

# Public Use Data Tape Documentation



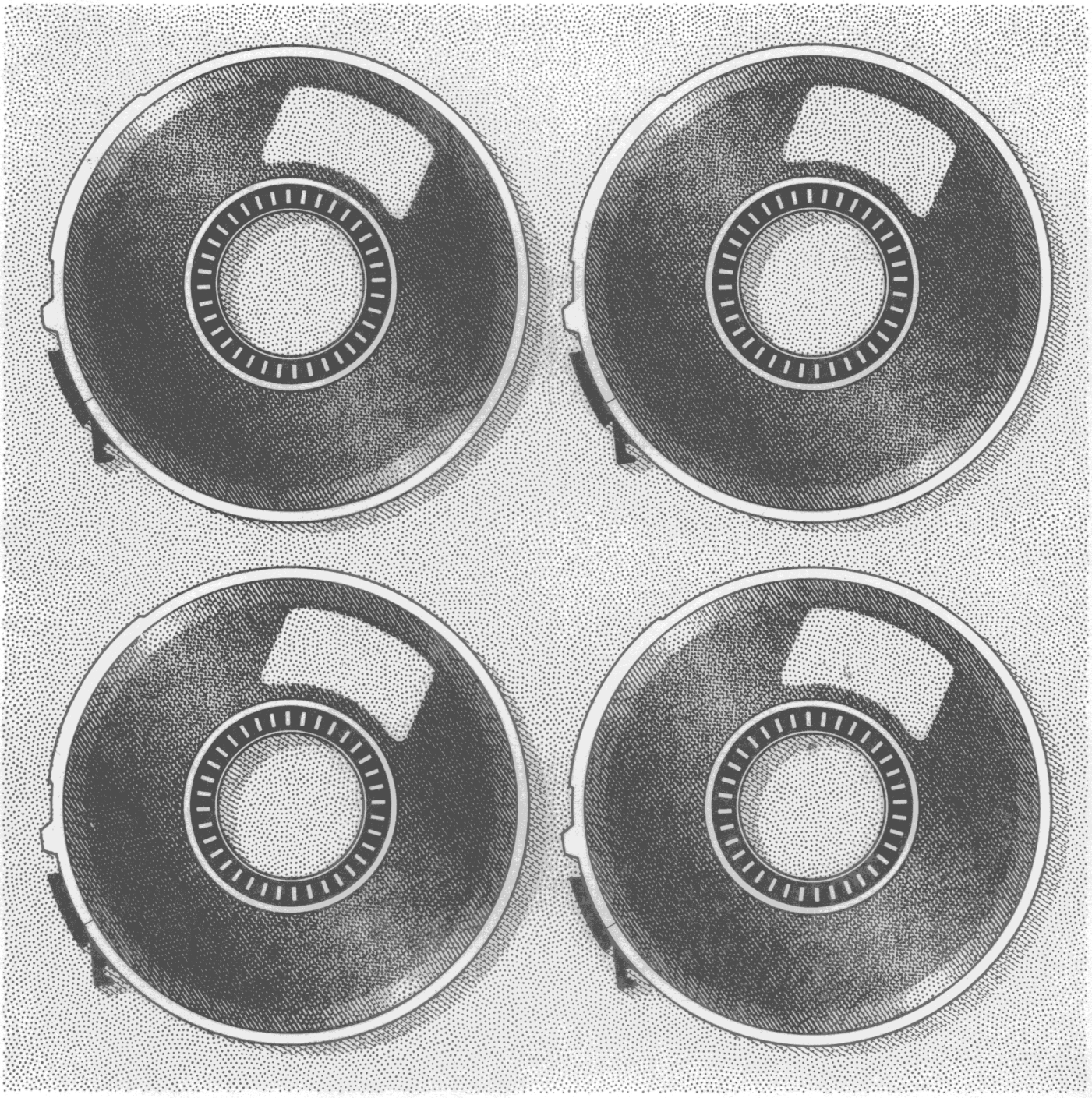
Anthropometry, Goniometry,  
Skeletal Age, Bone Density, and  
Cortical Thickness

