Public Use Data Tape Documentation

nchs

Dental Health
Ages 6 Months - 74 Years
Tape Number 6505

Version 2

Hispanic Health and Nutrition
Examination Survey, 1982-1984

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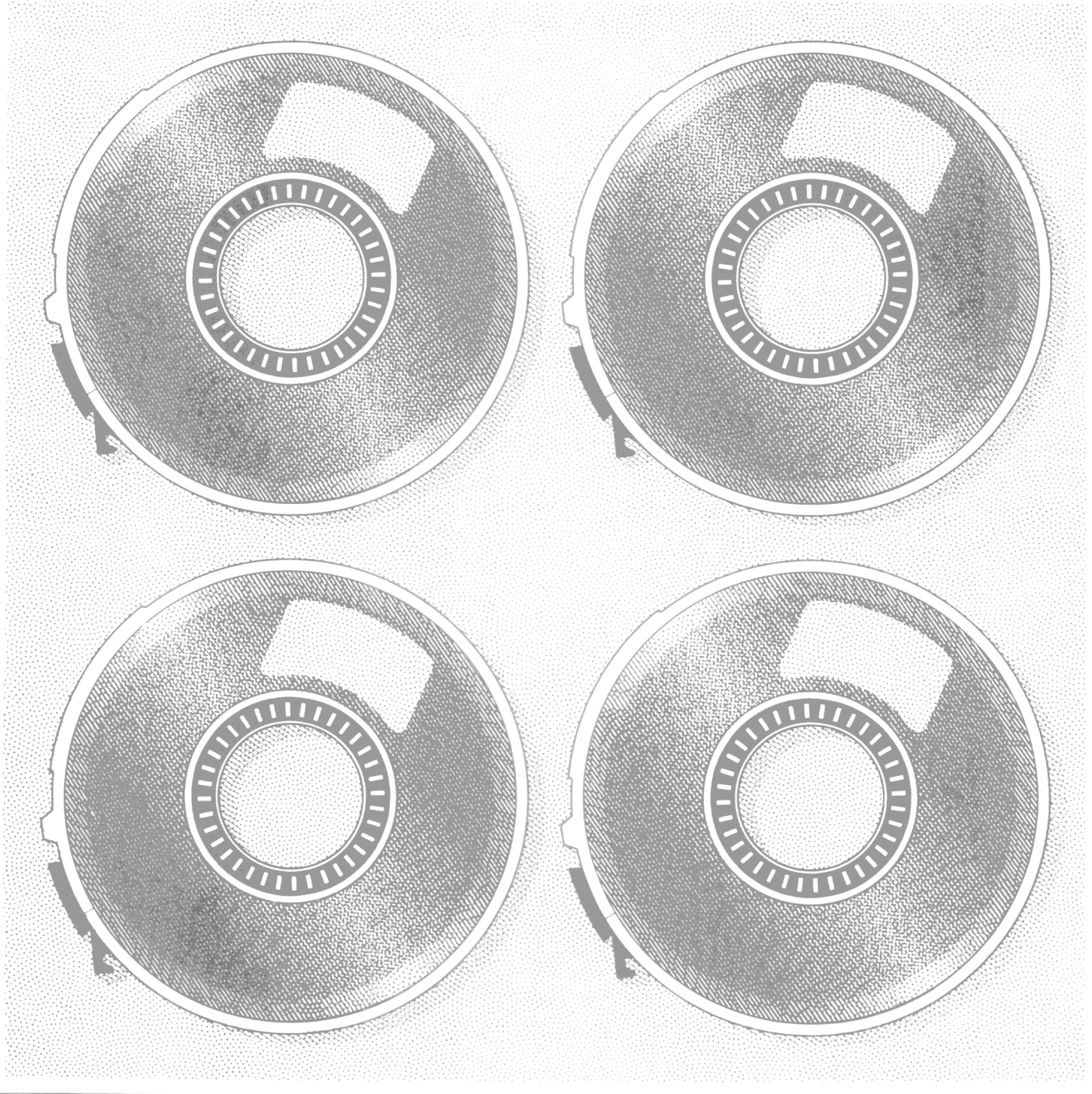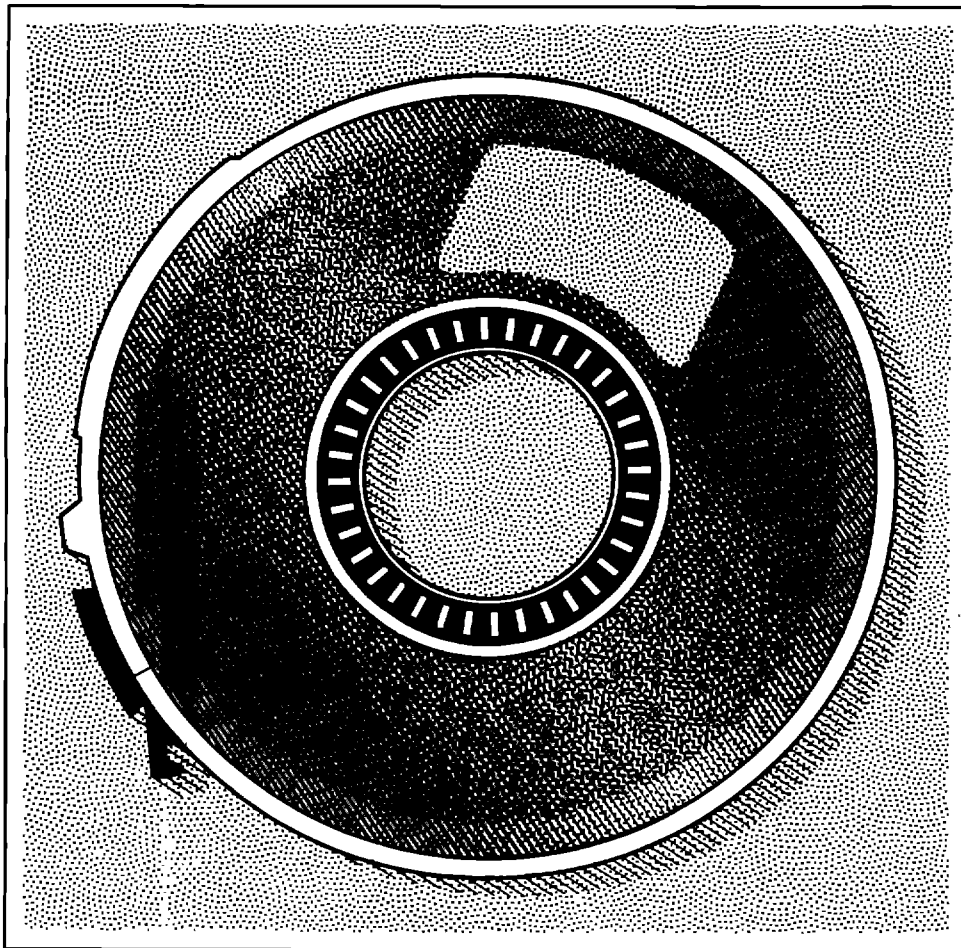
Public Use Data Tape Documentation

Dental Health
Ages 6 Months - 74 Years
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Hispanic Health and Nutrition
Examination Survey, 1982-1984

Hispanic Health and Nutrition Examination Survey

Mexican Americans
Cuban Americans
Puerto Ricans

Tape Number 6505

DENTAL HEALTH

Ages 6 Months - 74 Years

Version 2

June 1987

The Hispanic Health and Nutrition Examination Survey (HHANES) was conducted from July 1982 through December 1984. The data on the tape documented here are from all three portions of the survey:

Mexican Americans
Residing in selected counties of Texas, Colorado, New Mexico, Arizona, and California
Surveyed from July 1982 through November 1983
9,894 persons sampled; 8,554 interviewed; 7,462 examined

Cuban Americans
Residing in Dade County (Miami), Florida
Surveyed from January 1984 through April 1984
2,244 persons sampled; 1,766 interviewed; 1,357 examined

Puerto Ricans
Residing in the New York City area, including parts of New Jersey and Connecticut
Surveyed from May 1984 through December 1984
3,786 persons sampled; 3,369 interviewed; 2,834 examined

Data from the Mexican-American portion only was released previously as Version 1. Some differences between Version 1 and this version are discussed in Appendix 1.

TAPE CHARACTERISTICS

The following tape characteristics are those of the version of the tape kept at NCHS and of the tape transmitted to the National Technical Information Service for release to users:

    Tape labels: IBM standard
    Data set name: HHANES.DU650502
    Data set organization: Physical sequential
    Record format: Fixed block
    Record length: 820
    Block size: 23780
    Density: 6250 BPI
    Number of records: 11653
    Data code: EBCDIC

CAUTION

BEFORE USING THIS DATA TAPE,
PLEASE READ THIS PAGE

o   Read the accompanying description of the survey, "The Plan and
    Operation of the Hispanic Health and Nutrition Examination Survey",
    DHHS Publication No. (PHS) 85-1321 before conducting analyses of
    the data on this tape.

o   Two aspects of HHANES, especially, should be taken into account
    when conducting any analyses: the sample weights and the complex
    survey design.

o   Analyses should not be conducted on data combined from the three
    portions of the survey (Mexican-American, Cuban-American, Puerto
    Rican).

o   HHANES is a survey of Hispanic households and some of the sample
    persons included on this tape are not of Hispanic origin. A detailed
    description of the data codes dealing with national origin or ancestry
    appears in the NOTES section of this document.

o   Examine the range and frequency of values of a variable before
    conducting an analysis of data. The range may include unusual or
    unexpected values. The frequency counts may be useful to determine
    which analyses may be worthwhile.

o   Language of Interview, which may appear several places on this tape,
    can vary depending on the questionnaire (several used in the survey)
    and on whether the response was provided by the sample person or
    by a proxy.

o   For some data items, reference is made to a note. The notes (in a
    separate section of this document) may be very important in data
    analyses. Attention to them is strongly urged.

o   For some data items, the number of sample persons with a positive
    response is very small. In these instances, it may not be possible
    to produce a reliable population estimate.

This Public Use Data Tape has been edited very carefully. Numerous consistency and other checks were also performed. Nevertheless, due especially to the large number of data items, some errors may have gone undetected.

Please bring to the attention of NCHS any errors in the data tape or the documentation. Errata sheets will be sent to people who have purchased the data tapes and corrections will be made to subsequently released data tapes.

In publications, please acknowledge NCHS as the original data source. The acknowledgment should include a disclaimer crediting the authors for analyses, interpretations, and conclusions; NCHS should be cited as being responsible for only the collection and processing of the data. In addition, NCHS requests that the acronym HHANES be placed in the abstracts of journal articles and other publications based on data from this survey in order to facilitate the retrieval of such materials through automated bibliographic searches. Please send reprints of journal articles and other publications that include data from this tape to NCHS.

> Division of Health Examination Statistics
> National Center for Health Statistics
> Center Building, Room 2-58
> 3700 East-West Highway
> Hyattsville, MD 20782

Public Use Data Tapes for the Hispanic Health and Nutrition Examination Survey will be released through the National Technical Information Service (NTIS) as soon as the data have been edited, validated, and documented. A list of NCHS Public Use Data Tapes that can be purchased from NTIS may be obtained by writing the Scientific and Technical Information Branch, NCHS.

> Scientific and Technical Information Branch
> National Center for Health Statistics
> Center Building, Room 1-57
> 3700 East-West Highway
> Hyattsville, MD 20782
> 301-436-8500

CONTENTS

SECTION A. INTRODUCTION AND SURVEY DESCRIPTION

The National Center for Health Statistics (NCHS) collects, analyzes, and disseminates data on the health status of Americans. The results of surveys, analyses, and studies are made known primarily through publications and the release of computer data tapes. This document contains details required to guide programmers, statistical analysts, and research scientists in the use of a Public Use Data Tape.

From 1960 through 1980 NCHS conducted five population-based, national health examination surveys. Each survey involved collecting data by direct physical examination, the taking of a medical history, and laboratory and clinical tests and measurements. Questionnaires and examination components have been designed to obtain and support analyses of data on certain targeted conditions such as diabetes, hypertension, and anemia. Beginning with the first National Health and Nutrition Examination Survey (NHANES I) a nutrition component was added to obtain information on nutritional status and dietary practices. The numbers of Hispanics in these samples were, however, insufficient to enable adequate estimation of their health conditions. From 1982 through 1984 a Hispanic Health and Nutrition Examination Survey (HHANES) was conducted to obtain data on the health and nutritional status of three Hispanic groups: Mexican Americans from Texas, Colorado, New Mexico, Arizona, and California; Cuban Americans from Dade County, Florida; and Puerto Ricans from the New York City area, including parts of New Jersey and Connecticut.

The general structure of the HHANES sample design was similar to that of the previous National Health and Nutrition Examination Surveys. All of these studies have used complex, multistage, stratified, clustered samples of defined populations. The major difference between HHANES and the previous surveys is that HHANES was a survey of three special subgroups of the population in selected areas of the United States rather than a national probability sample. A detailed presentation of the design specifications is found in Chapter 5 of "Plan and Operation of the Hispanic Health and Nutrition Examination Survey, 1982-84" (Ref. No. 1).

Data collection began with a household interview. Several questionnaires were administered:

o   A Household Screener Questionnaire (HSQ), administered at each selected address, for determining household eligibility and for selecting sample persons.

o   A Family Questionnaire (FQ), administered once for each family containing sample persons, which included sections on family relationships, basic demographic information for sample persons and head of family, Medicare and health insurance coverage, participation in income assistance programs, and housing characteristics.

o   An Adult Sample Person Questionnaire (ASPQ), for persons 12 through 74 years which, depending on age, included sections on health status measures, health services utilization, smoking (20 through 74 years), meal program participation, and acculturation. Information on the use of medicines and vitamins in the past two weeks was also obtained.

o   A Child Sample Person Questionnaire (CSPQ), for sample persons 6 months through 11 years which included sections on a number of health status issues, health care utilization, infant feeding practices, participation in meal programs, school attendance, and language use. Information on the use of medicines and vitamins in the past two weeks was also obtained.

At the Mobile Examination Center two questionnaires were administered and an examination performed:

o   An Adult Sample Person Supplement (ASPS), for sample persons 12 through 74 years, which included sections on alcohol consumption, drug abuse, depression, smoking (12 through 19 years), pesticide exposure, and reproductive history.

o   A Dietary Questionnaire (DQ), for persons 6 months through 74 years, by which trained dietary interviewers collected information about "usual" consumption habits and dietary practices, and recorded foods consumed 24-hours prior to midnight of the interview.

o   An examination which included a variety of tests and procedures. Age at interview and other factors determined which procedures were administered to which examinees. A dentist performed a dental examination and a vision test. Technicians took blood and urine specimens and administered a glucose tolerance test, X-rays, electrocardiograms, and ultrasonographs of the gallbladder. Technicians also performed hearing tests and took a variety of body measurements. A physician performed a medical examination focusing especially on the cardiovascular, gastrointestinal, neurological, and musculoskeletal systems. The physician's impression of overall health, nutritional and weight status, and health care needs were also recorded. Some blood and urine specimen analyses were performed by technicians in the examination center; others were conducted under contract at various laboratories.

Because the HHANES sample is not a simple random one, it is necessary to incorporate sample weights for proper analysis of the data. These sample weights are a composite of individual selection probabilities, adjustments for noncoverage and nonresponse, and poststratification adjustments. The HHANES sample weights, which are necessary for the calculation of point estimates, are located on all data tapes in positions 184-213. Because of the complex sample design and the ratio adjustments used to produce the sample weights, commonly used methods of point and variance estimation and hypothesis testing which assume simple random sampling may give misleading results. In order to provide users with the capability of estimating the complex sample variances in the HHANES data, Strata and Pseudo Primary Sampling Unit (PSU) codes have been provided on all data tapes in positions 214-217. These codes and the sample weights are necessary for the calculation of variances.

There are computer programs available designed for variance estimation for complex sample designs. The balanced repeated replication approach (Ref. No. 2) is used in &REPERR and a linearization approach is used in &PSALMS to calculate variance-covariance matrixes. Both routines are available within the OSIRIS IV library (Ref. No. 3). SURREGR (Ref. No. 4) and SUPERCARP (Ref. No. 5) are programs that calculate variance-covariance matrixes using a linearization approach (Ref. No. 6) (Taylor series expansion). Another program, SESUDAAN (Ref. No. 7) calculates standard errors, variances, and design effects. (Note: This version of SESUDAAN should not be used to obtain variances for totals.) SURREGR and SESUDAAN are special procedures which run data under the SAS system (Ref. No. 8).

Even though the total number of examined persons in this survey is quite large, subclass analyses can lead to estimates that are unstable, particularly estimates of variances. Consequently, analyses of subclasses require that the user pay particular attention to the number of sample persons in the subclass and the number of PSU's that contain at least one sample person in the subclass. Small sample sizes, or a small number of PSU's used in the variance calculations, may produce unstable estimates of the variances.

A more complete discussion of these issues and possible analytic strategies for examining various hypotheses is presented in Chapter 11 of "Plan and Operation of the Hispanic Health and Nutrition Examination Survey, 1982-84" (Ref. No. 1) and in an earlier NCHS methodology (Series 2) publication (Ref. No. 9).

Some users, however, may not have access to the computer programs for estimating complex sample variances or may want to do their preliminary analyses without using them. In addition, variance estimates calculated from HHANES data through use of the programs described previously are likely to be unstable because there were so few sample areas for each portion of HHANES. This instability is not due to there being too few people in the sample but may be due to the fact that the sample was selected from relatively few areas. Therefore, the following discussion is designed to provide an alternative approach to deal with the unavailability of software and the small number of PSU's. The approach is based on using average design effects (Ref. No. 10).

The design effect, defined as the ratio of the variance of a statistic from a complex sample to the variance of the same statistic from a simple random sample of the same size, that is,

$$\text{DESIGN EFFECT (DEFF)} = \frac{\text{COMPLEX SAMPLE VARIANCE}}{\text{SIMPLE RANDOM SAMPLE VARIANCE}}$$

is often used to show the impact of the complex sample design on variances. If the design effect is near 1, the complex sample design has little effect on the variances and the user could consider assuming simple random sampling for the analysis.

Some illustrative design effects for HHANES data on this tape are given in the following tables. The design effects in the tables are the average for the age groups usually presented in NCHS Series 11 publications. If the average design effect for a subgroup was less than 1.0 (implying an improvement over simple random sampling), it was coded as 1.0.

The following guidelines were used in the calculation of the average design effects:

1. Exclude all persons of non-Hispanic origin,
2. Exclude all estimates for large age ranges, such as all ages combined or 'all adults', and
3. Exclude all estimates where the proportion of the subpopulation with the specific characteristic or condition was zero percent or one hundred percent.

Design effects tend to be larger when age groups are combined, just as they are when the sexes are combined, as shown in the tables. The data in the tables give the user an idea of the range in design effects for selected response variables from this data tape. If a response variable is not one shown in the tables take the range into account; it is possible that a user could have one of the higher, rather than one of the lower, design effects.

Average Design Effects, by Sex, for Selected Variables --
Mexican-American Portion

Variable	Mean or Proportion	Tape Positions	Both Sexes	Male	Female
Decayed Permanent Teeth	x̄	508-509	1.9	1.2	1.8
Missing Permanent Teeth	x̄	512-513	1.4	1.0	1.7
Filled Permanent Teeth	x̄	510-511	3.1	1.9	2.3
Total DMF Permanent Teeth	x̄	516-517	1.9.	1.4	1.4
Debris Index	x̄	737-739	5.3	3.1	3.4
Calculus Index	x̄	740-742	1.9	1.5	1.5
Oral Hygiene Index	x̄	743-745	3.5	1.9	2.7
Periodontal Classification, Mouth	x̄	724	3.7	2.2	2.5
Denture, Upper	p	749	1.7	1.2	1.3
Previous Orthodontic Treatment	p	747	1.8	1.2	1.4

Source: NCHS, HHANES, Mexican-American Portion, 1982-83, Tape Number 6505, Version 2.

Average Design Effects, by Sex, for Selected Variables --
Cuban-American Portion

Variable	Mean or Proportion	Tape Positions	Both Sexes	Male	Female
Decayed Permanent Teeth	x̄	508-509	1.1	1.2	1.0
Missing Permanent Teeth	x̄	512-513	1.0	1.2	1.1
Filled Permanent Teeth	x̄	510-511	1.0	1.1	1.0
Total DMF Permanent Teeth	x̄	516-517	1.0	1.4	1.2
Debris Index	x̄	737-739	1.3	1.5	1.4
Calculus Index	x̄	740-742	1.0	1.0	1.0
Oral Hygiene Index	x̄	743-745	1.0	1.5	1.0
Periodontal Classification, Mouth	x̄	724	1.1	1.1	1.3
Denture, Upper	p	749	1.3	1.1	1.8
Previous Orthodontic Treatment	p	747	1.0	1.0	1.0

Source: NCHS, HHANES, Cuban-American Portion, 1982-83, Tape Number 6505, Version 2.

Average Design Effects, by Sex, for Selected Variables --
Puerto Rican Portion

Variable	Mean or Proportion	Tape Positions	Both Sexes	Male	Female
Decayed Permanent Teeth	$\bar{x}$	508-509	1.6	1.3	1.5
Missing Permanent Teeth	$\bar{x}$	512-513	2.6	2.0	1.9
Filled Permanent Teeth	$\bar{x}$	510-511	2.2	1.7	1.5
Total DMF Permanent Teeth	$\bar{x}$	516-517	1.8	1.7	1.3
Debris Index	$\bar{x}$	737-739	2.3	1.6	1.9
Calculus Index	$\bar{x}$	740-742	2.1	1.7	1.7
Oral Hygiene Index	$\bar{x}$	743-745	2.5	1.9	1.9
Periodontal Classification, Mouth	$\bar{x}$	724	2.0	1.8	1.6
Denture, Upper	p	749	1.1	1.4	1.1
Previous Orthodontic Treatment	p	747	2.7	1.4	2.6

Source: NCHS, HHANES, Puerto Rican Portion, 1982-83, Tape Number 6505, Version 2.

Suppose, for example, that there were 250 Mexican-American females ages 55-64 years in the sample. Suppose, also, that 8.4 percent of them had an upper denture and their average number of decayed permanent teeth was 4.3.

Assuming simple random sampling, the variance for the percent is calculated by converting the percent to a proportion and using the standard formula for the variance of a proportion,

$$V = \frac{pq}{n}$$

This variance (V) multiplied by the design effect (DEFF) provides an estimate of the variance from a complex sample of the same sample size (n). In the example above,

$$V = \frac{(.084)\,(.916)}{250}$$

$$= .0003 = \text{variance for a simple random sample}$$

Then, multiplying by the design effect,

$$= (.0003)\,(1.3)$$

$$= .00039 = \text{estimated variance for the complex sample}$$

In a similar way, the complex sample variance of the average number of decayed permanent teeth is determined by multiplying the simple random sample variance of the mean by the appropriate design effect -- in this example, 1.8.

The user can then proceed with estimating confidence intervals and testing hypotheses in the usual manner.

The user should recognize that this approach does not incorporate the variance covariance matrix. In most cases, this leads to a slight overestimate of the variance because the covariance terms, which are subtracted in the variance of a ratio, in general are positive. Thus, in a borderline case, the null hypothesis would be less likely to be rejected (Ref. No. 11).

Alternative or better approaches may exist or be developed. Users who want to suggest such approaches, or who want the latest information should contact the Scientific and Technical Information Branch (address given in the beginning of this documentation).

SECTION B. DATA COLLECTION AND PROCESSING PROCEDURES

Data presented in Sections E through H and the family relationships data in Section J were collected on the Household Screener and Family Questionnaires. Data presented in Section K were collected on the Adult Sample Person Questionnaire. Data presented in Section L were collected on the Child Sample Person Questionnaire. These interview schedules were administered in sample persons' households. Completed interview schedules were reviewed in the Survey's field offices and again at the data processing center of NCHS by clerical editors. The editors checked the forms for completeness, clarity, and compliance with skip patterns, and they coded items such as industry and occupation. At the data processing center the questionnaires were keyed and verified on key-to-disk data entry equipment under the control of programs that checked for valid codes and ranges, compliance with skip patterns, and consistency. After being keyed, data were reedited by analysts for reasonableness and consistency and for compliance with instructions for sampling and questionnaire administration.

