd Molar, Mesial Surface		UPR2MMES
	4 - Unerupted permanent	21259	
	5 - Sound permanent	16238	
	6 - Decayed permanent	25	
	7 - Filled permanent	152	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
86	Upper Right, 2nd Molar, Distal Surface		UPR2MDIS
	4 - Unerupted permanent	21259	
	5 - Sound permanent	16262	
	6 - Decayed permanent	49	
	7 - Filled permanent	104	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
87	Upper Right, 2nd Molar, Occlusal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	21259 12050 863 3502 18 11	UPR2MOCC
88	Lower Left, Central Incisor, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	2602 2 2 123 34921 7 16 3 27	LOLCILIN
89	Lower Left, Central Incisor, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	2595 9 2 123 34919 6 19 3 27	LOLCIBUC

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
90	Lower Left, Central Incisor, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	2579 26 2 123 34812 68 63 3 27	LOLCIMES
91	Lower Left, Central Incisor, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	2589 15 3 123 34842 57 44 3 27	LOLCIDIS
92	This Field Always Blank		FILLER30
93	Lower Left, Lateral Incisor, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	5259 3 5 681 31700 5 14 2 34	LOLLILIN

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
94	Lower Left, Lateral Incisor, Buccal Surface		LOLLIBUC
	1 - Sound primary	5247	
	2 - Decayed primary	13	
	3 - Filled primary	7	
	4 - Unerupted permanent	681	
	5 - Sound permanent	31691	
	6 - Decayed permanent	12	
	7 - Filled permanent	16	
	8 - Missing (due to caries) permanent	2	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	34	
95	Lower Left, Lateral Incisor, Mesial Surface		LOLLIMES
	1 - Sound primary	5237	
	2 - Decayed primary	25	
	3 - Filled primary	5	
	4 - Unerupted permanent	681	
	5 - Sound permanent	31624	
	6 - Decayed permanent	42	
	7 - Filled permanent	53	
	8 - Missing (due to caries) permanent	2	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	34	
96	Lower Left, Lateral Incisor, Distal Surface		LOLLIDIS
	1 - Sound primary	5239	
	2 - Decayed primary	21	
	3 - Filled primary	7	
	4 - Unerupted permanent	681	
	5 - Sound permanent	31684	
	6 - Decayed permanent	13	
	7 - Filled permanent	22	
	8 - Missing (due to caries) permanent	2	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	34	
97	This Field Always Blank		FILLER31

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
98	Lower Left, Cuspid, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13522 42 82 1268 22759 2 5 1 22	LOLCULIN
99	Lower Left, Cuspid, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13193 223 230 1268 22736 16 14 1 22	LOLCUBUC
100	Lower Left, Cuspid, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13502 88 56 1268 22743 13 10 1 22	LOLCUMES

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
101	Lower Left, Cuspid, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13364 177 105 1268 22752 5 9 1 22	LOLCUDIS
102	This Field Always Blank		FILLER32
103	Lower Left, 1st Bicuspid or 1st Primary Molar, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13628 387 652 875 20616 6 14 10 1515	LOL1BLIN
104	Lower Left, 1st Bicuspid or 1st Primary Molar, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13724 331 612 875 20595 19 22 10 1515	LOL1BBUC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
105	Lower Left, 1st Bicuspid or 1st Primary Molar, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	 13711 287 669 875 20597 7 32 10 1515	LOL1BMES
106	Lower Left, 1st Bicuspid or 1st Primary Molar, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	 10829 1266 2572 875 20507 15 114 10 1515	LOL1BDIS
107	Lower Left, 1st Bicuspid or 1st Primary Molar, Occlusal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	 10043 1328 3296 875 20068 60 508 10 1515	LOL1BOCC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
108	Lower Left, 2nd Bicuspid or 2nd Primary Molar, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16427 635 975 814 18665 31 24 68 64	LOL2BLIN
109	Lower Left, 2nd Bicuspid or 2nd Primary Molar, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16006 564 1467 814 18629 37 54 68 64	LOL2BBUC
110	Lower Left, 2nd Bicuspid or 2nd Primary Molar, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	14875 810 2351 814 18552 30 139 68 64	LOL2BMES

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
111	Lower Left, 2nd Bicuspid or 2nd Primary Molar, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16431 530 1076 814 18241 45 434 68 64	LOL2BDIS
112	Lower Left, 2nd Bicuspid or 2nd Primary Molar, Occlusal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11389 1783 4864 814 17249 185 1287 68 64	LOL2BOCC
113	Lower Left, 1st Molar, Lingual Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	2954 32943 450 728 609 19	LOL1MLIN

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
114	Lower Left, 1st Molar, Buccal Surface		LOLIMBUC
	4 - Unerupted permanent	2954	
	5 - Sound permanent	26569	
	6 - Decayed permanent	1244	
	7 - Filled permanent	6308	
	8 - Missing (due to caries) permanent	609	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19	
115	Lower Left, 1st Molar, Mesial Surface		LOLIMMES
	4 - Unerupted permanent	2954	
	5 - Sound permanent	32097	
	6 - Decayed permanent	339	
	7 - Filled permanent	1685	
	8 - Missing (due to caries) permanent	609	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19	
116	Lower Left, 1st Molar, Distal Surface		LOL1MDIS
	4 - Unerupted permanent	2954	
	5 - Sound permanent	32949	
	6 - Decayed permanent	370	
	7 - Filled permanent	802	
	8 - Missing (due to caries) permanent	609	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19	
117	Lower Left, 1st Molar, Occlusal Surface		LOL1MOCC
	4 - Unerupted permanent	2954	
	5 - Sound permanent	20279	
	6 - Decayed permanent	2038	
	7 - Filled permanent	11804	
	8 - Missing (due to caries) permanent	609	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
118	Lower Left, 2nd Molar, Lingual Surface		LOL2MLIN
	4 - Unerupted permanent	19475	
	5 - Sound permanent	18006	
	6 - Decayed permanent	70	
	7 - Filled permanent	84	
	8 - Missing (due to caries) permanent	57	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
119	Lower Left, 2nd Molar, Buccal Surface		LOL2MBUC
	4 - Unerupted permanent	19475	
	5 - Sound permanent	16585	
	6 - Decayed permanent	394	
	7 - Filled permanent	1181	
	8 - Missing (due to caries) permanent	57	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
120	Lower Left, 2nd Molar, Mesial Surface		LOL2MMES
	4 - Unerupted permanent	19475	
	5 - Sound permanent	17821	
	6 - Decayed permanent	56	
	7 - Filled permanent	283	
	8 - Missing (due to caries) permanent	57	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	
121	Lower Left, 2nd Molar, Distal Surface		LOL2MDIS
	4 - Unerupted permanent	19475	
	5 - Sound permanent	18042	
	6 - Decayed permanent	64	
	7 - Filled permanent	54	
	8 - Missing (due to caries) permanent	57	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
122	Lower Left, 2nd Molar, Occlusal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19475 12696 966 4498 57 11	LOL2MOCC
123	Lower Right, Central Incisor, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	2567 1 1 136 34940 5 16 4 33	LORCILIN
124	Lower Right, Central Incisor, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	2560 7 2 136 34935 11 15 4 33	LORCIBUC

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
125	Lower Right, Central Incisor, Mesial Surface		LORCIMES
	1 - Sound primary	2551	
	2 - Decayed primary	17	
	3 - Filled primary	1	
	4 - Unerupted permanent	136	
	5 - Sound permanent	34849	
	6 - Decayed permanent	54	
	7 - Filled permanent	58	
	8 - Missing (due to caries) permanent	4	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	33	
126	Lower Right, Central Incisor, Distal Surface		LORCIDIS
	1 - Sound primary	2553	
	2 - Decayed primary	15	
	3 - Filled primary	1	
	4 - Unerupted permanent	136	
	5 - Sound permanent	34853	
	6 - Decayed permanent	50	
	7 - Filled permanent	58	
	8 - Missing (due to caries) permanent	4	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	33	
127	This Field Always Blank		FILLER33
128	Lower Right, Lateral Incisor, Lingual Surface		LORLILIN
	1 - Sound primary	5203	
	2 - Decayed primary	6	
	3 - Filled primary	3	
	4 - Unerupted permanent	687	
	5 - Sound permanent	31760	
	6 - Decayed permanent	6	
	7 - Filled permanent	11	
	8 - Missing (due to caries) permanent	5	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	22	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
129	Lower Right, Lateral Incisor, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	5199 10 3 687 31747 16 14 5 22	LORLIBUC
130	Lower Right, Lateral Incisor, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	5183 26 3 687 31688 39 50 5 22	LORLIMES
131	Lower Right, Lateral Incisor, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	5186 21 5 687 31734 20 23 5 22	LORLIDIS
132	This Field Always Blank		FILLER34

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
133	Lower Right, Cuspid, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13427 43 87 1274 22834 4 6 3 25	LORCULIN
134	Lower Right, Cuspid, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13080 240 237 1274 22821 13 10 3 25	LORCUBUC
135	Lower Right, Cuspid, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13388 106 63 1274 22828 9 7 3 25	LORCUMES

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
136	Lower Right, Cuspid, Distal Surface		LORCUDIS
	1 - Sound primary	13245	
	2 - Decayed primary	187	
	3 - Filled primary	125	
	4 - Unerupted permanent	1274	
	5 - Sound permanent	22831	
	6 - Decayed permanent	4	
	7 - Filled permanent	9	
	8 - Missing (due to caries) permanent	3	
	9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	25	
137	This Field Always Blank		FILLER35
138	Lower Right, 1st Bicuspid or 1st Primary Molar, Lingual Surface		LOR1BLIN
	1 - Sound primary	13588	
	2 - Decayed primary	396	
	3 - Filled primary	675	
	4 - Unerupted permanent	878	
	5 - Sound permanent	20615	
	6 - Decayed permanent	8	
	7 - Filled permanent	10	
	8 - Missing (due to caries) permanent	16	
	9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	1517	
139	Lower Right, 1st Bicuspid or 1st Primary Molar, Buccal Surface		LOR1BBUC
	1 - Sound primary	13750	
	2 - Decayed primary	297	
	3 - Filled primary	612	
	4 - Unerupted permanent	878	
	5 - Sound permanent	20591	
	6 - Decayed permanent	21	
	7 - Filled permanent	21	
	8 - Missing (due to caries) permanent	16	
	9 - Missing (non-carries) permanent surface, i.e. ortho/trauma or excluded	1517	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
140	Lower Right, 1st Bicuspid or 1st Primary Molar, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	13692 258 709 878 20582 12 39 16 1517	LOR1BMES
141	Lower Right, 1st Bicuspid or 1st Primary Molar, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	10914 1226 2519 878 20496 14 123 16 1517	LOR1BDIS
142	Lower Right, 1st Bicuspid or 1st Primary Molar, Occlusal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	10142 1262 3255 878 20064 76 493 16 1517	LOR1BOCC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
143	Lower Right, 2nd Bicuspid or 2nd Primary Molar, Lingual Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16353 616 977 836 18711 32 41 66 71	LOR2BLIN
144	Lower Right, 2nd Bicuspid or 2nd Primary Molar, Buccal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	15887 580 1479 836 18689 29 66 66 71	LOR2BBUC
145	Lower Right, 2nd Bicuspid or 2nd Primary Molar, Mesial Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	14863 786 2297 836 18569 37 178 66 71	LOR2BMES

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
146	Lower Right, 2nd Bicuspid or 2nd Primary Molar, Distal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	16298 536 1112 836 18264 43 477 66 71	LOR2BDIS
147	Lower Right, 2nd Bicuspid or 2nd Primary Molar, Occlusal Surface 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	11273 1749 4924 836 17203 201 1378 66 71	LOR2BOCC
148	Lower Right, 1st Molar, Lingual Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3049 32930 420 695 582 27	LOR1MLIN

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
149	Lower Right, 1st Molar, Buccal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3049 26395 1233 6417 582 27	LORIMBUC
150	Lower Right, 1st Molar, Mesial Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3049 31913 336 1796 582 27	LORIMMES
151	Lower Right, 1st Molar, Distal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3049 32912 331 802 582 27	LOR1MDIS
152	Lower Right, 1st Molar, Occlusal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	3049 20336 1917 11792 582 27	LOR1MOCC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
153	Lower Right, 2nd Molar, Lingual Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19573 17868 77 100 68 17	LOR2MLIN
154	Lower Right, 2nd Molar, Buccal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19573 16467 400 1178 68 17	LOR2MBUC
155	Lower Right, 2nd Molar, Mesial Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19573 17699 50 296 68 17	LOR2MMES
156	Lower Right, 2nd Molar, Distal Surface 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	19573 17922 66 57 68 17	LOR2MDIS

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
157	Lower Right, 2nd Molar, Occlusal Surface		LOR2MOCC
	4 - Unerupted permanent	19573	
	5 - Sound permanent	12555	
	6 - Decayed permanent	977	
	7 - Filled permanent	4513	
	8 - Missing (due to caries) permanent	68	
	9 - Missing (non-caries) permanent surface, i.e. ortho/trauma or excluded	17	
	TOOTH CALLS*		
158	Upper Left, Central Incisor, Tooth Call		UPLCITC
	1 - Sound primary	4038	
	2 - Decayed primary	454	
	3 - Filled primary	68	
	4 - Unerupted permanent	651	
	5 - Sound permanent	31387	
	6 - Decayed permanent	408	
	7 - Filled permanent	535	
	8 - Missing (due to caries) permanent	4	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	158	
159	Upper Left, Lateral Incisor, Tooth Call		UPLLITC
	1 - Sound primary	6530	
	2 - Decayed primary	383	
	3 - Filled primary	68	
	4 - Unerupted permanent	1488	
	5 - Sound permanent	27902	
	6 - Decayed permanent	439	
	7 - Filled permanent	774	
	8 - Missing (due to caries) permanent	11	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	108	

*See Detailed Notes.