Ages 1-74

Tape Number 4111

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



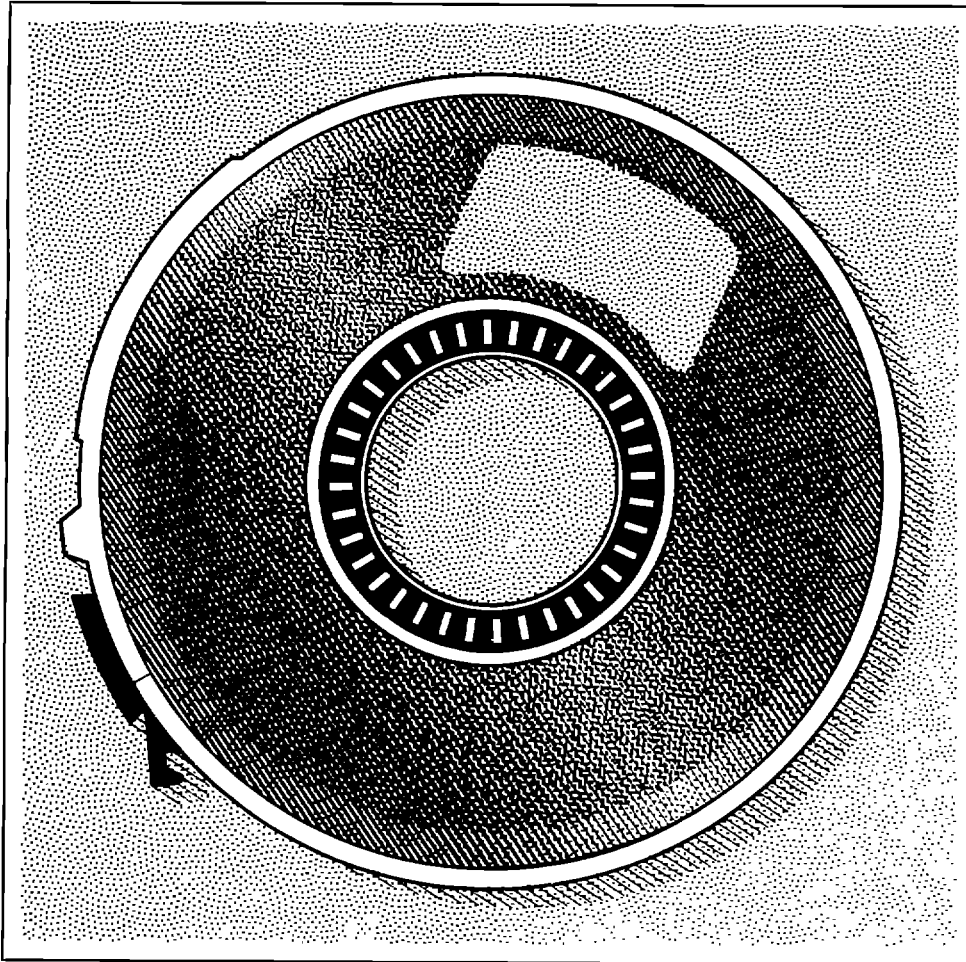
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Public Health Service  
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National Center for Health Statistics

Hyattsville, Maryland  
May 1981

The data compilation and documentation necessary for the Anthropometry, Goniometry, Skeletal Age, Bone Density and Cortical Thickness Data Tape were done by Cliff Johnson, Robinson Fulwood, Clair Harvey, Everette Collins, Sidney Abraham, Jean Roberts, Evelyn S. Stanton and Dorothy Blodgett of the Division of Health Examination Statistics, National Center for Health Statistics. A special note of gratitude is due Eugene Sides and Carol Flaherty who patiently typed and retyped this material.

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ANTHROPOMETRY, GONIOMETRY, SKELETAL AGE,  
BONE DENSITY AND CORTICAL THICKNESS 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. Also provided is a draft report on the augmentation survey of adults describing the relevant field work conducted between July 1974 and October 1975.

Target Population: HANES I was conducted on a nationwide probability sample of approximately 32,000 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 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 time of the survey.

Although the main emphasis of HANES I was on nutrition, a subset of those 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 aged 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.

In order to produce national estimates of the nutritional status of the U. S. population at an earlier date, a probability subsample of 35 of the 65 primary sampling units (PSU's) was selected. This subsample also made it possible to produce national estimates of certain other aspects of health status in the population that were critically needed at an earlier date and examination components that for logistic reasons could not be continued for the remainder of the 65 PSU's. Included among the 35 PSU's were 10 of the 15 large certainty metropolitan areas and 1 PSU from each of the 25 noncertainty superstrata. The reduction from 15 to 10 large metropolitan areas was accomplished by randomly selecting one PSU from multiple-PSU standard metropolitan statistical areas; e.g., selecting the southern half of the Chicago

SMSA to represent the entire SMSA. (This selection procedure was based on operational considerations, and although unbiased, is recognized as not being statistically optimal.)