The general tape description format is Tape Position X Item X Counts. The item (field) may be a tape descriptor (e.g. Version Number), a sample person descriptor (e.g. Age at Interview), or a question (e.g. Is sample person covered by Medicare?). Where appropriate, data entries are presented by codes. Frequency counts are given for each code. The counts are included to help the user in planning analyses and in verifying that programs account for all data. The data source is given also (e.g., from Family Questionnaire). In some cases, a note is referenced. The notes contain explanations of the item (e.g. how Poverty Index is calculated).

The questionnaire data have undergone many quality control and editing procedures. The responses of sample persons to some questions may appear extreme or illogical. Self-reported data, especially, are subject to a number of sources of variability, including recall and other reporting errors. In the data clean-up process, responses that varied considerably from expected were verified through direct review of the collection form or a copy of it. Such responses may not represent fact, but they are included as recorded in the field. The user must determine if these responses should be included in analyses.

Responses to "other" and "specify" were recoded to existing categories, if possible. For responses that could not be recoded, new code categories were created if the information was deemed analytically useful. Caution should be used in interpreting the data from these new categories because there is no way of knowing which other respondents would have selected one of the new categories if given the option.

For the adult sample person questionnaires there are three codes for missing information: 7's, 8's, and blanks. In a few questions, 7's were used when the question was not applicable. A code "8", which is labeled as "blank but applicable", is used to indicate that a sample person should have a data value for a particular item but for varying reasons that value is unavailable. Blanks were used to follow skip patterns, i.e., when a question was not supposed to be asked or was not applicable. The "don't know" codes (9, 99, 999) were used only when given as a printed response on the original questionnaire.

Copies of the questionnaires, both in English and Spanish, can be found in the plan and operation report for HHANES (Ref. No. 1). Detailed information on interviewing procedures is contained in the household interviewer's manual (Ref. No. 12) and the mobile examination center interviewer's manual (Ref. No. 13). These manuals are available upon request from:

Division of Health Examination Statistics
National Center for Health Statistics
Center Building, Room 2-58
3700 East-West Highway
Hyattsville, MD 20782
301-436-7080

Dental examinations and the recording of results were the responsibility of a dentist and a health technician who were employees of contractors to NCHS (Westat and Development Associates). Thorough training was given to these professionals to assure standardized adherence to survey design procedures. Specific information and detailed procedures were provided the dental examiners and technicians in a "Dental Examiners Manual." The information in this section has been abstracted from that manual. It is on file at NCHS (Ref. No. 11). Part of it, "DMF and df Index", is reproduced in Appendix 2. In it are the criteria for diagnosing caries as well as missing and filled teeth.

Each Mobile Examination Center also had, as part of its professional team, a coordinator who, among other duties, facilitated sample person flow through the center. The dentist or recorder would go to the coordinator's station to receive the next sample person scheduled for a dental and vision exam (also conducted by the dentist) and bring him or her to the examination room. There the sample person's name and identification number, as well as the time of day, were entered into a Dental and Vision Exam Log. Upon completion of the examinations, the recorder or dentist recorded the time of day and checked off those forms that were completed before returning the sample person to the coordinator's station.

The dentist, on examining the sample person, would call out findings to the recorder (health technician) for entry on the Dental Examination Form (DEF). The meanings of these calls are described on the following pages. After the calls were completed the recorder would edit the form for consistency and completeness and the dentist would verify that the calls were correctly recorded. The DEF was a specially designed optical scanning form. Completed DEF's were sent to the National Institute of Dental Research (NIDR) where they were scanned and placed on magnetic tape. Staff from NIDR performed most of the data editing and validation.

The order of the examination was as follows:

Periodontal Index
Oral Hygiene Index
Orthodontic Treatment Calls
Severe Malocclusion Index
Edentulous Arches/Denture Status Index
Surface Status, Tooth Status
Treatment Need

Periodontal Index

In performing the examination the dentist would start by calling findings to complete the Periodontal Index portion of the Dental Examination Form. The procedure followed was that developed by Russell (Ref. No. 14). Starting with the Central Incisor of the Upper Left Quadrant, the dentist made calls on all teeth in that quadrant followed by those in the Upper Right, Lower Left, and Lower Right Quadrants.

Codes:

0 = No positive findings. There is neither overt inflammation in the investing tissues nor loss of function due to destruction of supporting tissues.

1 = Mild gingivitis. There is an overt area of inflammation in the free gingivae, but the area does not circumscribe the tooth.

2 = Gingivitis. Inflammation completely circumscribes the tooth; but there is is no apparent break in the epithelial attachment.

6 = Gingivitis with pocket formation. The epithelial attachment has been broken and there is a pocket (not merely a deepened gingival crevice due to swelling in the free gingivae). There is no interference with normal masticatory function. The tooth is firm in its socket and has not drifted.

8 = Advanced destruction with loss of masticatory function. The tooth may be loose, may have drifted, or may sound dull on percussion with a metallic instrument.

9 = Tooth missing or not recorded.

Investigations after data collection showed that the way periodontal scores were recorded will not allow analysis of data for individual teeth. Periodontal data are therefore presented only by arch, and scores for individual teeth are not included in this file.

Oral Hygiene Index

Next the dentist gave calls for the Oral Hygiene Index. The procedure followed was that developed by Green (Ref. No. 15). The dentist made one pass through the mouth giving a debris call and a calculus call for each of these target teeth (primary molars in children, permanent molars in adults):

Upper Left First Molar (if missing, the Upper Left Second Molar)
Upper Right Central Incisor (if missing, the Upper Left Central Incisor)
Upper Right First Molar (if missing, the Upper Right Second Molar)
Lower Left First Molar (if missing, the Lower Left Second Molar)
Lower Left Central Incisor (if missing, the Lower Right Central Incisor)
Lower Right First Molar (if missing, the Lower Right Second Molar)

Oral hygiene was recorded on primary or permanent teeth if any target tooth for the index was erupted into the occlusal plane. The primary molars are the first and second bicuspids. The target permanent molars are those shown above; however, third molars were used in some cases when neither of the other molars was present. Lateral incisors were also used in some cases when neither central incisor was present. Oral hygiene may not have been scored if orthodontic bands were present, or if all target teeth were badly decayed with loss of anatomy or were missing. Examination for oral hygiene was not conducted on persons with a history of rheumatic heart disease or rheumatic fever.

There are five records in the file having oral hygiene codes for areas in the mouth in which the status of all target teeth is shown as code 9, missing for unknown reason. Because this code is also used for teeth not recorded on the Dental Examination Form, and because the presence of periodontal scores or treatment needs suggests that target teeth were present, the reported oral hygiene scores for these records remain in this file. Analysts should be aware that for these five records it is not possible to define correspondence between target tooth status codes and oral hygiene scores.

Codes for Oral Debris:

0 = No debris or stain present. (None)
1 = Soft debris covering not more than the gingival third of the tooth surface OR the presence of extrinsic stains without debris regardless of surface area covered. (1/3)
2 = Soft debris covering more than one-third but not more than two-thirds of the exposed tooth surface. (2/3)
3 = Soft debris covering more than two-thirds of the exposed tooth surface. (2/3+)
9 = Not scored: missing teeth, badly decayed teeth with loss of anatomy, or teeth with orthodontic bands; or persons with a history of rheumatic fever or rheumatic heart disease. (NA)

Codes for Oral Calculus:

0 = No calculus present. (None)
1 = Supragingival calculus covering not more than one-third of the exposed tooth surface. (1/3)
2 = Supragingival calculus covering more than one-third but not more than two-thirds of the exposed tooth surface, OR when individual flecks of subgingival calculus are present around the cervical portion of the tooth. (2/3)
3 = Supragingival calculus covering more than two-thirds of the exposed tooth surface OR a continuous heavy band of subgingival calculus around the cervical portion of the tooth. (2/3+)
9 = Not scored: missing teeth, badly decayed teeth with loss of anatomy, or teeth with orthodontic bands; or persons with a history of rheumatic fever or rheumatic heart disease. (NA)

Orthodontic Treatment Calls

The dental examiner determined if orthodontic treatment was in progress or had been previously performed. The procedure followed was that of NIDR. Each examinee was asked if he or she had ever had his or her teeth straightened or had bands put on them.

A record for a child one year old having twelve primary teeth present shows orthodontics in progress. Because the original Dental Examination Form for this child verifies that orthodontics in progress was recorded, the data have not been changed.

Codes for Orthodontic Treatment in Progress:

1 = Yes
3 = No
9 = Not recorded

Codes for Previous Orthodontic Treatment:

1 = Yes
3 = No
5 = Don't know
9 = Not recorded

Severe Malocclusion Index

The dentist called out whether the sample person had severe malocclusion.

Codes for Severe Malocclusion:

1 = Yes
3 = No
9 = Not recorded

Edentulous Arches/Denture Status Index

If the sample person was missing all teeth from the upper arch or lower arch, or both arches, the examiner gave a call for the Edentulous Arches/Denture Status Index. No call was given for an arch if the sample person had any teeth in it. For a denture to be deemed defective, there had to be visible evidence that it was causing extensive destruction of the primary stress-bearing areas of the ridge or palate. Tissue in these areas may have been acutely inflammed, bone resorption may have occurred, and hypertrophied tissue may have been present. The denture was also defective if it was in the possession of the examinee at the time of the examination but not in the mouth.

Codes for Upper Arch:

0 = Teeth present or predentulous
1 = Denture absent
3 = Denture present
5 = Defective denture present
9 = Not recorded

Codes for Lower Arch:

0 = Teeth present or predentulous
1 = Denture absent
3 = Denture present
5 = Defective denture present
9 = Not recorded

Surface Status and Tooth Status

The dentist examined each tooth (of 32 possible teeth) to determine the condition of its surfaces (Surface Status) and its overall status (Tooth Status). These findings provided the DMF (Decayed Missing Filled) data. Analysts should be aware that teeth in edentulous arches were usually not marked on the Dental Examination Form. These teeth appear in the file as code 9, missing for non-carious or unknown reasons, for both surface status and tooth status. In predentulous records, primary teeth appear as code 0, unerupted primary teeth, while molars appear as code 4, unerupted permanent teeth.

Teeth Examined*	Surfaces Examined*

Central Incisor (CI) Lingual (L) = towards the tongue
Lateral Incisor (LI) Buccal (B) = outside, away from the tongue
Cuspid (C)   Mesial (M) = facing front of mouth
First Bicuspid (FB) Distal (D) = facing the back of mouth
Second Bicuspid (SB) Occlusal (O) = biting surface
First Molar (FM)
Second Molar (SM)
Third Molar (TM)

* Abbreviations used in tables of findings

Surface Status Codes:

0 = Unerupted primary surface (this code is used in predentulous records only; unerupted surfaces in other records are coded as unerupted permanent.)
1 = Sound primary surface
2 = Decayed primary surface
3 = Filled primary surface without decay (coded 2 if decay present)
4 = Unerupted permanent surface
5 = Sound permanent surface
6 = Decayed permanent surface
7 = Filled permanent surface (coded 6 if decay present)
8 = Missing permanent surface because of caries
9 = Missing permanent surface for non-carious or unknown reason. This code is also used for surfaces not recorded on the Dental Examination Form.
Blank = Occlusal surface of incisor or cuspid

Tooth Status Codes:

0 = Unerupted primary tooth (this code is used in predentulous records only; unerupted teeth in other records are coded as unerupted permanent.)
1 = Sound primary tooth
2 = Decayed primary tooth
3 = Filled primary tooth without decay (coded 2 if decay present)
4 = Unerupted permanent tooth
5 = Sound permanent tooth
6 = Decayed permanent tooth
7 = Filled permanent tooth (coded 6 if decay present)
8 = Missing permanent tooth because of caries
9 = Missing permanent tooth for non-carious or unknown reason. This code is also used for teeth not recorded on the Dental Examination Form.

Treatment Needs

Need for treatment was assessed following the procedure developed by NIDR (Dental Restorative Treatment Need Index).

Codes:

00 = No treatment needed
10 = One 1-surface restoration needed
19 = One 1-surface restoration AND root canal or other pulpal treatment needed
20 = One 2-surface restoration needed; OR two 1-surface restorations needed
29 = Two surface restorations AND root canal or other pulpal treatment needed
30 = One 3-surface restoration needed; OR one 2-surface restoration and one 1-surface restoration needed; OR three 1-surface restorations needed
39 = Three surface restorations AND root canal or other pulpal treatment needed
40 = More than three surfaces need restoration, but not a crown
49 = More than three surface restorations AND root canal or other pulpal treatment needed
50 = Extraction of primary tooth
60 = Extraction of permanent tooth
70 = Crown (primary or permanent)
80 = Tooth replacement needed (when permanent tooth already missing and replacement needed)
90 = Root canal or other pulpal treatment needed
68 = Extraction of permanent tooth and replacement needed
79 = Pulpal treatment and a crown needed
99 = Not recorded

For some teeth, the code for treatment need appears to be inconsistent with the codes for tooth and surface status. While the intentions of the examiner are not obvious, the reported codes have not been changed. Data analysts should be aware that these apparent inconsistencies are present in this file.

SECTION C. REFERENCES

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SECTION D. TAPE POSITION INDEX

TAPE POSITIONS 1-400 contain data categories common to all data tapes: sociodemographic data, family composition, family income, residence and household. Sample weights are also in this set of data.

TAPE POSITIONS 401+ contain data categories unique to this data tape.

SOCIODEMOGRAPHIC DATA - SAMPLE PERSON (SECTION E)

1-5	Sample Person Sequence Number
6-15	Survey and Tape Identifiers
16	Examination Status
17	Language of Interview
18-21	Date of Interview
22-25	Date of Examination
26-29	Date of Birth
30-32	Age at Interview
33-38	Age at Examination
39-43	Family Number
44-45	Relationship to Head of Family
46	Sex
47	Race
48-49	National Origin or Ancestry
50-52	Birth Place
53	National Origin Recode
54-56	Education
57	Marital Status
58	Service in Armed Forces
59-69	Work/Occupation/Employment
70-95	Health Insurance/Health Care Support
96-99	Income Assistance/Public Compensation or Support

SOCIODEMOGRAPHIC DATA - HEAD OF FAMILY (SECTION F)

100	Interview and Examination Status
102-105	Date of Birth
106-108	Age at Interview
109	Sex
110	Race
111-112	National Origin or Ancestry
113-115	Birth Place
116-118	Education
119	Marital Status
120	Service in Armed Forces
121-131	Work/Occupation/Employment

FAMILY COMPOSITION AND INCOME DATA (SECTION G)

132-133	Number of People in Family
134-135	Number of Sample People in Family
136-138	Combined Family Income
139-143	Per Capita Income
144-146	Poverty Index
147-162	Income, Food Stamps

RESIDENCE AND HOUSEHOLD DATA (SECTION H)

163	Size of Place
164	Standard Metropolitan Statistical Area
165-166	Number of People in Household
167-168	Number of Sample People in Household
169-170	Number of Rooms
171	Kitchen Facilities Access
172-183	Heating/Cooling Equipment

SAMPLE WEIGHTS (SECTION I)

184-189	Examination Final Weight
190-195	Interview Final Weight
196-201	GTT/Ultrasound Weight
202-207	Audiometry/Vision Weight
208-213	Pesticide Weight
214-215	Strata Code
216-217	Pseudo PSU Code

FAMILY RELATIONSHIPS (SECTION J)

218-400	Data not yet available

ADULT DENTAL HISTORY DATA (SECTION K)

406	Subsample Indicator - Child/Adult
407	Trouble Biting or Chewing
408-409	Self-described Condition of Teeth and Gums
410-412	When/Why Last Visit to Dentist or Dental Hygienist
413-415	Teeth Cleaning by Dental Hygienist
416	Dental Insurance

CHILD DENTAL HISTORY DATA (SECTION L)

422	Subsample Indicator - Adult/Child
423	Age First Visit for Dental Care
424	When Last Visit for Dental Care
425	How Often Visit for Dental Care
426	Fluoride Treatment
427-428	Fluoride Program at School
429	Dental Insurance

DENTAL EXAMINATION DATA (SECTION M)

430-433	Tape Number
435	Dental Examination Form (DEF) Missing
436-438	Examiner Number
439	Teeth Present Code
440-520	Tooth Counts by Condition (including DMFT, DMFS)
521-680	Surface Codes, Each Tooth
681-712	Tooth (Caries) Status Codes, Each Tooth
713-721	Computed Periodontal Index
722-724	Computed Periodontal Classification
725-736	Oral Hygiene Index Scores, Target Teeth
737-745	Computed Oral Hygiene Index
746-747	Orthodontic Treatment
748	Severe Malocclusion
749-750	Denture Status
751-814	Treatment Need Codes, Each Tooth

Position	Item description and code	Counts M	C	P	Source and notes

SECTION E. SOCIODEMOGRAPHIC DATA - SAMPLE PERSON (POS 1-99)

Source: Family Questionnaire (FQ)
Household Screener Questionnaire (HSQ)

Position	Item description and code	M	C	P	Source and notes
1-5	**Sample person sequence number**				
	00001-09894 Mexican Americans	7462	-	-	
	10002-12238 Cuban Americans	-	1357	-	
	13001-16785 Puerto Ricans	-	-	2834	
6-12	**Blank**				
13	**Portion of survey**				
	1 Mexican-American (M)	7462	-	-	
	2 Cuban-American (C)	-	1357	-	
	3 Puerto Rican (P)	-	-	2834	
14	**Family Questionnaire missing**				
	1 Yes	21	6	10	See Note 1
	2 No	7441	1351	2824	
15	**Version number**				
	2	7462	1357	2834	
16	**Examination status**				
	1 Examined	7462	1357	2834	See Note 2
	2 Not examined	0	0	0	
17	**Language of interview (Pos. 1-400)**				FQ
	1 English	4513	244	1229	
	2 Spanish	2929	1107	1595	
	Blank	20	6	10	
	Date of interview				HSQ 4
18-19	01-12 Month	7462	1357	2834	
20-21	82-84 Year	7462	1357	2834	
	Date of examination From survey control record				
22-23	01-12 Month	7462	1357	2834	
24-25	82-84 Year	7462	1357	2834	
	Date of birth				HSQ 2e
26-27	01-12 Month	7462	1357	2834	
	88 Blank but applicable	0	0	0	
28-29	08-84 Year	7462	1357	2834	
	88 Blank but applicable	0	0	0	
30-31	**Age at interview (computed)**				
	01-74 (See next column for units)	7462	1357	2834	
32	**Age at interview units**				HSQ 2f
	1 Years	7342	1349	2796	
	2 Months	120	8	38	

Position	Item description and code	M	Counts C	P	Source and notes
	Age at examination (computed) Positions 33-38 are all 0 for non-examined persons.				
33-34	00-75 Years	7462	1357	2834	
35-36	00-11 Months	7462	1357	2834	
37-38	00-30 Days	7462	1357	2834	
39-43	**Family number**				See Note 3
	00002-03529	7462	-	-	
	04005-04922	-	1357	-	
	07001-08584	-₄	-	2834	
44-45	**What is sample person's relationship to head of family? Sample person is:**				HSQ 2b See Note 4
	01 Head of family living alone (1 family with only 1 member)	145	56	113	
	02 Head of family, with no related persons in household (2+ persons in household)	76	23	24	
	03 Head of family, with related persons in household	1582	369	678	
	04 Wife of head (husband living at home and not in Armed Forces)	1299	300	296	
	05 Wife of head (husband living at home and is in Armed Forces)	5	0	0	
	06 Husband of head (wife living at home and not in Armed Forces)	35	12	37	
	07 Husband of head (wife living at home and is in Armed Forces)	0	0	0	
	08 Child of head or head's spouse	3769	484	1437	
	09 Grandchild of head or head's spouse	217	32	115	
	10 Parent of head or head's spouse	57	35	33	
	11 Other relative (includes ex-spouse, daughter-in-law, etc.)	273	46	101	
	12 Foster child	4	0	0	
46	**Sex**				FQ B-4
	1 Male	3516	636	1237	
	2 Female	3946	721	1597	
47	**Observed race**				FQ B-5 See Note 5
	1 White	7213	1300	2462	
	2 Black	76	15	152	
	3 Other	8	3	73	
	8 Blank but applicable	72	15	59	
	9 Not observed	72	18	78	
	Blank	21	6	10	
48-49	**Sample person's national origin or ancestry.**				HSQ 2c See Note 6
	01 Mexican/Mexicano	1641	1	1	
	02 Mexican-American	5202	0	0	
	03 Chicano	102	0	0	
	04 Puerto Rican	7	3	2596	
	05 Boricuan	0	0	36	
	06 Cuban	4	1069	20	
	07 Cuban-American	0	222	0	
	08 Hispano - specify	150	14	26	
	09 Other Latin-American or other Spanish - specify	37	18	41	
	00 Other - specify	276	30	114	
	10 Spanish-American	22	0	0	
	11 Spanish (Spain)	21	0	0	

Position	Item description and code	M	Counts C	P	Source and notes
50-52	**In what state or foreign country was sample person born?**				FQ B-6
					See Note 7
	001-118 State/country code	7403	1345	2771	
	888 Blank but applicable	38	6	53	
	Blank	21	6	10	
53	**National origin recode**				See Note 8
	"Hispanic" = Mexican-American in Southwest, Cuban-American in Florida and Puerto Rican in New York City area.				
	1 "Hispanic"	7197	1291	2645	
	2 Not "Hispanic"	265	66	189	
54-55	**What is the highest grade or year of regular school sample person has ever attended?**				FQ B-7
	00 Never attended or kindergarten only	1476	116	446	
	01-08 Elementary grade	3118	556	1090	
	09-12 High school grade	2119	400	1011	
	13-16 College	581	243	225	
	17 Graduate school	70	30	14	
	88 Blank but applicable	77	6	38	
	Blank	21	6	10	
56	**Did sample person finish that grade/year?**				FQ B-8
	1 Yes	3938	853	1436	
	2 No	1934	368	861	
	8 Blank but applicable	93	14	81	
	Blank	1497	122	456	
57	**Is sample person now married, widowed, divorced, separated or has he or she never been married?**				FQ B-9
	0 Under 14 years of age	2953	297	1000	
	1 Married - spouse in household	2600	632	660	
	2 Married - spouse not in household	70	17	54	
	3 Widowed	161	50	66	
	4 Divorced	214	92	155	
	5 Separated	159	21	149	
	6 Never married	1265	241	730	
	8 Blank but applicable	19	1	10	
	Blank	21	6	10	
58	**Did sample person ever serve in the Armed Forces of the United States?**				FQ B-11
	1 Yes	416	27	145	
	2 No	3557	952	1409	
	8 Blank but applicable	7	3	14	
	Blank	3482	375	1266	
59	**During the past 2 weeks, did sample person work at any time at a job or business, not counting work around the house?**				FQ B-12
	1 Yes	2210	622	613	
	2 No	1751	349	930	
	8 Blank but applicable	19	11	25	
	Blank	3482	375	1266	

Position	Item description and code	M	Counts C	P	Source and notes
60	Even though sample person did not work during those 2 weeks, did he or she have a job or business?				FQ B-13
	1 Yes	46	13	23	
	2 No	1704	334	902	
	8 Blank but applicable	20	13	30	
	Blank	5692	997	1879	
61	Was sample person looking for work or on layoff from a job?				FQ B-14
	1 Yes	217	43	60	
	2 No	1533	304	865	
	8 Blank but applicable	20	13	30	
	Blank	5692	997	1879	
62	Which, looking for work or on layoff from a job or both?				FQ B-15
	1 Looking	146	34	44	
	2 Layoff	46	6	8	
	3 Both	23	2	7	
	8 Blank but applicable	22	14	31	
	Blank	7225	1301	2744	
63-65	What kind of business or industry does sample person work for?				FQ B-19 See Note 9
	010-932 Industry code	2429	665	681	
	990 Blank but applicable	49	18	37	
	Blank	4984	674	2116	
66-68	What kind of work was sample person doing?				FQ B-20 See Note 9
	003-889 Occupation code	2432	666	681	
	999 Blank but applicable	46	17	37	
	Blank	4984	674	2116	
69	Class of worker				FQ B-22
	1 An employee of a private company, business or individual for wages, salary, or commission	1912	543	551	
	2 A Federal government employee	74	6	21	
	3 A State government employee	124	19	17	
	4 A Local government employee	169	17	56	
	5 Self-employed in own incorporated business or professional practice	17	12	7	
	6 Self-employed in own unincorporated business, professional practice, or farm	131	67	27	
	7 Working without pay in family business or farm	3	0	0	
	8 Blank but applicable	46	18	38	
	0 Never worked or never worked at a full-time civilian job lasting 2 weeks or more	2	1	1	
	Blank	4984	674	2116	
70	Is sample person now covered by Medicare?				FQ C-2
	1 Covered	303	107	139	
	2 Not covered	7129	1237	2674	
	8 Blank but applicable	6	6	11	
	9 Don't know	3	1	0	
	Blank	21	6	10	