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
160	Upper Left, Cuspid, Tooth Call 1 - Sound primary tooth 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	15766 536 295 1456 19383 99 109 2 57	UPLCUTC
161	Upper Left, 1st Bicuspid or 1st Primary Molar, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	11758 1348 2322 472 18782 211 963 15 1832	UPL1BTC
162	Upper Left, 2nd Bicuspid or 2nd Primary Molar, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	11857 2108 4445 338 17365 222 1332 21 15	UPL2BTC

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
163	Upper Left, 1st Molar, Tooth Call		UPL1MTC
	4 - Unerupted permanent	3234	
	5 - Sound permanent	19508	
	6 - Decayed permanent	2559	
	7 - Filled permanent	12145	
	8 - Missing (due to caries) permanent	241	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	16	
164	Upper Left, 2nd Molar, Tooth Call		UPL2MTC
	4 - Unerupted permanent	21093	
	5 - Sound permanent	12117	
	6 - Decayed permanent	939	
	7 - Filled permanent	3525	
	8 - Missing (due to caries) permanent	18	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	11	
165	Upper Right, Central Incisor, Tooth Call		UPRCITC
	1 - Sound primary	4064	
	2 - Decayed primary	415	
	3 - Filled primary	73	
	4 - Unerupted permanent	598	
	5 - Sound permanent	31470	
	6 - Decayed permanent	402	
	7 - Filled permanent	504	
	8 - Missing (due to caries) permanent	5	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	172	

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
166	Upper Right, Lateral Incisor, Tooth Call		UPRLITC
	1 - Sound primary	6472	
	2 - Decayed primary	339	
	3 - Filled primary	74	
	4 - Unerupted permanent	1637	
	5 - Sound permanent	27858	
	6 - Decayed permanent	455	
	7 - Filled permanent	740	
	8 - Missing (due to caries) permanent	14	
9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	114		
167	Upper Right, Cuspid, Tooth Call		UPRCUTC
	1 - Sound primary	15774	
	2 - Decayed primary	494	
	3 - Filled primary	277	
	4 - Unerupted permanent	1516	
	5 - Sound permanent	19382	
	6 - Decayed permanent	95	
	7 - Filled permanent	106	
	8 - Missing (due to caries) permanent	3	
9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	56		
168	Upper Right, 1st Bicuspid or 1st Primary Molar, Tooth Call		UPR1BTC
	1 - Sound primary	11840	
	2 - Decayed primary	1308	
	3 - Filled primary	2310	
	4 - Unerupted permanent	498	
	5 - Sound permanent	18740	
	6 - Decayed permanent	206	
	7 - Filled permanent	956	
	8 - Missing (due to caries) permanent	13	
9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	1832		

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
169	Upper Right, 2nd Bicuspid or 2nd Primary Molar, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	11693 2143 4579 327 17336 207 1359 22 37	UPR2BTC
170	Upper Right, 1st Molar, Tooth Call 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	3233 19205 2453 12561 237 14	UPR1MTC
171	Upper Right, 2nd Molar, Tooth Call 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	21259 11946 947 3522 18 11	UPR2MTC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
172	Lower Left, Central Incisor, Tooth Call		LOLCITC
	1 - Sound primary	2565	
	2 - Decayed primary	39	
	3 - Filled primary	3	
	4 - Unerupted permanent	123	
	5 - Sound permanent	34749	
	6 - Decayed permanent	107	
	7 - Filled permanent	87	
	8 - Missing (due to caries) permanent	3	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	27	
173	Lower Left, Lateral Incisor, Tooth Call		LOLLITC
	1 - Sound primary	5208	
	2 - Decayed primary	50	
	3 - Filled primary	9	
	4 - Unerupted permanent	681	
	5 - Sound permanent	31594	
	6 - Decayed permanent	59	
	7 - Filled permanent	66	
	8 - Missing (due to caries) permanent	2	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	34	
174	Lower Left, Cuspid, Tooth Call		LOLCUTC
	1 - Sound primary	12959	
	2 - Decayed primary	386	
	3 - Filled primary	301	
	4 - Unerupted permanent	1268	
	5 - Sound permanent	22703	
	6 - Decayed permanent	32	
	7 - Filled permanent	31	
	8 - Missing (due to caries) permanent	1	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	22	

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
175	Lower Left, 1st Bicuspid or 1st Primary Molar, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	9833 1588 3246 875 20042 74 520 10 1515	LOL1BTC
176	Lower Left, 2nd Bicuspid or 2nd Primary Molar, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent tooth 8 - Missing (due to caries) permanent tooth 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	11142 2099 4795 814 17221 210 1290 68 64	LOL2BTC
177	Lower Left, 1st Molar, Tooth Call 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	2954 18715 2779 12627 609 19	LOL1MTC

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
178	Lower Left, 2nd Molar, Tooth Call 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	19475 12243 1236 4681 57 11	LOL2MTC
179	Lower Right, Central Incisor, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	2540 27 2 136 34787 89 85 4 33	LORCITC
180	Lower Right, Lateral Incisor, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	5162 45 5 687 31657 60 60 5 22	LORLITC

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
181	Lower Right, Cuspid, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	12814 414 329 1274 22795 25 24 3 25	LORCUTC
182	Lower Right, 1st Bicuspid or 1st Primary Molar, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/Trauma or excluded	9930 1532 3197 878 20029 92 512 16 1517	LOR1BTC
183	Lower Right, 2nd Bicuspid or 2nd Primary Molar, Tooth Call 1 - Sound primary 2 - Decayed primary 3 - Filled primary 4 - Unerupted permanent 5 - Sound permanent 6 - Decayed permanent 7 - Filled permanent 8 - Missing (due to caries) permanent 9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	11016 2087 4843 836 17174 225 1385 66 71	LOR2BTC

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
184	Lower Right, 1st Molar, Tooth Call		LOR1MTC
	4 - Unerupted permanent	3049	
	5 - Sound permanent	18752	
	6 - Decayed permanent	2678	
	7 - Filled permanent	12615	
	8 - Missing (due to caries) permanent	582	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	27	
185	Lower Right, 2nd Molar, Tooth Call		LOR2MTC
	4 - Unerupted permanent	19573	
	5 - Sound permanent	12121	
	6 - Decayed permanent	1233	
	7 - Filled permanent	4691	
	8 - Missing (due to caries) permanent	68	
	9 - Missing (non-caries) permanent tooth, i.e. ortho/trauma or excluded	17	
186-247	This Field Always Blank		FILLER36
248-249	Examiner		EXAMINER
	00-66 - Examiner Number	37703	
250	This Field Always Blank		FILLER37
251	Recorder		RECORDER
	0-9 - Recorder Number	37703	
252-298	This Field Always Blank		FILLER38

NOTES

**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
299	<p align="center">GINGIVITIS INDEX</p> <p>Gingivitis Index</p> <p>0 - No gingival inflammation present</p> <p>1 - Gingival inflammation present, less than half of teeth are affected</p> <p>2 - Gingival inflammation present, more than half of teeth are affected</p> <p>3 - Gingival inflammation present, one or more sites bleed easily</p> <p>4 - Advanced destruction (periodontal treatment needed)</p> <p>9 - Not ascertained</p>	<p align="center">1501</p> <p align="center">23964</p> <p align="center">11118</p> <p align="center">838</p> <p align="center">174</p> <p align="center">108</p>	GINGINDX
300	<p align="center">ORTHODONTIC INDEX</p> <p>Orthodontics In Progress</p> <p>1 - Yes</p> <p>3 - No</p> <p>9 - Not ascertained</p>	<p align="center">3052</p> <p align="center">34521</p> <p align="center">130</p>	ORTHOPRO
301	<p>Previous Orthodontics</p> <p>1 - Yes</p> <p>3 - No</p> <p>5 - Don't know</p> <p>9 - Not ascertained</p>	<p align="center">4113</p> <p align="center">33431</p> <p align="center">8</p> <p align="center">151</p>	PREORTHO
302-304	<p align="center">TREATMENT NEEDS*</p> <p>Upper Left, Central Incisor, Treatment Need</p> <p>000 - No treatment needed</p> <p>001 - 1 surface restoration</p> <p>002 - 2 surface restoration (or 2 one surface restorations)</p>	<p align="center">37096</p> <p align="center">218</p> <p align="center">177</p>	UPLCI1

*See Detailed Notes.

NOTES

NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
003	- 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	70	
004	- More than 3 surfaces, but not a crown (code 7)	24	
005	- Extraction of primary tooth	52	
006	- Extraction of permanent tooth	4	
007	- Crown (either primary or permanent)	31	
008	- Tooth replacement - when permanent tooth already missing and replacement needed		
009	- Root canal or other pulpal treatment needed		
019	- 1 Surface restoration and root canal or other pulpal treatment needed		
029	- 2 surface restoration and root canal or other pulpal treatment needed		
039	- 3 surface restoration and root canal or other pulpal treatment needed		
049	- 4 or more surface restorations and root canal or other pulpal treatment needed		
056	- Extraction of primary tooth and extraction of permanent tooth		
057	- Extraction of primary tooth and crown (either primary or permanent)		
058	- Extraction of primary tooth and tooth replacement	1	
059	- Extraction of primary tooth and root canal or other pulpal treatment needed		
068	- Extraction of permanent tooth and tooth replacement	3	
079	- Crown (either primary or permanent) and root canal or other pulpal treatment needed	12	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
305-307	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		UPLLI1
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	6	
	Upper Left, Lateral Incisor, Treatment Need		
	000 - No treatment needed	37149	
	001 - 1 surface restoration	302	
	002 - 2 surface restoration (or 2 one surface restorations)	126	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	20	
	004 - More than 3 surfaces, but not a crown (code 7)	8	
	005 - Extraction of primary tooth	46	
	006 - Extraction of permanent tooth	8	
	007 - Crown (either primary or permanent)	14	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	9	
	009 - Root canal or other pulpal treatment needed	3	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
049 - 4 or more surface restorations and root canal or other pulpal treatment needed			
056 - Extraction of primary tooth and extraction of permanent tooth			

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	2	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	10	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	6	
308-310	Upper Left, Cuspid, Treatment Need		UPLCU1
	000 - No treatment needed	37158	
	001 - 1 surface restoration	250	
	002 - 2 surface restoration (or 2 one surface restorations)	117	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	12	
	004 - More than 3 surfaces, but not a crown (code 7)	2	
	005 - Extraction of primary tooth	120	
	006 - Extraction of permanent tooth		
	007 - Crown (either primary or permanent)	22	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	3	
	009 - Root canal or other pulpal treatment needed	2	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	1	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	10	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	6	
311-313	Upper Left, 1st Bicuspid or 1st Primary Molar, Treatment Need		UPL1B1
	000 - No treatment needed	36199	
	001 - 1 surface restoration	246	
	002 - 2 surface restoration (or 2 one surface restorations)	687	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
003	- 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	125	
004	- More than 3 surfaces, but not a crown (code 7)	14	
005	- Extraction of primary tooth	274	
006	- Extraction of permanent tooth	3	
007	- Crown (either primary or permanent)	30	
008	- Tooth replacement - when permanent tooth already missing and replacement needed	8	
009	- Root canal or other pulpal treatment needed	2	
019	- 1 surface restoration and root canal or other pulpal treatment needed		
029	- 2 surface restoration and root canal or other pulpal treatment needed	1	
039	- 3 surface restoration and root canal or other pulpal treatment needed		
049	- 4 or more surface restorations and root canal or other pulpal treatment needed	1	
056	- Extraction of primary tooth and extraction of permanent tooth		
057	- Extraction of primary tooth and crown (either primary or permanent)		
058	- Extraction of primary tooth and tooth replacement	1	
059	- Extraction of primary tooth and root canal or other pulpal treatment needed		
068	- Extraction of permanent tooth and tooth replacement	4	
079	- Crown (either primary or permanent) and root canal or other pulpal treatment needed	69	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
314-316	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		UPL2B1
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	39	
	Upper Left, 2nd Bicuspid or 2nd Primary Molar, Treatment Need		
	000 - No Treatment Needed	35627	
	001 - 1 Surface Restoration	667	
	002 - 2 Surface Restoration (or 2 One Surface Restorations)	669	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	131	
	004 - More than 3 surfaces, but not a crown (code 7)	25	
	005 - Extraction of primary tooth	360	
	006 - Extraction of permanent tooth	9	
	007 - Crown (either primary or permanent)	32	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	9	
	009 - Root canal or other pulpal treatment needed	1	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
029 - 2 surface restoration and root canal or other pulpal treatment needed	2		
039 - 3 surface restoration and root canal or other pulpal treatment needed			
049 - 4 or more surface restorations and root canal or other pulpal treatment needed	2		

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement		
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed		
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	58	
317-319	Upper Left, 1st Molar, Treatment Need		UPL1M1
	000 - No treatment needed	34935	
	001 - 1 surface restoration	1441	
	002 - 2 surface restoration (or 2 one surface restorations)	727	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	179	
	004 - More than 3 surfaces, but not a crown (code 7)	34	
	005 - Extraction of primary tooth	4	
	006 - Extraction of permanent tooth	21	
	007 - Crown (either primary or permanent)	31	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	84	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	009 - Root canal or other pulpal treatment needed	1	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed	1	
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed	2	
	056 - Extraction of primary tooth and extraction of permanent tooth	1	
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	68	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	96	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	78	
320-322	Upper Left, 2nd Molar, Treatment Need		UPL2M1
	000 - No treatment needed	36743	
	001 - 1 surface restoration	725	
	002 - 2 surface restoration (or 2 one surface restorations)	145	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	27	
	004 - More than 3 surfaces, but not a crown (code 7)	6	
	005 - Extraction of primary tooth	9	
	006 - Extraction of permanent tooth	5	
	007 - Crown (either primary or permanent)		
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	8	
	009 - Root canal or other pulpal treatment needed	1	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	11	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	16	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	7	
323-325	Upper Right, Central Incisor, Treatment Need		UPRCI1
	000 - No treatment needed	37124	
	001 - 1 surface restoration	213	
	002 - 2 surface restoration (or 2 one surface restorations)	161	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	68	
	004 - More than 3 surfaces, but not a crown (code 7)	26	
	005 - extraction of primary tooth	50	
	006 - Extraction of permanent tooth	2	
	007 - Crown (either primary or permanent)	32	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	5	
	009 - Root canal or other pulpal treatment needed	3	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth		

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	2	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	14	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	3	
	Upper Right, Lateral Incisor, Treatment Need		UPRLI1
	000 - No treatment needed	37147	
	001 - 1 surface restoration	325	
	002 - 2 surface restoration (or 2 one surface restorations)	112	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	28	
	004 - More than 3 surfaces, but not a crown (code 7)	4	
	005 - Extraction of primary tooth	49	
	006 - Extraction of permanent tooth	2	
	007 - Crown (either primary or permanent)	14	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	5	
	009 - Root canal or other pulpal treatment needed	1	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	3	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	7	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	6	
329-331	Upper Right, Cuspid, Treatment Need		UPRCU1
	000 - No treatment needed	37187	
	001 - 1 surface restoration	233	
	002 - 2 surface restoration (or 2 one surface restorations)	103	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	15	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
004	- More than 3 surfaces, but not a crown (code 7)	3	
005	- Extraction of primary tooth	114	
006	- Extraction of permanent tooth	2	
007	- Crown (either primary or permanent)	27	
008	- Tooth replacement - when permanent tooth already missing and replacement needed	1	
009	- Root canal or other pulpal treatment needed	2	
019	- 1 surface restoration and root canal or other pulpal treatment needed	1	
029	- 2 surface restoration and root canal or other pulpal treatment needed		
039	- 3 surface restoration and root canal or other pulpal treatment needed		
049	- 4 or more surface restorations and root canal or other pulpal treatment needed		
056	- Extraction of primary tooth and extraction of permanent tooth		
057	- Extraction of primary tooth and crown (either primary or permanent)		
058	- Extraction of primary tooth and tooth replacement	1	
059	- Extraction of primary tooth and root canal or other pulpal treatment needed		
068	- Extraction of permanent tooth and tooth replacement	2	
079	- Crown (either primary or permanent) and root canal or other pulpal treatment needed	6	
568	- Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
579	- Extraction of primary tooth, crown and root canal or other pulpal treatment needed		

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME	
332-334	999 - Not ascertained	6	UPR1B1	
	Upper Right, 1st Bicuspid or 1st Primary Molar, Treatment Need			
	000 - No treatment needed	36276		
	001 - 1 surface restoration	256		
	002 - 2 surface restoration (or 2 one surface restorations)	661		
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	102		
	004 - More than 3 surfaces, but not a crown (code 7)	14		
	005 - Extraction of primary tooth	249		
	006 - Extraction of permanent tooth	1		
	007 - Crown (either primary or permanent)	32		
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	4		
	009 - Root canal or other pulpal treatment needed	2		
	019 - 1 surface restoration and root canal or other pulpal treatment needed			
	029 - 2 surface restoration and root canal or other pulpal treatment needed	1		
	039 - 3 surface restoration and root canal or other pulpal treatment needed			
049 - 4 or more surface restorations and root canal or other pulpal treatment needed				
056 - Extraction of primary tooth and extraction of permanent tooth				
057 - Extraction of primary tooth and crown (either primary or permanent)	1			
058 - Extraction of primary tooth and tooth replacement	4			