Data Collection: Information for all 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 also include 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 if any such errors are detected that they be 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.

### Missing Data

Examination surveys are subject to the loss of information not only through the failure to examine all sample persons but also from the failure to obtain and record all items of information for examined persons. Other information obtained from the examined persons may subsequently be determined to be of unacceptable quality and excluded from the final data.

In order to provide national probability estimates for selected anthropometric measurements from the first 65 locations of HANES, a procedure was developed to estimate the missing body measures for a sample person. Estimates for missing anthropometric data were generally made subjectively on the basis of a multiple regression type decision, substituting for the missing measurements, therefore, an individual who was of the same age, sex, and race, and who had other physical dimensions similar to those available for the examinee with incomplete data. For those with no anthropometric measurements available, a respondent of the same age-sex-race group was selected at random and his measurements were assigned to the nonexamined person. All measurements imputed using these methods have been so indicated by a special imputation code on the data tape.

### 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: Anthropometry, Goniometry, Skeletal Age, Bone Density and  
Cortical Thickness Data Tape

Catalog Number: 4111

Data Set Name: HEHANESI.DU411102

Record Length: 600

Blocksize: 3600

Number of Records: 23808

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

Asterisks on the Tape Description: Some of the data items were obtained only for a particular subsample of HANES. Consequently some of these items appear to have a great deal of missing data (coded as BLANK) due to nonresponse, but in fact the data are missing because the design of HANES dictated that the item was to be obtained only for a particular subsample. (For further discussion of the various subsamples in HANES the user should see the detailed note for tape positions 158-193.)

To alert the user to this fact asterisks were put on the tape description. One asterisk denotes that the data item was obtained only on examinees at locations 1-65. Three asterisks denote that the data item was obtained only on examinees receiving the detailed examination, four asterisks denote that the data item was obtained only on detailed examinees from locations 1-35, and five asterisks refers to data items obtained only on sample persons aged 1-17 years.

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.

Anthropometry, Goniometry, Skeletal Age, Bone Density and Cortical

Thickness Examinations: In the mobile examination center, two health technicians obtained measurements of height and weight and a series of body and skinfold measurements for all examinees. In addition, x-rays of the hand and wrist were taken of examinees 1-17 years of age.

Goniometry data was collected for detailed examinees aged 25-74 years only at locations 1-35.

Anthropometry Data Editing: All anthropometric measurements obtained in the mobile examination center were compiled and keyed by the U. S. Bureau of the Census and sent to the Division of Health Examination Statistics on tape. The data was edited for completeness and accuracy and certain consistency and range edits were performed to check for unusual or problematic data. When a question of accuracy arose, reference was made to microfilm records of the original recording documents.

DEMOGRAPHIC DATA SUMMARY - HANES I

	<u>Tape</u> <u>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 only 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

ANTHROPOMETRY, GONIOMETRY, SKELETAL AGE,  
BONE DENSITY AND CORTICAL THICKNESS DATA SUMMARY - HANES I

	<u>Tape Positions</u>
CATALOG NUMBER - 4111 .....	201
 <u>ANTHROPOMETRY</u>	
Examiner Number .....	208
 <u>ELBOW BREADTH</u>	
Right side measurement .....	210
Imputation code (right side) .....	213
Left side measurement .....	214
 <u>UPPER ARM GIRTH</u>	
Right side measurement .....	217
Imputation code (right side) .....	220
Left side measurement .....	221
 <u>TRICEPS SKINFOLD</u>	
Right side measurement .....	224
Imputation code (right side) .....	227
Left side measurement .....	228
 <u>SUBSCAPULAR SKINFOLD</u>	
Right side measurement .....	231
Imputation code (right side) .....	234
Left side measurement .....	235
 <u>BITROCHANTERIC BREADTH</u> .....	
Imputation code .....	241
 <u>SITTING HEIGHT</u> .....	
Imputation code .....	246
 <u>HEAD CIRCUMFERENCE</u> (ages 1-17 only) .....	
Imputation code .....	250