Position	Item description and code	M	Counts C	P	Source and notes
71	Is sample person now covered by the part of Social Security Medicare which pays for hospital bills?				FQ C-3
	1 Yes	270	100	124	
	2 No	18	4	5	
	8 Blank but applicable	15	6	20	
	9 Don't know	6	3	1	
	Blank	7153	1244	2684	
72	Is sample person now covered by that part of Medicare which pays for doctor's bills? This is the Medicare plan for which he or she or some agency must pay a certain amount each month.				FQ C-4
	1 Yes	269	100	111	
	2 No	17	5	17	
	8 Blank but applicable	15	6	20	
	9 Don't know	8	2	2	
	Blank	7153	1244	2684	
73	Type of Medicare coverage As shown on Medicare card				FQ C-5
	1 Hospital	0	0	0	
	2 Medical	2	0	0	
	3 Card not available	3	0	2	
	4 Hospital and medical	5	3	0	
	8 Blank but applicable	15	6	20	
	Blank	7437	1348	2812	

HEALTH INSURANCE   See Note 10

Position	Item description and code	M	Counts C	P	Source and notes
74	Is sample person covered by any health insurance plan which pays any part of a hospital, doctor's, or surgeon's bill?				FQ C-11
	1 Yes	4094	818	1011	
	2 No	3326	526	1796	
	8 Blank but applicable	13	7	16	
	9 Don't know	8	0	1	
	Blank	21	6	10	
75	Is sample person covered by a plan that pays any part of hospital expenses?				FQ C-9
	1 Yes	4039	806	955	
	2 No	6	7	9	
	8 Blank but applicable	54	12	55	
	9 Don't know	8	0	8	
	Blank	3355	532	1807	
76	Is sample person covered by a plan that pays any part of a doctor's or surgeon's bills for operations?				FQ C-10
	1 Yes	4034	804	945	
	2 No	22	11	28	
	8 Blank but applicable	36	10	35	
	9 Don't know	15	0	19	
	Blank	3355	532	1807	

Position	Item description and code	Counts M	C	P	Source and notes

	Many people do not carry health insurance for various reasons. Which of these statements describes why sample person is not covered by any health insurance (or Medicare)? (Positions 77-80)				FQ C-13/15 See Note 10
77-78	**Main reason**				
	01 Care received through Medicaid or welfare	267	31	854	
	02 Unemployed, or reasons related to unemployment	350	40	114	
	03 Can't obtain insurance because of poor health, illness, or age	24	2	15	
	04 Too expensive, can't afford health insurance	1767	280	506	
	05 Dissatisfied with previous insurance	50	3	3	
	06 Don't believe in insurance	31	4	8	
	07 Have been healthy, not much sickness in the family, haven't needed health insurance	206	23	31	
	08 Military dependent, (CHAMPUS), Veteran's benefits	45	1	15	
	09 Some other reason - not specified	2	0	7	
	10 Some other reason - specified	255	35	58	
	88 Blank but applicable	118	34	77	
	Blank	4347	904	1146	
79-80	**Second reason**				
	00 No second reason reported	2573	339	1374	
	01 Care received through Medicaid or welfare	70	17	58	
	02 Unemployed, or reasons related to unemployment	109	30	30	
	03 Can't obtain insurance because of poor health, illness, or age	4	2	3	
	04 Too expensive, can't afford health insurance	168	20	132	
	05 Dissatisfied with previous insurance	15	1	2	
	06 Don't believe in insurance	18	3	3	
	07 Have been healthy, not much sickness in the family, haven't needed health insurance	47	4	8	
	08 Military dependent, (CHAMPUS), Veteran's benefits	0	0	2	
	09 Some other reason - not specified	0	0	0	
	10 Some other reason - specified	25	8	7	
	88 Blank but applicable	86	29	69	
	Blank	4347	904	1146	
81-87	**Blank**				
88	**During the last 12 months, has sample person received health care which has been or will be paid for by Medicaid?**				FQ D-6
	1 Yes	537	101	1076	
	2 No	6859	1242	1708	
	8 Blank but applicable	45	7	40	
	9 Don't know	0	1	0	
	Blank	21	6	10	

Position	Item description and code	M	Counts C	P	Source and notes
89	**Does sample person have a Medicaid card?**				FQ D-8
	1 Yes	530	104	1144	
	2 No	6872	1232	1647	
	8 Blank but applicable	39	15	33	
	9 Don't know	0	0	0	
	Blank	21	6	10	
90	**Status of sample person's Medicaid card?**				FQ D-9
	1 Medicaid card seen - current	382	84	832	
	2 Medicaid card seen - expired	7	0	12	
	3 No card seen	128	17	274	
	4 Other card seen	0	0	0	
	5 Other card seen (specify)	5	0	2	
	8 Blank but applicable	47	18	57	
	Blank	6893	1238	1657	
91	**Is sample person now covered by any other public assistance program that pays for health care?**				FQ D-11
	1 Yes	54	2	29	
	2 No	7376	1348	2780	
	8 Blank but applicable	11	1	15	
	9 Don't know	0	0	0	
	Blank	21	6	10	
92	**Does sample person now receive military retirement payments from any branch of the Armed Forces or a pension from the Veteran's Administration? Do not include VA disability compensation.**				FQ D-13
	1 Yes	56	4	9	
	2 No	7373	1346	2806	
	8 Blank but applicable	12	1	9	
	9 Don't know	0	0	0	
	Blank	21	6	10	
93	**Which does sample person receive; the Armed Forces retirement, the VA pension, or both?**				FQ D-14
	1 Armed Forces	16	0	2	
	2 Veteran's Administration	30	0	5	
	3 Both	4	4	1	
	8 Blank but applicable	18	1	10	
	Blank	7394	1352	2816	
94	**Is sample person now covered by CHAMP-VA, which is medical insurance for dependents or survivors of disabled veterans?**				FQ D-16
	1 Yes	45	4	10	
	2 No	7388	1346	2808	
	8 Blank but applicable	8	1	6	
	9 Don't know	0	0	0	
	Blank	21	6	10	
95	**Is sample person now covered by any other program that provides health care for military dependents or survivors of military persons?**				FQ D-18
	1 Yes	41	4	8	
	2 No	7387	1346	2804	
	8 Blank but applicable	13	1	12	
	9 Don't know	0	0	0	
	Blank	21	6	10	

Position	Item description and code	M	Counts C	P	Source and notes
96	**Is sample person included in the AFDC, "Aid to Families with Dependent Children", assistance payment?**				FQ D-2
	1 Yes	394	39	650	
	2 No	7020	1304	2134	
	8 Blank but applicable	27	6	39	
	9 Don't know	0	2	1	
	Blank	21	6	10	
97	**Does sample person now receive the "Supplemental Security Income" or "SSI" gold-colored check?**				FQ D-4
	1 Yes	131	44	135	
	2 No	7285	1295	2659	
	8 Blank but applicable	25	12	30	
	9 Don't know	0	0	0	
	Blank	21	6	10	
98	**Does sample person have a disability related to his or her service in the Armed Forces of the United States?**				FQ D-20
	1 Yes	48	2	14	
	2 No	346	20	108	
	8 Blank but applicable	29	8	37	
	Blank	7039	1327	2675	
99	**Does sample person now receive compensation for this disability from the Veteran's Administration?**				FQ D-21
	1 Yes	31	1	9	
	2 No	17	1	4	
	8 Blank but applicable	29	8	38	
	Blank	7385	1347	2783	

Position	Item description and code		Counts M	C	P	Source and notes

SECTION F. SOCIODEMOGRAPHIC DATA - HEAD OF FAMILY (POS 100-131)

Source: Family Questionnaire (FQ)
Household Screener Questionnaire (HSQ)

Position	Item description and code		M	C	P	Source and notes
100	**Interview and examination status of head of family**					See Note 4
	1	Selected as sample person, interviewed on Adult Sample Person Questionnaire, and examined	5523	1076	2098	
	2	Selected as sample person, interviewed on Adult Sample Person Questionnaire, but not examined	338	62	79	
	3	Selected as sample person, not interviewed, and not examined	218	34	23	
	4	Not selected as sample person	1362	179	624	
	Blank		21	6	10	
101	**Blank**					
	Date of birth					HSQ 2e
102-103	01-12	Month	7413	1348	2830	
	88	Blank but applicable	49	9	4	
104-105	00-86, 89-99	Year	7440	1353	2832	
	88	Blank but applicable	22	4	2	
106-107	**Age at interview**					
	17-95	Years	7462	1357	2834	
108	**Blank**					
109	**Sex**					FQ B-4
	1	Male	5982	1069	1331	
	2	Female	1460	282	1493	
	Blank		20	6	10	
110	**Observed race**					FQ B-5 See Note 5
	1	White	7138	1282	2511	
	2	Black	75	27	165	
	3	Other	6	3	58	
	8	Blank but applicable	106	31	59	
	9	Not observed	117	8	31	
	Blank		20	6	10	
111-112	**Head of family's national origin or ancestry.**					HSQ 2c See Note 6
	01	Mexican/Mexicano	2068	0	3	
	02	Mexican-American	4523	0	0	
	03	Chicano	97	0	0	
	04	Puerto Rican	19	7	2503	
	05	Boricuan	0	0	29	
	06	Cuban	6	1197	46	
	07	Cuban-American	0	85	2	
	08	Hispano - specify	147	20	37	
	09	Other Latin-American or other Spanish - specify	54	17	39	
	00	Other - specify	513	31	175	
	10	Spanish-American	17	0	0	
	11	Spanish (Spain)	18	0	0	

Position	Item description and code		Counts		Source and notes
		M	C	P	
113-115	In what state or foreign country was head of family born?				FQ B-6 See Note 7
	001-118 State/country code	7362	1331	2762	
	888 Blank but applicable	80	20	62	
	Blank	20	6	10	
116-117	What is the highest grade or year of regular school head of family has ever attended?				FQ B-7
	00 Never attended or kindergarten only	250	7	35	
	01-08 Elementary grade	2959	511	889	
	09-12 High school grade	2896	411	1445	
	13-16 College	1002	336	363	
	17 Graduate school	170	57	41	
	88 Blank but applicable	165	29	51	
	Blank	20	6	10	
118	Did head of family finish that grade/year?				FQ B-8
	1 Yes	5710	1171	2210	
	2 No	1316	137	492	
	8 Blank but applicable	166	36	87	
	Blank	270	13	45	
119	Is the head of family now married, widowed, divorced, separated or has he or she never been married?				FQ B-9
	0 Under 14	0	0	0	
	1 Married - spouse in household	5706	1059	1295	
	2 Married - spouse not in household	129	9	129	
	3 Widowed	333	48	133	
	4 Divorced	492	136	376	
	5 Separated	388	28	452	
	6 Never married	320	56	418	
	8 Blank but applicable	74	15	21	
	Blank	20	6	10	
120	Did head of family ever serve in the Armed Forces of the United States?				FQ B-11
	1 Yes	1478	64	383	
	2 No	5883	1265	2400	
	8 Blank but applicable	81	22	41	
	Blank	20	6	10	
121	During the past 2 weeks, did head of family work at any time at a job or business, not counting work around the house?				FQ B-12
	1 Yes	5443	1019	1283	
	2 No	1923	305	1504	
	8 Blank but applicable	76	27	37	
	Blank	20	6	10	
122	Even though head of family did not work during those 2 weeks, did he or she have a job or business?				FQ B-13
	1 Yes	101	19	28	
	2 No	1822	286	1476	
	8 Blank but applicable	76	27	37	
	Blank	5463	1025	1293	

Position	Item description and code	Counts M	C	P	Source and notes
123	Was head of family looking for work or on layoff from a job?				FQ B-14
	1 Yes	510	61	118	
	2 No	1413	244	1384	
	8 Blank but applicable	76	27	39	
	Blank	5463	1025	1293	
124	Which, looking for work or on layoff from a job or both?				FQ B-15
	1 Looking	270	43	69	
	2 Layoff	151	12	26	
	3 Both	85	3	17	
	8 Blank but applicable	80	30	45	
	Blank	6876	1269	2677	
125-127	What kind of business or industry does head of family work for?				FQ B-19 See Note 9
	010-932 Industry code	5980	1080	1395	
	990 Blank but applicable	118	28	62	
	Blank	1364	249	1377	
128-130	What kind of work was head of family doing?				FQ B-20 See Note 9
	003-889 Occupation code	5988	1080	1391	
	999 Blank but applicable	110	28	66	
	Blank	1364	249	1377	
131	Class of worker				FQ B-22
	1 Employee of a private company, business or individual for wages, salary, or commission	4702	842	1058	
	2 A Federal government employee	219	4	45	
	3 A State government employee	246	12	54	
	4 A Local government employee	359	22	169	
	5 Self-employed in own incorporated business or professional practice	49	25	14	
	6 Self-employed in own unincorporated business, professional practice, or farm	420	171	56	
	7 Working without pay in family business or farm	0	0	0	
	8 Blank but applicable	99	32	60	
	0 Never worked or never worked at a full-time civilian job lasting 2 weeks or more	4	0	1	
	Blank	1364	249	1377	

Position	Item description and code	M	Counts C	P	Source and notes

SECTION G. FAMILY COMPOSITION AND INCOME DATA (POS 132-162)
Source: Family Questionnaire (FQ)

Position	Item description and code	M	C	P	Source and notes
132-133	**Number of persons in family** (computed) 01-18 Persons	7462	1357	2834	
134-135	**Number of sample persons in family** (computed) 01-13 Persons	7462	1357	2834	
136	**Was the total combined family income during the past 12 months more or less than $20,000?** Include money from jobs, Social Security, retirement income, unemployment payments, public assistance, and so forth. Also include income net from interest, dividends, income from business, farm or rent, and any other money income received.				FQ E-10
	1 $20,000 or more	2353	536	578	
	2 Less than $20,000	4856	795	2193	
	7 Refused information	31	1	7	
	8 Blank but applicable	202	19	46	
	Blank	20	6	10	
137-138	**Of those income groups, which best represents the total combined family income during the past 12 months?** Include wages, salaries, and other items we just talked about. (in dollars)				FQ E-11
	01 Less than 1,000	40	8	7	
	02 1,000 - 1,999	107	10	33	
	03 2,000 - 2,999	143	25	68	
	04 3,000 - 3,999	182	28	132	
	05 4,000 - 4,999	184	34	250	
	06 5,000 - 5,999	234	45	202	
	07 6,000 - 6,999	312	35	213	
	08 7,000 - 7,999	314	46	169	
	09 8,000 - 8,999	284	42	106	
	10 9,000 - 9,999	263	52	125	
	11 10,000 - 10,999	282	72	139	
	12 11,000 - 11,999	250	47	75	
	13 12,000 - 12,999	296	54	100	
	14 13,000 - 13,999	186	32	64	
	15 14,000 - 14,999	254	25	66	
	16 15,000 - 15,999	208	36	77	
	17 16,000 - 16,999	209	34	51	
	18 17,000 - 17,999	231	37	66	
	19 18,000 - 18,999	333	28	82	
	20 19,000 - 19,999	240	55	79	
	21 20,000 - 24,999	694	148	152	
	22 25,000 - 29,999	585	83	124	
	23 30,000 - 34,999	358	78	92	
	24 35,000 - 39,999	257	64	43	
	25 40,000 - 44,999	192	48	36	
	26 45,000 - 49,999	84	43	30	
	27 50,000 and over	107	55	54	
	77 Refused information	76	10	43	
	88 Blank but applicable	537	77	146	
	Blank	20	6	10	

Position	Item description and code	Counts			Source and notes
		M	C	P	
139-143	**Per capita income** (computed)				See Note 11
	00083-50000 Dollars	6829	1264	2636	
	88888 Blank but applicable	613	87	189	
	Blank	20	6	9	
144-146	**Poverty index** (computed)				See Note 12
	Decimal not shown on tape.				
	0.04-9.78	6829	1264	2636	
	999 Blank but applicable	613	87	189	
	Blank	20	6	9	
147	·**Did any member of this family receive any Government food stamps in any of the past 12 months?**				FQ E-12
	1 Yes	1651	234	1344	
	2 No	5783	1115	1474	
	8 Blank but applicable	8	2	6	
	Blank	20	6	10	
148-149	**In how many months of the past 12 months did any member of this family receive food stamps?**				FQ E-13
	01-12 Months	1631	234	1335	
	88 Blank but applicable	28	2	15	
	Blank	5803	1121	1484	
150	**Did this family receive any government food stamps last month?**				FQ E-14
	1 Yes	1345	187	1290	
	2 No	303	47	50	
	8 Blank but applicable	11	2	10	
	Blank	5803	1121	1484	
151-152	**In which month did any member of this family last receive food stamps?**				FQ E-15
	01-12 Month	298	47	50	
	88 Blank but applicable	16	2	10	
	Blank	7148	1308	2774	
153-154	**For how many persons were those food stamps authorized?**				FQ E-16
	01-13 Persons	1641	234	1337	
	88 Blank but applicable	18	2	13	
	Blank	5803	1121	1484	
155-157	**What was the total face value of those food stamps received by this family in that month?**				FQ E-17
	010-520 Dollars	1567	230	1325	
	888 Blank but applicable	92	6	25	
	Blank	5803	1121	1484	
158	**Did this family spend more for food in that month than the value of your food stamps?**				FQ E-18
	1 Yes	1405	194	1279	
	2 No	231	40	64	
	8 Blank but applicable	23	2	7	
	Blank	5803	1121	1484	

Position	Item description and code	Counts M	C	P	Source and notes
159-161	**How much more?**				FQ E-19
	003-880 Dollars	1314	182	1258	
	888 Blank but applicable	114	14	28	
	Blank	6034	1161	1548	
162	**Is your family receiving food stamps at the present time?**				FQ E-20
	1 Yes	1273	175	1269	
	2 No	6153	1171	1542	
	8 Blank but applicable	16	5	13	
	Blank	20	6	10	

Position	Item description and code	M	Counts C	P	Source and notes

SECTION H. RESIDENCE AND HOUSEHOLD DATA (POS 163-183)
Source: Family Questionnaire (FQ)
Household Screener Questionnaire (HSQ)

Position	Item description and code	M	C	P	Source and notes
163	**Size of place**				See Note 13
	1 1 million or more	1049	0	2070	
	2 500,000 - 999,999	844	0	0	
	3 250,000 - 499,999	884	467	0	
	4 100,000 - 249,999	203	364	368	
	5 50,000 - 99,999	1277	70	76	
	6 25,000 - 49,999	785	205	216	
	7 10,000 - 24,999	746	120	79	
	8 200 - 9,999	1003	88	24	
	9 Not in a place	671	43	1	
164	**Standard Metropolitan Statistical Area**				See Note 13
	1 In SMSA, in central city	3707	467	2465	
	2 In SMSA, not in central city	2854	890	369	
	4 Not in SMSA	901	0	0	
165-166	**Number of persons in household**				HSQ 1a
	01-18 Persons	7462	1357	2834	
167-168	**Number of sample persons in household** (computed)				
	01-13 Persons	7462	1357	2834	
169-170	**How many rooms are in this home? Count the kitchen, but not the bathroom.**				FQ E-1
	01-14 Rooms	7433	1350	2816	
	88 Blank but applicable	9	1	8	
	Blank	20	6	10	
171	**Do you have access to complete kitchen facilities in this home; that is, a kitchen sink with piped water, a refrigerator and a range or cookstove?**				FQ E-2
	1 Yes	7136	1315	2548	
	2 No	83	10	18	
	8 Blank but applicable	223	26	258	
	Blank	20	6	10	
172-173	**What is the main fuel used for heating this home?**				FQ E-3 See Note 14
	00 No fuel used	538	231	16	
	01 Oil	4	0	1988	
	02 Natural gas	5955	78	718	
	03 Electricity	604	1027	37	
	04 Bottled gas (propane)	174	2	0	
	05 Kerosene	13	3	0	
	06 Wood	98	3	0	
	07 Coal	0	0	14	
	08 Other, not specified	0	0	2	
	09 Other, specified	11	0	8	
	88 Blank but applicable	45	7	41	
	Blank	20	6	10	

Position	Item description and code		M	Counts C	P	Source and notes
174-175	**What is the main heating equipment for this home?**					FQ E-4 See Note 14
	00	No heating equipment used	538	231	20	
	01	Steam or hot water with radiators or convectors	44	5	1450	
	02	Central warm air furnace with ducts to individual rooms, or central heat pump	2677	542	180	
	03	Built-in electric units (permanently installed in wall, ceiling, or baseboard)	474	323	63	
	04	Floor, wall or pipeless furnace	1598	46	21	
	05	Room heaters <u>with</u> flue or vent, burning oil, gas, or kerosene	805	17	596	
	06	Room heaters <u>without</u> flue or vent, burning oil, gas, or kerosene	847	6	425	
	07	Heating stove burning wood, coal or coke	88	0	9	
	08	Fireplace(s)	91	4	0	
	09	Portable electric heater(s)	139	137	4	
	10	Other, not specified	0	0	0	
	11	Other, specified	114	35	16	
	88	Blank but applicable	1	5	23	
	99	Don't know	26	0	17	
	Blank		20	6	10	
176-177	**Are any other types of equipment used for heating this home?**					FQ E-5 See Note 14
	00	No other heating equipment used	6057	1073	2350	
	01	Steam or hot water with radiators or convectors	0	0	13	
	02	Central warm air furnace with ducts to individual rooms, or central heat pump	11	15	7	
	03	Built-in electric units (permanently installed in wall, ceiling, or baseboard)	24	0	2	
	04	Floor, wall or pipeless furnace	11	0	0	
	05	Room heaters <u>with</u> flue or vent, burning oil, gas, or kerosene	22	0	3	
	06	Room heaters <u>without</u> flue or vent, burning oil, gas, or kerosene	22	1	29	
	07	Heating stove burning wood, coal or coke	70	0	8	
	08	Fireplace(s)	449	8	9	
	09	Portable electric heater(s)	186	18	351	
	10	Other, not specified	4	2	3	
	11	Other, specified	18	2	4	
	88	Blank but applicable	30	1	25	
	Blank		558	237	30	
178-179	**What is the main fuel used by this additional equipment?**					FQ E-6 See Note 14
	00	No fuel used	2	0	2	
	01	Oil	0	0	20	
	02	Natural gas	96	2	27	
	03	Electricity	214	35	345	
	04	Bottled gas (propane)	9	0	1	
	05	Kerosene	2	0	25	
	06	Wood	471	8	11	
	07	Coal	2	0	0	
	08	Other, not specified	0	0	0	
	09	Other, specified	7	0	0	
	88	Blank but applicable	44	2	23	
	Blank		6615	1310	2380	

Position	Item description and code	Counts M	C	P	Source and notes
180-181	**What is the main fuel used for cooking in this home?**				FQ E-7
	00 No fuel used	21	4	4	
	01 Oil	14	0	31	
	02 Natural gas	5899	253	2603	
	03 Electricity	1295	1083	148	
	04 Bottled gas (propane)	182	8	12	
	05 Kerosene	0	0	3	
	06 Wood	0	0	0	
	07 Coal	0	0	0	
	08 Other, not specified	0	0	0	
	09 Other, specified	14	1	0	
	88 Blank but applicable	17	2	23	
	Blank	20	6	10	
182	**Do you have air-conditioning - either individual room units, a central system or evaporative cooling?**				FQ E-8
	1 Yes	3583	1254	653	
	2 No	3845	96	2153	
	8 Blank but applicable	14	1	18	
	Blank	20	6	10	
183	**Which do you have?**				FQ E-9
	1 Individual room unit	1625	583	613	
	2 Central air-conditioning	1233	660	22	
	3 Evaporative cooling	719	6	10	
	8 Blank but applicable	20	6	26	
	Blank	3865	102	2163	

Position	Item description and code	M	Counts C	P	Source and notes

SECTION I. SAMPLE WEIGHTS (POS 184-217)

Position	Item description and code	M	C	P
184-189	**Examined final weight**			
	000439-002711	7462	-	-
	000223-000891	-	1357	-
	000177-002000	-	-	2834
190-195	**Interview final weight**			
	000447-002096	74624	-	-
	000176-000604	-	1357	-
	000175-001220	-	-	2834

GTT/ULTRASOUND, AUDIOMETRY/VISION, PESTICIDE WEIGHTS
By design. only some of the persons in the sample were included in the
GTT/ultrasound, audiometry/vision, and pesticide components of the survey.
Tape positions for those persons not part of these subsamples are BLANK.