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	5	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	57	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed	1	
	999 - Not ascertained	37	
335-337	Upper Right, 2nd Bicuspid or 2nd Primary Molar, Treatment Need		UPR2B1
	000 - No treatment needed	35593	
	001 - 1 surface restoration	667	
	002 - 2 surface restoration (or 2 one surface restorations)	677	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	153	
	004 - More than 3 surfaces, but not a crown (code 7)	27	
	005 - Extraction of primary tooth	349	
	006 - Extraction of permanent tooth	8	
	007 - Crown (either primary or permanent)	38	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	18	
	009 - Root canal or other pulpal treatment needed	3	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed	1	
	056 - Extraction of primary tooth and extraction of permanent tooth	1	
	057 - Extraction of primary tooth and crown (either primary or permanent)	3	
	058 - Extraction of primary tooth and tooth replacement	6	
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	10	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	88	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	61	
338-340	Upper Right, 1st Molar, Treatment Need		UPR1M1
	000 - No treatment needed	35060	
	001 - 1 surface restoration	1382	
	002 - 2 surface restoration (or 2 one surface restorations)	722	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	135	
	004 - More than 3 surfaces, but not a crown (code 7)	42	
	005 - Extraction of primary tooth	1	
	006 - Extraction of permanent tooth	19	
	007 - Crown (either primary or permanent)	33	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	70	
	009 - Root canal or other pulpal treatment needed	5	
	019 - 1 surface restoration and root canal or other pulpal treatment needed	1	
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed	1	
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)	1	
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	70	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	87	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement	1	
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	72	
341-343	Upper Right, 2nd Molar, Treatment Need		UPR2M1
	000 - No treatment needed	36741	
	001 - 1 surface restoration	731	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
002	- 2 Surface restoration (or 2 one surface restorations)	158	
003	- 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	18	
004	- More than 3 surfaces, but not a crown (code 7)	11	
005	- Extraction of primary tooth		
006	- Extraction of permanent tooth	9	
007	- Crown (either primary or permanent)	2	
008	- Tooth replacement - when permanent tooth already missing and replacement needed	4	
009	- Root canal or other pulpal treatment needed	1	
019	- 1 surface restoration and root canal or other pulpal treatment needed		
029	- 2 surface restoration and root canal or other pulpal treatment needed		
039	- 3 surface restoration and root canal or other pulpal treatment needed		
049	- 4 or more surface restorations and root canal or other pulpal treatment needed		
056	- Extraction of primary tooth and extraction of permanent tooth		
057	- Extraction of primary tooth and crown (either primary or permanent)		
058	- Extraction of primary tooth and tooth replacement		
059	- Extraction of primary tooth and root canal or other pulpal treatment needed		
068	- Extraction of permanent tooth and tooth replacement	9	
079	- Crown (either primary or permanent) and root canal or other pulpal treatment needed	11	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
344-346	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		LOLCI1
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	8	
	Lower Right, Central Incisor, Treatment Need		
	000 - No treatment needed	37539	
	001 - 1 surface restoration	56	
	002 - 2 surface restoration (or 2 one surface restorations)	47	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	19	
	004 - More than 3 surfaces, but not a crown (code 7)	2	
	005 - Extraction of primary tooth	25	
	006 - Extraction of permanent tooth		
	007 - Crown (either primary or permanent)	9	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	1	
	009 - Root canal or other pulpal treatment needed	2	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
049 - 4 or more surface restorations and root canal or other pulpal treatment needed			
056 - Extraction of primary tooth and extraction of permanent tooth			

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement		
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	1	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	2	
347-349	Lower Left, Lateral Incisor, Treatment Need		LOLLI1
	000 - No treatment needed	37593	
	001 - 1 surface restoration	33	
	002 - 2 surface restoration (or 2 one surface restorations)	33	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	4	
	004 - More than 3 surfaces, but not a crown (code 7)	3	
	005 - Extraction of primary tooth	25	
	006 - Extraction of permanent tooth		
	007 - Crown (either primary or permanent)	4	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed		
	009 - Root canal or other pulpal treatment needed	3	

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FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	019 - 1 Surface Restoration and Root Canal or Other Pulpal Treatment Needed		
	029 - 2 Surface Restoration and Root Canal or Other Pulpal Treatment Needed		
	039 - 3 Surface Restoration and Root Canal or Other Pulpal Treatment Needed		
	049 - 4 or More Surface Restorations and Root Canal or Other Pulpal Treatment Needed		
	056 - Extraction of Primary Tooth and Extraction of Permanent Tooth	1	
	057 - Extraction of Primary Tooth and Crown (Either Primary or Permanent)		
	058 - Extraction of Primary Tooth and Tooth Replacement		
	059 - Extraction of Primary Tooth and Root Canal or Other Pulpal Treatment Needed		
	068 - Extraction of Permanent Tooth and Tooth Replacement		
	079 - Crown (Either Primary or Permanent) and Root Canal or Other Pulpal Treatment Needed	1	
	568 - Extraction of Primary Tooth, Extraction of Permanent Tooth and Tooth Replacement		
	579 - Extraction of Primary Tooth, Crown and Root Canal or Other Pulpal Treatment Needed		
	999 - Not Ascertained	3	
350-352	Lower Left, Cuspid, Treatment Need		LOLCU1
	000 - No Treatment Needed	37346	
	001 - 1 Surface Restoration	185	
	002 - 2 Surface Restoration (or 2 One Surface Restorations)	80	
	003 - 3 Surface Restoration (or 3 One Surface Restorations or 2 Surface Blank 1 Surface Restorations)	9	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
004	- More than 3 surfaces, but not a crown (code 7)		
005	- Extraction of primary tooth	50	
006	- Extraction of permanent tooth	1	
007	- Crown (either primary or permanent)	20	
008	- Tooth replacement - when permanent tooth already missing and replacement needed		
009	- Root canal or other pulpal treatment needed	3	
019	- 1 surface restoration and root canal or other pulpal treatment needed		
029	- 2 surface restoration and root canal or other pulpal treatment needed		
039	- 3 surface restoration and root canal or other pulpal treatment needed		
049	- 4 or more surface restorations and root canal or other pulpal treatment needed		
056	- Extraction of primary tooth and extraction of permanent tooth		
057	- Extraction of primary tooth and crown (either primary or permanent)		
058	- Extraction of primary tooth and tooth replacement		
059	- Extraction of primary tooth and root canal or other pulpal treatment needed		
068	- Extraction of permanent tooth and tooth replacement		
079	- Crown (either primary or permanent) and root canal or other pulpal treatment needed	5	
568	- Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
579	- Extraction of primary tooth, crown and root canal or other pulpal treatment needed		

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME	
353-355	999 - Not ascertained	4	LOLIB1	
	Lower Left, 1st Bicuspid or 1st Primary Molar, Treatment Need			
	000 - No treatment needed	36084		
	001 - 1 surface restoration	172		
	002 - 2 surface restoration (or 2 one surface restorations)	802		
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	148		
	004 - More than 3 surfaces, but not a crown (code 7)	19		
	005 - Extraction of primary tooth	287		
	006 - Extraction of permanent tooth	2		
	007 - Crown (either primary or permanent)	34		
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	4		
	009 - Root canal or other pulpal treatment needed	5		
	019 - 1 surface restoration and root canal or other pulpal treatment needed			
	029 - 2 surface restoration and root canal or other pulpal treatment needed			
	039 - 3 surface restoration and root canal or other pulpal treatment needed			
049 - 4 or more surface restorations and root canal or other pulpal treatment needed	1			
056 - Extraction of primary tooth and extraction of permanent tooth				
057 - Extraction of primary tooth and crown (either primary or permanent)				
058 - Extraction of primary tooth and tooth replacement	3			

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	2	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	78	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed	1	
	999 - Not ascertained	61	
356-358	Lower Left, 2nd Bicuspid or 2nd Primary Molar, Treatment Need		LOL2B1
	000 - No treatment needed	35597	
	001 - 1 surface restoration	713	
	002 - 2 surface restoration (or 2 one surface restorations)	503	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	126	
	004 - More than 3 surfaces, but not a crown (code 7)	36	
	005 - Extraction of primary tooth	378	
	006 - Extraction of permanent tooth	5	
	007 - Crown (either primary or permanent)	58	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	39	
	009 - Root canal or other pulpal treatment needed	2	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed	2	
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)	1	
	058 - Extraction of primary tooth and tooth replacement	3	
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	9	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	151	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	80	
359-361	Lower Left, 1st Molar, Treatment Need		LOL1M1
	000 - No treatment needed	34505	
	001 - 1 surface restoration	1815	
	002 - 2 surface restoration (or 2 one surface restorations)	467	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	101	
	004 - More than 3 surfaces, but not a crown (code 7)	51	
	005 - Extraction of primary tooth	1	
	006 - Extraction of permanent tooth	31	
	007 - Crown (either primary or permanent)	45	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	302	
	009 - Root canal or other pulpal treatment needed	4	
	019 - 1 surface restoration and root canal or other pulpal treatment needed	1	
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed	2	
	056 - Extraction of primary tooth and extraction of permanent tooth	1	
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	140	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	179	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	59	
362-364	Lower Left, 2nd Molar, Treatment Need		LOL2M1
	000 - No treatment needed	36424	
	001 - 1 surface restoration	1034	

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
002	- 2 surface restoration (or 2 one surface restorations)	123	
003	- 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	21	
004	- More than 3 surfaces, but not a crown (code 7)	6	
005	- Extraction of primary tooth		
006	- Extraction of permanent tooth	19	
007	- Crown (either primary or permanent)	10	
008	- Tooth replacement - when permanent tooth already missing and replacement needed	17	
009	- Root canal or other pulpal treatment needed	2	
019	- 1 surface restoration and root canal or other pulpal treatment needed		
029	- 2 surface restoration and root canal or other pulpal treatment needed		
039	- 3 surface restoration and root canal or other pulpal treatment needed		
049	- 4 or more surface restorations and root canal or other pulpal treatment needed		
056	- Extraction of primary tooth and extraction of permanent tooth		
057	- Extraction of primary tooth and crown (either primary or permanent)		
058	- Extraction of primary tooth and tooth replacement		
059	- Extraction of primary tooth and root canal or other pulpal treatment needed		
068	- Extraction of permanent tooth and tooth replacement	15	
079	- Crown (either primary or permanent) and root canal or other pulpal treatment needed	24	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
365-367	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		LORCI1
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	8	
	Lower Right, Central Incisor, Treatment Need		
	000 - No treatment needed	37553	
	001 - 1 surface restoration	48	
	002 - 2 surface restoration (or 2 one surface restorations)	46	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	14	
	004 - More than 3 surfaces, but not a crown (code 7)	2	
	005 - Extraction of primary tooth	24	
006 - Extraction of permanent tooth	1		
007 - Crown (either primary or permanent)	6		
008 - Tooth replacement - when permanent tooth already missing and replacement needed	3		
009 - Root canal or other pulpal treatment needed	2		
019 - 1 surface restoration and root canal or other pulpal treatment needed			
029 - 2 surface restoration and root canal or other pulpal treatment needed			
039 - 3 surface restoration and root canal or other pulpal treatment needed			
049 - 4 or more surface restorations and root canal or other pulpal treatment needed			
056 - Extraction of primary tooth and extraction of permanent tooth			

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement		
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed		
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	2	
368-370	Lower Right, Lateral Incisor, Treatment Need		LORLI1
	000 - No treatment needed	37589	
	001 - 1 surface restoration	40	
	002 - 2 surface restoration (or 2 one surface restorations)	19	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	7	
	004 - More than 3 surfaces, but not a crown (code 7)	2	
	005 - Extraction of primary tooth	31	
	006 - Extraction of permanent tooth	1	
	007 - Crown (either primary or permanent)	4	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	3	
	009 - Root canal or other pulpal treatment needed	3	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement		
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	2	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	2	
371-373	Lower Right, Cuspid, Treatment Need		LORCU1
	000 - No treatment needed	37336	
	001 - 1 surface restoration	188	
	002 - 2 surface restoration (or 2 one surface restorations)	90	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	7	
	004 - More than 3 surfaces, but not a crown (code 7)	1	
	005 - Extraction of primary tooth	43	

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
006	- Extraction of permanent tooth	3	
007	- Crown (either primary or permanent)	20	
008	- Tooth replacement - when permanent tooth already missing and replacement needed	3	
009	- Root canal or other pulpal treatment needed	5	
019	- 1 surface restoration and root canal or other pulpal treatment needed		
029	- 2 surface restoration and root canal or other pulpal treatment needed		
039	- 3 surface restoration and root canal or other pulpal treatment needed		
049	- 4 or more surface restorations and root canal or other pulpal treatment needed		
056	- Extraction of primary tooth and extraction of permanent tooth		
057	- Extraction of primary tooth and crown (either primary or permanent)		
058	- Extraction of primary tooth and tooth replacement		
059	- Extraction of primary tooth and root canal or other pulpal treatment needed		
068	- Extraction of permanent tooth and tooth replacement		
079	- Crown (either primary or permanent) and root canal or other pulpal treatment needed	3	
568	- Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
579	- Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
999	- Not ascertained	4	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	068 - Extraction of permanent tooth and tooth replacement	2	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	88	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	66	
377-379	Lower Right, 1st Bicuspid or 1st Primary Molar, Treatment Need		LOR2B1
	000 - No treatment needed	35615	
	001 - 1 surface restoration	727	
	002 - 2 surface restoration (or 2 one surface restorations)	496	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	149	
	004 - More than 3 surfaces, but not a crown (code 7)	24	
	005 - Extraction of primary tooth	352	
	006 - Extraction of permanent tooth	12	
	007 - Crown (either primary or permanent)	62	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	37	
	009 - Root canal or other pulpal treatment needed	2	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		

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NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth	1	
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement	3	
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	7	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	132	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement		
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	84	
380-382	Lower Right, 1st Molar, Treatment Need		LOR1M1
	000 - No treatment needed	34617	
	001 - 1 surface restoration	1759	
	002 - 2 surface restoration (or 2 one surface restorations)	472	
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	115	
	004 - More than 3 surfaces, but not a crown (code 7)	36	
	005 - Extraction of primary tooth	1	
	006 - Extraction of permanent tooth	46	
	007 - Crown (either primary or permanent)	43	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	296	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	009 - Root canal or other pulpal treatment needed	1	
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed	1	
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed	1	
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	113	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	140	
	568 - Extraction of primary tooth, extraction of permanent tooth and tooth replacement	1	
	579 - Extraction of primary tooth, crown and root canal or other pulpal treatment needed		
	999 - Not ascertained	60	
383-385	Lower Right, 2nd Molar, Treatment Need		LOR2M1
	000 - No treatment needed	36421	
	001 - 1 surface restoration	1003	
	002 - 2 surface restoration (or 2 one surface restorations)	136	

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**NATIONAL DENTAL CARIES PREVALENCE SURVEY:1979-80
PUBLIC USE FILE-RECORD 04
NUMBER OF RECORDS = 37,703**

FILE LOCATION	ITEM DESCRIPTION AND CODES	CONTROL COUNTS	VARIABLE NAME
	003 - 3 surface restoration (or 3 one surface restorations or 2 surface blank 1 surface restorations)	22	
	004 - More than 3 surfaces, but not a crown (code 7)	9	
	005 - Extraction of primary tooth		
	006 - Extraction of permanent tooth	16	
	007 - Crown (either primary or permanent)	8	
	008 - Tooth replacement - when permanent tooth already missing and replacement needed	28	
	009 - Root canal or other pulpal treatment needed		
	019 - 1 surface restoration and root canal or other pulpal treatment needed		
	029 - 2 surface restoration and root canal or other pulpal treatment needed		
	039 - 3 surface restoration and root canal or other pulpal treatment needed		
	049 - 4 or more surface restorations and root canal or other pulpal treatment needed		
	056 - Extraction of primary tooth and extraction of permanent tooth		
	057 - Extraction of primary tooth and crown (either primary or permanent)		
	058 - Extraction of primary tooth and tooth replacement		
	059 - Extraction of primary tooth and root canal or other pulpal treatment needed		
	068 - Extraction of permanent tooth and tooth replacement	17	
	079 - Crown (either primary or permanent) and root canal or other pulpal treatment needed	31	

NOTES

NOTES

III. DETAILED NOTES

Users of this data file are encouraged to become thoroughly familiar with the survey instruments, which are found in Appendix IV, before working with the data. This will greatly enhance the user's ability to work with the data file without constantly referring to the questionnaires. In particular, familiarity with the skip patterns in all the questionnaires will result in quick recognition of subsets of data in the file that are only applicable to a subset of respondents. High control counts in the "inapplicable" category signal that data found in subsequent file locations only apply to a subset of students. Asterisks have been used throughout the documentation to alert the user to skip patterns and the explanations of selected data fields that are given below.

