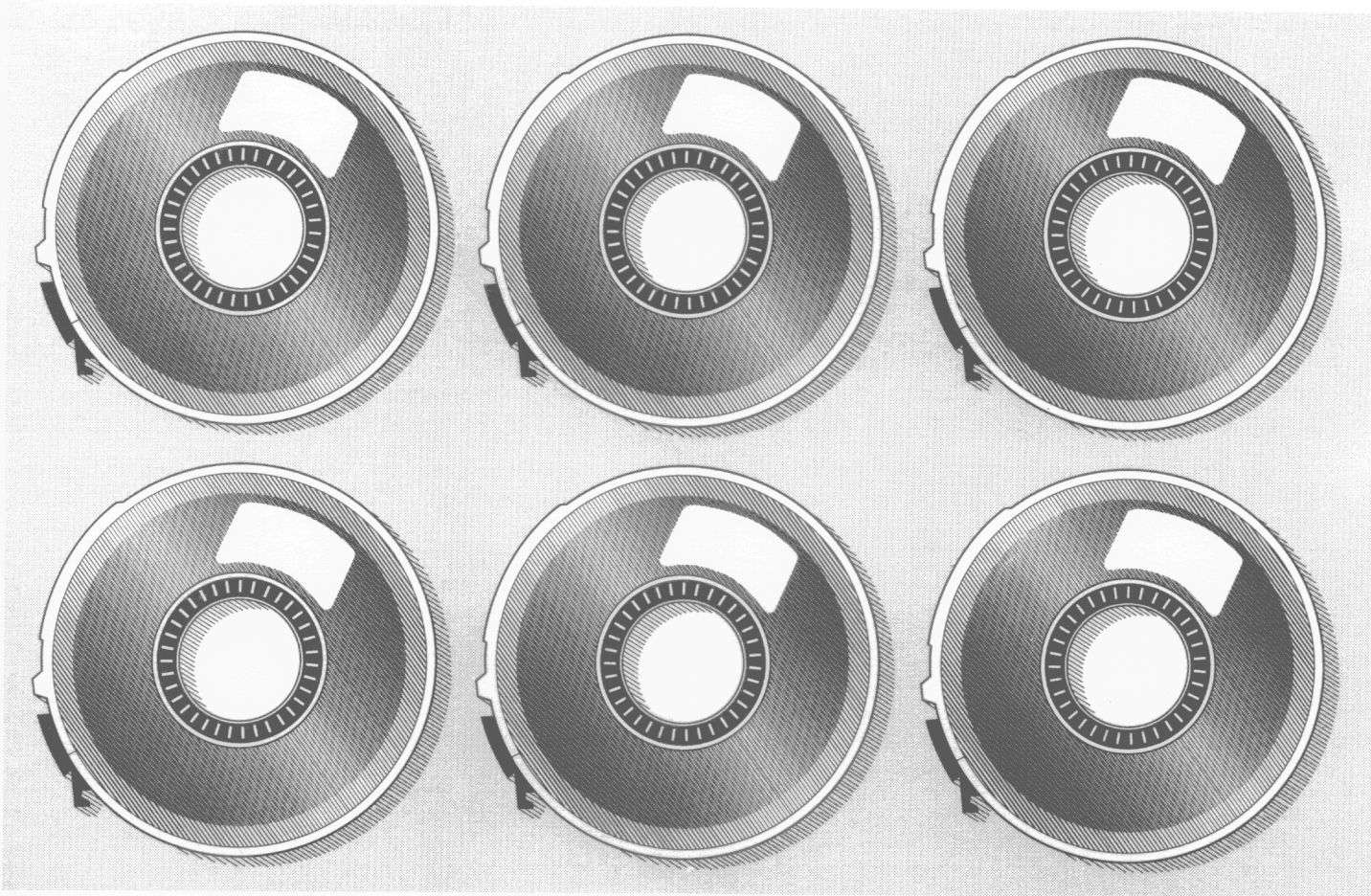

Public Use Data Tape Documentation

Dental, Ages 1-74 Years
Tape Number 4235

National Health and Nutrition Examination Survey, 1971-75



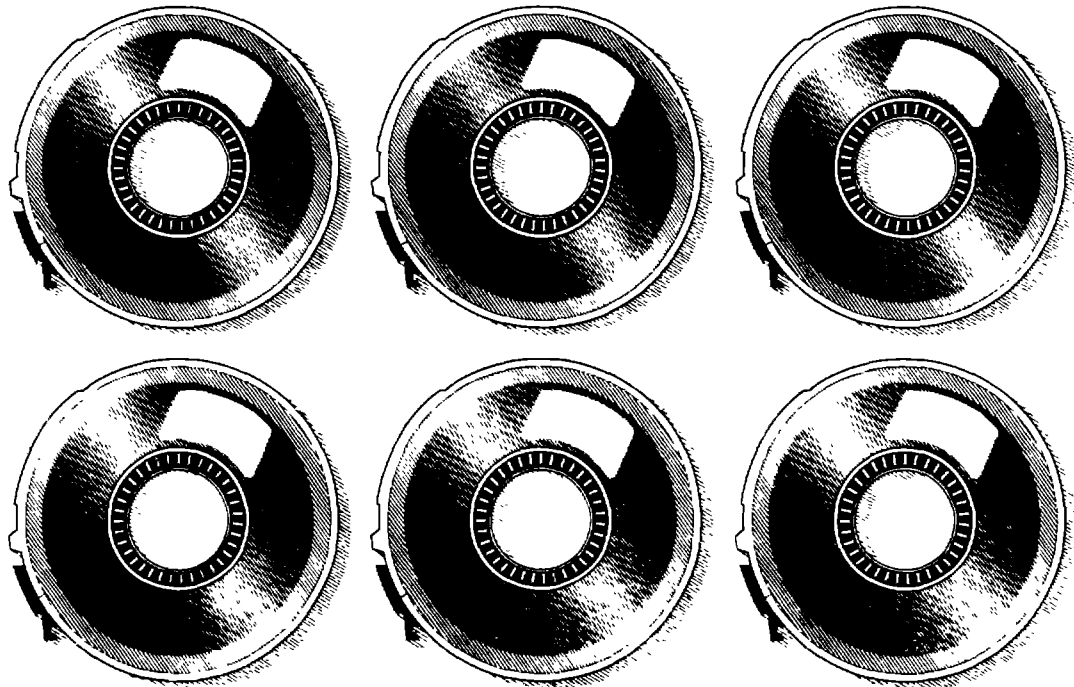
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control

CDC
CENTERS FOR DISEASE CONTROL

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National Health and Nutrition Examination Survey, 1971-75



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Center for Health Statistics

Hyattsville, Maryland
Reprinted February 1992

The data compilation and documentation necessary for the Dental Data Tape were done by Mary Dudley, Dr. James Kelly, Clair Harvey, Everette Collins, and Evelyn Stanton of the Division of Health Examination Statistics, National Center for Health Statistics. A special note of gratitude is due Darian Varga who patiently typed and retyped this material.

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DENTAL DATA TAPE

Health and Nutrition Examination Survey, HANES I, 1971-1975

Description of Survey: A detailed description of the design, content and operation of HANES I is provided in the following reports: Plan and Operation of the Health and Nutrition Examination Survey, DHEW Pub. No. (HSM) 73-1310, Series 1, Nos. 10a and 10b, Public Health Service, Washington, D. C., U.S. Government Printing Office, February 1973. A description of the augmentation survey of adults conducted between July 1974 and October 1975 is also provided.

Target Population: HANES I was conducted on a nationwide probability sample of approximately 28,000 persons, ages 1-74 years, from the civilian, noninstitutionalized population of the coterminous United States, excepting those persons residing on Indian reservations. The survey started in April 1971 and for many survey components, including the dental examinations, it was completed in June 1974. The HANES I sample was selected so that certain population groups thought to be at high risk of malnutrition (persons with low incomes, preschool children, women of childbearing age and the elderly) were oversampled at known rates. Adjusted sampling weights were then computed within 60 age, sex and race categories in order to inflate the sample in

such a manner as to closely reflect the noninstitutionalized population, ages 1-74 years, of the United States at the midpoint of the survey.

Although the main emphasis of HANES I was on nutrition, a subset of the sample persons aged 25-74 received a more detailed health examination which was continued through October 1975. No particular oversampling of subgroups of the population was done in this subsample (e.g., women of childbearing age were not oversampled as they were for the major nutrition component of HANES I). This subsample is also representative of the United States population ages 25-74 during the time of HANES I.

After the nutrition survey was completed, the detailed examination given to the 25-74 age group was continued until the total number of examined persons was approximately double the number of examinees who received the detailed examination during the nutrition survey.

Data Collection: Information about all of the examined sample persons in HANES I was obtained by means of a household interview, a general medical history, a 24-hour dietary intake recall interview, a food frequency interview, a food program questionnaire, a general medical examination, dental, dermatological and ophthalmological examinations, anthropometric measurement, hand-wrist x-rays (of those ages 1-17 only) and 24 hematological, blood chemistry, and urological laboratory determinations.

In addition to the information received on all examined persons by means of the above questionnaires, procedures and measurements, the following data were gathered on the subsample of adults aged 25-74: a medical history supplement; supplementary questionnaires concerning arthritis, respiratory and cardiovascular conditions (when applicable); a health care needs questionnaire; a general well-being questionnaire; an extended medical examination; x-rays of the chest and hip and knee joints; audiometry; electrocardiography; goniometry; spirometry; pulmonary diffusion and tuberculin tests; along with additional laboratory determinations.

Use of HANES Data

With the goal of mutual benefit, NCHS requests the cooperation of recipients of data tapes in certain actions related to their use:

- A. Any published material derived from the data should acknowledge the National Center for Health Statistics as the original source. It should include also a disclaimer which credits any analyses, interpretations, or conclusions reached to the author (recipient of the tape) and not to NCHS, which is responsible only for the initial data.
- B. Consumers who wish to publish a technical description of the data will make a reasonable effort to insure that the description is not inconsistent with that published by NCHS. This does not mean, however, that NCHS will review such descriptions.

Errors in the Data Sets and Survey Differences

The data users tapes have been subjected to a great deal of careful editing. However, due to the large volume of data in the series, it is likely that a small number of errors or discrepancies remain undetected. We would appreciate having any such errors that are detected brought to our attention so that new corrected copies of the tape can be created and errata sheets issued to previous purchasers.

Some of the continuous data items have extremely high or low values and we have verified that they do in fact appear that way on the hard documents; that is, we have verified that the values have not been incorrectly keyed.

In general, we have not attempted to resolve any differences that may exist between estimates derived from the various subsamples of HANES I. Nor have we made any comparisons between estimates from HANES I and previous surveys conducted by the Division of Health Examination Statistics.