Position	Item description and code	M	C	P
196-201	**GTT/ultrasound weight**			
	000843-005302	1777	-	-
	000469-001685	-	449	-
	000349-003110	-	-	667
	Blank	5685	908	2167
202-207	**Audiometry/vision weight**			
	000507-006283	4431	-	-
	000223-001600	-	804	-
	000264-003123	-	-	1759
	Blank	3031	553	1075
208-213	**Pesticide weight**			
	000872-005584	2465	-	-
	000441-001600	-	568	-
	000343-003117	-	-	1012
	Blank	4997	789	1822
214-215	**Strata code**			
	01-08	7462	1357	2834
216-217	**Pseudo PSU code**			
	01-02	7462	1357	2834

Position	Item description and code	M	Counts C	P	Source and notes

SECTION J. FAMILY RELATIONSHIPS (POS 218-400)
Source: Adult Sample Person Questionnaire
Family Questionnaire

218-400   **Blank**
Data not yet available.

Position	Item description and code	Counts M	C	P	Source and notes

SECTION K. ADULT DENTAL HISTORY DATA (POS 401-416)

Source: Adult Sample Person Questionnaire (ASPQ)
          (Age 12-74 Years)

401-405   **Blank**

POSITIONS 406-416 CONTAIN SELECTED INTERVIEW DATA FOR
ADOLESCENTS AND ADULTS AGES 12-74 YEARS. THIS DATA IS ALSO
FOUND ON HHANES DATA TAPE NUMBER 6521 (ADOLESCENT AND ADULT
HISTORY QUESTIONNAIRE).

Position	Item description and code	M	C	P	Source and notes
406	**Subsample Indicator - Child/Adult**				
	0 Child. 6 months-11 years	2550	237	845	
	1 Adult. 12-74 years	1	0	0	
	Positions 407-416 are blank.				
	2 Adult. 12-74 years	4911	1120	1988	
	Positions 407-416 contain				
	questionnaire data.				
407	**Do you have trouble biting or chewing any** **kinds of food such as firm meats or apples?**				ASPQ B-12
	1 Yes	862	145	296	
	2 No	4044	975	1682	
	8 Blank but applicable	5	0	10	
	Blank	2551	237	846	
408	**How would you describe the condition of your** **teeth: excellent, very good, good, fair or** **poor?**				ASPQ B-13
	1 Excellent	395	151	210	
	2 Very Good	556	113	246	
	3 Good	1405	290	541	
	4 Fair	1518	310	623	
	5 Poor	815	164	254	
	6 Has no teeth	220	88	111	
	8 Blank but applicable	2	4	3	
	Blank	2551	237	846	
409	**How would you describe the condition of your** **gums: excellent, very good, good, fair or** **poor?**				ASPQ B-14
	1 Excellent	495	223	293	
	2 Very Good	686	154	298	
	3 Good	2181	526	807	
	4 Fair	1177	170	453	
	5 Poor	362	41	135	
	8 Blank but applicable	10	6	2	
	Blank	2551	237	846	
410	**About how long has it been since you** **last saw a dentist or dental hygienist** **for dental care?**				ASPQ B-15
	1 6 months ago or less	1188	351	703	
	2 Over 6 months to 12 months	787	204	378	
	3 Over 12 months to 2 years	799	208	349	
	4 Over 2 years to 5 years	916	211	302	
	5 More than 5 years	739	129	216	
	6 Never	461	16	28	
	8 Blank but applicable	2	0	0	
	9 Don't know	19	1	12	
	Blank	2551	237	846	

Position	Item description and code	M	Counts C	P	Source and notes
411-412	**What was the main reason for your last visit for dental care?**				ASPQ B-16
	01 Regular checkup	745	.259	617	
	02 For cleaning teeth	820	190	279	
	03 To have teeth filled	902	231	295	
	04 Trouble with gums	59	16	54	
	05 To have teeth pulled or other surgery (including root canal)	1099	196	357	
	06 Toothache	147	30	103	
	07 Adjustment or repair of dental plate	153	45	90	
	08 To have a dental plate made	229	96	108	
	09 For a prescription	0	1	0	
	11 Some other reason, specified and unspecified	273	39	54	
	88 Blank but applicable	23	1	3	
	Blank	3012	253	874	
413	**Have you ever had your teeth cleaned by a dentist or dental hygienist?**				ASPQ B-17
	1 Yes	2518	779	1436	
	2 No	1111	135	241	
	8 Blank but applicable	1	0	4	
	Blank	3832	443	1153	
414	**When was the last time they were cleaned?**				ASPQ B-18
	1 6 months ago or less	552	156	435	
	2 Over 6 months to 12 months	435	153	270	
	3 Over 12 months to 2 years	479	155	264	
	4 Over 2 years to 5 years	610	187	269	
	5 More than 5 years	427	123	184	
	8 Blank but applicable	6	2	6	
	9 Don't know	10	3	12	
	Blank	4943	578	1394	
415	**During the past 2 years, how many times have you had your teeth cleaned by a dentist or dental hygienist?**				ASPQ B-19
	0 None	98	23	30	
	1 Once	969	279	531	
	2 Twice	699	200	426	
	3 Three times	185	58	98	
	4 Four or more times	285	85	145	
	8 Blank but applicable	27	2	5	
	9 Don't know	29	9	19	
	Blank	5170	701	1580	
416	**Are you covered by health insurance that pays for dental care?**				ASPQ B-20
	1 Yes	1725	297	836	
	2 No	3104	803	1116	
	8 Blank but applicable	3	1	6	
	9 Don't know	79	19	30	
	Blank	2551	237	846	

Position	Item description and code		Counts		Source and notes
		M	C	P	

SECTION L. CHILD DENTAL HISTORY DATA (POS 417-429)

Source: Child Sample Person Questionnaire (CSPQ)
(Age 6 months-11 years)

417-421   Blank

POSITIONS 422-429 CONTAIN SELECTED INTERVIEW DATA FOR
CHILDREN AGES 6 MONTHS THROUGH 11 YEARS. THIS DATA IS
ALSO FOUND ON HHANES DATA TAPE NUMBER 6522 (CHILD HISTORY
QUESTIONNAIRE).

		M	C	P	
422	**Subsample Indicator - Adult/Child**				
	0 Adult. 12-74 years	4912	1120	1989	
	Positions 423-429 are blank.				
	2 Child. 6 months-11 years	2550	237	845	
	Positions 423-429 contain				
	questionnaire data.				
423	**How old was the sample person when he or she first saw someone for dental care?**				CSPQ C-1
	1 Under 4 yrs. old	351	23	175	
	2 4 yrs. old or older	859	81	324	
	3 Never	1334	133	341	
	8 Blank but applicable	1	0	0	
	9 Don't know	5	0	5	
	Blank	4912	1120	1989	
424.	**About how long has it been since the sample person last saw someone for dental care?**				CSPQ C-2
	1 6 months ago or less	465	46	266	
	2 Over 6 mos. to 12 mos.	267	22	131	
	3 Over 12 mos. to 2 yrs.	253	18	74	
	4 Over 2 yrs. to 5 yrs.	189	14	27	
	5 More than 5 yrs.	24	3	2	
	8 Blank but applicable	6	0	0	
	9 Don't know	12	1	4	
	Blank	6246	1253	2330	
425	**On the average, about how many times a year does the sample person see someone for dental care?**				CSPQ C-3
	1 Less than once a year	75	8	32	
	2 Once	289	27	195	
	3 Twice	245	20	164	
	4 3 or more times	59	9	24	
	5 No regular schedule	538	38	63	
	8 Blank but applicable	6	0	1	
	9 Don't know	4	2	5	
	Blank	6246	1253	2330	
426	**Has the sample person ever received fluoride treatments that were applied to his or her teeth during a visit to a dentist or someone else he or she saw for dental care?**				CSPQ C-4
	1 Yes	565	53	243	
	2 No	541	47	227	
	8 Blank but applicable	8	0	1	
	9 Don't know	102	4	33	
	Blank	6246	1253	2330	

Position	Item description and code	M	Counts C	P	Source and notes
	ATTENTION: POSITIONS 427-428 ONLY FOR CHILDREN 5-11 YEARS OF AGE.				
427	**Does the sample person go to school?**				CSPQ C-6
	1 Yes	1458	142	475	
	2 No	63	2	22	
	8 Blank but applicable	0	0	1	
	Blank	5941	1213	2336	
428	**Does the sample person participate in a fluoride program at school? This is a program in which fluoride tablets or rinses are given to children to use at school.**				CSPQ C-7
	1 Yes	596	30	95	
	2 No	705	99	307	
	8 Blank but applicable	8	1	9	
	9 Don't know	149	12	65	
	Blank	6004	1215	2358	
429	**Is the sample person covered by health insurance that pays for dental care?**				CSPQ C-8
	1 Yes	982	74	373	
	2 No	1529	159	464	
	8 Blank but applicable	2	0	1	
	9 Don't know	37	4	7	
	Blank	4912	1120	1889	

Position	Item description and code	Counts			Source and notes
		M	C	P	

SECTION M. DENTAL EXAMINATION DATA (POS 430-814)
Source: Dental Examination Form (DEF)

430-433	**Tape Number**				
	6505	7462	1357	2834	
434	**Blank**				
435	**Dental Examination Form (DEF) Missing**				
	1 Examined sample person for whom no DEF was received. Positions 435-814 are blank.	222	17	67	
	2 Examined sample person for whom a DEF was received and dental data are present.	7240	1340	2767	
436-438	**Examiner Number**				
	550 Examiner coded 550	3477	665	45	
	551 Examiner coded 551	3617	675	1378	
	553 Examiner coded 553	146	0	166	
	556 Examiner coded 556	0	0	1178	
	Blank	222	17	67	
439	**Teeth Present Code** (computed)				
	0 Teeth present in mouth	7015	1253	2663	
	1 No teeth present in mouth	200	85	92	
	2 Predentulous	25	2	12	
	Blank	222	17	67	
440-466	**Tooth Counts - Upper Arch** (computed) Each count is the sum of certain tooth Status Codes. The numbers in parentheses identify those codes (defined at Position 681).				
440-441	**Unerupted Deciduous Teeth (0)** Coded only in predentulous records.				
	00 Not predentulous, upper arch	7215	1338	2755	
	10 Predentulous, upper arch (ten unerupted, deciduous, upper teeth)	25	2	12	
	Blank	222	17	67	
442-443	**Present Deciduous Teeth (1,2,3)** Sound, decayed, or filled primaries.				
	00-10 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
444-445	**Decayed deciduous teeth (2)** Primary teeth having any decay.				
	00-10 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
446-447	**Filled Deciduous Teeth (3)** Filled primary teeth without decay.				
	00-09 Upper teeth	7240	1340	2767	
	Blank	222	17	67	

Position	Item description and code		Counts		Source and notes
		M	C	P	
448-449	**Unerupted Permanent Teeth (4)** Except for predentulous records, all unerupted teeth, primary or permanent, are coded as unerupted permanent teeth.				
	00-16 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
450-451	**Total Permanent Teeth Present (5,6,7)** Sound, decayed, and filled permanent teeth.				
	00-16 Upper teeth	7240	1340	· 2767	
	Blank	222	17	67	
452-453	**Sound Permanent Teeth (5)** Permanent teeth without fillings or decay.				
	00-16 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
454-455	**Decayed Permanent Teeth (6)** Permanent teeth having any decay.				
	00-13 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
456-457	**Filled Permanent Teeth (7)** Filled permanent teeth without decay.				
	00-16 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
458-459	**Permanent Teeth Missing Because of Caries (8)**				
	00-16 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
460-461	**Permanent Teeth Missing for Non-Carious or Unknown Reasons (9)** This count includes all teeth that were not recorded on the Dental Examination Form as well as teeth recorded as missing for non-carious reasons.				
	00-16 Upper teeth	7240	1340	2767	
	Blank	222	17	67	
462-463	**Total Decayed, Missing, and Filled Permanent Teeth (DMFT) (6,7,8)** This count does not include teeth missing for unknown or non-carious reasons and teeth not coded on the Dental Examination Form. Therefore, edentulous arches in adults may have DMFT scores of 0, not 16.				
	00-16 Upper teeth .	7240	1340	2767	
	Blank	222	17	67	
464-466	**Total Decayed, Missing, and Filled Permanent Tooth Surfaces (DMFS) (Surface codes 6,7,8)** This count does not include teeth missing for unknown or non-carious reasons and teeth not coded on the Dental Examination Form. Therefore, edentulous arches in adults may have DMFS scores of 0, not 74.				
	000-074 Upper surfaces	7240	1340	2767	
	Blank	222	17	67	

Position	Item description and code	Counts			Source and notes
		M	C	P	
467-493	**Tooth Counts - Lower Arch** Each count is the sum of certain tooth Status Codes. The numbers in parentheses identify those codes (defined at Position 681).				Computed
467-468	**Unerupted Deciduous Teeth (0)** Coded only in predentulous records. 00 Not predentulous, lower arch 10 Predentulous, lower arch (ten unerupted, deciduous, lower teeth) Blank	 7215 25 222	 1338 2 17	 2755 12 67	
469-470	**Present Deciduous Teeth (1,2,3)** Sound, decayed, or filled primaries. 00-10 Lower teeth Blank	 7240 222	 1340 17	 2767 67	
471-472	**Decayed Deciduous Teeth (2)** Primary teeth having any decay. 00-09 Lower teeth Blank	 7240 222	 1340 17	 2767 67	
473-474	**Filled Deciduous Teeth (3)** Filled primary teeth without decay. 00-08 Lower teeth Blank	 7240 222	 1340 17	 2767 67	
475-476	**Unerupted Permanent Teeth (4)** Except for predentulous records, all unerupted teeth, primary or permanent, are coded as unerupted permanent teeth. 00-16 Lower teeth Blank	 7240 222	 1340 17	 2767 67	
477-478	**Total Permanent Teeth Present (5,6,7)** Sound, decayed, and filled permanent teeth. 00-16 Lower teeth Blank	 7240 222	 1340 17	 2767 67	
479-480	**Sound Permanent Teeth (5)** Permanent teeth without fillings or decay. 00-16 Lower teeth Blank	 7240 222	 1340 17	 2767 67	
481-482	**Decayed Permanent Teeth (6)** Permanent teeth having any decay. 00-13 Lower teeth Blank	 7240 222	 1340 17	 2767 67	
483-484	**Filled Permanent Teeth (7)** Filled permanent teeth without decay. 00-13 Lower teeth Blank	 7240 222	 1340 17	 2767 67	

Position	Item description and code	Counts M	C	P	Source and notes
485-486	**Permanent Teeth Missing Because of Caries (8)**				
	00-16 Lower teeth	7240	1340	2767	
	Blank	222	17	67	
487-488	**Permanent Teeth Missing for Non-Carious or Unknown Reasons (9)**				
	This count includes all teeth that were not recorded on the Dental Examination Form as well as teeth recorded as missing for non-carious reasons.				
	00-16 Lower teeth	7240	1340	2767	
	Blank	222	17	67	
489-490	**Total Decayed, Missing, and Filled Permanent Teeth (DMFT) (6,7,8)**				
	This count does not include teeth missing for unknown or non-carious reasons and teeth not coded on the Dental Examination Form. Therefore, edentulous arches in adults may have DMFT scores of 0, not 16.				
	00-16 Lower teeth	7240	1340	2767	
	Blank	222	17	67	
491-493	**Total Decayed, Missing, and Filled Permanent Tooth Surfaces (DMFS) (Surface codes 6,7,8)**				
	This count does not include teeth missing for unknown or non-carious reasons and teeth not coded on the Dental Examination Form. Therefore, edentulous arches in adults may have DMFS scores of 0, not 74.				
	000-074 Lower surfaces	7240	1340	2767	
	Blank	222	17	67	
494-520	**Tooth Counts - Both Arches** (computed)				
	Each count is the sum of certain tooth Status Codes The numbers in parentheses identify those codes (defined at Position 681).				
494-495	**Unerupted Deciduous Teeth (0)**				
	Coded only in predentulous records.				
	00 Not predentulous	7215	1338	2755	
	20 Predentulous	25	2	12	
	Blank	222	17	67	
496-497	**Present Deciduous Teeth (1,2,3)**				
	Sound, decayed, or filled primaries.				
	00-20 Teeth	7240	1340	2767	
	Blank	222	17	67	
498-499	**Decayed Deciduous Teeth (2)**				
	Primary teeth having any decay.				
	00-19 Teeth	7240	1340	2767	
	Blank	222	17	67	
500-501	**Filled Deciduous Teeth (3)**				
	Filled primary teeth without decay.				
	00-13 Teeth	7240	1340	2767	
	Blank	222	17	67	

Position	Item description and code	Counts M	C	P	Source and notes
502-503	**Unerupted Permanent Teeth (4)** Except for predentulous records, all unerupted teeth, primary or permanent, are coded as unerupted permanent teeth.				
	00-31 Teeth	7240	1340	2767	
	Blank	222	17	67	
504-505	**Total Permanent Teeth Present (5,6,7)** Sound, decayed, and filled permanent teeth.				
	00-32 Teeth	7240	1340	2767	
	Blank	222	17	67	
506-507	**Sound Permanent Teeth (5)** Permanent teeth without fillings or decay.				
	00-32 Teeth	7240	1340	2767	
	Blank	222	17	67	
508-509	**Decayed Permanent Teeth (6)** Permanent teeth having any decay.				
	00-24 Teeth	7240	1340	2767	
	Blank	222	17	67	
510-511	**Filled Permanent Teeth (7)** Filled permanent teeth without decay.				
	00-29 Teeth	7240	1340	2767	
	Blank	222	17	67	
512-513	**Permanent Teeth Missing Because of Caries (8)**				
	00-28 Teeth	7240	1340	2767	
	Blank	222	17	67	
514-515	**Permanent Teeth Missing for Non-Carious or Unknown Reasons (9)** This count includes all teeth that were not recorded on the Dental Examination Form as well as teeth recorded as missing for non-carious reasons.				
	00-32 Teeth	7240	1340	2767	
	Blank	222	17	67	
516-517	**Total Decayed, Missing, and Filled Permanent Teeth (DMFT) (6,7,8)** This count does not include teeth missing for unknown or non-carious reasons and teeth not coded on the Dental Examination Form. Therefore, fully edentulous adults may have DMFT scores of 0, not 32.				
	00-32 Teeth	7240	1340	2767	
	Blank	222	17	67	
518-520	**Total Decayed, Missing, and Filled Permanent Tooth Surfaces (DMFS) (Surface codes 6,7,8)** This count does not include teeth missing for unknown or non-carious reasons and teeth not coded on the Dental Examination Form. Therefore, fully edentulous adults may have DMFS scores of 0, not 148.				
	000-148 Surfaces	7240	1340	2767	
	Blank	222	17	67	

INDEX TO TABULAR DATA

Beginning with Positions 521, most dental examination data are presented in
10 tables. Each table is in three parts, each part representing one of the
subpopulations survey: **M** - Mexican Americans, **C** = Cuban Americans, and
P = Puerto Ricans. Table 1, for example, is comprised of Table 1**M** for
Mexican Americans, Table 1**C** for Cuban Americans, and Table 1**P** for Puerto
Ricans. Additionally, the title of the table reflects which subpopulation
is represented.

Position	Item description and code	M	Counts C	P	Source and notes

521-680   **Surface Status Codes for Each Tooth.**   DEF

521-56C	Table 1.	Upper Left Quadrant
561-600	Table 2.	Upper Right Quadrant
601-640	Table 3.	Lower Left Quadrant
641-680	Table 4.	Lower Right Quadrant

Individual teeth are identified with a
four-position code:
```
        ULCI
        1234
```

Positions 1 and 2 = Quadrant
  Position 1 = Upper or Lower (U or L)
  Position 2 = Left or Right (L or R)

Positions 3 and 4 = Specific Tooth
  CI = Central Incisor   SB = Second Bicuspid
  LI = Lateral Incisor   FM = First Molar
  C = Cuspid   SM = Second Molar
  FB = First Bicuspid   TM = Third Molar

Surface Codes:

  L = Lingual
  B = Buccal
  M = Mesial
  D = Distal
  O = Occlusal

Surface Status Codes:

O = Unerupted primary surface, predentulous records
1 = Sound primary surface
2 = Decayed primary surface
3 = Filled primary surface without decay (surface
      coded 2 if decay present)
4 = Unerupted permanent surface
5 = Sound permanent surface
6 = Decayed permanent surface
7 = Filled permanent surface (surface coded 6 if
      decay present)
8 = Missing permanent surface because of caries
9 = Missing permanent surface for non-carious or
      unknown reason. This code is also used
      for surfaces not recorded on the Dental
      Examination Form.
Blank = Occlusal surface on incisor or cuspid

TABLE 1M. Frequency Counts for Upper Left Quadrant by Tape Position, Tooth Surface, and Surface Code -- MEXICAN AMERICANS

Posi-tion	Tooth	Sur-face	Blank	0	1	2	Codes 3	4	5	6	7	8	9
							Counts						
521	ULCI	L	222	25	1315	33	20	86	4826	91	242	163	439
522	ULCI	B	222	25	1324	28	16	86	4915	51	193	163	439
523	ULCI	M	222	25	1243	99	26	86	4622	180	357	163	439
524	ULCI	D	222	25	1299	52	17	86	4746	105	308	163	439
525	ULCI	O	7462	0	0	0	0	0	0	0	0	0	0
526	ULLI	L	222	25	1483	31	18	157	4563	114	303	159	387
527	ULLI	B	222	25	1483	31	18	157	4771	63	146	159	387
528	ULLI	M	222	25	1444	71	17	157	4572	130	278	159	387
529	ULLI	D	222	25	1493	22	17	157	4706	89	185	159	387
530	ULLI	O	7462	0	0	0	0	0	0	0	0	0	0
531	ULC	L	222	25	1968	11	13	284	4275	44	164	115	341
532	ULC	B	222	25	1965	21	6	284	4323	45	115	115	341
533	ULC	M	222	25	1978	11	3	284	4293	61	129	115	341
534	ULC	D	222	25	1956	27	9	284	4236	74	173	115	341
535	ULC	O	7462	0	0	0	0	0	0	0	0	0	0
536	ULFB	L	222	25	1871	20	41	179	4222	45	89	276	472
537	ULFB	B	222	25	1872	19	41	179	4210	49	97	276	472
538	ULFB	M	222	25	1841	40	51	179	4087	64	205	276	472
539	ULFB	D	222	25	1742	80	110	179	3801	107	448	276	472
540	ULFB	O	222	25	1653	130	149	179	3550	139	667	276	472
541	ULSB	L	222	25	1682	66	150	402	4034	53	111	392	325
542	ULSB	B	222	25	1835	24	39	402	4023	52	123	392	325
543	ULSB	M	222	25	1688	80	130	402	3719	93	386	392	325
544	ULSB	D	222	25	1820	32	46	402	3655	100	443	392	325
545	ULSB	O	222	25	1410	197	291	402	3310	149	739	392	325
546	ULFM	L	222	0	0	0	0	1305	4009	156	890	549	331
547	ULFM	B	222	0	0	0	0	1305	4772	94	189	549	331
548	ULFM	M	222	0	0	0	0	1305	4379	140	536	549	331
549	ULFM	D	222	0	0	0	0	1305	4694	89	272	549	331
550	ULFM	O	222	0	0	0	0	1305	3109	376	1570	549	331
551	ULSM	L	222	0	0	0	0	2481	3588	71	332	434	334
552	ULSM	B	222	0	0	0	0	2481	3806	61	124	434	334
553	ULSM	M	222	0	0	0	0	2481	3763	56	172	434	334
554	ULSM	D	222	0	0	0	0	2481	3771	62	158	434	334
555	ULSM	O	222	0	0	0	0	2481	2627	285	1079	434	334
556	ULTM	L	222	0	0	0	0	4340	1358	48	17	276	1201
557	ULTM	B	222	0	0	0	0	4340	1350	54	19	276	1201
558	ULTM	M	222	0	0	0	0	4340	1352	53	18	276	1201
559	ULTM	D	222	0	0	0	0	4340	1353	55	15	276	1201
560	ULTM	O	222	0	0	0	0	4340	1141	141	141	276	1201