RECORD 01

File Location

25-26

If a student's date of birth was not recorded on the consent form his/her age was recorded at the time of the oral examination.

RECORD 02

File Location

16-239

For detail, see Section V (Analysis of OHSC I Survey Data) and Appendix I (Weighting.)

RECORD 03

For EACH place of residence, parents were asked beginning and ending dates (month/year) of residency, and whether the city was served by a public water supply. The information collected was later compared to data from the 1979 Fluoridation Census to determine each student's exposure to fluoridated water in each place of residence where the child had lived for at least 6 months. Data on the type of fluoridation and adjusted fluoridation were coded as applicable to that particular place of residence. An "Inapplicable" response indicates a skip pattern or residence duration of less than 6 months. A student may have up to 17 different residences.

Due to confidentiality restrictions, identification keys for cities, counties, and states are not available.

RECORD 04

File Location

158-185

Each tooth call is generated from the surface calls of that tooth by the following algorithm.

<u>Tooth Call</u>	<u>Surface Call(s)</u>
1 (5)	All primary (permanent) tooth surfaces are scored sound
2 (6)	At least one primary (permanent) tooth surface is decayed
3 (7)	At least one primary (permanent) tooth surface is filled; the other tooth surfaces are caries free
4	All tooth surfaces are scored unerupted permanent
8	All permanent tooth surfaces are scored missing due to caries
9	All permanent tooth surfaces are scored missing for other than caries or excluded

302-385

The Dental Restorative Treatment Need Index assessment includes needs related to caries, trauma and other oral conditions that require restorative treatment. Therefore, the tooth findings on this assessment may not be consistent with the individual findings on DMF assessment. The dental examiner, using his/her best clinical judgment, estimated the dental treatment needed. He/she took into consideration the quantity and quality of past dental care and the age of the individual.

IV. OHSC I SAMPLE DESIGN

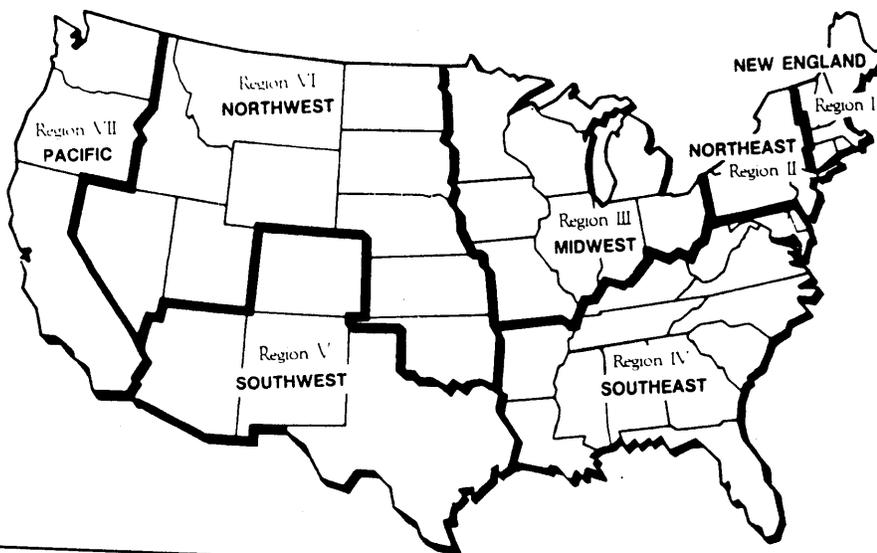
The target population for the OHSC I survey was school children in the United States enrolled in public or private schools. A multi-stage probability sample of 37,703 children was drawn to represent the 48 million children in this age group.

Sampling Frame

The sampling frame for the survey was the roster of schools and school districts maintained by the Curriculum Information Center.¹ This roster consists of computerized, annually updated files of all public, private and parochial schools in the U.S., which list the range of grades, number of students enrolled and the names of key officials for all school districts. All types of schools, with the exception of special education, vocational and adult education, were included in the sample. Therefore, the entire population of United States school children in grades kindergarten through twelve was eligible to be sampled, except for students who attended one of the excluded schools exclusively. Children attending special education or vocational classes within a regular school were included in the sample.

Geographic Regions

The contiguous United States was divided into seven geographic regions selected according to the following steps. First, the states were grouped according to the four regions used by the National Center for Health Statistics for the Health Examination Survey of 1971-73. Second, two of these regions were subdivided according to expected variations in caries experience which were estimated from previous epidemiological studies.



1. Market Data Retrieval, Westport, Connecticut 06880

The states comprising each geographic region were as follows:

Region I:	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont
Region II:	New Jersey, New York and Pennsylvania
Region III:	Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio and Wisconsin
Region IV:	Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia, and the District of Columbia
Region V:	Arizona, Colorado, New Mexico and Texas
Region VI:	Idaho, Kansas, Montana, Nebraska, Nevada, North Dakota, Oklahoma, South Dakota, Utah and Wyoming
Region VII:	California, Oregon and Washington.

Each of the seven regions was subdivided into metropolitan and non-metropolitan areas. Metropolitan area status was determined by reference to the official 1975 list of designated Standard Metropolitan Statistical Areas (SMSAs). Within each of these fourteen domains a multi-stage probability sample was selected. The first stage of sample selection consisted of selecting 70 school districts or combinations of school districts as the PSUs. These 70 PSUs were equally allocated among the fourteen domains. The second and third stages consisted of probability sampling of schools and classrooms. Within each PSU, two classes of students in each grade, kindergarten through twelve, were to be sampled. Estimating 25 students per classroom, the sample size was 37,703 children.

Selection of Primary Sampling Units (PSUs)

A PSU consisted of a public school district or a combination of districts in conjunction with nearby private schools. The criteria for defining a PSU for this survey were as follows. A PSU must have:

- (1) at least one public school district;

- (2) at least 800 students;
- (3) each of the grades 1 through 6 in at least three separate schools; and
- (4) each of the grades 7 through 12 in at least two separate schools.

To ensure that combinations of schools and school districts within each of the fourteen domains were within reasonable proximity to one another, they were sorted by the first three digits of the postal zip code, then by county and, within county, by the entire five-digit zip code and, finally, by non-public followed by public schools. Starting at the beginning of the list, school districts were then combined until they met the criteria for establishing a PSU. If a set consisting of all schools within a three-digit zip code area did not meet the criteria for a PSU, that set was assigned to a nearby three-digit zip code area.

For selection of the PSUs, each of the fourteen domains was further divided into five strata based on Census Bureau data (1975) for median income by county. Each PSU was assigned the median income value of the county in which the public school district was located. If more than one county were involved, the PSU was assigned the median income of the county within which the first public school district was located. The PSUs were then arranged from lowest to highest in order of median income. A cumulative sum of the number of students within the PSUs was computed based on this ordering. The number of students was then divided into five strata, defined by the sets of PSUs coming as close as possible to the 20th, 40th, 60th, and 80th percentiles of the student populations. Each of the 70 resulting strata had approximately the same number of students. Once the strata were defined, one PSU was selected from each of the 70 strata. The probability of selecting a particular PSU within a stratum was proportional to the number of students within the PSU. New York City was sampled with certainty as a single PSU because the number of students in all the schools within the five boroughs of New York City was large enough to constitute a single stratum of the Region II-metropolitan area domain.

A total of 14 PSUs had to be dropped because of noncooperation at the state or school district level. In all cases, a substitute PSU from the same detailed stratum was used. Usually the substitute was selected with probability proportional to size (PPS) among the remaining PSUs in the stratum. Occasionally, the substitute was purposively selected using expert judgment.

Selection of Schools

In order to minimize the number of schools to be visited by the examination teams, standard grade ranges were established for primary, middle and secondary type schools. These were Elementary K-6, Middle 7-9 or 7-8 and Secondary 9-12 or 10-12. Depending on grade structures within a school system or upon the enrollment in a particular school

system, it was sometimes necessary to combine schools for sampling purposes. An Elementary school had to average 15 students per grade for grades K-6. A Middle or Secondary school had to average 20 students per grade for grades 7-12. If these minimum requirements were not met, a school would be combined with another school within the same category. Approximately 25 percent of the schools within the selected PSUs possessed nonstandard grade ranges. For example, K-5, 6-8, 9-12; K-8,9-12; or K-4, 5-8, 9-12. Schools with nonstandard grade ranges were partitioned and recombined to fit the standard classification.

Once the real and artificial schools were classified as "Elementary, Middle or Secondary," individual schools were selected with PPS within a category. Two schools were selected from each of the categories "Middle" and "Secondary" within each PSU. In general, three schools were selected from the "Elementary" category within each PSU. In order to assign an appropriate measure of size to the artificial schools, it was assumed that students were uniformly distributed over the grades of a school. Thus, the proportion of enrollment to be assigned to a portion of a school corresponded to the proportion of grades allocated to that portion. For example, a K-8 type school broken into the categories, K-6 and 7-8, had seven-ninths of its total enrollment assigned to the K-6 portion and two-ninths assigned to the 7-8 portion.

To prevent a considerably larger school from having an opportunity to be selected twice by usual PPS sampling methods, procedures for designating "certainty" schools were developed. When a Middle or Secondary school comprised over half the enrollment within a PSU, it was taken with certainty. One other school was then selected from the remaining schools with PPS. If one Elementary school comprised over 33 percent of the total PSU enrollment, it was selected with certainty. The other two schools were then selected PPS from the remaining schools. Of the remainder, if one school comprised over half of that enrollment, it was selected with certainty. The remaining school was then selected PPS.

Among the sample schools, there was some nonresponse. Substitutions were made for some, while for others it was possible to increase the number of classrooms examined in other schools within the same PSU. Substitutions were usually made within the same PSU, but were occasionally made from other PSUs within the same domain.

Selection of Classes

Within the sample of middle and secondary schools, classrooms of all grades were eligible for selection within each school. In the sample of elementary schools, on the other hand, there were some restrictions designed to reduce the amount of burden on schools and on the contractor. Each of the three sample elementary schools in a PSU was randomly assigned a different set of grade restrictions. One school might be eligible for sampling of K-4 classrooms while another was eligible for sampling of grades 3-6 classrooms. These restrictions were designed so that each grade would be eligible in two

out of the three sample elementary schools in a PSU. These restrictions were properly accounted for in the weighting described in Appendix I. (These restrictions eased burden when one or more of the three sample schools were artificial constructs. For example, suppose that a sample "school" consisted of grades K-6 from a real school with grades K-8 and grades 5-6 from a different real school with grades 5-8. If the artificial school was selected for representation of grades K-4, then it would not be necessary to contact the second real school at all.)

Once the grade restrictions had been determined for a school, the general procedure was to select one classroom from each eligible grade from each sample school. This was done by calling the school, obtaining a list of classrooms for each eligible grade and then randomly selecting one. All classrooms within an eligible grade within a school had the same chance of selection.

In cases where an artificial school contained more than one real school component with the same eligible grades, the number of classes for that grade within each school was determined and one class was selected from the combination of all such classes.

There were several other complications. Classes containing 10 or fewer students were combined prior to sample selection with another class of the same grade within the same school or with a class from another real school within an artificial school if necessary. In situations where there were ungraded classes, lists of children were obtained and a random selection of approximately 30 students for a given age was drawn. Combined grades, if large enough, were considered as separate grades or they were designated as the grade with the larger number of students. After these adjustments, the total number of classrooms in the sample was 1,904, a five percent increase over the 1,820 classrooms originally intended (70 PSUs x 13 grades x 2 classrooms per PSU per grade). The number of classes sampled by region and metropolitan designation is shown in the table below.

Region	Metropolitan	Non-Metropolitan	Total
I	130	132	262
II	130	130	260
III	134	131	265
IV	133	131	264
V	131	138	269
VI	138	175	313
VII	130	141	271
Total	926	978	1,904

V. ANALYSIS OF OHSC I SURVEY DATA

Reading the Data

Because the file is large, a mainframe computer is recommended for statistical analysis. Statistical Analysis System (SAS) programs are included with the data file to create a SAS file from the "flat" file without tedious typing of column numbers. From SAS, the file can be translated to one of the other packages, such as Statistical Package for the Social Sciences (SPSS), Biomedical Computer Programs (BMDP), or OSIRIS.

Different types of records (file location 11-12) are linked by an identical Coded Student ID Number (file location 1-10). Records may be used independently of all other record types and/or in conjunction with other types of records.

Example

Population estimate - The weighted number of children 5-9 years of age with all deciduous surfaces caries free may be obtained from Record Number 01 by using the information in file locations 59-70 (the full sample weight) and 78 (the caries status of deciduous surfaces).

Estimation

Constructing estimates from the Children's Dental files and evaluating their statistical reliability and significance require special consideration because the data were obtained from a complex, multistage probability sample.

Weights

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.

The OHSC I is designed to produce estimates for the United States (excluding Alaska and Hawaii) School Children. Therefore, the data are weighted to inflate the sample

numbers to school population estimates. The weight (file location 59-70 of RECORD 01) is the product of six factors.

- (1) PSU weight—inverse of the PSU probability of selection;
- (2) Grade weight—inverse of the school/grade probability of selection;
- (3) Class weight—number of classes within the selected grade;
- (4) School level ratio estimation factor;
- (5) PSU level ratio estimation factor; and
- (6) Poststratification adjustment to 1978 school population totals that are provided by the U.S. Census Bureau. (A more complete discussion can be found in Appendix I).

Population Estimates

An estimator of a population mean, such as the average number of permanent teeth per student, based on the sample is

$$\hat{Y}_1 = \frac{\sum_{i=1}^n w_i y_i}{\sum_{i=1}^n w_i},$$

where w_i is the sampling weight and y_i is the characteristic of interest (in this case, the number of permanent teeth) for the i -th member of the sample. Similarly, an estimator of a population total such as the total number of edentulous students is

$$\hat{Y}_2 = \sum_{i=1}^n w_i y_i$$

where,

$$y_i = \begin{cases} 1, & \text{if edentulous} \\ 0, & \text{otherwise and} \end{cases}$$

w_i = is the full sample weight

Other Considerations When Using the Data from the OHSC I

When dealing with the data files from the OHSC I, two important situations which affect statistical analyses of the survey data are noted. The first is that of multiple measurement data. While the weights are on a person-level, there are eight different types of records possible per individual, and some of these records can repeat (e.g., there is a separate record for each oral lesion). Within other records, there are repeating patterns. To obtain person-level statistics, person-level data need to be constructed. For instance, a separate variable on loss of attachment exists for each mesial site on each tooth. If an individual has n tooth-site combinations, and d_i is the loss of attachment at the i -th site, the average loss of attachment at mesial sites for the person is

$$\frac{1}{n} \sum_{i=1}^n d_i$$

Other possible person level summaries include

$$\max\{d_1, \dots, d_n\} \text{ and } \prod_{i=1}^n (1 - \delta_i),$$

where $\delta_i = 1$ if $d_i > 0$ and 0 otherwise. The first example indicates the maximum loss of attachment at any mesial site for the student. The second indicates whether the student has at least one mesial site with loss of attachment of 1 millimeter or more. In that case, δ_i is an indicator variable that is equal to "1" if a tooth meets a criterion and "0" otherwise. Several important "recodes" along these lines have already been calculated for the convenience of the user. These may be found near the end of RECORD 01.