Variance Estimation

Because the Health and Nutrition Examination Survey is based upon a complex sample design, the assumptions of many statistical tests and routinely available statistical programs are not met. For this reason, when estimates of the variances of statistics from HANES are computed, the technique of estimation must be based upon complex sampling theory. In order to provide the user with the capability of estimating the complex sample variances, we have provided Strata and Primary Sampling Unit (PSU) codes on the HANES user tapes in tape positions 194-198. However, these codes are suitable for making variance estimates only for examination locations 1-65 and 1-100. To compute variance estimates for examination locations 1-35 or 66-100, it is necessary to recode the current Strata-PSU codes according to the specifications that follow. The resultant recoded Strata-PSU codes should be used only for locations 1-35 and 66-100.

One computer program that should be widely available sometime around the summer of 1978 as part of the Statistical Analysis System (available from the SAS Institute, Inc., Post Office Box 10066, Raleigh, North Carolina 27605) is capable of using the Strata-PSU codes provided for HANES to compute complex sample variances. Other programs may also be available.

In those Strata, referred to as certainty or self-representing Strata, the PSU codes are actually the segment numbers. Neither the Strata codes nor the PSU codes are the original codes used in the formation of the HANES sample design, but are none-the-less a unique recoding of the original codes. For further discussion of the sample design of HANES, the user should consult the publications of the National Center for Health Statistics-- Series 1-Nos. 10a and 14 and the detailed note for tape positions 158-193.

Recode Specifications for Strata-PSU Codes

First.--Create a file with only those records in the file for examination locations 1-35.*

Second.--Retain the original Strata-PSU codes in Strata 7-10 and 13 in the original form as the recoded Strata-PSU codes.

Third.--Recode the remaining strata according to the chart below.

Fourth.--Repeat the process for examination locations 66-100.*

<u>Old Strata #</u> <u>(tape positions 194-195)</u>	<u>New Strata #</u>	<u>New PSU #</u>
01	01	001
02	01	002
03	03	001
06	03	002
04	04	001
05	04	002
11	11	001
12	11	002
14	14	001
21	14	002
15	15	001
16	15	002
17	17	001
20	17	002
18	18	001
19	18	002
22	22	001
25	22	002
23	23	001
24	23	002
26	26	001
27	26	002
28	28	001
29	28	002
30	30	001
35	30	002
31	31	001
32	31	002
33	33	001
34	33	002

*See detailed note for tape positions 158-193.

Tape Characteristics

Title: Dental Tape

Catalog Number: 4235

Data Set Name: HEHANESI.DU423505

Record Length: 500

Blocksize: 4000

Number of Records: 20749

Number of Reels: 1

Recording Mode: Fixed Block, EBCDIC

Channel: 9 Track

Created by: Division of Health Examination Statistics
National Center for Health Statistics
Hyattsville, Maryland

General Notes

Demographic Information: An advance letter, announcing the forthcoming arrival of an interviewer from the U.S. Bureau of the Census, was mailed to each household that fell into the sample area. The interviewer subsequently visited the household to ascertain its composition and to administer a questionnaire, the primary purpose of which was to obtain demographic information. The questionnaire was administered to each potential sample person that was available and competent enough to respond to questions. In the event that a potential sample person was not at home at the time of interview, any responsible adult in the household was asked to respond to the questions for the absent person.

Demographic information for each of the examinees appears in tape positions 1-200.

Dental Examination: The dental examiners attempted to derive their findings uniformly by following a written set of objective standards in which they had been carefully trained. The standards were guidelines that, in effect, narrowed the range of examiner variability by eliminating many of the borderline or questionable conditions that are frequently a source of disagreement. To avoid other sources that might result in systematic bias, the dentist did not

dry or isolate teeth, remove oral debris and calculus, or probe any tooth surface that did not have an overt sign of decay.

The dentist dictated the condition of each tooth present to a trained recorder (health technician). The teeth were classified as sound, filled, decayed, filled-defective, and nonfunctional. Missing permanent teeth were classified under one of the following four categories: unerupted, carious extraction, accidental loss, and orthodontic extraction. When missing teeth were replaced on a fixed or partial denture, the tissue under the replacement as well as the replacement itself, was rated. When no natural teeth remained in the jaw, the condition of the jaw and the status of the artificial replacement, when present, were recorded.

The next step of the examination was an assessment of the periodontal structures and the status of oral hygiene. The Periodontal Index was used to assess the presence or absence of periodontal disease. By this system of classification, scores were assigned according to the extent of gingival inflammation, the presence or absence of periodontal pockets, and the firmness of a tooth in its socket. To assess oral hygiene, scores were recorded for all or any of six predesignated teeth that were present. The scores

indicated the amount of debris and the amount of calculus on selected surfaces. Other conditions such as bleeding gums, diffuse marginal inflammation, swollen red papillae, and recession were also recorded.

The occlusion of all persons age 6-21 years was appraised by a series of counts and measurements. Anteroposterior position of the lower jaw in relation to the upper jaw was recorded. Counts were made of teeth in crossbite and teeth that were malaligned. Measurements were made in the anterior area of the jaws of overjet, mandibular protrusion, overbite, and openbite.

An enamel biopsy was taken on persons who had a natural upper incisor present with a front surface free of cavities and fillings. The enamel sample was "polished off" from an area about one-eighth of an inch in diameter and to a depth of approximately .0002 inch.

The dental examiner, using his best clinical judgment, estimated the dental treatment needed by every sample person. In so doing, he took into consideration the status of oral hygiene and periodontal disease, the quantity and quality of past dental care, the responses to questions asked at the beginning of the examination about chewing and eating difficulties, the age of the individual, and the probable benefit of each specific treatment plan to the individual's health and nutrition. The treatment recommendation included various

procedures ranging from a simple filling to extraction of all remaining teeth and denture construction.

Other Dental Data: Other information relating to the teeth was obtained from the Health Care Needs Questionnaire and can be found in tape positions 277-303 and 517-547 of the Health Care Needs, General Medical History and Supplements on Respiratory and Cardiovascular Data Tape, catalog number 4091.

DEMOGRAPHIC DATA SUMMARY - HANES I

	<u>Tape Positions</u>
Sample sequence number	1
Size of place	10
SMSA-not SMSA	11
Type of living quarters	12
Land usage	13
If rural, asked - How many acres of land are included	14
If 10 acres or more asked - Sale of crops, etc. amount to \$50 or more ..	15
If 10 acres or less asked - Sale of crops, etc. amount to \$250 or more .	16
Age - head of household	17
Sex - head of household	19
Highest grade attended - head of household	20
Race - head of household	22
Total number of persons in household	23
Total sample persons in household	25
Number of rooms in house	27
Is there piped water	28
If yes, is there hot and cold piped water	29
If yes to piped water - Does house have a sink with piped water	30
Does house have a range or cook stove	31
Does house have a refrigerator.....	32
Are kitchen facilities used by anyone not living in household	33
Total family income group	34
NOTE: The following income questions were asked <u>only</u> if "Total Family Income" was less than \$7,000	
During Past Year Did you or Any Members of Your Family Receive Money From:	
Wages or salaries	36
If yes - How much altogether before deductions	37
Social Security or Railroad Retirement	41
If yes - How much altogether	42
Welfare payments or other public assistance	46
If yes - How much altogether	47
Unemployment or Workman's Compensation	51
If yes - How much altogether	52
Government employee pensions or private pensions	56
If yes - How much altogether	57

Tape
Positions

Dividends, interest or rent	61
If yes - How much altogether	62
Net income from own non-farm business, professional practice or partnership	66
If yes - How much altogether	67
Net income from a farm	71
If yes - How much altogether	72
Veteran's payments	76
If yes - How much altogether	77
Alimony, child support or contributions from persons not living in household	81
If yes - How much altogether	82
Any other income	86
If yes - How much altogether	87
Total amount	91
Family unit code	95
Relationship to head of household	100
Age at interview	101
Race of examined person	103
Sex of examined person	104
Marital status	105
Date of birth (month and year)	106
Place of birth	110
Highest grade of regular school ever attended	112
Did he finish the grade	114
Is he attending school now	115
Has he ever attended a school of any kind	116
If yes - What kind of school	117
Is any language other than English frequently spoken in the household .	118
If yes - What language	119
What is your main ancestry or national origin	120
What was he doing most of past three months	122
If "something else" - What was he doing	123
If "keeping house" or "something else" - Did he work at a job or business at any time during the past three months	124
If "working" - Did he work full-time or part-time	125
Did he work at any time last week or the week before (not around house)	126
If no - Even though he did not work during that time, does he have a job or business	127

	<u>Tape Positions</u>
Was he looking for work or on lay-off from a job	128
If yes - Which	129
Class of worker	130
If self-employed in "own" business and not a farm, is the business incorporated	131
Business or industry code	132
Occupation code	135
Date of examination	138
Age at examination	144
Farm/non-farm	146
Poverty index	147
Region	150
FOOD PROGRAMS APPLICABILITY	151
Are you certified to participate in the food stamp program?	152
Are you buying food stamps now?	153
What is the main reason you aren't participating in the program?	154
Are you certified to participate in the commodity distribution program?	155
Are you receiving commodity foods now for your family?	156
Why aren't you participating in the program?	157
SAMPLE WEIGHTS	158
STRATA - Primary Sampling Unit (PSU)	194

DENTAL TAPE SUMMARY - HANES I

	<u>Tape Positions</u>
CATALOG NUMBER - 4235.....	201
 <u>Denture Status</u>	
Upper arch.....	211
Lower arch.....	212
 <u>Indices</u>	
Simplified Debris.....	213
Simplified Calculus.....	216
Simplified Oral Hygiene.....	219
Periodontal Index for Upper Arch.....	222
Periodontal Index for Lower Arch.....	225
Periodontal Index for Mouth.....	228
 Periodontal Classification, Upper Arch.....	 231
Periodontal Classification, Lower Arch.....	232
Periodontal Classification, Mouth.....	233
 Total Permanent Teeth Present.....	 234
(Upper Arch, Lower Arch, Mouth)	
Total Normal Teeth Present.....	240
(Upper Arch, Lower Arch, Mouth)	
Total Permanent Teeth Erupted.....	246
(Upper Arch, Lower Arch, Mouth)	
Total Non-Functional Carious Permanent Teeth Present.....	252
(Upper Arch, Lower Arch, Mouth)	
Total Decayed Permanent Teeth.....	258
(Upper Arch, Lower Arch, Mouth)	
 Total Missing Permanent Teeth.....	 264
(Upper Arch, Lower Arch, Mouth)	
Total Teeth Missing for Unknown Reason.....	270
(Upper Arch, Lower Arch, Mouth)	
Total Teeth Extracted for Reason Other than Caries.....	276
Total Filled Permanent Teeth Without Decay.....	278
(Upper Arch, Lower Arch, Mouth)	
Total Filled Defective Permanent Teeth.....	284
(Upper Arch, Lower Arch, Mouth)	
Sum of Decayed, Missing and Filled Permanent Teeth.....	290
(Upper Arch, Lower Arch, Mouth)	