TABLE 1C.   Frequency Counts for Upper Left Quadrant by Tape Position,
Tooth Surface, and Surface Code -- CUBAN AMERICANS

Posi- tion	Tooth	Sur- face	Blank	0	1	2	Codes 3	4	5	6	7	8	9
							Counts						
521	ULCI	L	17	2	109	1	O	3	834	10	88	94	199
522	ULCI	B	17	2	110	O	O	3	868	7	57	94	199
523	ULCI	M	17	2	108	2	O	3	774	19	139	94	199
524	ULCI	D	17	2	110	O	O	3	761	22	149	94	199
525	ULCI	O	1357	O	O	O	O	O	O	O	O	O	O
526	ULLI	L	17	2	128	O	O	19	757	20	95	117	202
527	ULLI	B	17	2	128	O	O	19	813	12	47	117	202
528	ULLI	M	17	2	128	O	O	19	716	24	132	117	202
529	ULLI	D	17	2	128	O	O	19	771	18	83	117	202
530	ULLI	O	1357	O	O	O	O	O	O	O	O	O	O
531	ULC	L	17	2	180	1	O	26	791	11	78	57	194
532	ULC	B	17	2	178	2	1	26	810	14	56	57	194
533	ULC	M	17	2	180	1	O	26	785	22	73	57	194
534	ULC	D	17	2	180	1	O	26	747	19	114	57	194
535	ULC	O	1357	O	O	O	O	O	O	O	O	O	O
536	ULFB	L	17	2	172	1	O	17	682	10	30	183	243
537	ULFB	B	17	2	172	1	O	17	668	12	42	183	243
538	ULFB	M	17	2	171	1	1	17	617	15	90	183	243
539	ULFB	D	17	2	169	3	1	17	540	23	159	183	243
540	ULFB	O	17	2	165	4	4	17	476	26	220	183	243
541	ULSB	L	17	2	171	1	O	38	708	10	31	189	190
542	ULSB	B	17	2	170	2	O	38	708	7	34	189	190
543	ULSB	M	17	2	166	4	2	38	573	18	158	189	190
544	ULSB	D	17	2	169	2	1	38	574	19	156	189	190
545	ULSB	O	17	2	156	11	5	38	467	25	257	189	190
546	ULFM	L	17	O	O	O	O	109	634	20	145	239	193
547	ULFM	B	17	O	O	O	O	109	735	15	49	239	193
548	ULFM	M	17	O	O	O	O	109	620	15	164	239	193
549	ULFM	D	17	O	O	O	O	109	687	18	94	239	193
550	ULFM	D	17	O	O	O	O	109	332	54	413	239	193
551	ULSM	L	17	O	O	O	O	243	647	7	63	188	192
552	ULSM	B	17	O	O	O	O	243	673	11	33	188	192
553	ULSM	M	17	O	O	O	O	243	642	4	71	188	192
554	ULSM	D	17	O	O	O	O	243	644	11	62	188	192
555	ULSM	O	17	O	O	O	O	243	334	35	348	188	192
556	ULTM	L	17	O	O	O	O	483	253	6	9	295	294
557	ULTM	B	17	O	O	O	O	483	251	7	10	295	294
558	ULTM	M	17	O	O	O	O	483	251	7	10	295	294
559	ULTM	D	17	O	O	O	O	483	258	6	4	295	294
560	ULTM	O	17	O	O	O	O	483	158	23	87	295	294

TABLE 1P.   Frequency Counts for Upper Left Quadrant by Tape Position,
Tooth Surface, and Surface Code -- PUERTO RICANS

Posi-tion	Tooth	Sur-face	Blank	0	1	2	3	4	5	6	7	8	9
							Counts						
521	ULCI	L	67	12	413	4	0	28	1788	24	104	227	167
522	ULCI	B	67	12	414	2	1	28	1821	18	77	227	167
523	ULCI	M	67	12	406	11	0	28	1697	54	165	227	167
524	ULCI	D	67	12	411	6	0	28	1707	44	165	227	167
525	ULCI	O	2834	0	0	0	0	0	0	0	0	0	0
526	ULLI	L	67	12	471	3	0	57	1692	22	118	229	163
527	ULLI	B	67	12	473	1	0	57	1765	15	52	229	163
528	ULLI	M	67	12	469	5	0	57	1620	48	164	229	163
529	ULLI	D	67	12	473	1	0	57	1705	28	99	229	163
530	ULLI	O	2834	0	0	0	0	0	0	0	0	0	0
531	ULC	L	67	12	627	4	0	101	1633	10	84	135	161
532	ULC	B	67	12	625	4	2	101	1656	16	55	135	161
533	ULC	M	67	12	629	2	0	101	1622	18	87	135	161
534	ULC	D	67	12	627	3	1	101	1577	18	132	135	161
535	ULC	O	2834	0	0	0	0	0	0	0	0	0	0
536	ULFB	L	67	12	622	2	5	61	1580	24	19	266	176
537	ULFB	B	67	12	624	2	3	61	1579	22	22	266	176
538	ULFB	M	67	12	619	7	3	61	1492	33	98	266	176
539	ULFB	D	67	12	597	15	17	61	1367	42	214	266	176
540	ULFB	O	67	12	578	22	29	61	1172	58	393	266	176
541	ULSB	L	67	12	560	16	33	120	1529	16	37	286	158
542	ULSB	B	67	12	598	2	9	120	1534	11	37	286	158
543	ULSB	M	67	12	580	9	20	120	1345	29	208	286	158
544	ULSB	D	67	12	591	11	7	120	1350	27	205	286	158
545	ULSB	O	67	12	495	42	72	120	1072	63	447	286	158
546	ULFM	L	67	0	0	0	0	411	1301	68	404	426	157
547	ULFM	B	67	0	0	0	0	411	1657	29	87	426	157
548	ULFM	M	67	0	0	0	0	411	1523	43	207	426	157
549	ULFM	D	67	0	0	0	0	411	1635	33	105	426	157
550	ULFM	O	67	0	0	0	0	411	789	150	834	426	157
551	ULSM	L	67	0	0	0	0	822	1298	27	151	312	157
552	ULSM	B	67	0	0	0	0	822	1383	20	73	312	157
553	ULSM	M	67	0	0	0	0	822	1372	12	92	312	157
554	ULSM	D	67	0	0	0	0	822	1391	19	66	312	157
555	ULSM	O	67	0	0	0	0	822	729	120	627	312	157
556	ULTM	L	67	0	0	0	0	1478	547	12	18	282	430
557	ULTM	B	67	0	0	0	0	1478	547	13	17	282	430
558	ULTM	M	67	0	0	0	0	1478	549	12	16	282	430
559	ULTM	D	67	0	0	0	0	1478	554	10	13	282	430
560	ULTM	O	67	0	0	0	0	1478	353	63	161	282	430

TABLE 2M. Frequency Counts For Upper Right Quadrant by Tape Position,
           Tooth Surface, and Surface Code -- MEXICAN AMERICANS

CODES

Posi-tion	Tooth	Sur-face	Blank	0	1	2	3	4	5	6	7	8	9
								COUNT					
561	URCI	L	222	25	1304	33	21	108	4803	97	261	161	427
562	URCI	B	222	25	1308	32	18	108	4896	63	202	161	427
563	URCI	M	222	25	1237	99	22	108	4618	187	356	161	427
564	URCI	D	222	25	1282	58	18	108	4749	120	292	161	427
565	URCI	O	7462	0	0	0	0	0	0	0	0	0	0
566	URLI	L	222	25	1477	26	22	166	4557	108	310	163	386
567	URLI	B	222	25	1478	29	18	166	4759	56	160	163	386
568	URLI	M	222	25	1440	63	22	166	4535	149	291	163	386
569	URLI	D	222	25	1483	24	18	166	4691	89	195	163	386
570	URLI	O	7462	0	0	0	0	0	0	0	0	0	0
571	URC	L	222	25	1969	14	11	281	4308	52	143	97	340
572	URC	B	222	25	1957	28	9	281	4342	46	115	97	340
573	URC	M	222	25	1981	10	3	281	4303	69	131	97	340
574	URC	D	222	25	1964	22	8	281	4289	65	149	97	340
575	URC	O	7462	0	0	0	0	0	0	0	0	0	0
576	URFB	L	222	25	1888	21	26	177	4213	50	93	293	454
577	URFB	B	222	25	1889	20	26	177	4210	56	90	293	454
578	URFB	M	222	25	1863	33	39	177	4130	66	160	293	454
579	URFB	D	222	25	1773	66	96	177	3841	105	410	293	454
580	URFB	O	222	25	1693	103	139	177	3581	136	639	293	454
581	URSB	L	222	25	1684	65	151	398	4038	52	119	368	340
582	URSB	B	222	25	1841	19	40	398	4027	57	125	368	340
583	URSB	M	222	25	1702	75	123	398	3729	94	386	368	340
584	URSB	D	222	25	1819	28	53	398	3690	95	424	368	340
585	URSB	O	222	25	1410	196	294	398	3331	153	725	368	340
586	URFM	L	222	0	0	0	0	1293	4023	152	862	573	337
587	URFM	B	222	0	0	0	0	1293	4802	79	156	573	337
588	URFM	M	222	0	0	0	0	1293	4420	128	489	573	337
589	URFM	D	222	0	0	0	0	1293	4748	69	220	573	337
590	URFM	O	222	0	0	0	0	1293	3040	409	1588	573	337
591	URSM	L	222	0	0	0	0	2489	3566	83	357	400	345
592	URSM	B	222	0	0	0	0	2489	3807	69	130	400	345
593	URSM	M	222	0	0	0	0	2489	3760	71	175	400	345
594	URSM	D	222	0	0	0	0	2489	3775	74	157	400	345
595	URSM	O	222	0	0	0	0	2489	2560	336	1110	400	345
596	URTM	L	222	0	0	0	0	4312	1349	56	21	275	1227
597	URTM	B	222	0	0	0	0	4312	1351	57	18	275	1227
598	URTM	M	222	0	0	0	0	4312	1341	60	25	275	1227
599	URTM	D	222	0	0	0	0	4312	1353	58	15	275	1227
600	URTM	O	222	0	0	0	0	4312	1111	144	171	275	1227

TABLE 2C. Frequency Counts for Upper Right Quadrant by Tape Position, Tooth Surface, and Surface Code -- CUBAN AMERICANS

CODES

Posi-tion	Tooth	Sur-face	Blank	0	1	2	3	4	5	6	7	8	9
								COUNT					
561	URCI	L	17	2	108	1	0	4	837	6	94	94	194
562	URCI	B	17	2	107	1	1	4	881	6	50	94	194
563	URCI	M	17	2	106	3	0	4	778	16	143	94	194
564	URCI	D	17	2	109	0	0	4	773	20	144	94	194
565	URCI	0	1357	0	0	0	0	0	0	0	0	0	0
566	URLI	L	17	2	131	0	0	14	770	13	102	107	201
567	URLI	B	17	2	131	0	0	14	839	7	39	107	201
568	URLI	M	17	2	131	0	0	14	717	27	141	107	201
569	URLI	D	17	2	131	0	0	14	788	16	81	107	201
570	URLI	0	1357	0	0	0	0	0	0	0	0	0	0
571	URC	L	17	2	183	0	0	29	798	15	72	53	188
572	URC	B	17	2	181	1	1	29	818	17	50	53	188
573	URC	M	17	2	182	1	0	29	794	19	72	53	188
574	URC	D	17	2	183	0	0	29	764	18	103	53	188
575	URC	0	1357	0	0	0	0	0	0	0	0	0	0
576	URFB	L	17	2	177	2	0	17	704	8	21	171	238
577	URFB	B	17	2	178	1	0	17	686	9	38	171	238
578	URFB	M	17	2	178	1	0	17	632	15	86	171	238
579	URFB	D	17	2	172	7	0	17	532	21	180	171	238
580	URFB	0	17	2	172	7	0	17	468	31	234	171	238
581	URSB	L	17	2	170	0	0	41	702	10	38	185	192
582	URSB	B	17	2	168	0	2	41	704	12	34	185	192
583	URSB	M	17	2	164	4	2	41	565	20	165	185	192
584	URSB	D	17	2	170	0	0	41	586	21	143	185	192
585	URSB	0	17	2	151	6	13	41	468	32	250	185	192
586	URFM	L	17	0	0	0	0	111	637	14	148	237	193
587	URFM	B	17	0	0	0	0	111	745	12	42	237	193
588	URFM	M	17	0	0	0	0	111	625	18	156	237	193
589	URFM	D	17	0	0	0	0	111	706	10	83	237	193
590	URFM	0	17	0	0	0	0	111	329	44	426	237	193
591	URSM	L	17	0	0	0	0	245	652	7	61	182	193
592	URSM	B	17	0	0	0	0	245	682	12	26	182	193
593	URSM	M	17	0	0	0	0	245	654	9	57	182	193
594	URSM	D	17	0	0	0	0	245	650	15	55	182	193
595	URSM	0	17	0	0	0	0	245	343	42	335	182	193
596	URTM	L	17	0	0	0	0	478	254	5	3	298	302
597	URTM	B	17	0	0	0	0	478	247	6	9	298	302
598	URTM	M	17	0	0	0	0	478	249	4	9	298	302
599	URTM	D	17	0	0	0	0	478	252	7	3	298	302
600	URTM	0	17	0	0	0	0	478	152	17	93	298	302

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TABLE 2P   Frequency Counts for Upper Right Quadrant by Tape Position,
           Tooth Surface, and Surface Code -- PUERTO RICANS

CODES

Position	Tooth	Surface	Blank	0	1	2	3	4	5	6	7	8	9

COUNT

Position	Tooth	Surface	Blank	0	1	2	3	4	5	6	7	8	9
561	URCI	L	67	12	408	2	0	32	1800	17	10C	223	173
562	URCI	B	67	12	409	1	0	32	1835	14	68	223	173
563	URCI	M	67	12	402	8	0	32	1698	50	169	223	173
564	URCI	D	67	12	404	6	0	32	1722	39	156	223	173
565	URCI	O	2834	0	0	0	0	0	0	0	0	0	0
566	URLI	L	67	12	466	4	2	61	1685	22	126	222	167
567	URLI	B	67	12	470	1	1	61	1759	17	57	222	167
568	URLI	M	67	12	462	7	3	61	1612	56	165	222	167
569	URLI	D	67	12	469	2	1	61	1709	32	92	222	167
570	URLI	O	2834	0	0	0	0	0	0	0	0	0	0
571	URC	L	67	12	624	1	1	102	1658	13	67	131	158
572	URC	B	67	12	623	3	0	102	1680	14	44	131	158
573	URC	M	67	12	624	2	0	102	1650	19	69	131	158
574	URC	D	67	12	623	3	0	102	1609	25	104	131	158
575	URC	O	2834	0	0	0	0	0	0	0	0	0	0
576	URFB	L	67	12	609	2	4	68	1586	15	36	261	174
577	URFB	B	67	12	611	1	3	68	1581	16	40	261	174
578	URFB	M	67	12	606	5	4	68	1488	22	127	261	174
579	URFB	D	67	12	587	15	13	68	1366	41	230	261	174
580	URFB	O	67	12	570	23	22	68	1185	54	398	261	174
581	URSB	L	67	12	560	13	35	126	1516	20	33	294	158
582	URSB	B	67	12	602	2	4	126	1528	17	24	294	158
583	URSB	M	67	12	579	14	15	126	1322	33	214	294	158
584	URSB	D	67	12	591	10	7	126	1343	31	195	294	158
585	URSB	O	67	12	496	45	67	126	1082	59	428	294	158
586	URFM	L	67	0	0	0	0	412	1305	61	426	409	154
587	URFM	B	67	0	0	0	0	412	1681	28	83	409	154
588	URFM	M	67	0	0	0	0	412	1531	48	213	409	154
589	URFM	D	67	0	0	0	0	412	1673	31	88	409	154
590	URFM	O	67	0	0	0	0	412	783	139	870	409	154
591	URSM	L	67	0	0	0	0	830	1304	32	138	310	153
592	URSM	B	67	0	0	0	0	830	1410	17	47	310	153
593	URSM	M	67	0	0	0	0	830	1376	20	78	310	153
594	URSM	D	67	0	0	0	0	830	1409	17	48	310	153
595	URSM	O	67	0	0	0	0	830	747	110	617	310	153
596	URTM	L	67	0	0	0	0	1482	536	9	11	298	431
597	URTM	B	67	0	0	0	0	1482	533	13	10	298	431
598	URTM	M	67	0	0	0	0	1482	529	11	16	298	431
599	URTM	D	67	0	0	0	0	1482	539	9	8	298	431
600	URTM	O	67	0	0	0	0	1482	372	47	137	298	431

TABLE 3M. Frequency Counts For Lower Left Quadrant by Tape Position,
Tooth Surface, and Surface Code -- MEXICAN AMERICANS

CODES

Posi- tion	Tooth	Sur- face	Blank	O	1	2	3	4	5	6	7	8	9
								COUNT					
601	LLCI	L	222	25	1235	3	1	21	5553	6	13	88	295
602	LLCI	B	222	25	1235	3	1	21	5555	7	10	88	295
6C3	LLCI	M	222	25	1234	4	1	21	5551	8	13	88	295
604	LLCI	D	222	25	1232	6	1	21	5542	13	17	88	295
605	LLCI	O	7462	O	O	O	O	O	O	O	O	O	O
606	LLLI	L	222	25	1359	O	1	129	5368	15	20	64	259
607	LLLI	B	222	25	1359	1	O	129	5368	11	24	64	259
608	LLLI	M	222	25	1355	5	O	129	5363	15	25	64	259
609	LLLI	D	222	25	1357	3	O	129	5361	18	24	64	259
610	LLLI	O	7462	O	O	O	O	O	O	O	O	O	O
611	LLC	L	222	25	1823	4	2	285	4787	16	39	31	228
612	LLC	B	222	25	1814	7	8	285	4762	29	51	31	228
613	LLC	M	222	25	1822	4	3	285	4792	23	27	31	228
614	LLC	D	222	25	1816	7	6	285	4783	21	38	31	228
615	LLC	O	7462	O	O	O	O	O	O	O	O	O	O
616	LLFB	L	222	25	1833	29	61	199	4556	21	51	114	351
617	LLFB	B	222	25	1834	25	64	199	4490	40	98	114	351
618	LLFB	M	222	25	1833	28	62	199	4524	28	76	114	351
619	LLFB	D	222	25	1642	116	165	199	4405	44	179	114	351
620	LLFB	O	222	25	1490	182	251	199	4256	46	326	114	351
621	LLSB	L	222	25	1804	42	86	371	4250	29	104	289	240
622	LLSB	B	222	25	1737	38	157	371	4200	44	139	289	240
623	LLSB	M	222	25	1721	68	143	371	4142	43	198	289	240
624	LLSB	D	222	25	1810	40	82	371	3935	74	374	289	240
625	LLSB	O	222	25	1383	212	337	371	3622	110	651	289	240
626	LLFM	L	222	O	O	O	O	1269	4427	112	214	939	279
627	LLFM	B	222	O	O	O	O	1269	3276	323	1154	939	279
628	LLFM	M	222	O	O	O	O	1269	4224	109	420	939	279
629	LLFM	D	222	O	O	O	O	1269	4305	103	345	939	279
630	LLFM	O	222	O	O	O	O	1269	2701	466	1586	939	279
631	LLSM	L	222	O	O	O	O	2378	3659	61	160	698	284
632	LLSM	B	222	O	O	O	O	2378	3086	219	575	698	284
633	LLSM	M	222	C	O	O	O	2378	3542	64	274	698	284
634	LLSM	D	222	O	O	O	O	2378	3647	59	174	698	284
635	LLSM	O	222	O	O	O	O	2378	2162	459	1259	698	284
636	LLTM	L	222	O	O	O	O	4223	1505	26	24	252	1210
637	LLTM	B	222	O	O	O	O	4223	1389	67	99	252	1210
638	LLTM	M	222	O	O	O	O	4223	1489	32	34	252	1210
639	LLTM	D	222	O	O	O	O	4223	1499	29	27	252	1210
640	LLTM	O	222	O	O	O	O	4223	1107	153	295	252	1210

TABLE 3C. Frequency Counts for Lower Left Quadrant by Tape Position,
Tooth Surface, and Surface Code -- CUBAN AMERICANS

CODES

Posi-tion	Tooth	Sur-face	Blank	0	1	2	3	4	5	6	7	8	9
								COUNT					
601	LLCI	L	17	2	103	0	0	3	1081	3	3	45	100
6C2	LLCI	B	17	2	103	0	0	3	1078	2	7	45	100
603	LLCI	M	17	2	103	0	0	3	1075	4	8	45	100
604	LLCI	D	17	2	103	0	0	3	1078	3	6	45	100
605	LLCI	O	1357	0	0	0	0	0	0	0	0	0	0
606	LLLI	L	17	2	107	0	0	15	1077	8	8	29	94
607	LLLI	B	17	2	107	0	0	15	1079	5	9	29	94
608	LLLI	M	17	2	107	0	0	15	1072	6	15	29	94
609	LLLI	D	17	2	107	0	0	15	1073	10	10	29	94
610	LLLI	O	1357	0	0	0	0	0	0	0	0	0	0
611	LLC	L	17	2	151	0	0	29	1028	5	13	19	93
612	LLC	B	17	2	150	1	0	29	1004	8	34	19	93
613	LLC	M	17	2	151	0	0	29	1022	10	14	19	93
614	LLC	D	17	2	151	0	0	29	1009	12	25	19	93
615	LLC	O	1357	0	0	0	0	0	0	0	0	0	0
616	LLFB	L	17	2	166	1	1	18	888	8	18	105	133
617	LLFB	B	17	2	167	1	0	18	837	16	61	105	133
618	LLFB	M	17	2	166	2	0	18	864	13	37	105	133
619	LLFB	D	17	2	160	6	2	18	830	18	66	105	133
620	LLFB	O	17	2	158	8	2	18	760	22	132	105	133
621	LLSB	L	17	2	169	2	0	41	765	9	27	215	110
622	LLSB	B	17	2	167	4	0	41	738	13	50	215	110
623	LLSB	M	17	2	164	4	3	41	729	10	62	215	110
624	LLSB	D	17	2	168	3	0	41	665	12	124	215	110
625	LLSB	O	17	2	151	10	10	41	558	15	228	215	110
626	LLFM	L	17	0	0	0	0	106	565	18	53	478	120
627	LLFM	B	17	0	0	0	0	106	469	21	146	478	120
628	LLFM	M	17	0	0	0	0	106	506	20	110	478	120
629	LLFM	D	17	0	0	0	0	106	524	18	94	478	120
630	LLFM	O	17	0	0	0	0	106	289	34	313	478	120
631	LLSM	L	17	0	0	0	0	225	587	8	36	367	117
632	LLSM	B	17	0	0	0	0	225	504	11	116	367	117
633	LLSM	M	17	0	0	0	0	225	547	7	77	367	117
634	LLSM	D	17	0	0	0	0	225	588	3	40	367	117
635	LLSM	O	17	0	0	0	0	225	272	29	330	367	117
636	LLTM	L	17	0	0	0	0	469	275	3	6	288	299
637	LLTM	B	17	0	0	0	0	469	244	4	36	288	299
638	LLTM	M	17	0	0	0	0	469	268	4	12	288	299
639	LLTM	D	17	0	0	0	0	469	273	3	8	288	299
640	LLTM	O	17	0	0	0	0	469	153	12	119	288	299

TABLE 3P. Frequency Counts for Lower Left Quadrant by Tape Position, Tooth Surface, and Surface Code -- PUERTO RICANS