The second situation is that of missing data, a common problem in surveys. The loss of information is caused by failure to either obtain or record some of the data. Note that discarding cases with incomplete data, as occasionally recommended, may lead to population estimates that are not consistent with known population totals. The many techniques for adjusting for missing data include making assumptions about data and imputation (see Little and Rubin, 1987).

Reliability of Estimates

Two types of errors are possible in 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 occurred 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,

errors made in collection such as recording or coding the data, errors made in processing the data, estimating values for missing data, and failure to represent all units within the sample. The full extent of nonsampling error is, generally, unknown. In the next section, procedures are described for calculating estimates of standard errors and for using these estimates to determine the amount of confidence that users should place in statistics from the survey.

Variance Estimates

Techniques for estimation of variances in complex surveys include Taylor series linearization and balanced repeated replications (BRR), of which Fay's Method is a special case. In this survey, variances were estimated using Fay's Method. Details of variance estimation are described in Appendix II.

Although the linearization and replication techniques make the estimation of the sampling variance of any statistic straightforward, the estimation process is computationally intensive and costly. Generalized variances are often considered as an alternative approach. Generalized variances enable users to use simple formulae to obtain roughly approximate standard errors of simple counts and percentages from the estimates themselves, while still accounting for the effects of the complex sample design.

One of the generalized variance estimation approaches that incorporates the complexities of the survey design in a cost efficient manner is the relative variance model. This model expresses a relationship between the relative variance of a statistic and the statistic itself. The relative variance of an estimator \hat{x} for a population parameter x , is defined as the variance of the statistic divided by the square of the parameter being estimated. If $Var \hat{x}$ denotes the variance of \hat{x} then the relative variance RV is:

$$RV(\hat{x}) = Var(\hat{x})/\hat{x}^2. \quad (1)$$

For domain-enumerative statistics (e.g., number of 13-year olds with one or more filled surfaces), the relative variance model approach assumes that there is an inverse relationship between the size of the estimate \hat{x} and its relative variance $RV(\hat{x})$.

A simple model to express the assumed relationship between $RV(\hat{x})$ and \hat{x} is:

$$RV(\hat{x}) = \alpha + \frac{\beta}{\hat{x}} + \epsilon \quad (2)$$

where α is the intercept, β is the slope of the regression model, and ϵ is the random error term associated with the particular estimate. Based upon this model, the relative variance is approximated as:

$$RV(\hat{x}) = a + \frac{b}{\hat{x}} \quad (3)$$

where a and b are estimates for α and β respectively (Table 1.) These estimates can be determined by an iterative weighted least squares procedure.

Solving for $Var(\hat{x})$ in (1) and substituting $RV(\hat{x})$ with (3), the estimated standard error is obtained as

$$SE(\hat{x}) = \sqrt{a \hat{x}^2 + b \hat{x}}.$$

Other types of frequently used statistics for which variance estimates are needed are rates, proportions, and percentages (e.g., the percent of 13 year olds that have one or more filled surfaces). The sample estimate for a population rate, proportion, or percentage, \hat{p} , is the ratio of two estimated numbers $\hat{p} = \hat{x}/\hat{y}$ where \hat{y} is the estimated total and \hat{x} enumerates a subclass of the set enumerated by \hat{y} . Assuming that the relative variances for \hat{x} and \hat{y} can be derived from the same model for a population total, the Taylor Series approximation for the relative variance of \hat{p} is

$$RV(\hat{p}) = RV(\hat{x}) - RV(\hat{y}).$$

Applying equation (3),

$$RV(\hat{p}) = \frac{b}{\hat{x}} - \frac{b}{\hat{y}}.$$

If \hat{p} represents an estimated percentage, then substituting the above $RV(\hat{p})$ formula into (1) and solving for $Var(\hat{p})$, the standard error of \hat{p} can be approximated by

$$SE(\hat{p}) = \sqrt{\frac{b \hat{p}(100 - \hat{p})}{\hat{y}}}.$$

If the denominator \hat{y} in $\hat{p} = 100 \hat{x}/\hat{y}$ has no sampling error, then the standard error for an estimated percentage can be approximated by the formula

$$SE(\hat{p}) = \hat{p} \sqrt{a + \frac{b}{\hat{x}}}.$$

Table 1. Generalized variance function parameters for the National Survey of Oral Health in School Children, 1979-80

<u>All Regions and Metropolitan Statuses Combined</u>			
<u>DOMAIN</u>	<u>ESTIMATE</u>		
	<u>A</u>	<u>B</u>	
Single year of age/ Both sexes and races combined	-0.000161	7867	
Single year of age/ Separate sexes/All races combined	-0.000124	6059	
Other	-0.000295	14,394	
<u>Individual Metropolitan or Nonmetropolitan Regional Estimates</u>			
<u>REGION</u>	<u>SMSA</u>	<u>A</u>	<u>B</u>
New England	metro	-0.003019	5443
Northeast	metro	-0.002620	17705
Midwest	metro	-0.002873	25235
Southeast	metro	-0.002604	19095
Southwest	metro	-0.002679	9258
Northwest	metro	-0.003074	3892
Pacific	metro	-0.002872	15268
New England	non-metro	-0.003178	2820
Northeast	non-metro	-0.003103	3460
Midwest	non-metro	-0.002769	9352
Southeast	non-metro	-0.002716	13907
Southwest	non-metro	-0.003036	3306
Northwest	non-metro	-0.002843	4389
Pacific	non-metro	-0.028946	25541

Examples of the Use of Generalized Variance Function Parameters

To produce approximate standard errors for the NIDR estimates, one first determines the type of characteristics to be estimated, that is, the parameter set in Table 5-1 to be used. One must then determine the type of estimate that is needed. The type of estimate corresponds to three rules, discussed in the following paragraphs.

Rule 1. Use for estimated totals. For the estimated number of cases for whom data are to be published, there are two cases to consider. For the first case, if the estimated number is any combination of the cells for one of the dimensions used in the raking poststratification (Appendix IV), then its value has been adjusted to official U.S. Bureau of the Census figures and its standard error is assumed to be 0.0. As an example, this would be the case for the number of students 5-17 years of age.

For the second case, the standard errors for all other estimates of totals, such as the number of 13-17 years old who are caries free, are approximated by using the parameters provided in Table 5-1 and formula (1) below.

If the estimated number x for a characteristic has associated parameters a and b , then the approximate standard error for x , $SE(x)$, can be computed by the formula

$$SE(x) = \sqrt{ax^2 + bx} \quad (1)$$

Example of Rule 1. The estimated number of 5 through 17 years old that are caries-free permanent is 16,691,951. In this case, use the first set of A and B parameters in Table 5-1, $A = -0.000161$, $B = 7867$. The estimated standard error is:

$$\sqrt{(-0.000161)(16,691,951)^2 + 7867 \cdot 16,691,951} = 294,037.$$

An approximate 95 percent confidence interval for the number of 5 through 17 years old who are caries-free permanent is $16,691,951 \pm (1.96) \cdot (294,037)$.

Rule 2. For rates, proportions, and percents when the denominator is generated by the poststratification classes. In this case, the denominator has no sampling error. For example, rule 2 would apply to the estimated percent of students using tobacco. Approximate standard errors for such estimates can be computed using the a and b parameters in Table 1 along with formula (2) below.

If the estimate of a rate, proportion, or percent p is the ratio of two estimated numbers $p = x/Y$, with Y having no sampling error, then the approximate standard error for p is given by the formula

$$SE(p) = p \sqrt{a + \frac{b}{x}} . \quad (2)$$

Example of Rule 2. The estimated percent of school children who have severe gingival inflammation is 3 percent. The estimated number of these children is 1,481,438. In this case, use the third set of parameters A and B, A = -0.000295, B = 14,394. The estimated standard error is:

$$3 \sqrt{(-0.000295) + \frac{14,394}{1,481,438}} = 0.291.$$

An approximate 95 percent confidence interval for the percent of students having severe gingival inflammation is $3 \pm (1.96) \cdot (0.291)$, or 2.4 percent to 3.6 percent.

Rule 3. Proportions and percents when the denominator is not generated by the poststratification classes - If p represents an estimated percent, b is the parameter from Table 1 associated with the numerator characteristic(s) and y is the number of persons in the denominator on which p is based, then the standard error of p may be approximated by

$$SE(p) = \sqrt{\frac{bp(100-p)}{y}} .$$

(If p is a proportion, then the above formula can be used, but with 100 replaced by 1.0.)

Example of Rule 3. Among black children of age 5 through 17, 1.5 percent have either front top incisor missing due to trauma. The number of black children of this age is 6,434,325. The standard error of the estimate of the percent is

$$\sqrt{\frac{14394(1.5)(100-1.5)}{6,434,325}} = 0.57.$$

Here use the third set of parameters, A = -0.000295 and B = 14,394. An approximate 95 percent confidence interval for the percent of black children at age 5 to 18 who have either front top incisor missing due to trauma is $1.5 \pm (1.96) \cdot 0.57$, or 0.38 percent to 2.62 percent.

Software for Calculation of Weighted Estimates and Variances

A number of computer programs have been developed to calculate sampling errors of estimates based on complex sample designs. 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. The method of BRR was introduced by McCarthy (1966, 1969) and is described in Wolter (1985). WESVAR, developed at Westat, uses BRR and Jackknife techniques for computing sampling errors. It can be accessed from the Statistical Analysis System (SAS) after installing a load module on a VAX minicomputer or an IBM mainframe. This load module is available from Westat for the cost of a tape.

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

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

WESVAR (BRR)

To calculate the standard error on the mean number of decayed, filled or missing surfaces per student by gender, the following set of SAS statements could be used:

```
PROC WESVAR DATA = INDD1 METHOD = BRR;
```

```
WEIGHT FSW REPWGT01 - REPWGT32;
```

```
FACTOR 100;
```

```
COMPUTE MEANDMFS = PERMDMFS/C;
```

```
TABLE GENDER/COMPUTE (VALUE TABULAR);
```

```
RUN;
```

In the above WESVAR example, the variable "C" is a dummy variable that is equal to 1 for all students aged 5 to 17 at the time of examination.

SUDAAN (TLS)

PROC SUDAAN DATA = INDD1;

NEST STRATUM PSU;

VAR PERMDMFS;

WEIGHT FSW;

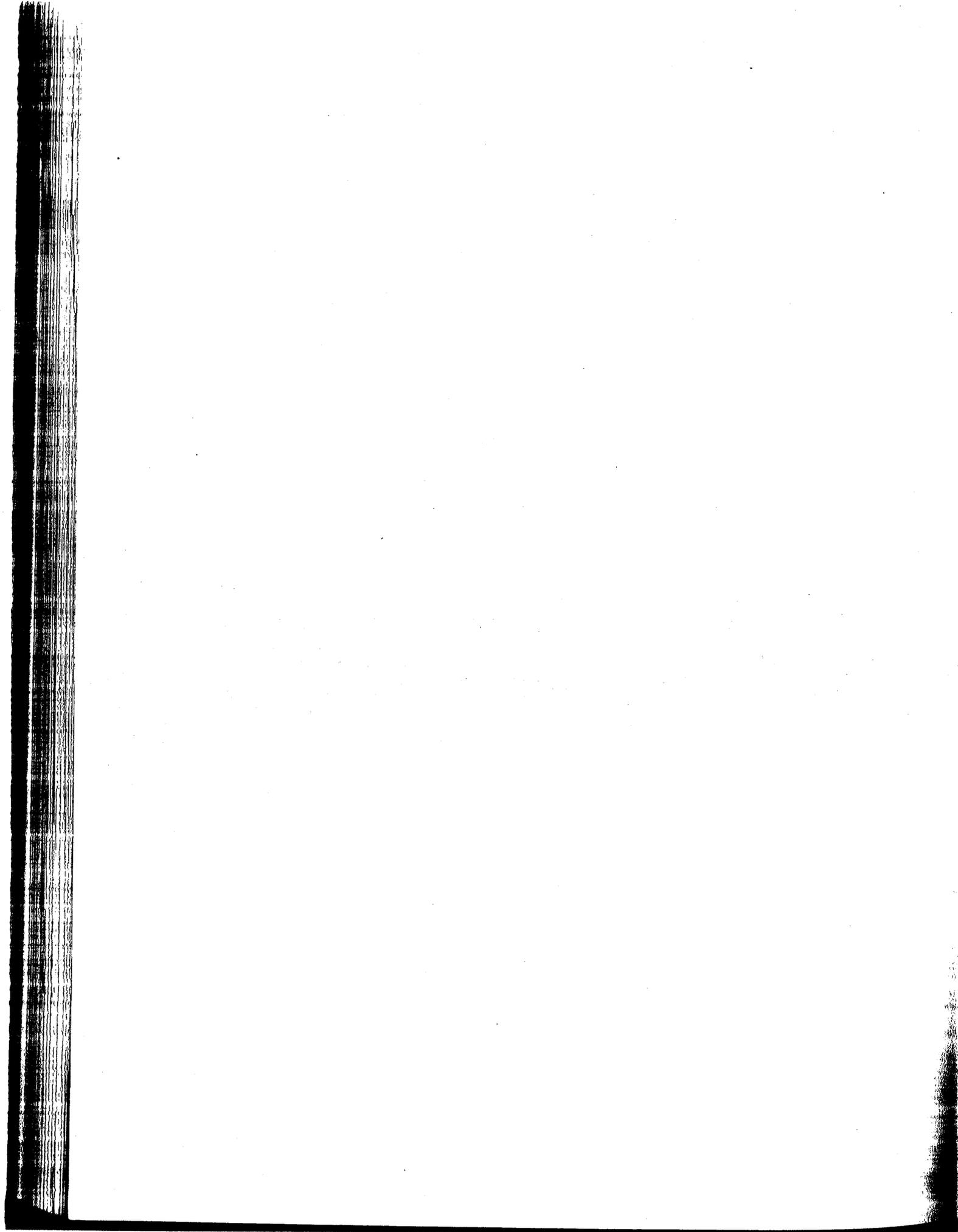
SUBGROUP GENDER;

LEVELS 2;

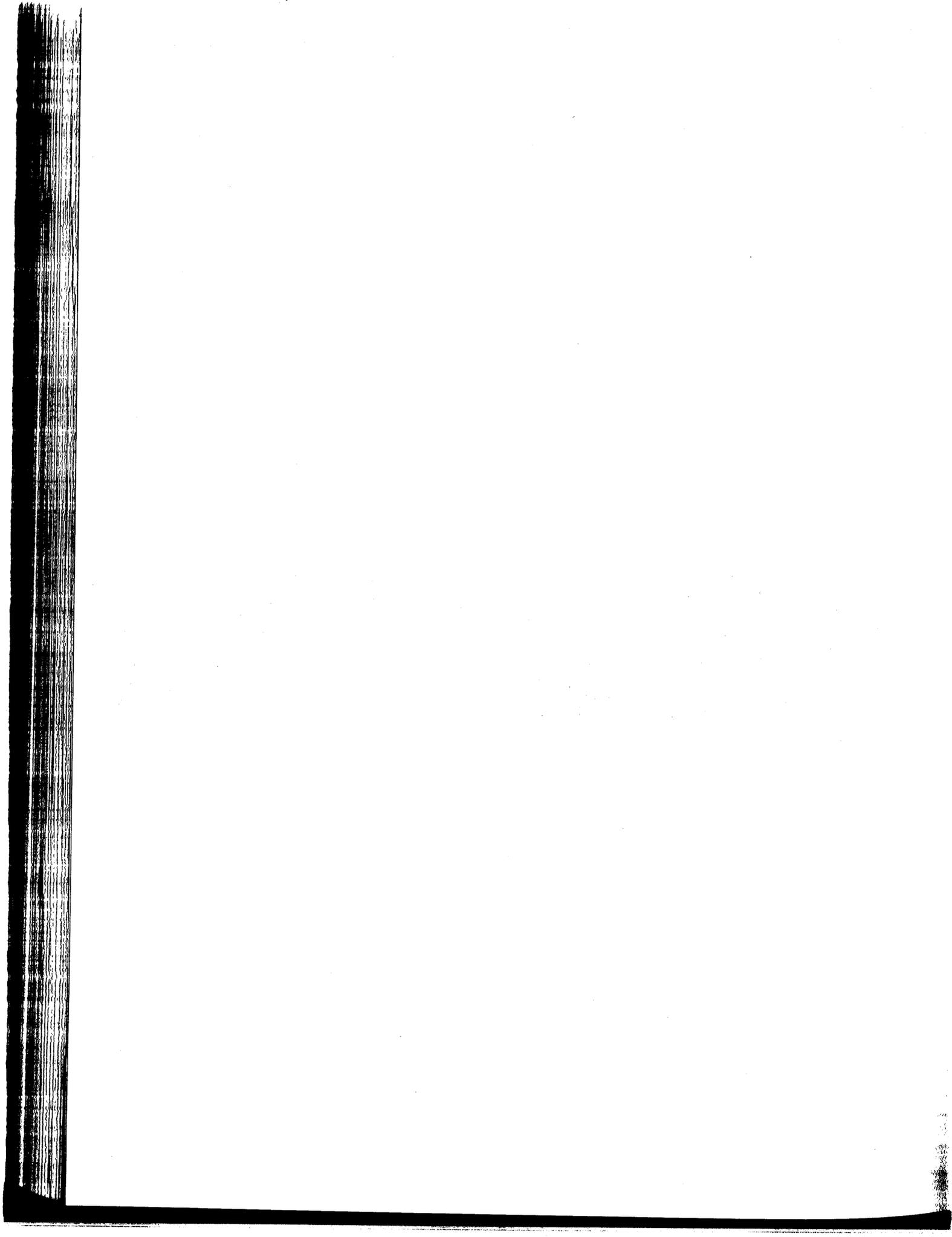
TABLES GENDER;

The above statements assume that the name of the SAS file created by the user is INDD1 and that the user created the SAS file with the suggested variable names.