	<u>Tape Positions</u>
Total Teeth Replaced on Satisfactory Fixed Bridge.....	296
(Upper Arch, Lower Arch, Mouth)	
Total Teeth Replaced on Defective Fixed Bridge.....	302
(Upper Arch, Lower Arch, Mouth)	
Total Teeth Replaced on Satisfactory Removable Partial Denture.....	308
(Upper Arch, Lower Arch, Mouth)	
Total Teeth Replaced on Defective Removable Partial Denture.....	314
(Upper Arch, Lower Arch, Mouth)	
Total Primary Teeth Present.....	320
(Upper Arch, Lower Arch, Mouth)	
Total Normal Primary Teeth Present.....	326
(Upper Arch, Lower Arch, Mouth)	
Total Decayed Primary Teeth.....	332
(Upper Arch, Lower Arch, Mouth)	
Total Non-Functional Carious Primary Teeth.....	338
(Upper Arch, Lower Arch, Mouth)	
Total Unerupted Primary Teeth for Ages 1-2 Years.....	344
Total Filled Primary Teeth Without Decay.....	346
(Upper Arch, Lower Arch, Mouth)	
Filled Defective Primary Teeth.....	352
(Upper Arch, Lower Arch, Mouth)	
Sum of Decayed, Non-Functional and Filled Primary Teeth.....	358
<u>Treatment Needs</u>	
No Apparent Need for Dental Care.....	364
Removal of Debris and Calculus.....	365
Gingivitis Treatment.....	366
Periodontal Disease Treatment.....	367
Severe Malocclusion Treatment.....	368
Decayed Permanent Teeth.....	369
Number of 1-Surface Fillings.....	370
Number of 2-Surface Fillings.....	372
Number of 3-(or more)Surface Fillings.....	374
Number of Extractions Indicated.....	376
Extractions, Periodontal Disease.....	378
Number of Teeth to be Extracted.....	379
Extractions, Other Reason.....	381
Number of Teeth to be Extracted.....	382

Fixed Bridges and/or Partial Removable Dentures	
Indicated for Replacing Teeth.....	384
Number of Upper Teeth.....	385
Number of Lower Teeth.....	387
Number of Bridges.....	389
Number of Partial.....	390
Repair or Reline of Denture or Bridge.....	391
Repair Upper.....	392
Repair Lower.....	393
Reline Upper.....	394
Reline Lower.....	395
Construct Full Dentures (need/no need).....	396
What to Construct.....	397
Decayed Primary Teeth (need/no need).....	398
Number of 1-Surface Fillings.....	399
Number of 2-Surface Fillings.....	401
Number of 3-(or more)Surface Fillings.....	403
Number of Extractions Indicated.....	405
 <u>Occlusion Data</u>	
Buccal Segment Relationship	
Right (Permanent/Primary).....	407
Left (Permanent/Primary).....	409
Posterior Crossbite	
Right buccal.....	411
Right lingual.....	412
Left buccal.....	413
Left lingual.....	414
Incisor Vertical Relationship	
Openbite/Overbite.....	415
HLD Index	
Overjet.....	416
Mandibular Protrusion.....	418
Overbite.....	420
Openbite.....	422
Malaligned Teeth	
Applicable/Not applicable.....	424
Upper Anterior-minor.....	425
Upper Anterior-major.....	426
Upper Posterior-minor.....	427
Upper Posterior-major.....	428

Tape
Positions

Malaligned Teeth

Lower Anterior-minor.....	429
Lower Anterior-major.....	430
Lower Posterior-minor.....	431
Lower Posterior-major.....	432
Orthodontic Appliances.....	433

Was Biopsy Done.....	434
Depth in microns.....	435
Parts per Million Fluoride.....	439

Denture Questions

When you eat, do you use an upper plate?.....	444
When you eat, do you use a lower plate?.....	445

Interview Questions

Do you have any trouble chewing steaks, chops or firm meats?.....	446
Do you have any trouble biting apples, or corn-on-the-cob?.....	447
Do you have any trouble biting or chewing any other foods?.....	448

Four or More Pairs of Opposing Serviceable

Posterior Teeth.....	449
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Other Conditions - Indicators of Vitamin C Deficiency

Bleeding Gums.....	450
Diffuse Marginal Inflammation.....	451
Swollen Red Papillae.....	452
Recession.....	453

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

ALL SAMPLE PERSONS
LOCATIONS 1-65

DEMOGRAPHIC DATA TAPE
(n=20749)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>DEMOGRAPHIC DATA</u>		
	1-5	5	<u>Sample Sequence Number</u>		
	6-9	4	<u>Catalog Number</u> 4271	20749	
	10	1	<u>Size of Place</u> 1 - Urbanized area with 3,000,000 or more 2 - Urbanized area with 1,000,000 to 2,999,999 3 - Urbanized area with 250,000 to 999,999 4 - Urbanized area under 250,000 5 - Urban place 25,000 or more outside urbanized area 6 - Urban place 10,000 to 24,999 outside urbanized area 7 - Urban place 2,500 to 9,999 outside urbanized area 8 - Rural	3368 2423 2514 2534 364 1030 1159 7357	Household Questionnaire See Detailed Notes
	11	1	<u>SMSA - Not SMSA</u> 1 - In SMSA, in central city 2 - In SMSA, not in central city 4 - Not in SMSA	7221 5420 8108	Household Questionnaire See Detailed Notes
	12	1	<u>Type of Living Quarters</u> 1 - Housing Unit 2 - Other unit	20563 186	Household Questionnaire
	13	1	<u>Land Usage</u> 1 - All other 2 - Rural	13613 7136	Household Questionnaire
	14	1	If Rural, asked <u>How Many Acres of Land Are Included?</u> 1 - 10 or more acres 2 - Less than 10 acres 9 - Not applicable	1932 5204 13613	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
15		1	<u>If 10 acres or more, asked if Sale of Crops, Etc. Amount to \$50 or more?</u>		Household Questionnaire
			2 - Yes	1160	
			4 - No	772	
			9 - Not applicable	18817	
16		1	<u>If 10 acres or less, asked if Sale of Crops, Etc. Amount to \$250 or more?</u>		Household Questionnaire
			3 - Yes	131	
			5 - No	5073	
			9 - Not applicable	15545	
17-18		2	<u>Age - Head of Household</u>		Household Questionnaire
			16-92 as given	20744	
			00 Blank, but applicable	5	Household Questionnaire
19		1	<u>Sex - Head of Household</u>		Household Questionnaire
			1 - Male	16660	
			2 - Female	4089	
20-21		2	<u>Highest Grade Attended - Head of Household</u>		Household Questionnaire
			10 - None	223	
			21 - 1st grade	82	
			22 - 2nd grade	190	
			23 - 3rd grade	379	
			24 - 4th grade	427	
			25 - 5th grade	421	
			26 - 6th grade	681	
			27 - 7th grade	702	
			28 - 8th grade	2405	
			31 - 9th grade	1121	
			32 - 10th grade	1458	
			33 - 11th grade	1133	
			34 - 12th grade	6153	
			41 - First year of college	746	
			42 - Second year of college	1081	
43 - Third year of college	485				
44 - Fourth year of college	1317				
45 - Graduate	1084				
88 - Blank, but applicable	661				

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	22	1	<u>Race - Head of Household</u> 1 - White 2 - Negro 3 - Other	16387 4149 213	Household Questionnaire See Detailed Notes
	23-24	2	<u>Total Number of Persons in Household</u> 01-19 - As given	20749	Household Questionnaire
	25-26	2	<u>Total Sample Persons in Household</u> 01-07 - As given	20749	Household Questionnaire
	27	1	<u>Number of Rooms in House</u> 1-8 - As given 9 - 9 or more	19747 1002	Household Questionnaire
	28	1	<u>Is there piped water?</u> 1 - Yes 2 - No	20043 706	Household Questionnaire
	29	1	If yes <u>Is there hot and cold piped water?</u> 1 - Yes 2 - No 9 - Not applicable	19527 518 704	Household Questionnaire
	30	1	If yes to piped water - <u>Does House Have a Sink with Piped Water?</u> 1 - Yes 2 - No 9 - Not applicable	19866 181 702	Household Questionnaire
	31	1	<u>Does House Have a Range or Cook Stove?</u> 1 - Yes 2 - No	20513 236	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
32		1	<u>Does House have a Refrigerator?</u> 1 - Yes 2 - No	20487 262	Household Questionnaire
33		1	<u>Are kitchen facilities used by anyone not living in household?</u> 1 - Yes 2 - No 9 - Not applicable	641 19418 690	Household Questionnaire
34-35		2	<u>Total Family Income Group</u> 11 - Under \$1,000 (including loss) 12 - \$1,000-1,999 13 - \$2,000-2,999 14 - \$3,000-3,999 15 - \$4,000-4,999 16 - \$5,000-5,999 17 - \$6,000-6,999 18 - \$7,000-9,999 19 - \$10,000-14,999 20 - \$15,000-19,999 21 - \$20,000-24,999 22 - \$25,000 and over 88 - Blank, but applicable	509 1248 1413 1389 1282 1147 1030 4655 4175 1830 741 612 718	Household Questionnaire See Detailed Notes
			<u>NOTE:</u> The following income questions were asked <u>only</u> if "Total Family Income" was less than \$7,000.		
			DURING PAST YEAR DID YOU OR ANY MEMBERS OF YOUR FAMILY RECEIVE MONEY FROM:		
36		1	<u>Wages or Salaries?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	4738 3384 614 12013	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
37-40		4	<u>If yes to above, how much altogether before deductions?</u>		Household Questionnaire
			0001-8000 - As given	4468	
			8888 - Blank, but applicable	884	
			9999 - Not applicable	15397	
41		1	<u>Social Security or Railroad Retirement?</u>		Household Questionnaire
			1 - Yes	2914	
			2 - No	5226	
			8 - Blank, but applicable	595	
			9 - Not applicable	12014	
42-45		4	<u>If yes to above, how much altogether?</u>		Household Questionnaire
			0001-6999 - As given	2852	
			8888 - Blank, but applicable	657	
			9999 - Not applicable	17240	
46		1	<u>Welfare Payments or Other Public Assistance?</u>		Household Questionnaire
			1 - Yes	2414	
			2 - No	5716	
			8 - Blank, but applicable	605	
			9 - Not applicable	12014	
47-50		4	<u>If yes to above, how much altogether?</u>		Household Questionnaire
			0001-6999 - As given	2383	
			8888 - Blank, but applicable	636	
			9999 - Not applicable	17730	
51		1	<u>Unemployment or Workmen's Compensation?</u>		Household Questionnaire
			1 - Yes	441	
			2 - No	7690	
			8 - Blank, but applicable	604	
			9 - Not applicable	12014	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	52-55	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable	423 622 19704	Household Questionnaire
	56	1	<u>Government Employee Pensions or Private Pensions?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	569 7561 605 12014	Household Questionnaire
	57-60	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable	553 621 19575	Household Questionnaire
	61	1	<u>Dividends, interest or rent?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	918 7212 602 12017	Household Questionnaire
	62-65	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable	870 650 19229	Household Questionnaire
	66	1	<u>Net income from own non-farm business, professional practice or partnership?</u> 1 - Yes 2 - No 3 - Loss 8 - Blank, but applicable 9 - Not applicable	350 7772 17 596 12014	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	67-70	4	<u>If yes to above, how much altogether?</u> 0000-7500 - As given 8888 - Blank, but applicable 9999 - Not applicable	316 647 19786	Household Questionnaire
	71	1	<u>Net income from a farm?</u> 1 - Yes 2 - No 3 - Loss 8 - Blank, but applicable 9 - Not applicable	406 7705 26 598 12014	Household Questionnaire
	72-75	4	<u>If yes to above, how much altogether?</u> 0000-7500 - As given 8888 - Blank, but applicable 9999 - Not applicable	388 642 19719	Household Questionnaire
	76	1	<u>Veteran's Payments</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	452 7679 601 12017	Household Questionnaire
	77-80	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable	441 612 19696	Household Questionnaire
	81	1	<u>Alimony, child support or contributions from persons not living in household?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	439 7691 602 12017	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	82-85	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable	426 615 19708	Household Questionnaire
	86	1	<u>Any other income?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	325 7799 607 12018	Household Questionnaire
	87-90	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable	313 619 19817	Household Questionnaire
	91-94	4	<u>Total Amount (Total of Positions 37-90)</u> 0000-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable	7676 1060 12013	Household Questionnaire
	95-99	5	<u>FAMILY UNIT CODE</u> 00001-23180	20749	Computer generated See Detailed Notes
	100	1	<u>Relationship to Head of Household</u> 1 - Head (1 person living alone or with non-relatives) 2 - Head (2 or more related persons in family) 3 - Wife 4 - Child 5 - Other relative	1920 4912 5256 7733 928	Household Questionnaire
	101-2	2	<u>Age at Interyiew</u> 01-74 - As given	20749	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
103		1	<u>Race of Examined Person</u> 1 - White 2 - Negro 3 - Other	16351 4163 235	Household Questionnaire See Detailed Notes
104		1	<u>Sex of Examined Person</u> 1 - Male 2 - Female	8821 11928	Household Questionnaire
105		1	<u>Marital Status</u> 1 - Under 17 2 - Married 3 - Widowed 4 - Never married 5 - Divorced 6 - Separated 8 - Blank, but applicable	6781 9338 1292 2265 596 465 12	Household Questionnaire
106-9		4	<u>Date of Birth (month, year)</u> 01-12 - Month as given 00-99 - Year (1896-1979) as given	20749 20749	Household Questionnaire
110-11		2	<u>Place of Birth</u> 01-02 04-06 08-13 15-42 } As given 44-51 53-56 60-81 91-97 88 - Blank, but applicable	20605 144	Household Questionnaire See Detailed Notes