CODES

Posi- tion	Tooth	Sur- face	Blank	0	1	2	3	4	5	6	7	8	9
								COUNT					
601	LLCI	L	67	12	378	0	0	12	2155	1	9	96	104
602	LLCI	B	67	12	378	0	0	12	2159	0	6	96	104
603	LLCI	M	67	12	378	0	0	12	2152	2	11	96	104
604	LLCI	D	67	12	378	0	0	12	2142	6	17	96	104
605	LLCI	O	2834	0	0	0	0	0	0	0	0	0	0
606	LLLI	L	67	12	410	0	0	48	2122	1	6	65	103
607	LLLI	B	67	12	410	0	0	48	2122	2	5	65	103
608	LLLI	M	67	12	410	0	0	48	2108	7	14	65	103
609	LLLI	D	67	12	409	0	1	48	2102	12	15	65	103
610	LLLI	O	2834	0	0	0	0	0	0	0	0	0	0
611	LLC	L	67	12	569	1	1	90	1940	6	24	31	93
612	LLC	B	67	12	565	4	2	90	1937	9	24	31	93
613	LLC	M	67	12	569	1	1	90	1939	4	27	31	93
614	LLC	D	67	12	568	1	2	90	1924	13	33	31	93
615	LLC	O	2834	0	0	0	0	0	0	0	0	0	0
616	LLFB	L	67	12	593	5	9	73	1806	7	10	139	113
617	LLFB	B	67	12	599	1	7	73	1776	17	30	139	113
618	LLFB	M	67	12	596	3	8	73	1774	9	40	139	113
619	LLFB	D	67	12	568	16	23	73	1710	16	97	139	113
620	LLFB	O	67	12	548	23	36	73	1531	26	266	139	113
621	LLSB	L	67	12	581	17	13	127	1596	17	34	269	101
622	LLSB	B	67	12	572	14	25	127	1570	22	55	269	101
623	LLSB	M	67	12	578	18	15	127	1505	24	118	269	101
624	LLSB	D	67	12	586	10	15	127	1435	34	178	269	101
625	LLSB	O	67	12	491	52	68	127	1141	49	457	269	101
626	LLFM	L	67	0	0	0	0	409	1420	40	77	718	103
627	LLFM	B	67	0	0	0	0	409	998	103	436	718	103
628	LLFM	M	67	0	0	0	0	409	1360	40	137	718	103
629	LLFM	D	67	0	0	0	0	409	1349	50	138	718	103
630	LLFM	O	67	0	0	0	0	409	675	169	693	718	103
631	LLSM	L	67	0	0	0	0	789	1255	27	60	533	103
632	LLSM	B	67	0	0	0	0	789	1045	53	244	533	103
633	LLSM	M	67	0	0	0	0	789	1215	27	100	533	103
634	LLSM	D	67	0	0	0	0	789	1264	23	55	533	103
635	LLSM	O	67	0	0	0	0	789	597	143	602	533	103
636	LLTM	L	67	0	0	0	0	1470	552	9	6	307	423
637	LLTM	B	67	0	0	0	0	1470	490	21	56	307	423
638	LLTM	M	67	0	0	0	0	1470	537	8	22	307	423
639	LLTM	D	67	0	0	0	0	1470	548	10	9	307	423
640	LLTM	O	67	0	0	0	0	1470	302	57	208	307	423

TABLE 4M. Frequency Counts for Lower Right Quadrant by Tape Position,
Tooth Surface, and Surface Code -- MEXICAN AMERICANS

CODES

Posi-tion	Tooth	Sur-face	Blank	0	1	2	3	4	5	6	7	8	9
								COUNT					
641	LRCI	L	222	25	1236	3	1	24	5541	8	21	85	296
642	LRCI	B	222	25	1235	4	1	24	5539	10	21	85	296
643	LRCI	M	222	25	1235	4	1	24	5535	11	24	85	296
644	LRCI	D	222	25	1234	5	1	24	5538	11	21	85	296
645	LRCI	O	7462	0	0	0	0	0	0	0	0	0	0
646	LRLI	L	222	25	1367	2	1	122	5365	13	26	62	257
647	LRLI	B	222	25	1368	2	0	122	5367	10	27	62	257
648	LRLI	M	222	25	1366	4	0	122	5368	7	29	62	257
649	LRLI	D	222	25	1368	1	1	122	5355	20	29	62	257
650	LRLI	O	7462	0	0	0	0	0	0	0	0	0	0
651	LRC	L	222	25	1817	3	5	295	4796	12	38	29	220
652	LRC	B	222	25	1811	9	5	295	4758	24	64	29	220
653	LRC	M	222	25	1820	1	4	295	4794	19	33	29	220
654	LRC	D	222	25	1811	8	6	295	4780	20	46	29	220
655	LRC	O	7462	0	0	0	0	0	0	0	0	0	0
656	LRFB	L	222	25	1835	31	63	188	4537	28	63	124	346
657	LRFB	B	222	25	1843	25	61	188	4490	36	102	124	346
658	LRFB	M	222	25	1839	26	64	188	4511	32	85	124	346
659	LRFB	D	222	25	1682	96	151	188	4397	43	188	124	346
660	LRFB	O	222	25	1517	163	249	188	4234	50	344	124	346
661	LRSB	L	222	25	1789	47	80	390	4218	36	120	291	244
662	LRSB	B	222	25	1719	38	159	390	4200	46	128	291	244
663	LRSB	M	222	25	1698	59	159	390	4103	45	226	291	244
664	LRSB	D	222	25	1783	48	85	390	3899	80	395	291	244
665	LRSB	O	222	25	1367	210	339	390	3595	99	680	291	244
666	LRFM	L	222	0	0	0	0	1282	4443	103	218	929	265
667	LRFM	B	222	0	0	0	0	1282	3344	260	1160	929	265
668	LRFM	M	222	0	0	0	0	1282	4270	92	402	929	265
669	LRFM	D	222	0	0	0	0	1282	4310	108	346	929	265
670	LRFM	O	222	0	0	0	0	1282	2738	425	1601	929	265
671	LRSM	L	222	0	0	0	0	2380	3667	54	144	715	280
672	LRSM	B	222	0	0	0	0	2380	3089	183	593	715	280
673	LRSM	M	222	0	0	0	0	2380	3535	57	273	715	280
674	LRSM	D	222	0	0	0	0	2380	3633	59	173	715	280
675	LRSM	O	222	0	0	0	0	2380	2151	424	1290	715	280
676	LRTM	L	222	0	0	0	0	4249	1466	21	33	254	1217
677	LRTM	B	222	0	0	0	0	4249	1375	45	100	254	1217
678	LRTM	M	222	0	0	0	0	4249	1451	30	39	254	1217
679	LRTM	D	222	0	0	0	0	4249	1461	28	31	254	1217
680	LRTM	O	222	0	0	0	0	4249	1099	141	280	254	1217

TABLE 4C. Frequency Counts for Lower Right Quadrant by Tape Position,
Tooth Surface, and Surface Code -- CUBAN AMERICANS

CODES

Posi-tion	Tooth	Sur-face	Blank	0	1	2	3	4	5	6	7	8	9
								COUNT					
641	LRCI	L	17	2	104	0	0	3	1076	3	5	50	97
642	LRCI	B	17	2	104	0	0	3	1073	4	7	50	97
643	LRCI	M	17	2	104	0	0	3	1074	4	6	50	97
644	LRCI	D	17	2	104	0	0	3	1068	7	9	50	97
645	LRCI	O	1357	0	0	0	0	0	0	0	0	0	0
646	LRLI	L	17	2	111	0	0	14	1066	9	6	36	96
647	LRLI	B	17	2	111	0	0	14	1067	7	7	36	96
648	LRLI	M	17	2	111	0	0	14	1063	8	10	36	96
649	LRLI	D	17	2	111	0	0	14	1057	10	14	36	96
650	LRLI	O	1357	0	0	0	0	0	0	0	0	0	0
651	LRC	L	17	2	165	0	0	28	998	5	24	22	96
652	LRC	B	17	2	165	0	0	28	978	11	38	22	96
653	LRC	M	17	2	165	0	0	28	998	11	18	22	96
654	LRC	D	17	2	165	0	0	28	983	16	28	22	96
655	LRC	O	1357	0	0	0	0	0	0	0	0	0	0
656	LRFB	L	17	2	177	1	0	15	866	7	21	114	137
657	LRFB	B	17	2	177	1	0	15	829	16	49	114	137
658	LRFB	M	17	2	177	1	0	15	844	9	41	114	137
659	LRFB	D	17	2	169	7	2	15	798	13	83	114	137
660	LRFB	O	17	2	167	7	4	15	745	15	134	114	137
661	LRSB	L	17	2	164	7	1	40	759	7	28	220	112
662	LRSB	B	17	2	168	4	0	40	725	17	52	220	112
663	LRSB	M	17	2	168	4	0	40	711	11	72	220	112
664	LRSB	D	17	2	168	4	0	40	663	15	116	220	112
665	LRSB	O	17	2	154	15	3	40	539	20	235	220	112
666	LRFM	L	17	0	0	0	0	106	572	22	39	481	120
667	LRFM	B	17	0	0	0	0	106	471	21	141	481	120
668	LRFM	M	17	0	0	0	0	106	513	23	97	481	120
669	LRFM	D	17	0	0	0	0	106	526	16	91	481	120
670	LRFM	O	17	0	0	0	0	106	290	40	303	481	120
671	LRSM	L	17	0	0	0	0	227	605	10	26	359	113
672	LRSM	B	17	0	0	0	0	227	507	18	116	359	113
673	LRSM	M	17	0	0	0	0	227	533	11	97	359	113
674	LRSM	D	17	0	0	0	0	227	584	10	47	359	113
675	LRSM	O	17	0	0	0	0	227	269	35	337	359	113
676	LRTM	L	17	0	0	0	0	468	266	7	14	274	311
677	LRTM	B	17	0	0	0	0	468	221	15	51	274	311
678	LRTM	M	17	0	0	0	0	468	256	10	21	274	311
679	LRTM	D	17	0	0	0	0	468	265	7	15	274	311
680	LRTM	O	17	0	0	0	0	468	136	19	132	274	311

TABLE 4P. Frequency Counts for Lower Right Quadrant by Tape Position,
Tooth Surface, and Surface Code -- PUERTO RICANS

CODES

Posi-tion	Tooth	Sur-face	Blank	0	1	2	3	4	5	6	7	8	9
								COUNT					
641	LRCI	L	67	12	372	0	0	11	2153	1	8	111	99
642	LRCI	B	67	12	372	0	0	11	2154	1	7	111	99
643	LRCI	M	67	12	372	0	0	11	2144	2	6	111	99
644	LRCI	D	67	12	372	0	0	11	2137	4	21	111	99
645	LRCI	O	2834	0	0	0	0	0	0	0	0	0	0
646	LRLI	L	67	12	404	0	0	55	2104	1	6	85	100
647	LRLI	B	67	12	404	0	0	55	2099	2	10	85	100
648	LRLI	M	67	12	404	0	0	55	2083	6	22	85	100
649	LRLI	D	67	12	404	0	0	55	2081	9	21	85	100
650	LRLI	O	2834	0	0	0	0	0	0	0	0	0	0
651	LRC	L	67	12	572	0	0	89	1942	4	21	33	94
652	LRC	B	67	12	570	2	0	89	1932	8	27	33	94
653	LRC	M	67	12	571	1	0	89	1925	12	30	33	94
654	LRC	D	67	12	570	2	0	89	1933	7	27	33	94
655	LRC	O	2834	0	0	0	0	0	0	0	0	0	0
656	LRFB	L	67	12	602	3	10	69	1806	2	14	138	111
657	LRFB	B	67	12	603	3	9	69	1772	13	37	138	111
658	LRFB	M	67	12	601	4	10	69	1762	11	49	138	111
659	LRFB	D	67	12	575	11	29	69	1683	21	118	138	111
660	LRFB	O	67	12	550	21	44	69	1513	25	284	138	111
661	LRSB	L	67	12	586	9	14	123	1607	22	26	268	100
662	LRSB	B	67	12	575	6	28	123	1592	24	39	268	100
663	LRSB	M	67	12	579	9	21	123	1521	23	111	268	100
664	LRSB	D	67	12	587	10	12	123	1437	43	175	268	100
665	LRSB	O	67	12	505	37	67	123	1132	62	461	268	100
666	LRFM	L	67	0	0	0	0	405	1419	39	75	728	101
667	LRFM	B	67	0	0	0	0	405	1003	73	457	728	101
668	LRFM	M	67	0	0	0	0	405	1344	40	149	728	101
669	LRFM	D	67	0	0	0	0	405	1369	37	127	728	101
670	LRFM	O	67	0	0	0	0	405	673	143	717	728	101
671	LRSM	L	67	0	0	0	0	787	1274	18	53	532	103
672	LRSM	B	67	0	0	0	0	787	1034	45	266	532	103
673	LRSM	M	67	0	0	0	0	787	1222	17	106	532	103
674	LRSM	D	67	0	0	0	0	787	1287	13	45	532	103
675	LRSM	O	67	0	0	0	0	787	581	144	620	532	103
676	LRTM	L	67	0	0	0	0	1463	545	10	9	318	422
677	LRTM	B	67	0	0	0	0	1463	491	21	52	318	422
678	LRTM	M	67	0	0	0	0	1463	533	10	21	318	422
679	LRTM	D	67	0	0	0	0	1463	552	4	8	318	422
680	LRTM	O	67	0	0	0	0	1463	311	55	198	318	422

Position	Item description and code	M	Counts C	P	Source and notes

681-712   **Tooth Status Codes for Each Tooth.**   DEF

Table 5   All Teeth

Individual teeth are identified with a
four-position code:
            ULCI
            1234

    Positions 1 and 2 = Quadrant
        Position 1 = Upper or Lower (U or L)
        Position 2 = Left or Right (L or R)

    Positions 3 and 4 = Specific Tooth
        CI = Central Incisor   SB = Second Bicuspid
        LI = Lateral Incisor   FM = First Molar
        C = Cuspid   SM = Second Molar
        FB = First Bicuspid   TM = Third Molar

Tooth Status Codes:

0 = Unerupted primary tooth, predentulous records
1 = Sound primary tooth
2 = Decayed primary tooth
3 = Filled primary tooth without decay (tooth
        coded 2 if decay present)
4 = Unerupted permanent tooth
5 = Sound permanent tooth
6 = Decayed permanent tooth
7 = Filled permanent tooth (tooth coded 6 if
        decay present)
8 = Missing permanent tooth because of caries
9 = Missing permanent tooth for non-carious or
        unknown reason. This code is also used for
        teeth not recorded on the Dental Examination
        Form.

TABLE 5M.   Frequency Counts for All Teeth by Tape Position,
Tooth, and Tooth Status Code -- MEXICAN AMERICANS

CODES

Posi-tion	Tooth	Blank	O	1	2	3	4	5	6	7	8	9
							COUNT					
681	ULCI	222	25	1228	112	28	86	4475	232	452	163	439
682	ULLI	222	25	1428	84	20	157	4322	216	442	159	387
683	ULC	222	25	1932	42	18	284	4135	109	239	115	341
684	ULFB	222	25	1640	144	148	179	3526	154	676	276	472
685	ULSB	222	25	1396	213	289	402	3279	172	747	392	325
686	ULFM	222	O	O	O	O	1305	3039	423	1593	549	331
687	ULSM	222	O	O	O	O	2481	2590	307	1094	434	334
688	ULTM	222	O	O	O	O	4340	1132	148	143	276	1201
689	URCI	222	25	1211	121	26	108	4449	251	461	161	427
690	URLI	222	25	1426	74	25	166	4312	222	441	163	386
691	URC	222	25	1924	51	19	281	4180	108	215	97	340
692	URFB	222	25	1675	122	138	177	3549	160	647	293	454
693	URSB	222	25	1391	218	291	398	3300	170	739	368	340
694	URFM	222	O	O	O	O	1293	2975	456	1606	573	337
695	URSM	222	O	O	O	O	2489	2535	361	1110	400	345
696	URTM	222	O	O	O	O	4312	1103	148	175	275	1227
697	LLCI	222	25	1230	8	1	21	5527	23	22	88	295
698	LLLI	222	25	1352	7	1	129	5339	30	34	64	259
699	LLC	222	25	1796	20	13	285	4731	44	67	31	228
700	LLFB	222	25	1481	189	253	199	4207	70	351	114	351
701	LLSB	222	25	1371	222	339	371	3585	131	667	289	240
702	LLFM	222	O	O	O	O	1269	2473	585	1695	939	279
703	LLSM	222	O	O	O	O	2378	2034	543	1303	698	284
704	LLTM	222	O	O	O	O	4223	1082	177	296	252	1210
705	LRCI	222	25	1232	7	1	24	5520	21	29	85	296
706	LRLI	222	25	1362	6	2	122	5339	24	41	62	257
707	LRC	222	25	1796	18	11	295	4734	32	80	29	220
708	LRFB	222	25	1510	170	249	188	4184	70	374	124	346
709	LRSB	222	25	1343	224	349	390	3552	130	692	291	244
710	LRFM	222	O	O	O	O	1282	2535	518	1711	929	265
711	LRSM	222	O	O	O	O	2380	2032	501	1332	715	280
712	LRTM	222	O	O	O	O	4249	1073	161	286	254	1217

TABLE 5C. Frequency Counts for All Teeth by Tape Position,
Tooth, and Tooth Status Code -- CUBAN AMERICANS

CODES

Posi-tion	Tooth	Blank	0	1	2	3	4	5	6	7	8	9
							COUNT					
681	ULCI	17	2	108	2	0	3	676	33	223	94	199
682	ULLI	17	2	128	0	0	19	645	35	192	117	202
683	ULC	17	2	178	2	1	26	687	34	159	57	194
684	ULFB	17	2	165	4	4	17	467	30	225	183	243
685	ULSB	17	2	156	11	5	38	452	31	266	189	190
686	ULFM	17	0	0	0	0	109	319	61	419	239	193
687	ULSM	17	0	0	0	0	243	324	42	351	188	192
688	ULTM	17	0	0	0	0	483	154	24	90	295	294
689	URCI·	17	2	105	3	1	4	690	29	218	94	194
690	URLI	17	2	131	0	0	14	648	41	196	107	201
691	URC	17	2	181	1	1	29	698	37	150	53	188
692	URFB	17	2	172	7	0	17	454	36	243	171	238
693	URSB	17	2	151	6	13	41	459	42	249	165	192
694	URFM	17	0	0	0	0	111	312	50	437	237	193
695	URSM	17	0	0	0	0	245	341	46	333	182	193
696	URTM	17	0	0	0	0	478	151	18	93	298	302
697	LLCI	17	2	103	0	0	3	1064	9	14	45	100
698	LLLI	17	2	107	0	0	15	1055	15	23	29	94
699	LLC	17	2	150	1	0	29	977	20	49	19	93
700	LLFB	17	2	157	8	3	18	715	31	168	105	133
701	LLSB	17	2	151	10	10	41	538	24	239	215	110
702	LLFM	17	0	0	0	0	106	271	39	326	478	120
703	LLSM	17	0	0	0	0	225	256	34	341	367	117
704	LLTM	17	0	0	0	0	469	147	16	121	288	299
705	LRCI	17	2	104	0	0	3	1058	10	16	50	97
706	LRLI	17	2	111	0	0	14	1042	15	24	36	96
707	LRC	17	2	165	0	0	28	953	22	52	22	96
708	LRFB	17	2	167	7	4	15	703	25	166	114	137
709	LRSB	17	2	154	15	3	40	510	28	256	220	112
710	LRFM	17	0	0	0	0	106	267	50	316	481	120
711	LRSM	17	0	0	0	0	227	251	42	348	359	113
712	LRTM	17	0	0	0	0	468	125	28	134	274	311

TABLE 5P. Frequency Counts for All Teeth by Tape Position,
Tooth, and Tooth Status Code -- PUERTO RICANS

CODES

Posi- tion	Tooth	Blank	0	1	2	3	4	5	6	7	8	9
							COUNT					
681	ULCI	67	12	401	16	0	28	1584	92	240	227	167
682	ULLI	67	12	466	8	0	57	1536	73	223	229	163
683	ULC	67	12	622	7	2	101	1514	40	173	135	161
684	ULFB	67	12	577	23	29	61	1152	68	403	266	176
685	ULSB	67	12	490	45	74	120	1051	74	457	286	158
686	ULFM	67	0	0	0	0	411	755	178	840	426	157
687	ULSM	67	0	0	0	0	822	721	129	626	312	157
688	ULTM	67	0	0	0	0	1478	347	67	163	282	430
689	URCI	67	12	397	13	0	32	1607	73	237	223	173
690	URLI	67	12	457	11	4	61	1525	87	221	222	167
691	URC	67	12	620	5	1	102	1538	53	147	131	158
692	URFB	67	12	568	25	22	68	1158	65	414	261	174
693	URSB	67	12	491	47	70	126	1065	63	441	294	158
694	URFM	67	0	0	0	0	412	757	157	878	409	154
695	URSM	67	0	0	0	0	830	731	123	620	310	153
696	URTM	67	0	0	0	0	1482	369	51	136	298	431
697	LLCI	67	12	378	0	0	12	2132	7	26	96	104
698	LLLI	67	12	409	0	1	48	2089	16	24	65	103
699	LLC	67	12	563	5	3	90	1894	21	55	31	93
700	LLFB	67	12	546	26	35	73	1499	42	82	139	113
701	LLSB	67	12	482	54	75	127	1124	65	458	269	101
702	LLFM	67	0	0	0	0	409	587	223	727	718	103
703	LLSM	67	0	0	0	0	789	553	178	611	533	103
704	LLTM	67	0	0	0	0	1470	293	68	206	307	423
705	LRCI	67	12	372	0	0	11	2126	5	31	111	99
706	LRLI	67	12	404	0	0	55	2066	15	30	85	100
707	LRC	67	12	569	3	0	89	1888	22	57	33	94
708	LRFB	67	12	547	24	44	69	1483	42	297	138	111
709	LRSB	67	12	499	41	69	123	1114	79	462	268	100
710	LRFM	67	0	0	0	0	405	592	191	750	728	101
711	LRSM	67	0	0	0	0	787	538	168	639	532	103
712	LRTM	67	0	0	0	0	1463	304	65	195	318	422

Position	Item description and code	Counts			Source and notes
		M	C	P	

713-724 **PERIODONTAL SCORES**: The way periodontal
scores were recorded will not allow analysis
of data for INDIVIDUAL TEETH. Periodontal
data are therefore presented only by ARCH.

713-721 **Computed Periodontal Index (P.I.)**
The index is the sum of valid periodontal
scores for each present tooth divided by the
total teeth present. Format is x.xx; decimal
point is not present.

713-715 **Upper Periodontal Index (Upper Arch)**   Computed

Position	Item	M	C	P
0.00-8.00	Computed value	6782	1141	2530
888	Inconsistent data	83	0	0
999	No recorded P.I. scores for individual teeth	375	119	237
Blank		222	17	67

716-718 **Lower Periodontal Index (Lower Arch)**   Computed

Position	Item	M	C	P
0.00-8.00	Computed value	6908	1238	2648
888	Inconsistent data	69	0	0
999	No recorded P.I. scores for individual teeth	263	102	119
Blank		222	17	67

719-721 **Periodontal Index for the Mouth (Both Arches)**   Computed

Position	Item	M	C	P
0.00-8.00	Computed value	6850	1243	2658
888	Inconsistent data	139	0	0
999	No recorded P.I. scores for individual teeth	251	97	109
Blank		222	17	67

722-724 **Computed Periodontal Classification**
1 = No periodontal disease:
    Computed P.I. is in range 0.00-0.05
      with no score of 6 or 8 for any tooth
2 = Gingivitis:
    Computed P.I. is in range 0.06-2.00
      with no score of 6 or 8 for any tooth
3 = Pockets:
    There are one to three periodontal
      scores of 6 or 8 for individual teeth
4 = Four or More Pockets:
    There are at least four periodontal
      scores of 6 or 8 for individual teeth
8 = Inconsistent Data
9 = No recorded P.I. scores for individual
      teeth
Blank

722 **Upper Periodontal Classification**
Upper Arch   Computed

		M	C	P
1	No periodontal disease	2298	436	483
2	Gingivitis	4220	660	1887
3	Pockets	160	36	104
4	Four or more pockets	104	9	56
8	Inconsistent data	83	0	0
9	No recorded P.I. scores for individual teeth	375	199	237
Blank		222	17	67

Position	Item description and code	Counts			Source and notes
		M	C	P	

723   **Lower Periodontal Classification**   Computed

	Item	M	C	P
	(Lower Arch)			
1	No periodontal disease	1628	263	338
2	Gingivitis	4833	893	2150
3	Pockets	226	69	78
4	Four or more pockets	221	13	82
8	Inconsistent data	69	0	0
9	No recorded P.I. scores for individual teeth	263	102	119
	Blank	222	17	67

724   **Periodontal Classification for the Mouth**   Computed

	(Both Arches)	M	C	P
1	No periodontal disease	1618	279	333
2	Gingivitis	4725	859	2092
3	Pockets	249	80	120
4	Four or more pockets	258	25	113
8	Inconsistent data	139	0	0
9	No recorded P.I. scores for individual teeth	251	97	109
	Blank	222	17	67

725-736   **Oral Hygiene Index Scores, Target Teeth**   DEF
           See Section B for a full discussion of this index.