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.

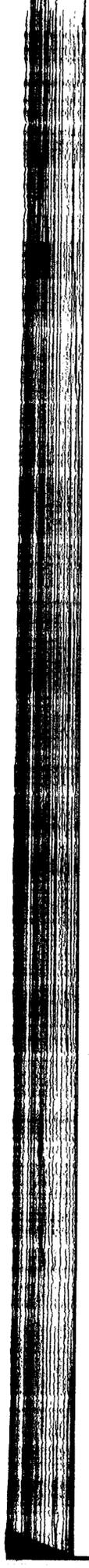


APPENDICES



Appendices

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APPENDIX I. WEIGHTING

In this survey, five primary sampling units (PSUs) and twenty-six real and artificial classrooms (2 per grade) were selected in each of the fourteen geographic domains to produce approximately equal reliability for estimates of dental caries in each of the domains. The dental caries estimates for a class were inflated by the reciprocal of the probability of selection of the class and then adjusted for substitution and nonresponse and for consistency with known population counts by age, sex and race.

A. Probability of Selection

The probability of selection of the class was derived from:

1. The probability of selection of the PSU within the stratum (a stratum being an income group within one of the 14 domains);
2. The probability of selection of the school within the PSU;
3. The probability of the particular grade assignment for the school; and
4. The probability of selecting the class from all the classes within the grade.

Probability of Selection of a PSU

The probability of selection of the PSU within the stratum was equal to the enrollment of all the students within the PSU divided by the enrollment of all the students within the stratum, as reported on the Curriculum Information Center (CIC) tapes.

Probability of Selection of a School Within a PSU

The probability of selection of the school within the PSU depended upon the type of school - Secondary, Middle, or Elementary. Each school (or portion of a school, in the case of schools with a larger than standard grade range) was assigned to one of these categories. For the Secondary or Middle classification, two schools were selected. Generally, the probability of selection of each of these schools was twice the enrollment of the school divided by the enrollment of all schools within the particular category. If one school in either of the Secondary or Middle categories contained over half of the enrollment of all the schools in that category, it was selected with certainty. The probability of selection of the second school was then the enrollment of the school divided by the enrollment of all the schools remaining after the certainty school was removed.

Three Elementary schools were selected. Thus, in general, the probability of selection of Elementary schools was three times the enrollment of a school divided by the enrollment

of all Elementary schools. If one school contained over one-third of the enrollment of all the Elementary schools in the PSU, it was selected with certainty. The determination of the probabilities of the remaining two schools to be selected was then calculated exactly as for Secondary or Middle schools.

Probability of a Grade Assignment for the School

For Secondary and Middle schools, all present grades were eligible for sampling. This probability was thus one. For Elementary schools, on the other hand, there were three different grade range restrictions assigned to the three schools selected. These three grade ranges were constructed so that they covered the Elementary school grades (usually K through 6) exactly twice. The probability of a school being visited for any particular grade was $2/3$ (since only one of the three grade ranges excluded any particular grade). There were some exceptions to this. For example, in Chicago there was no Middle school classification, only Elementary (K-8) and Secondary (9-12). Hence, in Chicago five schools were selected from the Elementary category, and the probability of a school being visited for any particular grade was $2/5$.

Probability of Selection of a Classroom Within a Grade

The probability of selection of a real or artificial classroom within a grade was simply the number of classrooms selected from a grade divided by the number of classrooms within that grade for the school being visited. The number of classrooms selected from a grade was always one, except in one case, when two 5th grade classes were selected from the same school, as only one school in the school district contained 5th grade classes. (The probability of selection for each real classroom within an artificial classroom is equal to that for the artificial classroom.)

Classroom Weight

Thus, the probability of selection of a particular classroom within a stratum can be expressed as the product of the above probabilities. The weight for the classroom is simply the reciprocal of this product. Every student in the class received this weight.

B. Adjustment for Substitution and Nonresponse

Because of the need for substitutions for schools or school districts which withdrew from the sample, adjustments to the weighting procedure were made. In cases where one school was replaced by another within the same PSU, the substitute school was treated as if it were the one actually selected for purposes of computing the probabilities of selection and the weights. In cases where a substitute school was selected from outside the original PSU, the probability of selection for sample classes from the substitute school were computed as if the original school was not part of the original PSU but as if the substitute school was part of the original PSU. The probability of the assignment of

the grades to the replacement was the same as that of the original school. The probability of selection of the classroom within a grade was that of the substitute school.

It was sometimes possible to replace the grades covered by a school by assigning these grades to a school (or schools) already selected to cover some other grades. This was done in instances where time pressure was experienced or cooperation in a PSU was difficult to obtain. Depending on the situations, several alternative strategies were employed. First, if possible, a school with newly assigned grades was treated as if it were originally assigned the grades. For example, suppose three Elementary schools originally were assigned grades K-4; 3-6; and K-2, 5, 6. However, the school assigned K-2, 5, 6, had recently changed its structure to a K-3 type school. Then the school assigned K-4 would be assigned grades 5-6, and the situation was handled as if the original grade assignments were in fact, K-6; 3-6; and K-2. Second, if a totally new school was assigned the grades which could not be sampled as originally intended, the new school was treated as if it were selected in combination with the school which could not cover the full range of grades. Finally, in some instances, grades from a school which dropped out from the sample were distributed among several schools. In these cases, schools were combined into standard grade range entities where possible.

Occasionally, it was necessary to replace a single class by using another sample PSU. When this situation occurred, it was usually caused by a PSU containing only a single kindergarten class. The weights assigned to the replacement kindergarten class were then calculated as follows. The PSU and school weights were those of the school from which the kindergarten class would have been chosen had the school had a kindergarten. The class weight corresponded to that of the substitute school for kindergartens. In the cases where only one or two kindergartens were found in a PSU, they were sampled with certainty. Thus, they were assigned a grade weight of one. The kindergarten from the replacement PSU also received a grade weight of one.

There were situations where an entire school district dropped out and yet there were other districts left within the PSU from which an adequate sample of schools could be drawn. In these situations the enrollment of the withdrawn school district was subtracted from the PSU and "category" enrollments before the weights were computed.

To account for nonresponse within classes which were examined, a nonresponse adjustment factor was computed as the ratio of the number of students within the class to the number of students actually examined within that class. Such a weight adjustment helps control the potential bias due to nonresponse at the classroom level, since students within a class are similar in nature in terms of age, race, geography and socioeconomic status.

C. Ratio Adjustment

The use of ratio estimates was a final step in the weighting procedure. The ratio estimates would bring the initial weighted estimates in line with the best current estimates of the target population, by age, sex, and race. Tabulation of examined students with the nonresponse-adjusted weight provides approximations to unbiased estimates of totals. They would have been true unbiased estimates if there had been no substitutions and if all sample students had appeared for the dental examinations. However, the fact that the estimates are almost unbiased does not mean that the estimate of the total number of children in each region from the sample equals the true total. There will be deviations due to a number of factors: (1) measures of size used to select PSUs varied (most classes contained 20-25 students but the lowest single class size accepted was 10 and the highest was in the mid-30's); (2) schools were selected based on CIC information, thus the accuracy of the estimates depends on the accuracy of this information; (3) noncooperating schools or school systems were substituted. The deviations from the true totals were even greater for individual age, sex, or race totals. There were differences in response rates by age, but to some extent their effects were reduced by the nonresponse adjustment factors being done separately by class.

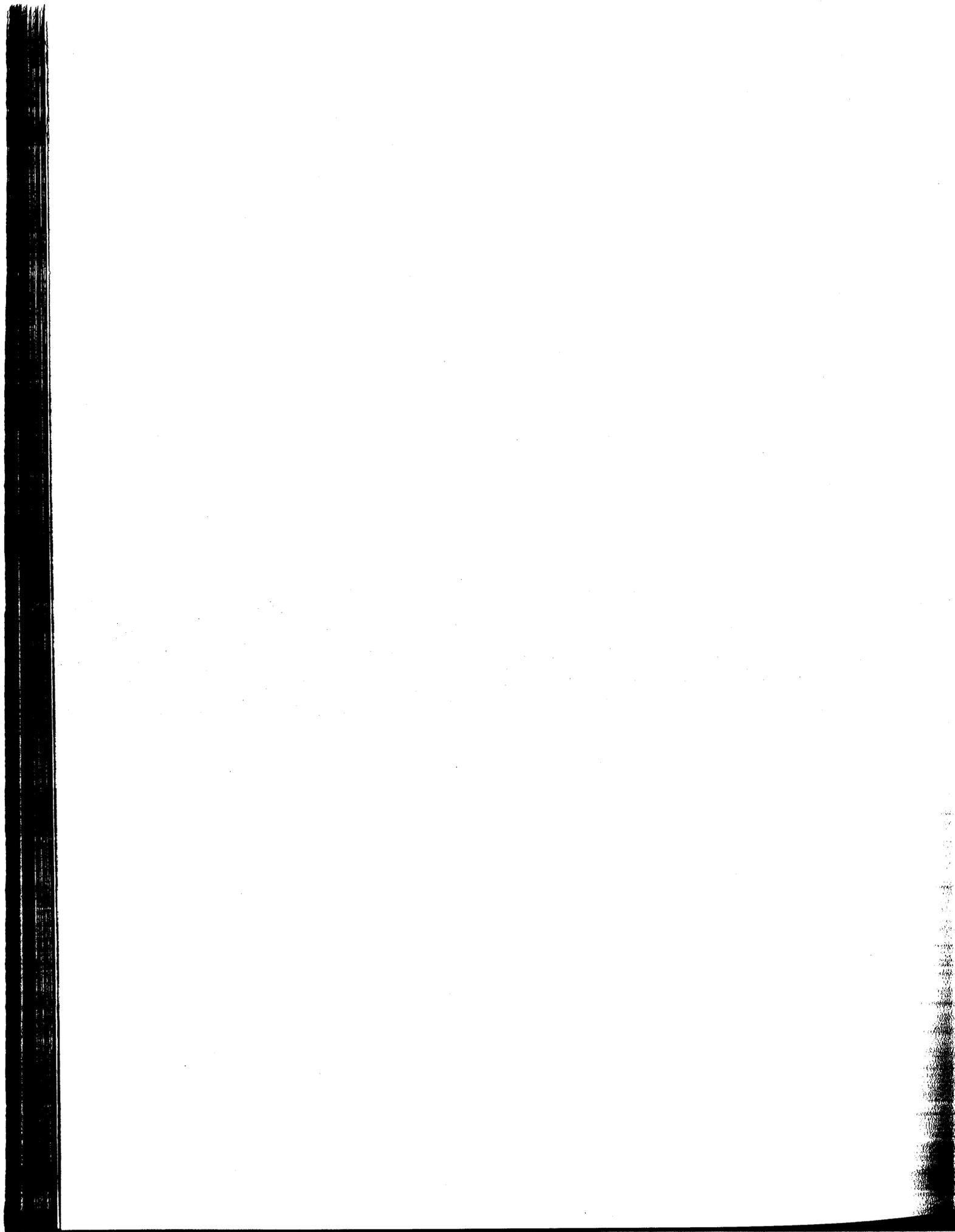
Whenever there is a possibility of sample estimates deviating from the true totals for important subgroups of the population, significant reductions in variance can usually be realized by ratio estimates utilizing independent population estimates for these subgroups, assuming that the independent estimates are quite accurate. This can be observed by seeing that the estimate of the mean value for any statistic can be expressed as:

$$\bar{x} = \sum P_i \bar{x}_i$$

where the \bar{x}_i is an index for age, sex, race, and region, P_i is the proportion of the population in each subgroup, and \bar{x} is the estimated mean for the subgroup. The initial sample weights reflect sampling variances in both estimates of P_i and \bar{x}_i , both of which affect the variance \bar{x} . Ratio estimates replace the sample estimates of P_i by the true values and thus eliminate that component of the variance of \bar{x} . Consequently, the ratio estimates will not change the individual values of \bar{x}_i , but will normally reduce the variance whenever there is some combination of \bar{x}_i .

The ratio estimates for each age-sex-race group within the fourteen geographic domains was computed as: the 1978 Census estimate of the number of students in an age-sex-race group within a cell divided by the survey estimates of the number of students in that age-sex-race group within the cell.

The final weight for each examined student was obtained by multiplying the nonresponse-adjusted weight by the ratio adjustment factor. This final sample weight is labeled FSW on the data file and is located in RECORD 01 in file locations 59-70.



Appendix II. Variance Estimation

The variance estimation technique of balanced half-samples or balanced repeated replications (BRR) is widely used in complex survey designs involving stratification. The design is such that either two PSUs are selected per stratum or the strata can be redefined so that two PSUs are assigned to each resulting stratum. 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. McCarthy (1966, 1969) has contributed several useful references for this technique of variance estimation. BRR is particularly useful when nonlinear estimates are needed and the complexity of the survey design makes the expression of the variance estimate quite complicated and the resulting computations, even via computer, both burdensome and expensive. Indeed, for some estimates, exact analytic expressions for variances may not exist.

The strategy involved in balanced half-sample replication is to generate estimates \hat{x}_R of the statistic of interest, x , based on several different samples of one PSU per stratum. Thus, only half of the PSUs are used for any given sample. The statistic of interest on each selected half-sample is recomputed, and the variance of \hat{x} is estimated by taking the mean square difference of the replicate estimates from the full sample estimate. The variance of \hat{x} can be estimated by

$$\sigma_{\hat{x}}^2 = \frac{1}{T} \sum_{R=1}^T (\hat{x}_R - \hat{x})^2$$

where T is the total number of replicates employed, " R " of \hat{x}_R designates that the estimate \hat{x}_R is based on the R^{th} replicate (or half-sample), and \hat{x} is the estimate from the full sample.