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
112-13		2	<u>Highest Grade of regular school ever attended?</u>		Household Questionnaire
			10 - None	240	
			21 - 1st Grade	438	
			22 - 2nd Grade	445	
			23 - 3rd Grade	556	
			24 - 4th Grade	660	
			25 - 5th Grade	654	
			26 - 6th Grade	757	
			27 - 7th Grade	833	
			28 - 8th Grade	1897	
			31 - 9th Grade	1070	
			32 - 10th Grade	1263	
			33 - 11th Grade	968	
			34 - 12th Grade	4642	
			41 - First year of college	659	
			42 - Second year of college	809	
			43 - Third year of college	343	
			44 - Fourth year of college	883	
			45 - Graduate	540	
			77 - Special School	18	
88 - Blank, but applicable	108				
99 - Not applicable	2966				
114		1	<u>Did he finish the grade?</u>	11380	Household Questionnaire
			1 - Yes	5929	
			2 - No	234	
			8 - Blank, but applicable	3206	
			9 - Not applicable		
115		1	<u>Is he attending school now?</u>	3857	Household Questionnaire
			1 - Yes	476	
			2 - No	0	
			8 - Blank, but applicable	16416	
			9 - Not applicable		

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
116		1	<u>Has he ever attended a school of any kind?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	668 1127 0 18954	Household Questionnaire
117		1	<u>If yes, what kind of school?</u> 1 - Nursery 2 - Kindergarten 3 - Other 4 - Headstart 5 - Daycare 8 - Blank, but applicable 9 - Not applicable	150 362 73 45 38 0 20081	Household Questionnaire
118		1	<u>Is any language other than English frequently spoken in the household?</u> 1 - Yes 2 - No 8 - Blank, but applicable	2437 18110 202	Household Questionnaire
119		1	<u>If yes, what language?</u> 0 - German 1 - Italian 2 - French 3 - Polish 4 - Russian 5 - Spanish 6 - Chinese 7 - Other language 8 - Blank, but applicable 9 - Not applicable	146 137 410 82 19 1202 31 400 212 18110	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES 1)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
- 30 -	120-21	2	<u>What is your main ancestry or national origin?</u>	3385	Household Questionnaire
			00 - German	2592	
			01 - Irish	643	
			02 - Italian	1104	
			03 - French	525	
			04 - Polish	188	
			05 - Russian	2541	
			06 - English	436	
			07 - Spanish	685	
			08 - Mexican	40	
			09 - Chinese	45	
			10 - Japanese	352	
			11 - American Indian	4173	
			12 - Negro	56	
			13 - Jewish	1455	
			14 - American	1956	
			15 - Other	66	
			88 - Blank, but applicable	507	
			99 - Don't know		
			122	1	
1 - Working	4869				
2 - Keeping house	2712				
3 - Something else	27				
8 - Blank, but applicable	6770				
9 - Not applicable					
123	1	1	<u>If "something else" from above, what was he doing?</u>	28	Household Questionnaire
			0 - Laid off	1320	
			1 - Retired	792	
			2 - Student	117	
			3 - Other	123	
			4 - Ill	56	
			5 - Staying home	57	
			6 - Looking for work	220	
			7 - Unable to work	26	
			8 - Blank, but applicable	18010	
9 - Not applicable					

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
124		1	<u>If "keeping house" or "something else" from above, did he work at a job or business at any time during the past three months?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	1054 6522 36 13137	Household Questionnaire
125		1	<u>If "Working" from above, did he work full-time or part-time?</u> 1 - Full-time 2 - Part-time 8 - Blank, but applicable 9 - Not applicable	5705 1714 38 13292	Household Questionnaire
126		1	<u>Did he work at any time last week or the week before? (not around house)</u> 1 - Yes. 2 - No 8 - Blank, but applicable 9 - Not applicable	6600 755 103 13291	Household Questionnaire
127		1	<u>If "no" to above, even though he did not work during that time, does he have a job or business?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	397 6878 104 13370	Household Questionnaire
128		1	<u>If "no" in Position 126, was he looking for work or on lay-off from a job?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	537 6738 104 13370	Household Questionnaire

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	129	1	<u>If yes to above - which?</u> 1 - Looking 2 - Lay-off 3 - Both 8 - Blank, but applicable 9 - Not applicable	405 109 24 104 20107	Household Questionnaire
	130	1	<u>Class of Worker</u> 1 - Private paid 2 - Government-Federal 3 - Government-Other 4 - Own 5 - Non-paid 6 - Never worked 8 - Blank, but applicable 9 - Not applicable	5462 248 1001 745 122 60 25 13086	Household Questionnaire
	131	1	<u>If self-employed in "own" business and not a farm, is the business incorporated?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	83 535 26 20105	Household Questionnaire
	132-34	3	<u>Business or Industry Code</u> 017-999 - As given	20749	Household Questionnaire See Detailed Notes
	135-37	3	<u>Occupation Code</u> 001-995 As given	20749	Household Questionnaire See Detailed Notes
	138-43	6	<u>Date of Examination</u> Month - 01-12 as given Day - 01-31 as given Year - 71-75 as given	20749	Control Record

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	144-45	2	<u>Age at Examination</u> 01-75 - As given	20749	Computer generated
	146	1	<u>Farm</u> 1 - Farm 2 - Nonfarm	1291 19458	Computer generated See Detailed Notes
	147-49	3	<u>Poverty Index (X,XX)</u> 001-997 - As given 998 - Index computed 998 or greater 999 - Unknown	20002 25 722	Computer generated See Detailed Notes
	150	1	<u>Region</u> 1 - Northeast 2 - Midwest 3 - South 4 - West	4442 5101 5603 5603	Computer generated See Detailed Notes
	151	1	<u>FOOD PROGRAMS APPLICABILITY</u> 1 - Not applicable 2 - No program available 3 - Food stamps available 4 - Commodities available 8 - Blank, but applicable	14683 112 5142 760 52	Food Programs Quest.
	152	1	<u>Are you certified to participate in the food stamp program?</u> 1 - Yes 2 - No 9 - Don't know Blank	2374 1934 126 16315	Food Programs Quest.

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	153	1	<u>Are you buying stamps now?</u> 1 - Yes, regularly 2 - Yes, occasionally 3 - No 8 - Blank, but applicable Blank	1965 89 307 13 18375	Food Programs Quest.
	154	1	<u>What is the main reason you aren't participating in the program?</u> 1 - No need 2 - Not enough money at the time 3 - No transportation 4 - Pride 5 - Other 8 - Blank, but applicable Blank	33 121 16 8 111 18 20442	Food Programs Quest.
	155	1	<u>Are you certified to participate in the commodity distribution program?</u> 1 - Yes 2 - No 9 - Don't know Blank	215 423 25 20086	Food Programs Quest.
	156	1	<u>Are you receiving commodity foods now for your family?</u> 1 - Yes, regularly 2 - Yes, occasionally 3 - No 8 - Blank, but applicable Blank	159 14 39 3 20534	Food Programs Quest.
	157	1	<u>Why aren't you participating in the program?</u> 1 - No need 2 - No transportation 3 - Pride 4 - Other 8 - Blank, but applicable Blank	16 5 2 15 1 20710	Food Programs Quest.