Table 6. Targeted Teeth

Debris Codes:
0 No debris or stain present.
1 Soft debris covering not more than the gingival
    third of the tooth surface OR presence of
    extrinsic stains without debris regardless
    of the surface area covered.
2 Soft debris covering more than one third but
    not more than two thirds of the exposed
    tooth surface.
3 Soft debris covering more than two thirds of
    the tooth surface.
9 No target tooth or not recorded.

Calculus Codes:
0 No calculus present.
1 Supragingival calculus covering not more than
    one third of the exposed tooth surface.
2 Supragingival calculus covering more than one
    third but not more than two thirds of the
    exposed tooth surface; OR individual flecks
    of calculus were present around the cervical
    portion of the tooth.
3 Supragingival calculus covering more than two
    thirds of the tooth surface OR a continuous
    heavy band of supragingival calculus around
    the cervical portion of the tooth.
9 No target tooth or not recorded.

TABLE 6M. Frequency Counts for Oral Hygiene Scores by Tape Position,
Target Tooth, and Oral Hygiene Code -- MEXICAN AMERICANS

Posi-tion	Target Tooth	Blank	Codes O	1	2	3	9
				Counts			
725	Upper Left Molar Debris	222	1985	3228	708	193	1126
726	Upper Central Debris	222	3784	1923	226	32	1275
727	Upper Right Molar Debris	222	2144	3094	707	171	1124
728	Lower Left Molar Debris	222	1005	3732	1053	135	1315
729	Lower Central Debris	222	3469	2362	386	107	916
730	Lower Right Molar Debris	222	927	3652	1202	165	1294
731	Upper Left Molar Calculus	222	4458	745	702	209	1126
732	Upper Central Calculus	222	5076	434	384	71	1275
733	Upper Right Molar Calculus	222	4618	714	593	191	1124
734	Lower Left Molar Calculus	222	4130	829	813	154	1314
735	Lower Central Calculus	222	4811	591	606	316	916
736	Lower Right Molar Calculus	222	3992	844	893	217	1294

TABLE 6C.   Frequency Counts for Oral Hygiene Scores by Tape Position,
            Target Tooth, and Oral Hygiene Code -- CUBAN AMERICANS

Posi-tion	Target Tooth	Blank	Codes 0	1	2	3	9
				Counts			
725	Upper Left Molar Debris	17	411	478	56	10	385
726	Upper Central Debris	17	632	311	9	1	387
727	Upper Right Molar Debris	17	408	466	74	10	382
728	Lower Left Molar Debris	17	226	480	102	17	515
729	Lower Central Debris	17	553	450	60	9	268
730	Lower Right Molar Debris	17	204	483	137	10	506
731	Upper Left Molar Calculus	17	699	119	123	14	385
732	Upper Central Calculus	17	843	46	64	0	387
733	Upper Right Molar Calculus	17	741	116	93	8	382
734	Lower Left Molar Calculus	17	626	118	80	1	515
735	Lower Central Calculus	17	809	108	148	8	267
736	Lower Right Molar Calculus	17	588	147	98	1	506

TABLE 6P. Frequency Counts for Oral Hygiene Scores by Tape Position,
         Target Tooth. and Oral Hygiene Code -- PUERTO RICANS

Codes

Posi-tion	Target Tooth	Blank	0	1	2	3	9
				Counts			
725	Upper Left Molar Debris	67	698	1279	290	45	455
726	Upper Central Debris	67	1285	906	121	19	436
727	Upper Right Molar Debris	67	687	1388	202	38	452
728	Lower Left Molar Debris	67	379	1612	175	28	·573
729	Lower Central Debris	67	1075	1249	160	53	230
730	Lower Right Molar Debris	67	352	1609	212	25	569
731	Upper Left Molar Calculus	67	1531	273	429	80	454
732	Upper Central Calculus	67	2050	84	176	21	436
733	Upper Right Molar Calculus	67	1666	211	380	58	452
734	Lower Left Molar Calculus	67	1623	130	395	46	573
735	Lower Central Calculus	67	1703	337	377	121	229
736	Lower Right Molar Calculus	67	1471	214	463	50	569

Position	Item description and code		Counts M	C	P	Source and notes
737-739	**Debris Index** The Debris Index (or Calculus Index) is the sum of valid Debris scores (or Calculus scores) divided by the number of scores summed.					Computed
	0.00-3.00	Computed value	6494	1104	2620	
	999	No Debris scores recorded	746	236	147	
	Blank		222	17	67	
740-742	**Calculus Index**					Computed
	0.00-3.00	Computed value	6494	1104	2620	
	999	No Calculus scores recorded	746	236	147	
	Blank		222	17	67	
743-745	**Oral Hygiene Index O.H.I. (Debris and Calculus)**					Computed
	0.00-3.00	Computed value	6494	1104	2620	
	999	No O.H.I. scores recorded	746	236	147	
	Blank		222	17	67	
746	**Orthodontic Treatment In Progress** See Section B for discussion of special record.					DEF
	1	Yes	113	32	17	
	3	No	6917	1219	2648	
	9	Not recorded	210	89	102	
	Blank		222	17	67	
747	**Orthodontic Treatment Previous**					DEF
	1	Yes	205	64	27	
	3	No	6804	1170	2632	
	5	Don't know	18	16	5	
	9	Not recorded	213	90	103	
	Blank		222	17	67	
748	**Severe Malocclusion**					DEF
	1	Yes	39	7	86	
	3	No	6953	1236	2563	
	9	Not recorded	248	97	118	
	Blank		222	17	67	
749	**Upper Denture Status**					DEF
	0	Teeth present or predentulous	6935	1159	2560	
	1	Denture absent	37	7	16	
	3	Denture present	181	137	156	
	5	Defective denture present	73	26	28	
	9	Status not recorded	14	11	7	
	Blank		222	17	67	
750	**Lower Denture Status**					DEF
	0	Teeth present or predentulous	7030	1251	2670	
	1	Denture absent	39	14	14	
	3	Denture present	111	61	62	
	5	Defective denture present	54	14	19	
	9	Status not recorded	6	0	2	
	Blank		222	17	67	

Position	Item description and code		Counts		Source
		M	C	P	and notes

751-814   **Treatment Needs for Each Tooth.**   DEF
          See Section B for discussion of inconsistencies
          between needs and status codes.

751-766   Table 7. Upper Left Quadrant
767-782   Table 8   Upper Right Quadrant
783-798   Table 9. Lower Left Quadrant
799-814   Table 10. Lower Right Quadrant

          Individual teeth are identified with a
          four-position code:
              ULCI
              1234

            Positions 1 and 2 = Quadrant
              Position 1 = Upper or Lower (U or L)
              Position 2 = Left or Right (L or R)

            Positions 3 and 4 = Specific Tooth
              CI = Central Incisor   SB = Second Bicuspid
              LI = Lateral Incisor   FM = First Molar
              C = Cuspid   SM = Second Molar
              FB = First Bicuspid   TM = Third Molar

          Treatment Need Codes:
          00 = No treatment needed
          10 = One 1-surface restoration needed
          19 = One 1-surface restoration AND root canal
                or other pulpal treatment needed
          20 = One 2-surface restoration needed; OR two
                1-surface restorations needed
          29 = Two surface restorations AND root canal or
                other pulpal treatment needed
          30 = One 3-surface restoration needed; OR one
                2-surface restoration and one 1-surface
                restoration needed; OR three 1-surface
                restorations needed
          39 = Three surface restorations and root canal
                or other pulpal treatment needed
          40 = More than three surfaces need restoration,
                but not a crown
          49 = More than three surface restorations AND root
                canal or other pulpal treatment needed
          50 = Extraction of primary tooth
          60 = Extraction of permanent tooth
          70 = Crown (primary or permanent)
          80 = Tooth replacement needed (when permanent
                tooth already missing and replacement
                needed)
          90 = Root canal or other pulpal treatment needed
          68 = Extraction of permanent tooth and replacement
                needed
          79 = Pulpal treatment and a crown needed
          99 = Not recorded

815-820   **Blank**

TABLE 7M Frequency Counts for Upper Left Quadrant by Treatment
Need Code, Tape Position, and Tooth -- MEXICAN AMERICANS

Code	Tape Position and Tooth							
	751-752 ULCI	753-754 ULLI	755-756 ULC	757-758 ULFB	759-760 ULSB	761-762 ULFM	763-764 ULSM	765-766 ULTM
				Counts				
Blank	222	222	222	222	222	222	222	222
OO	6444	6514	6648	6347	6098	6012	6254	6316
10	112	125	50	63	72	125	161	44
19	2	1	0	0	0	0	0	0
20	84	40	16	92	134	164	43	5
29	0	0	0	0	1	0	0	0
30	14	8	5	11	24	27	9	1
40	0	0	0	0	0	4	2	0
50	27	28	27	31	57	0	1	2
60	5	3	5	4	4	5	13	638
68	64	64	58	80	77	105	78	1
70	62	60	75	120	186	103	163	18
79	32	21	9	28	35	26	15	3
80	124	107	80	196	280	399	232	1
90	0	1	0	0	0	0	0	1
99	270	268	267	268	272	270	269	210

TABLE 8M. Frequency Counts for Upper Right Quadrant by Treatment
Need Code, Tape Position, and Tooth -- MEXICAN AMERICANS

Code	Tape Position and Tooth							
	767-768 URCI	769-770 URLI	771-772 URC	773-774 URFB	775-776 URSB	777-778 URFM	779-780 URSM	781-782 URTM
				Counts				
Blank	222	222	222	222	222	222	222	222
OO	6437	6521	6656	6372	6152	5993	6208	6320
10	120	123	50	69	84	151	181	48
19	1	0	0	0	0	0	0	0
20	91	44	30	95	137	191	67	2
29	0	0	0	0	0	0	0	0
30	22	17	2	14	18	22	13	1
40	2	0	1	0	0	4	3	0
50	26	19	27	24	43	2	0	0
60	2	2	7	2	5	3	20	631
68	55	68	63	70	76	91	80	2
70	69	53	68	100	170	97	144	23
79	30	15	8	23	25	22	20	3
80	115	109	58	203	259	391	235	1
90	0	0	0	0	1	0	0	0
99	270	269	270	268	270	273	269	209

TABLE 9M   Frequency Counts for Lower Left Quadrant by Treatment
Neeo Coae, Tape Position, and Tooth -- MEXICAN AMERICANS

Code	Tape Position and Tooth							
	783-784 LLCI	785-786 LLLI	787-788 LLC	789-790 LLFB	791-792 LLSB	793-794 LLFM	795-796 LLSM	797-798 LLTM
	Counts							
Blank	222	222	222	222	222	222	222	222
00	6809	6815	6851	6553	6105	5584	5767	6272
10	13	11	19	64	123	279	293	57
20	2	5	7	71	61	152	88	15
29	0	0	0	0	1	0	0	0
30	1	4	0	5	16	23	10	3
39	0	0	0	0	0	0	0	0
40	0	1	0	1	0	4	3	0
49	0	0	0	0	0	0	0	0
50	5	3	11	46	53	3	0	1
60	6	4	3	7	5	7	21	636
68	89	110	86	76	92	106	83	1
70	7	12	23	71	313	78	290	42
79	3	4	3	35	35	53	34	6
80	96	62	29	103	221	738	437	1
90	0	0	0	0	0	0	1	0
99	209	209	208	208	215	213	213	206

TABLE 10M. Frequency Counts for Lower Right Quadrant by Treatment
Need Code, Tape Position, and Tooth -- MEXICAN AMERICANS

Code	Tape Position and Tooth							
	799-800 LRCI	801-802 LRLI	803-804 LRC	805-806 LRFB	807-808 LRSB	809-810 LRFM	811-812 LRSM	813-814 LRTM
	Counts							
Blank	222	222	222	222	222	222	222	222
00	6811	6827	6861	6573	6118	5650	5809	6272
10	9	9	16	64	124	259	279	53
20	2	6	8	62	74	117	65	10
29	0	0	0	0	0	0	0	0
30	3	1	0	4	12	24	8	3
39	0	0	0	0	0	1	0	0
40	0	1	0	2	0	6	0	0
49	0	0	0	0	1	0	0	0
50	4	7	4	42	53	0	0	0
60	5	6	3	4	8	8	11	642
68	90	102	87	80	86	106	85	5
70	7	10	24	80	303	78	289	42
79	2	4	3	22	26	43	39	5
80	97	58	26	99	223	733	443	0
90	0	0	0	1	0	3	2	0
99	210	209	208	207	212	212	210	208

TABLE 7C. Frequency Counts for Upper Left Quadrant by Treatment
Need Code, Tape Position, and Tooth -- CUBAN AMERICANS

Code	Tape Position and Tooth							
	751-752 ULCI	753-754 ULLI	755-756 ULC	757-758 ULFB	759-760 ULSB	761-762 ULFM	763-764 ULSM	5-766 ULTM
	Counts							
Blank	17	17	17	17	17	17	17	17
00	1065	1056	1064	987	949	909	974	1148
10	13	16	15	5	7	18	19	12
20	13	8	7	10	11	22	9	0
30	0	4	2	3	4	2	3	0
40	0	0	0	0	1	0	1	0
50	1	0	4	0	4	0	0	0
60	0	1	0	1	0	0	1	81
68	12	7	16	9	12	20	11	2
70	6	9	11	24	37	30	32	6
79	4	2	3	6	7	9	4	1
80	44	56	35	111	125	149	106	1
90	0	0	0	0	0	0	0	0
99	182	181	183	184	183	181	180	89

TABLE 8C. Frequency Counts for Upper Right Quadrant by Treatment
Need Code, Tape Position, and Tooth -- CUBAN AMERICANS

Code	Tape Position and Tooth							
	767-768 URCI	769-770 URLI	771-772 URC	773-774 URFB	775-776 URSB	777-778 URFM	779-780 URSM	781-782 URTM
	Counts							
Blank	17	17	17	17	17	17	17	17
00	1061	1044	1067	981	937	919	964	1152
10	21	22	15	6	10	15	19	15
20	6	20	4	12	11	20	10	0
30	2	2	2	4	7	1	3	0
40	0	0	0	0	1	0	0	0
50	1	0	1	4	4	0	0	0
60	0	0	0	1	1	0	2	74
68	9	10	19	10	11	12	15	0
70	6	4	13	27	49	23	34	9
79	5	3	6	2	6	7	4	0
80	46	52	30	110	119	157	104	1
90	0	0	0	0	0	1	0	1
99	183	183	183	183	184	185	185	88

TABLE 9C. Frequency Counts for Lower Left Quadrant by Treatment
Need Code, Tape Position, and Tooth -- CUBAN AMERICANS

Code	Tape Position and Tooth							
	783-784 LLCI	785-786 LLLI	787-788 LLC	789-790 LLFB	791-792 LLSB	793-794 LLFM	795-796 LLSM	797-798 LLTM
				Counts				
Blank	17	17	17	17	17	17	17	17
00	1193	1198	1189	1115	970	836	878	1143
10	4	4	7	8	9	9	15	8
20	2	4	0	11	7	8	3	0
30	0	0	1	3	3	7	1	0
40	1	0	0	0	0	0	0	0
50	0	0	1	1	3		0	1
60	0	0	0	2	1	0	2	93
68	20	25	35	23	16	8	12	0
70	0	0	2	12	79	12	77	8
79	1	1	2	6	6	7	5	1
80	30	20	14	70	157	361	258	1
90	0	0	0	0	0	0	1	0
99	89	88	89	89	89	90	88	85

TABLE 10C. Frequency Counts for Lower Right Quadrant by Treatment
Need Code, Tape Position, and Tooth -- CUBAN AMERICANS

Code	Tape Position and Tooth							
	799-800 LRCI	801-802 LRLI	803-804 LRC	805-806 LRFB	807-808 LRSB	809-810 LRFM	811-812 LRSM	812-813 LRTM
				Counts				
Blank	17	17	17	17	17	17	17	17
00	1183	1187	1182	1106	960	820	867	1137
10	2	8	10	14	14	16	22	12
20	2	2	0	8	8	5	6	2
30	1	0	0	3	1	6	2	0
40	0	0	0	0	0	1	0	0
50	2	1	1	2	6	0	0	1
60	2	4	1	2	0	0	0	87
68	25	23	28	24	15	11	15	0
70	0	1	4	15	82	12	76	13
79	2	1	5	1	5	9	1	1
80	32	24	19	74	160	367	262	1
90	0	0	0	1	0	1	1	0
99	89	89	90	90	89	92	88	86

TABLE 7P. Frequency Counts for Upper Left Quadrant by Treatment
Need Code, Tape Position, and Tooth -- PUERTO RICANS

Code	Tape Position and Tooth							
	751-752 ULCI	753-754 ULLI	755-756 ULC	757-758 ULFB	759-760 ULSB	761-762 ULFM	763-764 ULSM	765-766 ULTM
				Counts				
Blank	67	67	67	67	67	67	67	67
00	2420	2450	2512	2418	2365	2269	2365	2576
10	69	55	29	20	44	85	92	36
20	24	19	9	26	30	48	20	5
30	2	3	1	14	13	9	5	1
40	0	0	0	1	0	5	1	0
50	6	5	2	4	8	0	0	0
58	0	0	0	1	0	0	0	0
60	0	0	1	0	2	2	2	42
68	12	11	11	25	13	22	11	1
70	22	12	14	11	26	15	23	5
79	7	9	6	8	14	21	7	0
80	46	46	26	80	89	135	84	3
90	0	0	0	0	0	0	1	0
99	159	157	156	159	163	156	156	96

TABLE 8P. Frequency Counts for Upper Right Quadrant by Treatment
Need Code, Tape Position, and Tooth -- PUERTO RICANS

Code	Tape Position and Tooth							
	767-768 URCI	769-770 URLI	771-772 URC	773-774 URFB	775-776 URSB	777-778 URFM	779-780 URSM	781-782 URTM
				Counts				
Blank	67	67	67	67	67	67	67	67
00	2450	2446	2502	2409	2367	2276	2366	2591
10	46	61	40	30	36	70	83	24
20	19	14	7	34	31	51	21	4
30	4	7	1	10	14	11	4	0
40	0	1	0	1	0	5	0	0
50	3	3	3	4	8	0	0	0
58	0	0	0	1	0	0	0	0
60	0	1	0	2	2	2	6	40
68	12	10	12	19	19	21	20	3
70	17	15	16	12	31	15	25	3
79	9	10	9	9	12	11	3	0
80	52	44	22	77	85	137	82	3
90	0	0	1	0	0	0	1	0
99	155	155	154	159	162	168	156	99

TABLE 9P. Frequency Counts for Lower Left Quadrant by Treatment
Need Code, Tape Position, and Tooth -- PUERTO RICANS

Code	Tape Position and Tooth							
	783-784 LLCI	785-786 LLLI	787-788 LLC	789-790 LLFB	791-792 LLSB	793-794 LLFM	795-796 LLSM	797-798 LLTM
	Counts							
Blank	67	67	67	67	67	67	67	67
00	2618	2622	2628	2524	2350	2081	2202	2566
10	5	10	19	25	43	109	116	42
20	1	3	0	22	21	56	28	5
30	0	0	0	3	10	14	7	1
40	0	0	0	2	0	3	2	0
50	1	0	1	5	17	2	0	0
60	0	0	2	1	1	3	4	32
68	13	16	11	16	21	24	17	9
70	2	2	3	4	72	19	66	6
79	0	0	2	7	12	21	13	1
80	32	19	7	58	120	331	214	4
90	0	0	0	0	0	2	1	0
99	95	95	94	100	100	102	97	101

TABLE 10P Frequency Counts for Lower Right Quadrant by Treatment
Need Code, Tape Position, and Tooth -- PUERTO RICANS

Code	Tape Position and Tooth							
	799-800 LRCI	801-802 LRLI	803-804 LRC	805-806 LRFB	807-808 LRSB	809-810 LRFM	811-812 LRSM	813-814 LRTM
	Counts							
Blank	67	67	67	67	67	67	67	67
00	2616	2614	2627	2529	2358	2092	2211	2571
10	6	12	17	23	49	110	127	35
20	0	3	2	23	30	46	21	7
30	0	0	0	8	12	15	6	0
40	0	0	0	0	2	4	1	0
50	3	1	0	8	10	1	0	0
60	2	2	2	1	5	6	6	33
68	14	14	8	11	15	18	13	6
70	2	2	6	7	65	23	64	6
79	0	1	1	5	6	14	10	2
80	29	23	8	53	114	338	214	6
90	0	0	0	2	0	0	0	0
99	95	95	96	97	101	100	94	101

SECTION N. NOTES

1. Family Questionnaire Missing

A Family Questionnaire was to be completed for each eligible family in a household with sample persons. However, a few Family Questionnaires are missing. Data records for sample persons in families with missing questionnaires are flagged with a code = 1, and all family data are blank. Data records for sample persons in families with a Family Questionnaire are flagged with a code = 2.

During the Mexican-American portion of the HHANES survey, a Family Questionnaire continuation booklet containing sample person information was lost for one sample person. Therefore, the sociodemographic data for this sample person are missing. The reference person, family composition, income, residence, and household data for this person were obtained from another person in the household.

2. Examination Status

Not all sample persons consented to come to a Mobile Examination Center to participate in the examination phase of the survey. In certain rare instances (less than 0.1%), sample persons who came to the Mobile Examination Centers did not participate in sufficient components of the examination to be considered as "examined." This data field contains code = 1 for those persons who participated fully in the examination phase, and code = 2 for those who did not come to the examination center or who did not satisfactorily complete the examination.

3. Family Number

In HHANES, all household members who were related by blood, marriage, or adoption were considered to be one "family." All sample persons in the same family unit have the same computer-generated family unit code.

4. Head of Family

Relationship of Sample Person to Head of Family (Pos. 44-45)
Each family containing sample persons has a designated "head of family," and the relationship of each sample person to the head of his or her family is coded in tape positions 44-45. The first three categories of this variable describe the "head" of three different kinds of families.

o   Code '01' identifies sample persons who lived alone (i.e., "head" of one-person families, no unrelated individuals living in the household).

o   Code '02' identifies sample persons who lived only with unrelated persons.

o   Code '03' identifies sample persons who were "heads" of families containing at least one other person (whether or not the household included additional families unrelated to the sample person).

<u>Sociodemographic Data (Pos. 100-131)</u>
This data tape includes some sociodemographic data about the head of each sample person's family (Section F). Because there can only be one "head" per family, the data in this section (positions 100-131) are the same for all sample persons in the same family (i.e., with the same family number codes in positions 39-43). If the sample person is the head of his or her family, the data in positions 100-131 are the same as in the corresponding positions in Section E.

5.   <u>Observed Race</u>

"Race" was observed by the interviewer for all sample persons actually seen. Rules for classification of observed race were consistent with those used in the NHANES II and the National Health Interview Survey at that time. The categories were coded as follows:

<u>White</u>   Includes Spanish origin persons unless they are definitely Black, Indian or other nonwhite.
<u>Black</u>   Black or Negro.
<u>Other</u>   Race other than White or Black, including Japanese, Chinese, American Indian, Korean, Eskimo.

6.   <u>National Origin or Ancestry</u>

The value for national origin or ancestry is based on Item 2c in the Household Screener Questionnaire and was reported by the household respondent for all household members. In the Mexican-American portion of the survey, if "other Latin-American or other Spanish" (code 9) or "Other" (code 0) was recorded and the specified origin was "Spanish-American" or "Spanish (Spain)", a code of 10 or 11, respectively, was assigned. In all three portions of the survey, if more than one category was reported, the first appropriate "Hispanic" code, if any, was assigned (codes 1, 2, 3, 8, 10, or 11 in the Mexican-American portion; codes 6 or 7 in the Cuban-American portion; codes 4 or 5 in the Puerto Rican portion). If none of these codes was recorded, the first category entered was coded.