The expression above is quite general and will provide an estimate of the variance of \hat{x} for any set of half-sample replicates. McCarthy showed that a particularly effective procedure is to have each replicate determined by application of an orthogonal matrix with dichotomous elements to the stratification scheme. Each row of the matrix represents a replicate, each column represents a stratum. If a "+1" appears in column i (stratum i) for a given row (replicate), the first PSU in the stratum is chosen. If a "-1" appears, the PSU designated number two is chosen. To achieve a balanced set of half-samples, the number of replicates (half-samples) to be used is the smallest integral multiple of four which is greater than or equal to the number of strata designated. This is desirable as covariance terms are thereby eliminated.

When estimating the variance of ratios, one problem that occasionally arises from BRR is that one or more replicate estimates will be undefined due to zero denominators. In this study a modified version of the standard BRR method, Fay's Method, was used (Judkins, 1990). (A different method was used originally for publications in the eighties. Starting with the release of this public use file, all variance estimates are made with Fay's Method.) Instead of increasing the weights of one half sample by 100% and decreasing the weights of the other half sample to zero, Robert Fay suggested perturbing the weights by $\pm 100(1-K)\%$. $100(1-K)$ is referred to as the perturbation factor. The perturbation factor for BRR is 100% ($K=0$). Fay originally suggested a perturbation factor of 50% ($K=0.5$). When the weights are perturbed more gently, the mean square error of the replicate estimates from the full sample estimate becomes smaller. For linear statistics, the mean square error is too small by a factor of $(1-K)^2$. To obtain a reasonable estimate of variance, Fay suggested multiplying the mean square error by $1/(1-K)^2$. Fay's estimate of variance is

$$\frac{1}{(1-K)^2} \left[\frac{1}{T} \sum_{R=1}^T (\hat{x}_R - \hat{x})^2 \right].$$

Application of Fay's Method to the OHSC I

In this survey, 29 pseudostrata were constructed for variance estimation. The PSU was identified by region, SMSA, and district. For example, in Region 3 and SMSA 1 (2 is for non-SMSA) there were five districts, the PSUs were identified as 311, 312, 313, 314, and 315, where the income classes were in ascending order. In each Region/SMSA cell, a group of the lowest two or three income strata was randomly chosen to form the first pseudostratum. The rest of the income strata within this cell comprised the second pseudostratum.

The only PSU that was selected with certainty was New York City, PSU 211. The first noncertainty selection for the New York City PSU was at the school rather than the PSU level. Thus, the New York City PSU was divided into two pseudo-PSUs 211 and 210, containing half of the schools in each. The schools 01, 03, 04, 06, and classes 3 and 4 in school 07 from PSU 211 formed the first pseudo-PSU. The schools different from 01, 03, 04, 06, and the rest of the classes from school 07 formed the second pseudo-PSU.

Using a perturbation factor of 10% ($K=0.9$), the first half-sample of each of the 29 replicates was adjusted down by 10 percent and up by 10 percent in the second half. The adjustments to the weights were then recalculated for each replicate.

It was also necessary to ratio-adjust each half sample selected to achieve an estimate for the whole population. In general, each half-sample was ratio-adjusted to the age, sex, and race totals for the geographic domain under consideration. There were some

exceptions, however. The original survey weights were ratio-adjusted for race, sex, and age except for cases where less than five children were found in an age-sex-race combination for a particular geographic domain. In these cases, race was ignored, adjustments were made based on age and sex alone. For determining half-sample variance estimates, a similar approach was used. Ratio adjustments were based on age and sex alone in cases where less than 15 children were found in an age-sex-race combination for a particular geographic domain.

The following table indicates the occasions when race was ignored in the half-sample ratio adjustments:

Region combinations	Area type	Race was ignored for the following age-sex categories
1	SMSA	All
1	Non-SMSA	All
2	SMSA	Both sexes 6, 7, 10, 15, 17; Males, 16; females, 14;
2	Non-SMSA	All
3	SMSA	Both sexes, 15; Males, 13, 14; females, 6;
3	Non-SMSA	All
4	SMSA	None
4	Non-SMSA	None
5	SMSA	All, except: both sexes 13; Males, 10; females, 11, 14, 15;
5	Non-SMSA	Males 5, 17;
6	SMSA	All, except: Males, 17; females, 5, 6, 8, 9;
6	Non-SMSA	All
7	SMSA	All, except: both sexes, 8; Males, 6, 7; females, 9;
7	Non-SMSA	All



APPENDIX III. ADMINISTRATION AND FIELD OPERATIONS

Advance arrangements

Extensive staff time and effort were required to obtain agreement for sampled classes to participate in the survey. Many advance contacts were made with school district committees, educational groups and representatives, dental organizations and dental public health officials, both local, regional and state. In several states, the involvement of the state dental director proved crucial to obtaining the necessary clearances to conduct survey examinations.

A required early contact was with the Committee on Evaluation and Information Systems (CEIS) of the Council of Chief State School Officers. CEIS was responsible for monitoring the progress of projects related to data collection, evaluation, or information systems that involved state or local educational agencies. CEIS coordinators in the relevant states were informed of the survey through their Washington office. The American Dental Association assisted by publishing a notice of the survey in their newsletter and by advising heads of dental societies in each state to be visited of the purpose of the survey, and encouraging their support.

In several states delays were encountered when state dental licensing boards required review of the credentials of the survey examiners. Further sampling was necessary in the two states which refused permission to conduct the survey examinations. Extensive negotiations were conducted with district superintendents to secure access to the schools. After the district superintendents gave permission, home office staff contacted the school principals to provide additional information about the survey.

Field Staff

Field staff for the OHSC I consisted of six coordinating teams and eight examination teams which had been trained and calibrated by NIDR and contractor staff according to standardized written diagnostic criteria. The coordinating team was headed by a lead coordinator who supervised an assistant coordinator and one or more local assistants hired from each community. Field coordinators arrived in the school district at least two weeks prior to the arrival of the dental teams. Each dental examination team was composed of a licensed dentist and a trained data recorder. Dental teams conducted examinations simultaneously at separate PSUs.

Training of Field Staff

Field staff for the OHSC I were instructed on their assigned tasks, use of forms and materials, and protocol to be used in meetings with members of the dental and school district communities. All permanent members of the field staff received two weeks of

structured training in survey procedures, followed by one week of supervised participation in a pilot field survey.

Each dentist, recorder and field coordinator was provided with a highly detailed manual of procedures that was prepared by staff members of the National Caries Program and Westat, Inc., who also conducted the training. The manual contained instructions on standard procedures applicable to all survey staff, as well as sections addressing the individual responsibilities and performance criteria for each member of the field team. Following the training period, these manuals were used as the standard reference to resolve problems or questions that arose during the survey. In addition to the pre-survey training, two short training sessions were held for assistant coordinators during the survey period.

At the end of the first phase of the survey during school holidays in December, debriefing sessions were held for all field staff to share experiences, identify problems that had arisen and discuss successful solutions. Some modifications were made to logistical procedures as a result of these sessions.

Role of the Field Staff

Field staff contacted the home office by telephone at least once a week. They contacted the coordinators generally two or three times a week to discuss problems and possible solutions, techniques for gaining cooperation from school personnel, and suggestions for follow-up plans for nonresponse.

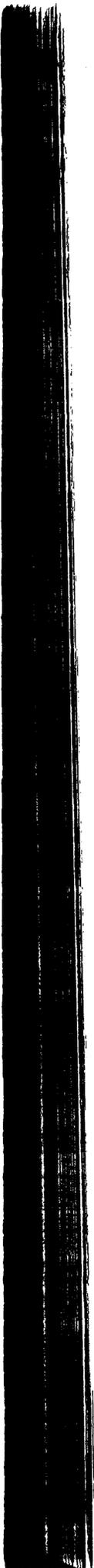
The field staff recorded the status of every sampled student on a form referred to as a Consent/Examination Record. The form served as a manual record keeping system, as a source of information on the response rate and procedures that were successful in achieving a high response rate, as a check item for the local assistant to determine if the student had been given parental consent to participate, and as a transmittal form for sending the data and consent forms to the home office.

The field staff also completed a daily report record by class/grade which provided information on the number of consent forms distributed, returned, refused, and scheduled for examination. This information was then relayed to the home office via a 24-hour special project number and recorded on tape. The tape was played every morning and the response rates were recorded in a log so that persons directing the project had up-to-date information on each PSU.

Role of the Coordinating Team

The role of the coordinators was to act as the "advance-team" for the dental examination staff. They made courtesy calls on persons in the district who had been involved in advance negotiations. These people included the superintendent of the

school system, other state and local education personnel, the district nurse, or state and local dental health officials. They also made direct contact with the principal of each school scheduled to be visited. Coordinators were responsible for training their local assistants in the logistics of the survey.



APPENDIX IV. FORMS AND QUESTIONNAIRES

Dental Examination Form

Consent Form

Residential History Questionnaire



CONSENT FORM

For the Dental Examination

INSTRUCTIONS: Please print the following information, indicate if permission is granted and sign your name. Keep the white copy of this form for your records and return the yellow copy. All forms should be returned to the home room teacher by _____ (date).

Student's Name: _____

Address: _____

City/State: _____

Age: _____

Teacher: _____ School: _____

The procedures in this examination have been explained to me as the parent/guardian of the student named above and I understand the following:

1. The purpose of this research is to increase the understanding of the dental health status and dental needs among our nation's school children. However, I do not expect that the participation of the above named student will necessarily be directly beneficial to him/her.
2. His/her participation is voluntary and there is no penalty for declining to participate.
3. Any questions I have about procedures used in this study and their purpose will be answered.

Permission to participate in the dental examination

is granted

is not

for _____
(Student's Name)

(Check appropriate box)

(Signature of Parent or Guardian)

(Date)

PLEASE COMPLETE THE RESIDENTIAL HISTORY INFORMATION ON THE REVERSE SIDE IF YOU HAVE GIVEN PERMISSION TO PARTICIPATE.

RESIDENTIAL HISTORY

Is your current residence served by a public water supply?

Yes No

Has your child lived at this residence since birth?

Yes No

If "No," please list all places where this child has lived for more than 6 months as well as the dates when s/he lived there. Start with your current address and go back in time. Also please indicate whether the place was served by a public water supply, that is, a supply used by most people that lived in the city, town, or place rather than an individual supply, such as a private well. Use the additional space if necessary.

CITY, TOWN, OR MILITARY BASE	STATE	DATE LIVED THERE	PUBLIC WATER SUPPLY (Check Box if <u>Yes</u>)
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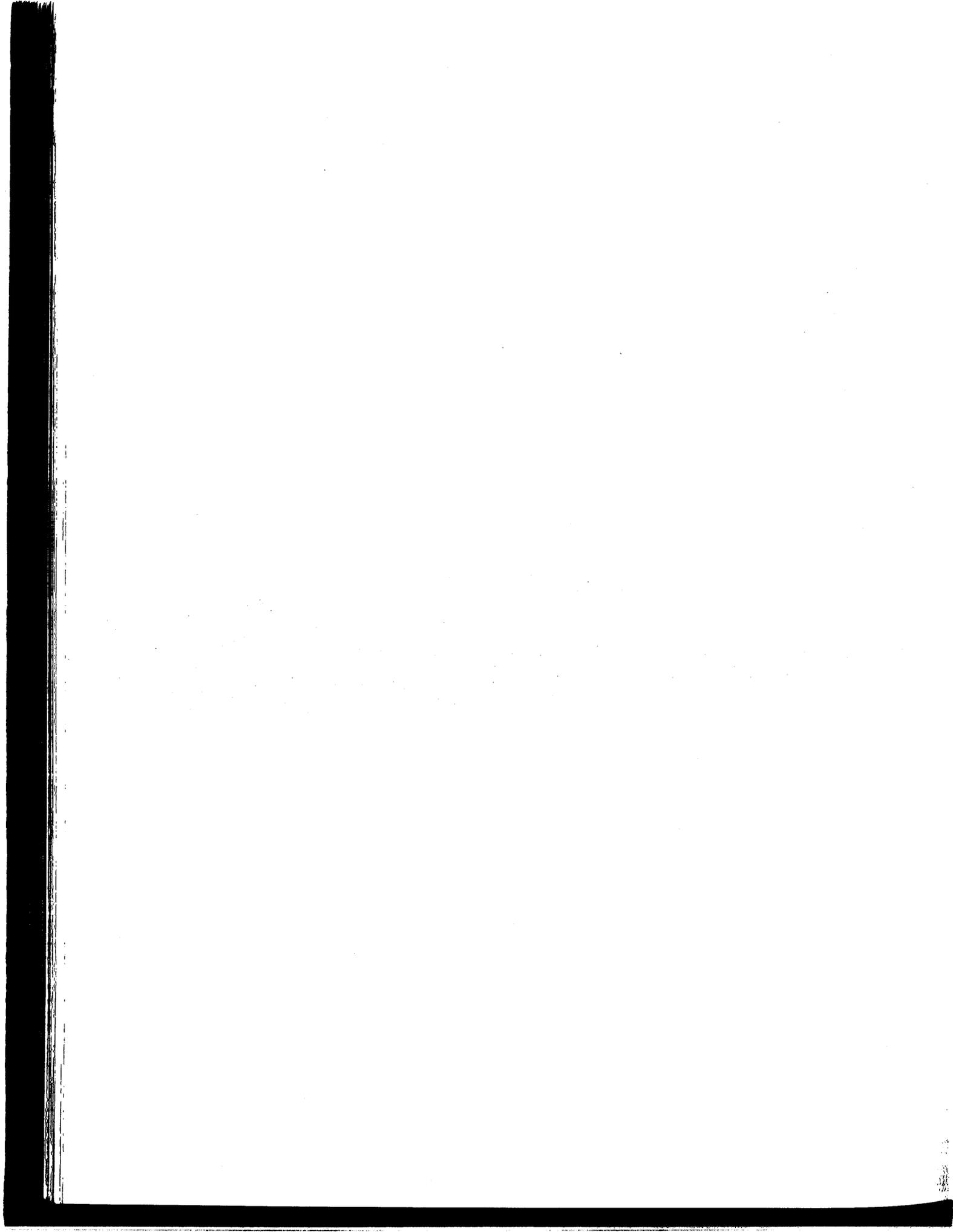
		From ___/___/___ to ___/___/___ mo / yr mo / yr	<input type="checkbox"/>
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APPENDIX V. DIAGNOSTIC CRITERIA

DIAGNOSTIC CRITERIA FOR CORONAL CARIES

Because it is often desirable to compare prevalence reported from different studies, the criteria used in this survey are set forth here in detail.

- A. Pits and fissures on occlusal, buccal and lingual surfaces: these areas are 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 of enamel.
 3. Softened enamel adjacent to the area which may be scraped away with the explorer.

A deep pit or fissure per se in which the explorer catches is not sufficient evidence of decay.

- B. Smooth areas on labial, buccal 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.
 2. Scraping away the enamel with the explorer.

These areas should be diagnosed as sound when there is visual evidence of demineralization, but no evidence of softness.

- C. Proximal surfaces: for areas exposed to direct visual and tactile examinations, as when there is no adjacent tooth, the criteria are the same as those for smooth areas on facial, lingual or buccal surfaces.

For areas not available to direct visual-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 labiolingually and reflects from the mirror. If a characteristic shadow or loss of translucency is seen on the proximal surface, this is suggestive that a carious lesion is present. Ideally, the actual diagnosis of the lesion should be confirmed with the explorer by detecting a break in the continuity of the enamel surface. However, clear visualization of a lesion by transillumination can be accepted as a positive diagnosis.

The M component of the DMF index represents those permanent teeth that have been extracted as a result of caries. It is essential to distinguish between teeth extracted due to caries and those extracted or missing for other reasons, such as trauma, orthodontics or periodontal disease. There is no "extracted due to caries" designation for deciduous teeth. For the sake of consistency, any deciduous tooth missing for any reason will be recorded as "permanent unerupted" and coded as such so long as the permanent successor has not appeared.