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>SAMPLE WEIGHTS</u>		
	158-63	6	Detailed Persons, Location 01-35 Blanks	1892 18857	See Detailed Notes
	164-69	6	All Sample Persons, Locations 01-35 Blanks	10127 10622	See Detailed Notes
	170-75	6	Detailed Persons, Locations 01-65 Blanks	3854 16895	See Detailed Notes
	176-81	6	All Sample Persons, Locations 01-65 Blanks	20749 0	See Detailed Notes
	182-193	12	<u>Data User Work Area</u>		
	194-195	2	<u>Strata</u> ^{1/}		
	196-198	3	<u>Primary Sampling Units</u> ^{1/}		
	199-200	2	<u>Data User Work Area</u>		
			^{1/} Use only for producing variance estimates for examination locations 1-65 or 1-100. See the General Note titled "Variance Estimation" for producing variance estimates for examination locations 1-35 or 66-100.		

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

DENTAL TAPE DESCRIPTION

(n=20749)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	201-204	4	<u>Catalog Number</u> - 4235		Dental Examination
	205-210	6	Blank - Data user work area		
			<u>DENTURE STATUS</u>		
	211	1	<u>Upper arch</u>		
			0 - Dentulous	16717	
			1 - Edentulous, denture absent	318	
			2 - Edentulous, denture present	2416	
			3 - Edentulous, denture defective	818	
			4 - Edentulous, denture status unknown	447	
			6 - No teeth erupted, ages 1-2	33	
	212	1	<u>Lower arch</u>		
			0 - Dentulous	17962	
			1 - Edentulous, denture absent	429	
			2 - Edentulous, denture present	1530	
			3 - Edentulous, denture defective	578	
			4 - Edentulous, denture status unknown	216	
			6 - No teeth erupted, ages 1-2	34	
			<u>INDICES: POSITIONS 213-233</u>		See Detailed Notes.
	213-215	3	<u>Simplified Debris Index (DI-S)</u>		
			0.00-3.00 - (Decimal point not on tape)	13981	
			999 - Data missing or none of teeth used for DI-S were present	6768	
	216-218	3	<u>Simplified Calculus Index (CI-S)</u>		
			0.00-3.00 - (Decimal point not on tape)	13981	
			999 - Data missing or none of teeth used for CI-S were present	6768	
	219-221	3	<u>Simplified Oral Hygiene Index (OHI-S)</u>		
			0.00-6.00 - (Decimal point not on tape)	13981	
			999 - Data missing or none of teeth used for OHI-S were present	6768	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Dental Examination
222-224		3	<u>Periodontal Index for Upper Arch (PIU)</u> 0.00-8.00 - (Decimal point not on tape) 888 - Inconsistent data 999 - N/A: Edentulous Arch, or all present teeth are nonfunctional carious with all surfaces decayed and no PI scored, or no teeth erupted (ages 1-2)	16656 32 4061	
225-227		3	<u>Periodontal Index for Lower Arch (PIL)</u> 0.00-8.00 - (Decimal point not on tape) 888 - Inconsistent data 999 - N/A: Edentulous Arch or all present teeth are nonfunctional carious with all surfaces decayed and no PI scored, or no teeth erupted (ages 1-2)	17864 80 2805	
228-230		3	<u>Periodontal Index for Mouth (PI)</u> 0.00-8.00 - (Decimal point not on tape) 999 - Both arches edentulous or all present teeth are nonfunctional carious with all surfaces decayed and no PI scored, or no teeth erupted (ages 1-2)	18020 2729	
231		1	<u>Periodontal Classification, Upper Arch</u> 1 - Zero Perio (no periodontal disease; PIU less than 0.05) 2 - Gingivitis 3 - Pockets 4 - 4+ pockets 5 - Inconsistent data 6 - Edentulous or all teeth present are nonfunctional carious with all surfaces decayed and no PI scored 7 - No teeth erupted, ages 1-2	11366 3383 779 1128 32 4028 33	
232		1	<u>Periodontal Classification, Lower Arch</u> 1 - Zero Perio (no periodontal disease; PIL less than 0.05) 2 - Gingivitis 3 - Pockets 4 - 4+ pockets 5 - Inconsistent data 6 - Edentulous or all teeth present are nonfunctional carious with all surfaces decayed and no PI scored 7 - No teeth erupted, ages 1-2	11455 3901 740 1768 80 2771 34	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	233	1	<u>Periodontal Classification, Mouth</u> 1 - Zero Perio (no periodontal disease; PI less than 0.05) 2 - Gingivitis 3 - Pockets 4 - 4+ pockets in mouth 5 - Inconsistent data for both arches 6 - Both arches edentulous or all teeth present are nonfunctional carious with all surfaces decayed and no PI scored 7 - No teeth erupted, ages 1-2 COUNTS: POSITIONS 234-363	11371 3649 771 2229 0 2705 24	Dental Examination
	234-5	2	<u>Total Permanent Teeth Present (PRM)</u> Upper Arch: 00-16 as given	20749	See Detailed Notes
	236-7	2	Lower Arch: 00-16 as given	20749	
	238-9	2	Mouth: 00-32 as given	20749	
	240-1	2	<u>Total Normal Permanent Teeth Present (N)</u> Upper Arch: 00-16 as given	20749	
	242-3		Lower Arch: 00-16 as given	20749	
	244-5		Mouth: 00-32 as given	20749	
	246-7	2	<u>Total Permanent Teeth Erupted (PTE)</u> Upper Arch: 00-16 as given	20749	
	248-9	2	Lower Arch: 00-16 as given	20749	
	250-1	2	Mouth: 00-32 as given	20749	
	252-3	2	<u>Total Non-Functional Carious Permanent Teeth Present (XD)</u> Upper Arch: 00-15 as given	20749	
	254-5	2	Lower Arch: 00-16 as given	20749	
	256-7	2	Mouth: 00-27 as given	20749	
	258-9	2	<u>Total Decayed Permanent Teeth Present (D)</u> Upper Arch: 00-15 as given	20749	
	260-1	2	Lower Arch: 00-11 as given	20749	
	262-3	2	Mouth: 00-25 as given	20749	

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Dental Examination
			<u>Total Missing Permanent Teeth (because of caries) (M)</u>		
	264-5	2	Upper Arch: 00-16 as given	20749	
	266-7	2	Lower Arch: 00-16 as given	20749	
	268-9	2	Mouth: 00-32 as given	20749	
			<u>Total Teeth Missing for Unknown Reason (MUNK)</u>		
	270-1	2	Upper Arch: 00-08 as given	20749	
	272-3	2	Lower Arch: 00-08 as given	20749	
	274-5	2	Mouth: 00-11 as given	20749	
			<u>Total Teeth Extracted for Reason Other than Caries (XTR)</u>		
	276-7	2	00-20 as given	20749	
			<u>Total Filled Permanent Teeth Without Decay (F)</u>		
	278-9	2	Upper Arch: 00-16 as given	20749	
	280-1	2	Lower Arch: 00-15 as given	20749	
	282-3	2	Mouth: 00-28 as given	20749	
			<u>Total Filled Defective Permanent Teeth (FD)</u>		
	284-5	2	Upper Arch: 00-07 as given	20749	
	286-7	2	Lower Arch: 00-08 as given	20749	
	288-9	2	Mouth: 00-10 as given	20749	
			<u>Sum of Decayed (D), Missing (M), and Filled (F) Permanent Teeth (DMF)</u>		
	290-1	2	Upper Arch: 00-16 as given	20749	
	292-3	2	Lower Arch: 00-16 as given	20749	
	294-5	2	Mouth: 00-32 as given	20749	
			<u>Total Teeth Replaced on Satisfactory Fixed Bridge (RF)</u>		
	296-7	2	Upper Arch: 00-07 as given	20749	
	298-9	2	Lower Arch: 00-07 as given	20749	
	300-1	2	Mouth: 00-10 as given	20749	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>Total Teeth Replaced on Defective Fixed Bridge (RR)</u>		Dental Examination
	302-3	2	Upper Arch: 00-07 as given	20749	
	304-5	2	Lower Arch: 00-07 as given	20749	
	306-7	2	Mouth: 00-09 as given	20749	
			<u>Total Teeth Replaced on Satisfactory Removable Partial Denture (RFD)</u>		
	308-9	2	Upper Arch: 00-14 as given	20749	
	310-1	2	Lower Arch: 00-12 as given	20749	
	312-3	2	Mouth: 00-21 as given	20749	
			<u>Total Teeth Replaced on Defective Removable Partial Denture (RRD)</u>		
	314-5	2	Upper Arch: 00-14 as given	20749	
	316-7	2	Lower Arch: 00-14 as given	20749	
	318-9	2	Mouth: 00-28 as given	20749	
			<u>Total Primary Teeth Present (PRI)</u>		
	320-1	2	Upper Arch: 00-10 as given	20749	
	322-3	2	Lower Arch: 00-10 as given	20749	
	324-5	2	Mouth: 00-20 as given	20749	
			<u>Total Normal Primary Teeth Present (NI)</u>		
	326-7	2	Upper Arch: 00-10 as given	20749	
	328-9	2	Lower Arch: 00-10 as given	20749	
	330-1	2	Mouth: 00-20 as given	20749	
			<u>Total Decayed Primary Teeth (d) (includes filled teeth with carious lesions or defective fillings)</u>		
	332-3	2	Upper Arch: 00-10 as given	20749	
	334-5	2	Lower Arch: 00-10 as given	20749	
	336-7	2	Mouth: 00-20 as given	20749	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Dental Examination
			<u>Total Nonfunctional Carious Primary Teeth (e)</u>		
	338-9	2	Upper Arch: 00-10 as given	20749	
	340-1	2	Lower Arch: 00-08 as given	20749	
	342-3	2	Mouth: 00-16 as given	20749	
			<u>Total Unerupted Primary Teeth for Ages 1-2 Years (DTE)</u>		
	344-5	2	00-20 as given	20749	
			<u>Total Filled Primary Teeth Without Decay (f)</u>		
	346-7	2	Upper Arch: 00-09 as given	20749	
	348-9	2	Lower Arch: 00-07 as given	20749	
	350-1	2	Mouth: 00-13 as given	20749	
			<u>Filled Defective Primary Teeth (fd)</u>		
	352-3	2	Upper Arch: 00-02 as given	20749	
	354-5	2	Lower Arch: 00-03 as given	20749	
	356-7	2	Mouth: 00-04 as given	20749	
			<u>Sum of Decayed (d), Nonfunctional (e), and Filled (f) Primary Teeth (def)</u>		
	358-9	2	Upper Arch: 00-10 as given	20749	
	360-1	2	Lower Arch: 00-10 as given	20749	
	362-3	2	Mouth: 00-20 as given	20749	
			<u>TREATMENT NEEDS: POSITIONS 364-406</u>		
	364	1	<u>No Apparent Need for Dental Care</u> 0 - No need 1 - Need(s) present as given below	7921 12828	
	365	1	<u>Removal of Debris and Calculus</u> 0 - No need 1 - Need indicated	13846 6903	
					See Detailed Notes.