7.   <u>Codes for States and Foreign Countries</u>

Code	State or Foreign Country
001	Alabama
002	Alaska
004	Arizona
005	Arkansas
006	California
008	Colorado
009	Connecticut
010	Delaware
011	District of Columbia
012	Florida
013	Georgia
015	Hawaii
016	Idaho
017	Illinois
018	Indiana
019	Iowa
020	Kansas
021	Kentucky
022	Louisiana
023	Maine
024	Maryland

Codes for States and Foreign Countries (continued)

Code State or Foreign Country

Code	State or Foreign Country
025	Massachusetts
026	Michigan
027	Minnesota
028	Mississippi
029	Missouri
030	Montana
031	Nebraska
032	Nevada
033	New Hampshire
034	New Jersey
035	New Mexico
036	New York
037	North Carolina
038	North Dakota
039	Ohio
040	Oklahoma
041	Oregon
042	Pennsylvania
044	Rhode Island
045	South Carolina
046	South Dakota
047	Tennessee
048	Texas
049	Utah
050	Vermont
051	Virginia
053	Washington
054	West Virginia
055	Wisconsin
056	Wyoming
060	American Samoa
093	Canada
061	Canal Zone
062	Canton and Enderbury Islands
091	Central America
095	Costa Rica
063	Cuba
064	Dominican Republic
065	El Salvador
062	Enderbury Islands
087	Germany
066	Guam
068	Guatemala
069	Haiti
088	Honduras
070	Jamaica
090	Japan
067	Johnston Atoll
080	Mexico
071	Midway Islands
081	Nicaragua
096	Palestine
097	Austria
098	Lebanon
099	Chile
100	Philippines

Codes for States and Foreign Countries (continued)

Code	State or Foreign Country
101	Brazil
102	Holland
103	Colombia
082	Panama
072	Puerto Rico
092	Saudi Arabia
083	Spain
094	Taiwan
089	Turkey
084	Uruguay
085	Venezuela
073	Ryukyu Islands, Southern
074	Swan Islands
075	Trust Territories of the Pacific Islands (includes Caroline, Mariana and Marshall Island groups)
076	U. S. miscellaneous Caribbean Islands (includes Navassa Islands, Quito Sueno Bank, Roncador Cay, Serrana Bank and Serranilla Bank)
077	U. S. miscellaneous Pacific Islands (includes Kingman Reef, Howland, Baker & Jarvis Islands, and Palmyra Atoll)
086	United States
078	Virgin Islands
079	Wake Island
104	Azores
105	Peru
106	England
107	Vietnam
108	Italy
109	Ecuador
110	North America
111	Surinam
112	Argentina
113	Portugal
114	Trinidad
115	Egypt
116	Sudan
117	British Honduras
118	China
888	Blank but applicable

8. National origin recode

In the HHANES, if any household member was identified as "Hispanic" (as defined below), all household members, regardless of origin, were eligible to be selected as sample persons. The national origin recode specifies whether a sample person is considered to be "Hispanic" or "not Hispanic" for purposes of analysis. "Hispanic" is defined as:

Mexican-American residing in selected counties of Texas, Colorado, New Mexico, Arizona, and California;

Cuban-American, residing in Dade County (Miami), Florida; or

Puerto Rican residing in the New York City area, including parts of New Jersey and Connecticut.

The recode was assigned as follows:

A. Southwest portion

1) If the original national origin or ancestry code on the Household Screener Questionnaire was 1, 2, 3, 8, 10, or 11, then National origin recode = 1;

2) If national origin or ancestry was 4, 5, 6, 7, 9, or 0 but the person specified Mexican/Mexicano, Chicano, or Mexican-American self-identification on the Adult Sample Person Questionnaire (question M10), or the person was the biological child of a household member with Recode equal to 1 (as determined by questions A-1/A-11 on the Family Questionnaire), then National origin recode = 1;

3) In all other cases, National origin recode = 2.

B. Dade County, Florida portion

1) If the original national origin or ancestry code was 6 or 7, then National origin recode = 1;

2) In all other cases, National origin recode = 2;

C. New York City area portion

1) If the original national origin or ancestry code was 4 or 5, then National origin recode = 1;

2) If national origin or ancestry was 1, 2, 3, 6, 7, 8, 9, or 0 but the person specified Boricuan or Puerto Rican self-identification on the Adult Sample Person Questionnaire (question M10), or the person was the biological child of a household member with Recode equal to 1 (as determined by questions A-1/A-11 on the Family Questionnaire), then National origin recode = 1;

3) In all other cases, National origin recode = 2;

The national origin recode may be used in analysis in one of two ways:

a. Selecting on Recode = 1 will restrict analysis to "Hispanics" only. In this case, in the Southwest portion of the survey, the weighted estimates by age and sex will approximately equal U.S. Bureau of Census population estimates of the number of Mexican Americans and a small proportion of other Hispanics assumed to be Hispano in the five Southwest States (Arizona, California, Colorado, New Mexico, and Texas) at the midpoint of the Mexican-American portion of HHANES - March 1983. The weighted estimates of Cuban Americans represents an independent estimate of the number of Cuban Americans in Dade County at the midpoint, February 1984. The weighted estimates of Puerto Ricans represents an independent estimate of the number of Puerto Ricans in the sample counties in New York, New Jersey, and Connecticut at the midpoint of the Puerto Rican portion - September 1984.

b. Using <u>Recode</u> greater than 0, that is, all sample persons, will include "Hispanic" and "not Hispanic" persons and the Southwest weighted estimates by age and sex will overestimate the U.S. Bureau of the Census population estimates of Mexican Americans and other Hispanics by about 4.5 percent. In Dade County, using recode greater than 0 will increase the weighted estimates by about 5.3 percent over that for Cuban Americans only, using recode greater than 0 for the New York area will increase the weighted estimates by about 9.2 percent over that for Puerto Ricans only.

9. Industry and Occupation Code

Family Questionnaire questions B-12 through B-15 (see page 117 or 139 of Ref. No. 1 in Section C) identified sample persons 17 years old or older who were in the labor force working for pay at a job or business or who worked without pay in a family business or farm operated by a related member of the household without receiving wages or salary for work performed.

Questions B-17 through B-22 provided a full description of sample persons' current or most recent job or business. The detail asked for in these questions was necessary to properly and accurately code each occupation and industry. Interviewers were trained to define a job as a definite arrangement for regular work for pay every week or every month. This included arrangements for either regular part-time or regular full-time work. If a sample person was absent from his or her regular job, worked at more than one job, was on layoff from a job or was looking for work during the two week reference period, interviewers were trained to use the following criteria to determine the job described:

a. If a sample person worked at more than one job during the two week reference period or operated a farm or business and also worked for someone else, the job at which he or she worked the most hours was described. If the sample person worked the same number of hours at all jobs, the job at which he or she had been employed the longest was entered. If the sample person was employed at all jobs the same length of time, the job the sample person considered the main job was entered.

b. If a sample person was absent from his or her regular job all of the two week reference period, but worked temporarily at another job, the job at which the sample person actually worked was described, not the job from which he or she was absent.

c. If a sample person had a job but did not work at all during the two week reference period, the job he or she held was described.

d. If a sample person was on layoff during the two week reference period, the job from which he or she was laid off, regardless of whether a full-time or part-time job, was described.

e. If a sample person was looking for work or waiting to begin a new job within 30 days of the interview, the last full-time civilian job which lasted two consecutive weeks or more was described.

The 1980 census of population Alphabetical Index of Industries and Occupations was used in the coding of both industry and occupation. This book has Library of Congress Number 80-18360, and is for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 for $3.00. Its Stock Number is 003024049-2.

10. Health Insurance

    a. In the Health Insurance section of the Family Questionnaire, up to three separate health insurance plans could be reported for a family. Each sample person could have been covered by any combination of the three, or by none at all. In order to simplify the health insurance coverage data, the information on all reported plans was combined to a single variable for each sample person, i.e., whether or not the person is covered by any plan (position 74). For all persons covered by at least one plan, information on the type of coverage is then indicated: position 75 specifies whether any of the sample person's plans pays hospital expenses and position 76 specifies whether any of the sample person's plans pays doctor's or surgeon's bills.

    b. For all sample persons who were not covered by Medicare or any health insurance plan, the reasons for not being covered were ascertained. Positions 77-78 contain the main or only reason reported. For persons with one or more additional reasons, the first (lowest) code entered on the questionnaire was coded in positions 79-80.

11. Per Capita Income

Per capita income was computed by dividing the total combined family income by the number of people in the family.

12. Poverty Index

The poverty index is a ratio of two components. The numerator is the midpoint of the income bracket reported for each family in the Family Questionnaire (E-11). Respondents were asked to report total combined family income during the 12 months preceding the interview. The denominator is a poverty threshold which varied with the number of persons in the family, the adult/child composition of the family, the age of the reference person, and the month and the year in which the family was interviewed.

(Note 12 continues on next page)

Poverty thresholds published in Bureau of the Census reports[*] are based on calendar years and were adjusted to reflect differences caused by inflation between calendar years and 12 month income reference periods to which question E-11 referred. Average Consumer Price Indexes for all Urban Consumers (CPI-U) for the calendar year for which the poverty thresholds were published (see table below) and for the 12 months representing the income reference period for the respondent were calculated. The percentage difference between these two numbers represents the inflation between these two periods and was applied to the poverty threshold appropriate for the family (based on the characteristics listed above). For example, for a family interviewed in November, 1983, the 1982 poverty threshold was updated to reflect inflation by multiplying by the percent change in the average CPI-U for the 12 month reference period, which would have been November, 1982 through October, 1983, over the calendar year January through December, 1982, in this example. To compute poverty indexes, the midpoint of the total combined family income bracket was divided by the updated poverty threshold.

Average Consumer Price Index, all Urban Consumers (CPI-U),
U. S. city average, 1981-84

Month	Year			
	1981	1982	1983	1984
January	260.5	282.5	293.1	305.2
February	263.2	283.4	293.2	306.6
March	265.1	283.1	293.4	307.3
April	266.8	284.3	295.5	308.8
May	269.0	287.1	297.1	309.7
June	271.3	290.6	298.1	310.7
July	274.4	292.2	299.3	311.7
August	276.5	292.8	300.3	313.0
September	279.3	293.3	301.8	
October	279.9	294.1	302.6	
November	280.7	293.6	303.1	
December	281.5	292.4	303.5	
Average	272.4	289.1	298.4	

Source: U.S. Department of Labor, Bureau of Labor Statistics

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[*] U.S. Bureau of the Census, Current Population Reports, Series P-60, No. 138, "Characteristics of the Population Below the Poverty Level: 1981", U.S. Government Printing Office, Washington, D.C., March 1983.

U.S. Bureau of the Census, Current Population Reports, Series P-60, No. 144, "Characteristics of the Population Below the Poverty Level: 1982", U.S. Government Printing Office, Washington, D.C., March 1984.

Members of families with incomes equal to or greater than poverty thresholds have poverty indexes equal to or greater than 1.0 and can be described as "at or above poverty"; those with incomes less than the poverty threshold have indexes less than 1.0 and can be described as "below poverty".

Poverty thresholds used were computed on a national basis only. No attempt was made to adjust these thresholds for regional, State, or other variations in the cost of living. None of the noncash public welfare benefits such as food stamp bonuses were included in the income of the low income families receiving these benefits.

13. Size of Place and SMSA

Codes for size of place and SMSA were obtained from the Bureau of the Census summary tape files (STF 1B).

A place is a concentration of population. Most places are incorporated as cities, towns, villages or boroughs, but others are defined by the Bureau of the Census around definite residential nuclei with dense, city-type street patterns, with, ideally, at least 1,000 persons per square mile. The boundaries of Census defined places may not coincide with civil divisions.

A Standard Metropolitan Statistical Area (SMSA) is a large population nucleus and nearby communities which have a high degree of economic and social integration with that nucleus. Generally, an SMSA includes one or more central cities, all urbanized areas around the city or cities, and the remainder of the county or counties in which the urbanized areas are located. SMSAs are designated by the Office of Management and Budget.

The same place size and SMSA codes were assigned to all persons in the same segment (for the definition of segments see Ref. No. 1 in Section C). In a few cases segments were divided by place boundaries. In these cases codes were assigned after inspecting segment maps. If the segment was predominantly in one place, then the place code for that place was used. If the segment was approximately evenly divided, the code for the larger place was used.

14. Home Heating

Questions E-3 through E-6, pertaining to the main fuel and equipment used for heating the home, appear to have codes which are inconsistent. It has been verified that these are the codes that were recorded on the original document; that is, codes that appear inconsistent were not incorrectly keyed.

APPENDIX 1

TECHNICAL GUIDANCE FOR USING HHANES DATA TAPES

Versions of Released Tapes

The first public use data files from the Hispanic Health and Nutrition Examination Survey (HHANES) containing data from all three portions of the survey (Mexican-American, Cuban-American, and Puerto Rican) have been released. Other data collected during the survey will be released on future public use data files.

Some files had a Version 1 release which only included data from the Mexican-American portion of the survey. In general, Version 2, (containing data from all three portions of the survey) was created in the same manner and format as Version 1. However, some changes were made to the format of the tape documentation and in some instances corrections, additions, and deletions were made to the data from the Mexican-American portion. These changes were implemented to make the documentation and tapes more clear, accurate, and user friendly. This document will describe many of the changes and how they may affect the user who has already been analyzing data from the Mexican-American portion using Version 1 data files.

The following list is not exhaustive, but includes all the major changes to the general style of the tape files and documentations. For specific tape files and data items, the best way to determine if any changes have been made is to take both documentations (Version 1 and Version 2) and compare the counts and codes. If they are exactly alike, then one can be sure that no changes were made to that data item or its possible response codes. If they are not the same, then this would indicate some changes or corrections have been made for that data item. In either case, the user should use the latest version of data release tape whenever possible. Corrections were not frequent, and were made to eliminate obvious inconsistencies and errors in the previously released Version 1 data set.

Some of the key changes made to the common sections of all data tapes or documentations for Version 2 include:

1. The addition of a "Caution" page which highlights some of the major issues that any user of HHANES data tapes should be aware.

2. The addition of counts for the Cuban-American and Puerto Rican samples to the previously released counts for the Mexican-American sample.

3. The recoding of tape Position 13 from "M," "C," and "P" to "1," "2," and "3" designating the three Hispanic subpopulations. This field is critical for all analyses of the data to distinguish and separate the three portions of the survey since the data are merged together as one data file on the tape.

4. The changing of the language of interview data in Position 17 from the previously released Household Screener Questionnaire language of interview code to the Family Questionnaire language of interview. This change was made because most of the data collected and reported in Positions 1-400 of the data tape came from the Family Questionnaire and should reflect the language of interview used for that questionnaire. All users should note that each questionnaire in the survey had its own language of interview which may differ from that recorded on other questionnaires. Therefore, a tape may have more than one tape position with a language of interview code.

5. The rewording of tape Position 53 from "eligibility code" to "national origin recode" to more clearly reflect the use of this key variable for all users of the HHANES data. All users should carefully read Note 8 and realize that not all sample persons in HHANES were of "Hispanic" origin.

6. The recoding and simplifying of the Health Insurance data in Positions 74-87 from Version 1 to a more logical and straight-forward set of data now found in Positions 74-80 in Version 2 of the data tapes. Users who have used these data should look carefully at the recoded data to make sure their results are consistent with the new recoded data. Note 10 gives further explanation of some of these data.

7. The recoding of some health insurance and program participation responses (Positions 74-99) from "Blank" to "No" to reflect a more correct consistency pattern for the answers to these questions.

8. The recoding of Positions 100 and 101 into a more useable single code (position 100) that reflects the interview and examination status of the head of family (previously referred to on version 1 documentation as "reference person"). The user should carefully read Note 4 for a more complete explanation of these terms.

9. The home heating data (Positions 172-179) was corrected for selected codes to reflect new information made available when the Cuban-American and Puerto Rican data were edited.

10. The strata and pseudo PSU codes (Positions 214-217) were recoded to be consistent for all three portions of the survey. This change has no effect on the calculation of variance estimates using the appropriate complex survey software.

11. The acculturation index final score (Positions 217-218 on Version 1 documentation) has been deleted from all tapes except the Adolescent and Adult History tape. This was done because the actual questions used to calculate this score are only on that file and it made for less confusion to put all the acculturation data in one place on one data tape.

12. The Version number for all tapes is now in one place (Position 15) on all tapes.

13. The notes have been rewritten in many instances to make them easier to understand, and notes that provided the same type of information were grouped together to form two generic notes: the "Recoding of open-ended questions" note and the "apparently illogical or extreme values" note.

14. Other paragraphs and sentences in the general sections of the tape documentation were rewritten as needed to correct grammar and clarify meaning. Additional sample sizes and average design effects tables were also added as needed.

The following are examples of the types of corrections, additions, and modifications that have been made to the topic specific sections of data tapes and documentations. They are examples only and do not represent all the changes made to the two data tapes mentioned below.

1. On the Blood and Urine Assessments tape, Position 405 reflects whether blood was collected on a sample person and whether it was collected by the venipuncture or capillary method. In Version 1 of this tape, three sample persons were incorrectly coded as "capillary" when they were really "venipuncture." Since this variable is critical to the analysis of the data and was inconsistent with the rest of the data on the tape, it was necessary to correct the three records to reflect the correct method of blood drawing.

2. On the Adolescent and Adult History tape:

   a. A new field (Position 405) was created to reflect the fact that the limited data collected for six sample persons in the Mexican-American portion of the survey were found to be unreliable and were eliminated from Version 2 of this data tape.

   b. For the acculturation data, the calculated variables and resulting acculturation index final score (Positions 1022-1031) were calculated for all sample persons on the Version 1 data tape. On the Version 2 tape, these variables were coded as "blank" for the 312 sample persons who were not Hispanic (see tape Position 53), because it was really not appropriate to calculate an acculturation score for persons who were not Hispanic.

   c. Version 2 includes the digestive disease section of the questionnaire, which had not been released in Version 1.

If you have any questions about these changes or what are the latest versions of the data tapes, please call Patricia Vaive (301-436-7080).

APPENDIX 2

DENTAL DIAGNOSTIC CRITERIA

DMF AND DF INDEX

Discussion of Diagnostic Criteria at Examiner Session by Dr. Philip A. Swango, National Institute of Dental Research.

Excerpted from the dental examiner's manual (Ref. No. 11). Slides and accompanying remarks not included.

NOTE: This discussion was part of pre-survey dental examiner training. Since it took place, third molars were added to the teeth to be examined and recorded.

In carrying out this survey it is intended that the methods of data collection be as uniform as possible among the sites sampled. Probably the most important factor in obtaining uniform data is that the indices used to assess the disease state, which in this case are the DMF surface index for permanent teeth and the df surface index for deciduous teeth, be applied in a uniform manner by the various examiners throughout the entire survey. In working to achieve uniformity the examiners should be thoroughly familiar with the written criteria for diagnosing carious lesions, for determining whether lesions or restorations extend onto additional tooth surfaces, for determining the status of eruption of teeth and for determining the conditions for which certain teeth should be excluded from the analysis.

Today I am going to describe for you the diagnostic criteria that we would like for you to use during the examinations. After describing these criteria we will show a series of slides which will serve to illustrate the use of the criteria. These are similar to the criteria that we use in the Community Programs Section for carrying out clinical investigations of caries-preventive agents. The diagnostic criteria for caries are, with one or two exceptions, those adopted by the Caries Measurement Task Group, Conference on Clinical Testing for Cariostatic Agents, sponsored by the American Dental Association in 1968. Before going into the discussion of the criteria, I would like to say that we are well aware that it is not possible to fully standardize you to these criteria by merely discussing the criteria and illustrating them with slides. Therefore, following this presentation we will work with you in conducting clinical examinations on a number of patients, including a number of duplicate examinations, and discuss any differences in interpretation. This will certainly serve to improve the degree of standardization. We feel confident that by the end of this training session you will feel comfortable with these criteria and hopefully will have reached an acceptable level of standardization.

I'd like to describe first the criteria for diagnosing caries. Carious lesions may be categorized into two types: frank lesions and incipient lesions. Frank lesions are detected as gross cavitation and thus present few problems in diagnosis. Incipient lesions, on the other hand, are less obvious and therefore are more

difficult to diagnose consistently. Incipient lesions may be subdivided into 3 categories according to location, each with special diagnositic considerations. The categories are:

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.

(3) Softened enamel adjacent to the area which may be scraped away with the explorer.

In other words, a deep pit or fissure **per se** in which the explorer catches is not sufficient evidence of decay; it must be accompanied by at least one of the above-named signs 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 examination, as when there is no adjacent tooth, the criteria are the same as those just presented for smooth areas on facial or lingual 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 edge 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 passed through the teeth labio-lingually and reflects into the mirror. If a characteristic shadow or loss of translucency is seen on the proximal surface, then this is suggestive that a carious lesion is present on that surface. 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 surface index represents those permanent teeth that have been extracted as a result of caries. It is essential, of course, to distinguish between teeth extracted due to caries and those extracted or missing for other reasons such as trauma, orthodontic or periodontal disease. There is no "extracted due to caries" designation for deciduous teeth. Any deciduous tooth extracted for caries, and for the sake of consistency, any deciduous tooth missing for any reason will be recorded as "permanent unerupted" and coded as a U so long as the permanent successor has not appeared.

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

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 (5,6,7,8,9 on posterior, or 6,7,8,9 on anterior teeth). If the restoration is due to a fractured, malformed, or hypoplastic tooth, the tooth is scored Y.

   NOTE: This rule applies only to permanent teeth with full crowns or jackets. If a fracture, for example, has been restored with anything less than full coverage, all surfaces not involved by the restoration will be examined and scored in the usual manner. Deciduous teeth with full coverage (stainless steel or polycarbonate crowns) 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 bicuspids, may have been extracted as part of orthodontic treatment. These teeth are scored as Y. The examiner must make the determination that the teeth were extracted for orthodontic reasons rather than caries, although this is not usually difficult because of the typically symmetrical patterns of such extractions. Rather than trying to determine whether the extracted teeth are 1st or 2nd bicuspids, we have adopted the convention of calling them 1st bicuspids. Teeth other than bicuspids 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 your opinion a restoration on a non-vital tooth was placed soley 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 you can determine 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 Y, 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 Y.

7. Congenitally missing teeth -- If you can determine that the tooth is congenitally missing rather than unerupted, score the tooth Y.

8. Extracted or missing due to trauma -- Scored Y for permanent teeth and U for deciduous.

There are a number of general considerations regarding criteria and other examination procedures that I would like to outline for you:

1. Stain and pigmentation alone should not be regarded as evidence of decay since either can occur on sound teeth.

2. A tooth is considered to be in eruption when ANY part of its crown projects through the gum. This criterion is, of course, easier to standardize on than one which calls for a more advanced stage of eruption.

3. In the case of supernumerary teeth, only one tooth is to be called. 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 to be called.

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 and call must relate to the status of the missing second molar, not the drifted third molar. If the second molar, for example, was extracted due to caries and the space is now occupied by a sound third molar, the second molar is scored E and the third molar is not scored.

6. When a crown is destroyed by caries and only the roots remain, this is recorded as "all surfaces carious".

7. When a tooth is carious and filled on the same surface, call the surface carious. In other words, caries takes priority over a filling.

8. When an adhesive sealant is present in a pit or fissure, and if there is no evidence of caries according to the criteria previously described or if there is no restoration present, that surface would be considered sound.

9. When a filling or carious lesion on a posterior tooth extends beyond the line angle onto another surface, then the other surface is also called 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. For the purpose of the survey, 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.

11. An effort should be made to examine each subject in the same manner. For example, an examiner should avoid the temptation to examine a subject more thoroughly who appears to be highly susceptible to caries and a person less thoroughly who appears less susceptible to caries. Also, it is well to systematize the examination procedure and to follow the same system for each patient. The exam forms are set up so that one must start with the upper left central incisor and proceed distally through the second molar. The same procedure is followed in sequence for the upper right, lower left and lower right quadrants. As an aid to consistency, each quadrant should be dried with compressed air prior to examination. It is also helpful to establish a systematic approach to examining each individual tooth. One approach is to examine the surfaces in the following order: lingual, labial, mesial and distal for the anterior teeth and occlusal, lingual, buccal, mesial and distal for the posterior teeth. These orders are logical in that they correspond with the sequence displayed on the examination forms. It is not advisable to call out the code for each surface as that surface is examined. This is confusing to the recorder. It is better if the examiner accumulates the diagnostic codes in his mind for a given tooth until all surfaces have been examined before dictating the calls to the recorder.