The F component of the DMF denotes any tooth surface that has been filled, with either a permanent or temporary filling, as a result of caries. It is necessary to attempt to distinguish between surfaces restored for caries and those restored for other reasons such as trauma, hypoplasia or malformation.

In applying the DMF and df indices, there are several special conditions that require additional explanation:

1. 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 restoration was required because of caries, the tooth will be coded as all surfaces filled (5 surfaces for posterior, or 4 for anterior teeth). If the restoration is due to a fractured, malformed, or hypoplastic tooth, the tooth is scored "excluded". NOTE: This 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 examined and scored in the usual manner. Deciduous teeth with full coverage will always be scored as all surfaces filled, since these teeth are seldom crowned for any other reason.
2. Banded or bracketed teeth -- all visible surfaces are to be examined as well as possible and scored in the usual manner.
3. Teeth extracted for orthodontic reasons -- certain teeth, typically first bicuspid, may have been extracted as part of orthodontic treatment. These teeth are scored as such. The examiner must make the determination that the teeth were extracted for orthodontic reasons rather than caries; this is not usually difficult because of the typically symmetrical

patterns of such extractions. Rather than trying to determine whether the extracted teeth are 1st or 2nd bicuspid, we have adopted the convention of calling them 1st bicuspid. Teeth other than bicuspid may also be extracted for orthodontic reasons. In many cases the subject will have good recall of the reason for the extraction, and can help the examiner in making the correct determination.

4. Non-vital teeth -- non-vital teeth are to be scored in the usual manner. If in the examiner's opinion a restoration on a non-vital tooth was placed solely in order to seal a root canal filling and not for caries, that restoration will not be scored.
5. Hypoplastic teeth -- these are to be scored in the usual manner. However, if it can be determined that a restoration on such a tooth was placed solely for esthetic 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 coded "excluded", as described in condition 1 above.
6. Malformed teeth -- score in the usual manner, unless restored with full coverage for esthetic reasons, in which case the tooth is coded "excluded".
7. Congenitally missing teeth -- if it can be determined that the tooth is congenitally missing rather than unerupted, score the tooth "unerupted".
8. Extracted or missing due to trauma -- scored "excluded" for permanent teeth and "unerupted permanent" for deciduous.

There are a number of general considerations regarding diagnostic criteria:

1. Stain or pigmentation alone should not be regarded as evidence of decay.
2. A tooth is considered to be in eruption when any part of its crown projects through the gum.
3. In the case of supernumerary teeth, only one tooth is to be scored. It is up to the examiner to decide which tooth is the "legitimate" occupant of the space.
4. Where both a deciduous and a permanent tooth are erupted into the same tooth space, only the permanent tooth is scored.
5. Third molars are not included in the survey and there is no space provided for them on the examination form. When examining second molars it is important to note that a third molar may occupy a second molar space

because of anterior drifting. If it can be determined that this has occurred, the diagnosis must be based upon 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, only the second molar is scored.

6. When an entire tooth crown is destroyed by caries and only the roots remain, this is scored as "all surfaces carious".
7. When a tooth is carious and filled on the same surface, score the surface carious.
8. When an adhesive sealant is present in a pit or fissure, and if there is no evidence of caries according to criteria previously described and there is no restoration present, that surface is considered sound.
9. When a filling or a carious lesion on the posterior tooth extends beyond the line angle onto another surface, then the other surface is also scored carious or filled. However, a proximal lesion or filling on an anterior tooth is not considered to involve the adjacent lingual or labial surface unless it extends at least 1/3 of the distance to the opposite proximal surface.
10. Incisal edges of anterior teeth are not considered as separate surfaces and are not represented 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.

DIAGNOSTIC CRITERIA FOR DENTAL RESTORATIVE TREATMENT NEED INDEX

Introduction

The DMF surface index is valuable for use in clinical studies or epidemiological surveys to measure differences in caries experience among different groups of people or in the same group at different times. However, DMF surface data do not provide a satisfactory measure of the need for dental care in groups that are examined. For example, knowing that 16-year old children in a community have an average DMF surface score of 18 per child gives no indication of how many three-surface restorations, replacements of unsatisfactory restorations, crowns or extractions are needed by those children. Such information is essential for planning treatment programs of restorative care for population groups.

Therefore, the Dental Restorative Treatment Need Index has been developed to collect valid information on requirements for reparative dental care. The data collected from application of this simple index should be valuable for estimating the number and types of dental services and personnel required to provide comprehensive dental care for our nation's school children.

Treatment Codes

- 0 = No Treatment Needed
- 1 = 1 Surface Restoration
- 2 = 2 Surface Restoration (or 2 One Surface Restorations)
- 3 = 3 Surface Restoration (or 3 One Surface Restorations or 2 Surface + 1 Surface Restorations)
- 4 = More Than 3 Surfaces, But Not A Crown (Code 7)
- 5 = Extraction of Primary Tooth
- 6 = Extraction of Permanent Tooth
- 7 = Crown (Either Primary or Permanent)
- 8 = Tooth Replacement - When Permanent Tooth Already Missing and Replacement Needed
- 9 = Root Canal or Other Pulpal Treatment Needed
- 68 = Extraction of Permanent Tooth and Replacement Needed
- 9 = Pulpal Treatment And A Crown Needed

General Instruction

In using the Dental Restorative Treatment Need (DRTN) Index, one code is used to designate the treatment required for each tooth space. The examiners should decide what treatment, if any, is needed for each tooth space at the time of examination. Current concepts of good, basic dental practice should be used in making diagnoses of the need for care. Immediately after a DMF score has been assigned to a tooth space, the appropriate DRTN code should be determined and entered on the examination form. There must be an entry for Dental Restorative Treatment Need for each tooth space.

If a portion of an existing restoration is defective or has adjacent recurrent decay, but part of the restoration is intact, the entire restoration should be indicated for replacement. In other words, dovetailing of a new restoration into a satisfactory, existing portion of a restoration is not permitted.

When there is a treatment requirement for both a primary and permanent tooth in the same space, e.g., a restoration in a permanent tooth and extraction of a primary tooth, the requirement for both the permanent and primary tooth should be recorded.

Other than the need for extraction, no treatment needs for primary incisors should be indicated for any children examined in the survey. Thus, all primary incisors should be coded either as 0 or 5. A complete array of treatment needs may be recorded for primary cuspids and molars for all children examined in the survey through the age of 9. For children 10 and older, treatment needs for posterior primary teeth should be limited to 0 and 5.

It is not necessary to record the need for space maintenance or tooth replacement following the designated extraction of primary teeth. This need will be automatically handled by statistical programming, according to the age of the child.

A code of 68 should be recorded when a permanent tooth is designated for extraction, and when the examiner judges that a tooth replacement is needed and feasible. If following extraction, the examiner believes that a replacement of the tooth is not warranted or possible, e.g., inadequate space, no opposing tooth or no suitable tooth for an abutment exists, a code for 6 only should be recorded.

STATUS OF ORTHODONTIC TREATMENT

CRITERIA AND QUESTIONS

The orthodontic treatment status is to be recorded for all children examined regardless of age.

#1 Orthodontic treatment in progress

Code:

- Yes
- No

The examiner is to determine if orthodontic treatment is currently in progress by visual observation of the child's mouth. All orthodontic appliances, including space maintainers or retainers, are to be coded as Yes on the data form.

#2 Previous orthodontic treatment

Code:

- Yes
- No
- Don't know

The examiner is to determine if the child has had previous orthodontic treatment. Each child will be asked to respond to the following question:

**HAVE YOU EVER HAD YOUR
TEETH STRAIGHTENED OR HAD
BANDS PUT ON THEM?**

The examiner should then determine if the child really understands the question before coding a "yes", "no" or "don't know" for the child's response.

NATIONAL DENTAL CARIES PREVALENCE SURVEY GINGIVAL TREATMENT NEED INDEX

Introduction

A mouth mirror is the only instrument used in this part of the examination. Periodontal probes--though useful in assessing periodontal status--will not be used.

The periodontal examination is made in the same order each time, i.e., starting with the last tooth in the upper right quadrant and moving around the arch to the upper left quadrant.

The gingival tissues of the lower right quadrant are examined next starting with the molar on the right side and moving around the arch to the lower left quadrant.

Teeth and gingival tissues are not dried with compressed air for the periodontal examination. Excess saliva is removed gently with 2x2 sponges.

The examiner should strive to standardize his/her examination technique by examining each child from the same chair side position, maintaining the same light to chair distance, looking at certain areas of the mouth directly (without the use of mouth mirror) and using the mouth mirror in a uniform manner to view tissues or to reflect light on tissues in areas of the mouth where additional light is needed.

Generally, each child should be allotted the same examining time. Children that appear to be free of inflammation should not be examined for a longer than usual period of time in the search for inflammation or other periodontal conditions. The time required to do the periodontal examination should not exceed two minutes, as a general rule.

Discussion of Criteria and Treatment Codes

No Gingival Inflammation Present (No Treatment Needed)

Gingiva is pale pink in color and firm in texture.

For a treatment code "0", all gingival tissues must be free of inflammation.

If the only area of gingival inflammation seen is adjacent to an erupting tooth, do not score the child as having gingival inflammation. Inflammation adjacent to orthodontically-banded teeth or a dental appliance of some sort--whether fixed or removable--is scored, however.

Gingival Inflammation Present (Oral Hygiene Instruction and Prophylaxis Needed)

A distinct color change to red or magenta is evident. There may be swelling and the gingiva may be spongy in texture. A change in gingival contour in the absence of color change is not considered to be inflammation.

The distinction between code "1" or "2" is based on the proportion of teeth present showing gingival inflammation. Inflammation adjacent to less than one half of the teeth present is coded "1". Inflammation adjacent to one half or more of the teeth present is coded "2".

In determining the proportion of teeth affected by gingival inflammation, an inflamed gingival papilla is considered to "affect" the two adjoining teeth. Inflammation in the gingival margin of a tooth that does not extend to the papilla is considered to affect only the one tooth.

Code "3" is assigned when the gingival inflammation around one or more teeth is of such severity that bleeding is provoked by pressing gently against the affected tissue with the side of the mirror head.

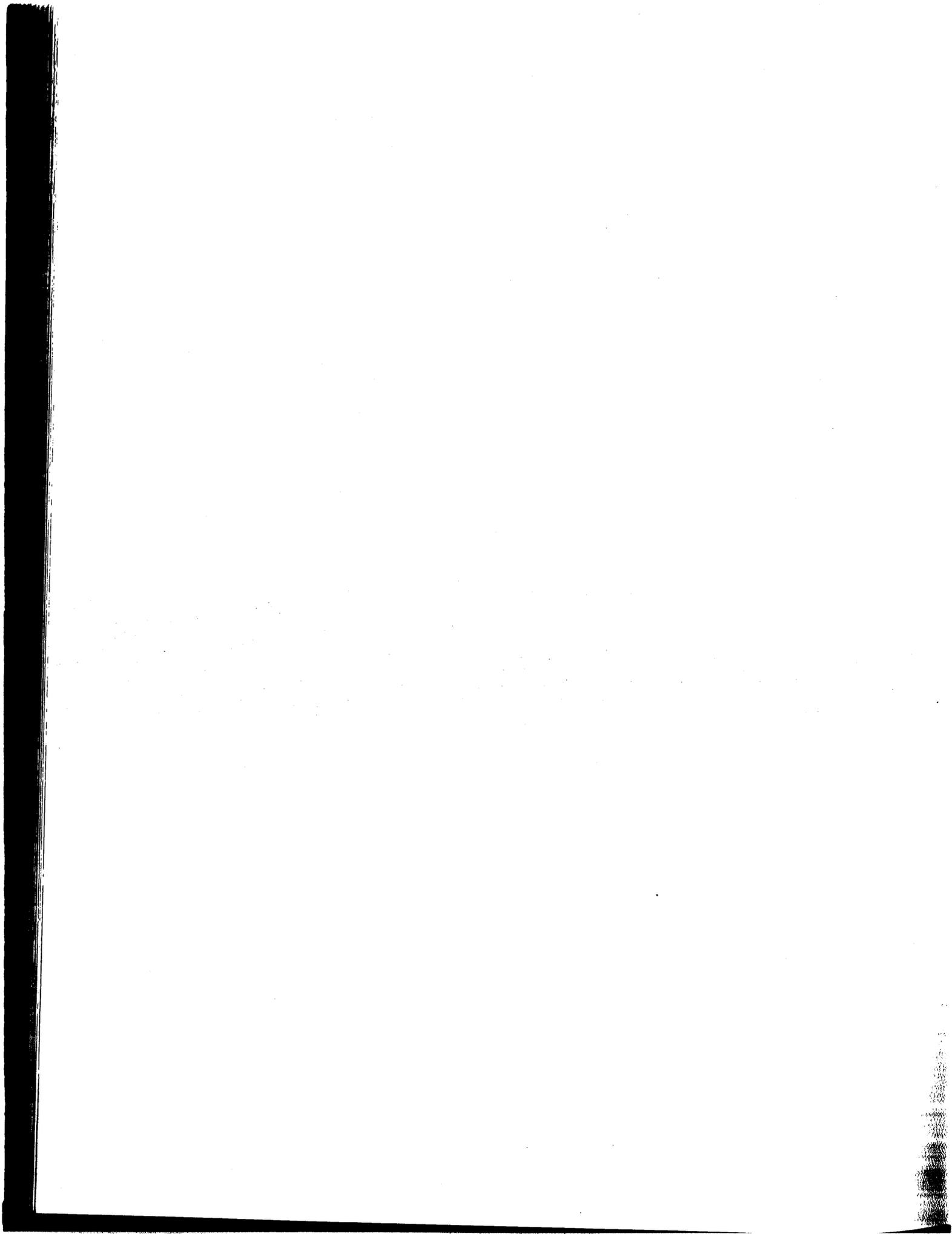
It is not necessary to press the mirror head against all areas of gingival inflammation. Only those areas likely to bleed in the examiner's opinion are tested. If bleeding is not provoked by pressing the gingiva gently in 3 to 4 of the most inflamed areas, further probing of the gingiva is not done.

Advanced Destruction (Periodontal Treatment Needed)

This code or category--"4"--is included for the purpose of recording those periodontal conditions not likely to respond solely to oral hygiene instruction and an oral prophylaxis. In other words, referral to a dentist for periodontal treatment is indicated.

A "true" periodontal pocket, i.e., one that "extends beyond the realm of the gingiva" (WHO) and is "not merely a deepened gingival crevice due to swelling in the free gingiva" (Russell) is indicative of periodontal tissue destruction. Without radiographs and/or a periodontal probe, however, it is difficult to diagnose the presence of destructive periodontal disease.

In children and youth, loss of periodontal attachment is often denoted by an exposed cemento-enamel junction as, for example, in the case of a gingival cleft. The presence of this condition would warrant assignment of treatment code "4". Acute ulcerative necrotizing gingivitis would be coded similarly.



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APPENDIX

One-fifth more than 20

- ADA.** American Dental Association.
- CEJ.** Cementum-enamel junction.
- CIC.** Curriculum Inventory Checklist.
- DFS (dfs).** Decayed or filled permanent teeth.
- DMFS (dmfs).** Decayed, missing, or filled permanent teeth.
- DFT (dft).** Decayed or filled permanent teeth.
- DMFT (dmft).** Decayed, missing, or filled permanent teeth.
- FGM.** Free gingival margin.
- MEC.** Mobile examination center.
- NCHS, CDC, PHS, US DHHS.** National Center for Health Statistics, Centers for Disease Control, Public Health Service, U.S. Department of Health and Human Services.
- NIDR probe.** Probe 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.
- PSU.** Primary sampling unit. In this survey, the PSU was a school district or a group of contiguous school districts.
- RR.** Response rate.
- SMSA.** Standard metropolitan statistical area.
- Standard.** Reference examiner for the purpose of calibrating field examiners.