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Dental Examination
	366	1	<u>Gingivitis Treatment</u> 0 - No need 1 - Need indicated	17391 3358	
	367	1	<u>Periodontal Disease Treatment</u> 0 - No need 1 - Need indicated	18640 2109	
	368	1	<u>Severe Malocclusion Treatment</u> 0 - No need 1 - Need indicated	20422 327	
- 41 -	369	1	<u>Decayed Permanent Teeth; Positions 369-377</u> 0 - No need 1 - Needs as given below	13630 7119	
	370- 371	2	<u>Number of 1 - Surface Fillings</u> 00-20 as given	20749	
	372- 373	2	<u>Number of 2 - Surface Fillings</u> 00-20 as given	20749	
	374- 375	2	<u>Number of 3 - (or more) Surface Fillings</u> 00-20 as given	20749	
	376- 377	2	<u>Number of Extractions Indicated</u> 00-27 as given	20749	
	378	1	<u>Extractions, Periodontal Disease; Positions 378-380</u> 0 - No need 1 - Need indicated	20080 669	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Dental Examination
379-380		2	<u>Number of Teeth to be Extracted</u> 00-31 as given	20749	
381		1	<u>Extractions, Other Reason: Positions 381-383</u> 0 - No need 1 - Need indicated	20087 662	
382-383		2	<u>Number of Teeth to be Extracted</u> 00-21 as given	20749	
384		1	<u>Fixed Bridges and/or Partial Removable Dentures Indicated for Replacing Teeth: Positions 384-390</u> 0 - No need 1 - Need indicated	17532 3217	
385-386		2	<u>Number of Upper Teeth</u> 00-16 as given	20749	
387-388		2	<u>Number of Lower Teeth</u> 00-13 as given	20749	
389		1	<u>Number of Bridges</u> 0-5 as given	20749	
390		1	<u>Number of Partials</u> 0-4 as given	20749	
391		1	<u>Repair or Reline of Denture or Bridge: Positions 391-395</u> 0 - No need 1 - Need indicated	20154 595	
392		1	<u>Repair Upper</u> 0 - Not applicable 1 - Full denture 2 - Partial denture	20649 77 23	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	393	1	<u>Repair Lower</u> 0 - Not applicable 1 - Full denture 2 - Partial denture	20682 40 27	Dental Examination
	394	1	<u>Reline Upper</u> 0 - Not applicable 1 - Full denture 2 - Partial denture	20352 381 16	
	395	1	<u>Reline Lower</u> 0 - Not applicable 1 - Full denture 2 - Partial denture	20443 289 17	
	396	1	<u>Construct Full Dentures: Positions 396-397</u> 0 - No need 1 - Need indicated	18919 1830	
	397	1	<u>What to Construct</u> 0 - Not applicable 1 - Full upper 2 - Full lower 3 - Full upper and full lower	18919 387 258 1185	
	398	1	<u>Decayed Primary Teeth: Positions 398-406</u> 0 - No need 1 - Needs as given below	19367 1382	
	399-400	2	<u>Number of 1 - Surface Fillings</u> 00-13 as given	20749	
	401-402	2	<u>Number of 2 - Surface Fillings</u> 00-10 as given	20749	
	403-404	2	<u>Number of 3 - (or more) Surface Fillings</u> 00-12 as given	20749	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	405-406	2	<u>Number of Extractions Indicated</u> 00-16 as given	20749	Dental Examination
			<u>OCCLUSION DATA - POSITIONS 407-433</u>		See Detailed Notes.
			<u>Buccal Segment Relationship</u>		
	407-408	2	<u>Right</u>		
			<u>Permanent Teeth</u>		
			01 - Mesial - severe	102	
			02 - Mesial - moderate	198	
			03 - Normal	3141	
			04 - Distal - moderate	398	
			05 - Distal - severe	155	
			<u>Primary Teeth</u>		
			06 - Mesial - severe	0	
			07 - Mesial - moderate	2	
			08 - Normal	46	
			09 - Distal - severe	1	
			10 - Distal - severe	0	
			99 - Not applicable	16706	
	409-410	2	<u>Left</u>		
			<u>Permanent Teeth</u>		
			01 - Mesial - severe	97	
			02 - Mesial - moderate	193	
			03 - Normal	3172	
			04 - Distal - moderate	391	
			05 - Distal - severe	141	

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>Primary Teeth</u> 06 - Mesial - severe 07 - Mesial - moderate 08 - Normal 09 - Distal - moderate 10 - Distal - severe 99 - Not applicable	0 1 46 2 0 16706	Dental Examination
			<u>Posterior Crossbite</u>		
	411	1	<u>Right buccal</u> 0-4 - Number of teeth 9 - Not applicable	4026 16723	
	412	1	<u>Right lingual</u> 0-5 - Number of teeth 9 - Not applicable	4029 16720	
	413	1	<u>Left buccal</u> 0-5 - Number of teeth 9 - Not applicable	4030 16719	
	414	1	<u>Left lingual</u> 0-5 - Number of teeth 9 - Not applicable	4036 16713	
	415	1	<u>Incisor Vertical Relationship</u> <u>Openbite:</u> 1 - Over 4 mm. 2 - Greater than 2, but less than or equal to 4 mm. 3 - 0 to 2 mm. <u>Overbite:</u> 4 - Incisal 3rd 5 - Middle 3rd 6 - Gingival 3rd 7 - Tissue 8 - Impinging 9 - Not applicable	26 34 131 1590 1581 448 34 40 16865	

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>HLD (Handicapping Labio-Lingual Deviations) Index (xx.-mm)</u>		Dental Examination
416-417		2	<u>Overjet</u> 00-33 - as given 99 - Not applicable	3814 16935	
418-419		2	<u>Mandibular Protrusion</u> 00-08 - as given 99 - Not applicable	64 20685	
420-421		2	<u>Overbite</u> 00-11 - as given 99 - Not applicable	3685 17064	
422-423		2	<u>Openbite</u> 00-20 - as given 99 - Not applicable	175 20574	
			<u>Malaligned Teeth</u>		
424		1	<u>Not applicable</u> 0 - Applicable 1 - Not applicable	3878 16871	
425		1	<u>Upper Anterior * Minor</u> 0-6 - as given 9 - Not applicable or not given	3858 16891	
426		1	<u>Upper Anterior * Major</u> 0-6 - as given 9 - Not applicable or not given	3862 16887	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Dental Examination
	427	1	<u>Upper Posterior - Minor</u> 0-5 - as given 9 - Not applicable or not given	3861 16888	
	428	1	<u>Upper Posterior - Major</u> 0-4 - as given 9 - Not applicable or not given	3864 16885	
	429	1	<u>Lower Anterior - Minor</u> 0-6 - as given 9 - Not applicable or not given	3851 16898	
	430	1	<u>Lower Anterior - Major</u> 0-6 - as given 9 - Not applicable or not given	3861 16888	
	431	1	<u>Lower Posterior - Minor</u> 0-4 - as given 9 - Not applicable or not given	3861 16888	
	432	1	<u>Lower Posterior - Major</u> 0-4 - as given 9 - Not applicable or not given	3865 16884	
	433	1	<u>Orthodontic Appliances</u> 0 - Absent 1 - Present	20623 126	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>ENAMEL BIOPSY: POSITIONS 434-443</u>		
	434	1	<u>Was biopsy done?</u> 0 - Yes, no data received 1 - Yes, tooth number unknown 2 - No, teeth absent 3 - No, equipment failure 4 - No, other reason 5 - No, reason unknown 6 - Yes, tooth number 10 7 - Yes, tooth number 7 8 - Yes, tooth number 8 9 - Yes, tooth number 9	283 387 7115 1242 5279 1349 10 16 2550 2518	Dental Examination See Detailed Notes.
	435- 438	4	<u>Depth in microns</u> 0025-1537 - as given Blank	5481 15268	
	439- 443	5	<u>Parts per million Fluoride</u> 00021-24786 Blank	5481 15268	
			<u>OTHER DATA - POSITIONS 444-453</u>		
	444	1	<u>When you eat, do you use an upper plate?</u> 0 - No 1 - Yes 8 - Unknown 9 - Not edentulous or under 5 years of age	327 3268 408 16746	
	445	1	<u>When you eat, do you use a lower plate?</u> 0 - No 1 - Yes 8 - Unknown 9 - Not edentulous or under 5 years of age	439 2110 208 17992	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Dental Examination
	446	1	<u>Do you have any trouble chewing steaks, chops or firm meats?</u> 0 - No 1 - Yes 9 - Under 12 years of age	14022 1775 4952	
	447	1	<u>Do you have any trouble biting apples or corn-on-the-cob?</u> 0 - No 1 - Yes 9 - Under 12 years of age	13898 1899 4952	
	448	1	<u>Do you have any trouble biting or chewing any other foods?</u> 0 - No 1 - Yes 9 - Under 12 years of age	14368 1429 4952	
	449	1	<u>Four or More Pairs of Opposing Serviceable Posterior Teeth</u> 0 - Absent 1 - Present 8 - Unknown (edentulous, dental status unknown in one or both arches) NOTE: Data in this field are not fully edited. Inconsistencies may be found. <u>Other Conditions: Indicators of Vitamin C Deficiency</u>	3135 17554 60	See Detailed Notes.
	450	1	<u>Bleeding Gums</u> 0 - No 1 - Yes 9 - Not applicable (fully edentulous)	17558 472 2719	
	451	1	<u>Diffuse Marginal Inflammation</u> 0 - No 1 - Yes 9 - Not applicable (fully edentulous)	14198 3832 2719	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
452	1	<u>Swollen Red Papillae</u>	0 - No 1 - Yes 9 - Not applicable (fully edentulous)	16168 1862 2719	Dental Examination
453	1	<u>Recession</u>	0 - No 1 - Yes 9 - Not applicable (fully edentulous)	16009 2021 2719	
454-500	57	Blank - Data user work area			

DETAILED NOTE

TAPE POSITIONS 222-230

There are 65 records in which the only present teeth are nonfunctional carious:

- 1) In ten of these records all tooth surfaces are decayed and there is no Periodontal disease; in these 10 records the Periodontal index for the arch(es) containing teeth is 999.
- 2) In the other 55 records, not all of the tooth surfaces are decayed or there is Periodontal disease; in these 55 records the PI for the arch(es) containing teeth is in the range 0.00-8.00.

DETAILED NOTE

TAPE POSITIONS 234-363

<u>Count</u>	<u>Includes</u>	<u>Is a subset of</u>	<u>Overlaps</u>	<u>Not counted elsewhere</u>
PRM	N, XD, D, F, FD	PTE	M, DMF	
N		PRM, PTE		
PTE	PRM, N, XD, D, M, XTR, F, FD, DMF		RF, RR, RFD, RRD	
XD		PRM, PTE, M, DMF		
D	FD	PRM, PTE, DMF		
M	XD	PTE, DMF	PRM, RF, RR, RFD, RRD	
MUNK				MUNK
XTR		PTE	RF, RR, RFD, RRD	
F		PRM, PTE, DMF		
FD		PRM, PTE, D, DMF		
DMF	XD, D, M, F, FD	PTE	PRM, RF, RR, RFD, RRD	
RF			PTE, M, XTR, DMF	
RR			PTE, M, XTR, DMF	
RFD			PTE, M, XTR, DMF	
RRD			PTE, M, XTR, DMF	
PRI	NI, d, e, f, fd, def			
NI		PRI		
d	fd	PRI, def		
e		PRI, def		
DTE				DTE
f		PRI, def		
fd		PRI, d, def		
def	d, e, f, fd	PRI		

NOTE: This is a reference list to show how the counts are related, not how they were constructed. The relationship of each count to all other counts is given where a relationship exists.

DETAILED NOTES
TAPE POSITION 10

Size of Place

Size of place classification was derived from the 1960 census. According to the definition used in the 1960 census, the urban population was comprised of all persons living in (a) places of 2,500 inhabitants or more incorporated as cities, boroughs, villages and towns (except towns in New York, New England, and Wisconsin); (b) the densely settled urban fringe, whether incorporated or unincorporated, of urbanized areas; (c) towns in New England and townships in New Jersey and Pennsylvania which contained no incorporated municipalities as subdivisions and had either 2,500 inhabitants or more, or a population of 2,500 to 25,000 and a density of 1,500 persons or more per square mile; (d) counties in states other than the New England states, New Jersey, and Pennsylvania, that had no incorporated municipalities within their boundaries and had a density of 1,500 persons per square mile; and (e) unincorporated places of 2,500 inhabitants or more not included in any urban fringe. The remaining population was classified as rural.

Urban areas are further classified by population size for places within urbanized areas and other places outside urbanized areas.

DETAILED NOTES

TAPE POSITION 11

SMSA

A standard metropolitan statistical area is basically a county or a group of contiguous counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition to the county or counties containing such a city or cities, contiguous counties are included in an SMSA if, according to the 1960 Census, they are socially and economically integrated with the central city. Each SMSA must include at least one central city, and the complete title of an SMSA identifies the central city or cities.

DETAILED NOTES

TAPE POSITIONS 22 AND 103

Race

The race of the respondent was marked by observation and it was assumed the race of all related persons was the same as the respondent unless otherwise learned. The race categories were "White", "Negro" or "other." If the appropriate category could not be marked by observation, then race was asked. Persons of races other than White or Negro, such as Japanese, Chinese, American Indian, Korean, Hindu, Eskimo, etc. were reported as "Other." Mexicans were included with "White" unless definitely known to be American Indian or of other nonwhite race.

DETAILED NOTES

TAPE POSITIONS 34-35

Total Family Income Group

The income group represents the total combined family income for the past twelve (12) months. It includes income from all sources such as wages, salaries, social security or retirement benefits, help from relatives, rent from property and so forth. The income groups were not reconciled to the component parts (tape positions 36-94). The income component parts were not asked when the gross income was greater than \$6,999 per annum. However, amounts greater than \$6,999 appear in tape positions 37-40, 67-70, and 72-75. Some respondents reported a loss of income from their nonfarm business, professional practice, partnership or farm and this explains why some data fields are greater than \$6,999, but the individual total in tape positions 91-94 does not exceed this figure.

DETAILED NOTES

TAPE POSITIONS 95-99

Family Unit Code

All related sample persons in the same family unit have the same computer generated family unit code. This will enable detailed analysis of the individual family unit.

DETAILED NOTES
TAPE POSITIONS 110-111

UNITED STATES			OUTLYING AREAS OF THE U.S.	
	Standard Abbreviation	Code	Name of Place	Code
ALABAMA	Ala.	01	American Samoa	60
ALASKA	Alaska	02	Canal Zone	61
ARIZONA	Ariz.	04	Canton and Enderbury Islands	62
ARKANSAS	Ark.	05	Caroline Islands	63
CALIFORNIA	Calif.	06	Cook Islands	64
COLORADO	Colo.	08	Gilbert and Ellice Islands	65
CONNECTICUT	Conn.	09	Guam	66
DELAWARE	Del.	10	Johnston Atoll	67
DIST. OF COLUMBIA	D.C.	11	Line Islands - Southern	68
FLORIDA	Fla.	12	Mariana Islands	69
GEORGIA	Ga.	13	Marshall Islands	70
HAWAII	Hawaii	15	Midway Islands	71
IDAHO	Idaho	16	Puerto Rico	72
ILLINOIS	Ill.	17	Ryukyn Islands - Southern	73
INDIANA	Ind.	18	Swan Islands	74
IOWA	Iowa	19	Tokelau Islands	75
KANSAS	Kans.	20	U.S. Misc. Caribbean	76
KENTUCKY	Ky.	21	U.S. Misc. Pacific Islands	77
LOUISIANA	La.	22	Virgin Islands	78
MAINE	Maine	23	Wake Islands	79
MARYLAND	Md.	24	Cuba	80
MASSACHUSETTS	Mass.	25	West Indies	81
MICHIGAN	Mich.	26	North America	91
MINNESOTA	Minn.	27	South America	92
MISSISSIPPI	Miss.	28	Europe	93
MISSOURI	Mo.	29	Africa	94
MONTANA	Mont.	30	Asia	95
NEBRASKA	Nebr.	31	Australasia	96
NEVADA	Nev.	32	Pacific Islands	97
NEW HAMPSHIRE	N.H.	33		
NEW JERSEY	J.J.	34		
NEW MEXICO	N. Mex.	35		
NEW YORK	N.Y.	36		
NORTH CAROLINA	N.C.	37		
NORTH DAKOTA	N. Dak.	38		
OHIO	Ohio	39		
OKLAHOMA	Okla.	40		
OREGON	Oreg.	41		
PENNSYLVANIA	Pa.	42		
RHODE ISLAND	R.I.	44		
SOUTH CAROLINA	S.C.	45		
SOUTH DAKOTA	S. Dak.	46		
TENNESSEE	Tenn.	47		
TEXAS	Tex.	48		
UTAH	Utah	49		
VERMONT	Vt.	50		
VIRGINIA	Va.	51		
WASHINGTON	Wash.	53		
WEST VIRGINIA	W. Va.	54		
WISCONSIN	Wis.	55		
WYOMING	Wyo.	56		

DETAILED NOTES

TAPE POSITIONS 132-134 AND 135-137

Industry and Occupation Codes

A person's occupation may be defined as his principal job or business. For this survey purpose, the principal job or business of a respondent is defined in one of the following ways: If the person worked during the two week interview period or had a job or business, the question concerning his occupation (or work) applies to his job during that period. If the respondent held more than one job, the question is directed to the one at which he spent the most time. It refers to the one he considers most important when equal time is spent at each job. A person who has not begun work at a new job, is looking for work, or is on layoff from work is questioned about his last full-time civilian job. A full-time job is defined as one at which the person spent 35 or more hours per week and which lasted two consecutive weeks or more. A person who has a job to which he has not yet reported and has never had a previous job or business is classified as a "new worker."

The 1970 census of population Alphabetical Index of Industries and Occupations was used in the coding of both the industry and occupation.

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DETAILED NOTES

TAPE POSITION 146

Land used for farming purposes (Code 1 in Tape Position 146) was identified as being rural land (Code 2 in Tape Position 13) consisting of 10 or more acres (Code 1 in Tape Position 14) with crop sales amounting to \$50 or more (Code 2 in Tape Position 15), or rural land (Code 2 in Tape Position 13) consisting of less than 10 acres (Code 2 in Tape Position 14) with crop sales amounting to \$250 or more (Code 3 in Tape Position 16). All Other land is classified as nonfarm (Code 2 in Tape Position 146).

DETAILED NOTES

TAPE POSITIONS 147-149

Poverty Index--Income status was determined by the Poverty Income Ratio (PIR). Poverty statistics published in the Census Bureau reports^{1/} were based on the poverty index developed by the Social Security Administration in 1964. (For a detailed discussion of the SSA poverty standards, see reference 2.) Modifications in the definition of poverty were adopted in 1969.^{3/} The standard data series in poverty for statistical use by all executive departments and establishments has been established.^{4/}

The two components of the PIR are the total income of the household (numerator) and a multiple of the total income necessary to maintain a family with given characteristics on a nutritionally adequate food plan^{3/} (denominator). The dollar value of the denominator of the PIR is constructed from a food plan (economy plan) necessary to maintain minimum recommended daily nutritional requirements. The economy plan is designated by the Department of Agriculture for "emergency or temporary use when funds are low."

For families of three or more persons, the poverty level was set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was adjusted by the relatively higher fixed expenses of these smaller households.

The denominator or poverty income cutoff adjusts the family poverty income maintenance requirements by the family size, the sex of the family head, the age of the family head in families with one or two members, and the place of residence (farm, nonfarm). Annual revisions of the poverty income cutoffs are based on the changes in the average cost of living as reflected in the Consumer Price Index.

As shown in the table, the annual income considered to be the poverty level increases as the family size increases. A family with any combination of characteristics and with the same income as shown in the table has been designated as having a PIR or poverty level of 1.0. The same family with twice the income found in the table would have a PIR of 2.0. Ratios of less than 1.0 can be described as "below poverty," ratios greater than or equal to 1.0, as "at or above poverty."

Poverty thresholds are computed on a national basis only. No attempt has been made to adjust these thresholds for regional, State, or other local variation in the cost of living (except for the farm, nonfarm difference). None of the noncash public welfare benefits such as food stamp bonuses or free food commodities are included in the income of the low income families receiving these benefits.

^{1/}Current Population Reports, "Consumer Income," Series P-60, No. 77, May 7, 1971

^{2/}Orshansky, M.: "Counting the Poor: Another Look at the Poverty Profile," Social Security Bulletin, January 1965; "Who's Who Among the Poor: A Demographic View of Poverty," Social Security Bulletin, July 1965.

^{3/}Current Population Reports, "Special Studies," Series P-23, No. 28, August 12, 1969.

^{4/}Circular No. A-46, Transmitted Memorandum No. 9, Executive Office of the President, Bureau of the Budget, August 29, 1969, and Exhibit L (rev.).

DETAILED NOTES

TAPE POSITIONS 147-149

Weighted average thresholds at the low income level in 1971 by size of family and sex of head, by farm-nonfarm residence

Size of family	Total	Nonfarm			Farm		
		Total	Male ¹ head	Female ¹ head	Total	Male ¹ head	Female ¹ head
All unrelated individuals-----	\$2,033	\$2,040	\$2,136	\$1,978	\$1,727	\$1,783	\$1,669
Under 65 years-----	2,093	2,098	2,181	2,017	1,805	1,853	1,715
65 years and over-----	1,931	1,940	1,959	1,934	1,652	1,666	1,643
All families-----	3,700	3,724	3,764	3,428	3,235	3,242	3,079
2 persons-----	2,612	2,633	2,641	2,581	2,219	2,224	2,130
Head under 65 years-----	2,699	2,716	2,731	2,635	2,317	2,322	2,195
Head 65 years and over-----	2,424	2,448	2,450	2,437	2,082	2,081	2,089
3 persons-----	3,207	3,229	3,246	3,127	2,745	2,749	2,627
4 persons-----	4,113	4,137	4,139	4,116	3,527	3,528	3,513
5 persons-----	4,845	4,880	4,884	4,837	4,159	4,159	4,148
6 persons-----	5,441	5,489	5,492	5,460	4,688	4,689	4,656
7 persons or more-----	6,678	6,751	6,771	6,583	5,736	5,749	5,516

¹For unrelated individuals, sex of the individual.

SOURCE: U.S. Department of Commerce, Social and Economic Statistics Administration, U.S. Bureau of the Census "Characteristics of the Low Income Population: 1971," Current Population Reports, Series P-60, No. 86, p. 18.

DETAILED NOTES

TAPE POSITION 150

Region

The United States was divided into four broad geographic regions of approximately equal population. Those regions, which deviate somewhat from the groups used by the Bureau of the Census, are as follows:

<u>Region</u>	<u>States Included</u>
Northeast	Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania
South	Delaware, Maryland, District of Columbia, West Virginia, Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Arkansas
Midwest	Ohio, Illinois, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri
West	Washington, Oregon, California, Nevada, New Mexico, Arizona, Texas, Oklahoma, Kansas, Nebraska, North Dakota, South Dakota, Idaho, Utah, Colorado, Montana, and Wyoming.

DETAILED NOTES

TAPE POSITIONS 158-193

HANES is a multistage, stratified, probability sample of loose clusters of persons in land-based segments. In addition, HANES is composed of two distinct examination components--a nutrition screening examination (taken by all examinees) and a more detailed examination taken by a pre-selected subsample of all examinees, ages 25-74. For the nutrition screening examination, locations 1-35 and 1-65 constituted national probability samples and for the detailed examination, locations 1-35, 1-65, 66-100 and 1-100 all constitute national probability samples. In other words, HANES is composed of six distinct subsamples of the U.S. population. For a more detailed discussion of the sample design see Series 1, No. 10a.

Since each of these six subsamples is a distinct subsample of the U.S. population, each subsample requires a different set of weights. The weights are based upon the probability of selection into the sample, adjustments for nonresponse and further adjustments to approximate the U.S. noninstitutionalized population as of the midpoint of each subsample.

In order to select all of those examinees in a particular subsample, i.e. received a particular exam component, it is necessary to exclude all examinees with a weight of zero or blank. It is also necessary to exclude all zero or blank weights because that is the only way to differentiate missing data due to nonresponse from data that is missing because the sample design dictated that a particular examinee was not supposed to receive a particular examination component.

It is suggested that any analyses that are desired by the researcher be performed using the greatest number of examinees possible; that is, if the researcher is interested in an exam component of the nutrition screening examination he should use the weight and consequently the data from the 65 location subsample rather than the 35 location subsample. For the detailed examination, the researcher should use the 100 location subsample rather than one of the others. However, some exam components were only done in a particular subsample; for example, only at the first 35 locations. In that case, the researcher has no choice in selecting a particular subsample.

There may be occasions when a researcher may want to make comparisons of estimates obtained from various subsamples. For example, the prevalence of some disease condition as estimated from the first 35 locations could be compared with an estimate based upon locations 66-100. The researcher may also want to formulate hypotheses using one subsample and test those hypotheses using another subsample.

DETAILED NOTES

TAPE POSITIONS 213-233

Periodontal Index (PI) and Simplified Oral Hygiene Index (OHI-S)

The periodontal disease status and oral hygiene status of the sample persons who participated in the health and nutrition examinations conducted during 1971-75 were assessed by the Periodontal Index and the Simplified Oral Hygiene Index, respectively. The procedures for scoring and calculating the two indexes follow.

The Periodontal Index (PI)

Scores are assigned according to these criteria:

- 0 Negative. 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 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; may sound dull on percussion with a metallic instrument.

RULE: When in doubt, assign the lesser score.

Each tooth present in the mouth, unless it is a root, is scored, and the arithmetic average of all scores is the individual's PI.

The Simplified Oral Hygiene Index (OHI-S)

Selected surfaces of six teeth are used in making this estimation of oral hygiene status. For the purposes of this examination each surface that is used, buccal or lingual, is considered to encompass half of the circumference of the tooth. The buccal surface of a molar, for example, is considered to include half of the mesial surface and half of the distal.

On both sides of the arch the posterior tooth assessed is the most anterior fully erupted permanent molar or, in its absence, the most distal fully erupted primary molar. In most cases this will be a first permanent molar, but in others it may be a first or second primary molar

or a second permanent molar. The buccal surfaces of upper molars and the lingual of lowers are examined. In the anterior portion of the mouth, the labial surfaces of the upper right central incisor and the lower left central incisor are examined. When these teeth are missing, only the adjacent central incisor is examined.

Examining for oral debris.--The surface area covered by debris is estimated by running a number five explorer along the surface being examined and noting the occlusal or incisal extent of the debris as it is removed from the tooth surface and adheres to the explorer.

Scores are assigned according to the following criteria:

- 0 No debris or stain present.
- 1 (a) Soft debris covering not more than the gingival third of the tooth surface, or (b) the presence of extrinsic stains without debris regardless of 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 exposed tooth surface.

Examining for oral calculus.--A number five explorer is also used to estimate surface area covered by supragingival calculus and to probe for subgingival calculus.

Scores are assigned according to the following criteria:

- 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, and/or the presence of individual flecks of subgingival calculus around the cervical portion of the tooth.
- 3 Supragingival calculus covering more than two-thirds of the exposed tooth surface and/or a continuous heavy band of subgingival calculus around the cervical portion of the tooth.

Calculating the index.--The debris scores are totaled and divided by the number of surfaces scored to obtain the Simplified Debris Index. The Simplified Calculus Index is determined similarly. The debris and calculus scores are then added to give the Simplified Oral Hygiene Index.

DETAILED NOTES

TAPE POSITIONS 213-221

Oral Hygiene Index

Oral hygiene status is measured on the upper and lower molars and central incisors on each side. At least two of six predesignated natural permanent teeth must be present (see detailed note for Simplified Oral Hygiene Index, tape positions 213-233).

For 27 children aged 6-8 years, only the upper and lower anterior teeth were present, but since they were not fully erupted, oral hygiene measurements were not recorded. Oral hygiene may also not have been recorded if orthodontic appliances were present, regardless of age. For children without fully erupted anterior permanent teeth, the oral hygiene score may have been recorded as "000" instead of "999." No computer edits were done on the original oral hygiene data, from which index values were calculated, for children under 6 years of age.

Scores of "999" may also appear for the oral hygiene status of persons with no periodontal disease and no recorded need for the removal of debris and calculus. It should be noted that the need for removal of debris and calculus may apply to teeth other than those on which oral hygiene is measured, however.

DETAILED NOTES

TAPE POSITIONS 234-363

Counts

Since there are sixteen possible permanent teeth in both the upper and lower arch, the ranges of codes for counts of permanent teeth are 00-16 for each arch and 00-32 for the mouth. Since there are ten possible primary teeth in each arch, the primary counts have code ranges 00-10 for each arch and 00-20 for the mouth. Since third molars are not replaced on fixed bridges, the counts of teeth replaced on a fixed bridge range from 00-14 for each arch, and 00-28 for the mouth.

Codes actually present in the data file may not include all the codes in these possible ranges. For example, the count called "Total teeth extracted for reasons other than caries" has a possible range of 00-32, but there are no records having counts of 10-19 or 21-32.

Every record contains every count; an adult record will have 00 for counts of primary teeth present.

DETAILED NOTES

TAPE POSITIONS 364-406

Treatment Needs

As with the tooth counts, all possible codes may not occur in the data file.

If "No need" (position 364) is coded "0," all other treatment needs (positions 365-406) will be coded "0." If "No need" is coded "1," at least one other item in positions 365-406 will be coded as showing a need. For any item that has a lead-in field coded "0" for "No need," the rest of that item will be coded "0;" if the lead-in field is coded "1," some other field in that item will have non-zero data. For example, in "Construct Full Dentures," if position 396 is "0," then position 397 will be "0;" if position 396 is "1," then position 397 will be "1," "2," or "3."

If both arches are edentulous, then all needs except "Repair/Reline Denture or Bridge" (positions 391-395) and "Construct Dentures" (positions 396-397) will be "0." These may also be "0" if no need is indicated.

DETAILED NOTES

TAPE POSITIONS 407-433

Occlusion Data

These data fields are applicable only for ages 9-21 years. For records within this age range, these fields will be coded as "Not applicable" if orthodontic appliances are present or if both arches are edentulous.

The HLD Index (positions 416-423) will be coded "Not applicable" unless one upper and one lower fully erupted central incisor are present.

If the "Not applicable" code for "Malalignment" (position 424) is coded "1," occlusion data fields may all be coded "Not applicable," or only some of them coded otherwise. When some of the fields were coded other than "Not applicable," the measurements are included even though there was insufficient data for calculating Treatment Priority Indexes.

DETAILED NOTES

TAPE POSITIONS 434-443

Enamel Biopsy

At least one of the four upper central and lateral incisors must be present. When an enamel biopsy was taken, the dentist attempted to remove the enamel to a depth ranging from only 2.0 to 2.5 microns. Controlling the speed of the motor driving the felt cone that was used to apply the abrasive proved very hard to do. As a result, many of the enamel samples were taken at depths either shallower or deeper than desirable. Since the fluoride content of enamel is increasingly greater as the surface of a tooth is approached, it is necessary, before using the findings on fluoride content, to adjust them for differences in the depth at which they were taken. The formula developed by the National Center for Health Statistics to make the adjustment is as follows:

$$F1_A = \frac{F1_{\mu} (1287817)}{488502 + \frac{159863}{\text{depth}}}$$

DETAILED NOTES

TAPE POSITION 449

Four or More Pairs of Opposing Serviceable Posterior Teeth

This field pertains to the posterior five teeth, artificial or natural, on each side of both arches. One of these five teeth must have been present in each of the four quadrants for this field to be coded "1." It was found in editing that 1762 records were coded "1" when it was not clear whether the required teeth were present; 426 records were coded "0" when the teeth were present. The coding was not changed, but the user should be aware of possible updating of this field. Most inconsistencies seemed to occur in the older examinees.

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