ANTHROPOMETRY, GONIOMETRY, SKELETAL AGE, BONE DENSITY AND CORTICAL THICKNESS  
 DATA SUMMARY - HANES I

	<u>Tape Positions</u>
<u>CHEST CIRCUMFERENCE</u> (Ages 1-7 only) .....	251
Imputation code .....	254
 <u>WEIGHT</u>	
In pounds .....	255
In kilograms .....	260
Imputation code .....	265
 <u>HEIGHT</u>	
In centimeters .....	266
In inches .....	270
Imputation code .....	273
 <u>HANDEDNESS</u> .....	 274
 <u>CHEST CIRCUMFERENCE</u> (detailed examinees only)	
Full inspiration .....	275
Full expiration .....	279
 <u>GONIOMETRY</u>	
 Examiner Number .....	 307
 <u>ON STOMACH</u>	
Extension of right hip .....	325
Extension of left hip .....	328
 <u>ON BACK</u>	
Extension of right knee .....	331
Flexion of right knee .....	333
Flexion of right hip .....	336
Adduction of right hip .....	339
Abduction of right hip .....	341
 Extension of left knee .....	 344
Flexion of left knee .....	346
Flexion of left hip .....	349
Adduction of left hip .....	352
Abduction of left hip .....	354

ANTHROPOMETRY, GONIOMETRY, SKELETAL AGE, BONE DENSITY AND CORTICAL THICKNESS  
 DATA SUMMARY - HANES I

Tape  
 Positions

SITTING ON TABLE

Internal rotation of right hip .....	357
External rotation of right hip .....	359
Internal rotation of left hip .....	362
External rotation of left hip .....	365

HAND-WRIST X-RAYS (AGES 1-17)

Reader Number .....	406
Quality of film .....	408

BONE AGE

Distal end of radius .....	409
Distal end of ulna .....	412
Capitate .....	415
Hamate .....	418
Triquetral .....	421
Lunate .....	424
Scaphoid .....	427
Trapezium .....	430
Trapezoid .....	433
Metacarpal I .....	436
Metacarpal II .....	439
Metacarpal III .....	442
Metacarpal IV .....	445
Metacarpal V .....	448
Pisiform .....	451
Adductor sesamoid .....	454
Flexor sesamoid .....	457
Proximal phalanx I .....	460
Proximal phalanx II .....	463
Proximal phalanx III .....	466
Proximal phalanx IV .....	469
Proximal phalanx V .....	472
Middle phalanx II .....	475
Middle phalanx III .....	478
Middle phalanx IV .....	481
Middle phalanx V .....	484

ANTHROPOMETRY, GONIOMETRY, SKELETAL AGE, BONE DENSITY AND CORTICAL THICKNESS  
 DATA SUMMARY - HANES I

Tape  
Positions

BONE AGE - continued

Distal phalanx I .....	487
Distal phalanx II .....	490
Distal phalanx III .....	493
Distal phalanx IV .....	496
Distal phalanx V .....	499
Entry under individual differences .....	502
Number of fields with bone age entry .....	516
Sum of bone age entries .....	518
Average bone age .....	522
Number of adult bones per youth .....	537
Number of unformed bones per youth .....	539
Bone age range .....	541

BONE DENSITY AND CORTICAL THICKNESS

ALUMINUM EQUIVALENCY

Phalanx V-2 .....	551
Radium .....	554

CORTICAL THICKNESS

III - 2D .....	557
III - 2d .....	560
III - 4D .....	563
III - 4d .....	566
II - 4D .....	569
II - 4d .....	572

WALL/TOTAL BONE RATIO

III - 2, D-d/D .....	575
III - 4, D-d/D .....	577
II - 4, D-d/D .....	579

## HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

ALL SAMPLE PERSONS  
LOCATIONS 1-100

## DEMOGRAPHIC DATA TAPE

(n=23808)

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		
	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	3810 2799 3158 2702 424 1179 1333 8403	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	7960 6591 9257	Household Questionnaire See Detailed Notes
	12	1	<u>Type of Living Quarters</u> 1 - Housing Unit 2 - Other unit	23602 206	Household Questionnaire
	13	1	<u>Land Usage</u> 1 - All other 2 - Rural	15648 8160	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	2205 5955 15648	Household Questionnaire

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
15		1	If 10 acres or more, asked if		
			<u>Sale of Crops, Etc. Amount to \$50 or more?</u>		
			2 - Yes	1317	Household Questionnaire
4 - No	888				
9 - Not applicable	21603				
16		1	If 10 acres or less, asked if		
			<u>Sale of Crops, Etc. Amount to \$250 or more?</u>		
			3 - Yes	153	Household Questionnaire
			5 - No	5802	
9 - Not applicable	17853				
<u>Age - Head of Household</u>					
17-18		2	16-92 as given	20744	* Household Questionnaire
			00 - Blank, but applicable	5	* Household Questionnaire
19		1	Blank	3059	* Household Questionnaire
			<u>Sex - Head of Household</u>		
			1 - Male	16660	
20-21		2	2 - Female	4089	
			Blank	3059	
			<u>Highest Grade Attended - Head of Household</u>		
			10 - None	223	* Household Questionnaire
			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				
Blank	3059				



## HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
- 20 -	22	1	<u>Race - Head of Household</u> 1 - White 2 - Negro 3 - Other Blank	16387 4149 213 3059	* Household Questionnaire See Detailed Notes
	23-24	2	<u>Total Number of Persons in Household</u> 01-19 - As given	23808	Household Questionnaire
	25-26	2	<u>Total Sample Persons in Household</u> 01-07 - As given	23808	Household Questionnaire
	27	1	<u>Number of Rooms in House</u> 1-8 - As given 9 - 9 or more Blank	19747 1002 3059	* Household Questionnaire
			<u>Is there piped water?</u> 1 - Yes 2 - No Blank	20043 706 3059	* Household Questionnaire
	29	1	If yes <u>Is there hot and cold piped water?</u> 1 - Yes 2 - No 9 - Not applicable Blank	19527 518 704 3059	* Household Questionnaire
			If yes to piped water - <u>Does House Have a Sink with Piped Water?</u> 1 - Yes 2 - No 9 - Not applicable Blank	19866 181 702 3059	* Household Questionnaire
			<u>Does House Have a Range or Cook Stove?</u> 1 - Yes 2 - No Blank	20513 236 3059	* 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	Does House have a Refrigerator? 1 - Yes 2 - No Blank	20487 262 3059	* Household Questionnaire
33		1	Are kitchen facilities used by anyone not living in household? 1 - Yes 2 - No 9 - Not applicable Blank	641 19418 690 3059	* Household Questionnaire
34-35		2	Total Family Income Group 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	545 1329 1525 1526 1426 1301 1194 5023 4927 2295 1025 873 819	Household Questionnaire See Detailed Notes
			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:		
36		1	Wages or Salaries? 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable Blank	4738 3384 614 12013 3059	* 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> 0001-8000 - As given 8888 - Blank, but applicable 9999 - Not applicable Blank	4468 884 15397 3059	Household Questionnaire *
	41	1	<u>Social Security or Railroad Retirement?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable Blank	2914 5226 595 12014 3059	Household Questionnaire *
	42-45	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable Blank	2852 657 17240 3059	Household Questionnaire *
	46	1	<u>Welfare Payments or Other Public Assistance?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable Blank	2414 5716 605 12014 3059	Household Questionnaire *
	47-50	4	<u>If yes to above, how much altogether?</u> 0001-6999 - As given 8888 - Blank, but applicable 9999 - Not applicable Blank	2383 636 17730 3059	Household Questionnaire *
	51	1	<u>Unemployment or Workmen's Compensation?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable Blank	441 7690 604 12014 3059	Household Questionnaire *

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>		Household Questionnaire
			0001-6999 - As given	424	*
			8888 - Blank, but applicable	622	
			9999 - Not applicable	19704	
56		1	Blank	3059	
			<u>Government Employee Pensions or Private Pensions?</u>		Household Questionnaire
			1 - Yes	569	*
			2 - No	7561	
			8 - Blank, but applicable	605	
57-60		4	9 - Not applicable	12014	
			Blank	3059	
			<u>If yes to above, how much altogether?</u>		Household Questionnaire
			0001-6999 - As given	553	*
			8888 - Blank, but applicable	621	
61		1	9999 - Not applicable	19575	
			Blank	3059	
			<u>Dividends, interest or rent?</u>		Household Questionnaire
			1 - Yes	918	*
			2 - No	7212	
62-65		4	8 - Blank, but applicable	602	
			9 - Not applicable	12017	
			Blank	3059	
			<u>If yes to above, how much altogether?</u>		Household Questionnaire
			0001-6999 - As given	870	*
66		1	8888 - Blank, but applicable	650	
			9999 - Not applicable	19229	
			Blank	3059	
			<u>Net income from own non-farm business, professional practice or partnership?</u>		Household Questionnaire
			1 - Yes	350	*
			2 - No	7772	
			3 - Loss	17	
			8 - Blank, but applicable	596	
			9 - Not applicable	12014	
			Blank	3059	

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 Blank	316 647 19786 3059	Household Questionnaire *
	71	1	<u>Net income from a farm?</u> 1 - Yes 2 - No 3 - Loss 8 - Blank, but applicable 9 - Not applicable Blank	406 7705 26 598 12014 3059	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 Blank	388 642 19719 3059	Household Questionnaire *
	76	1	<u>Veteran's Payments</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable Blank	452 7679 601 12017 3059	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 Blank	441 612 19696 3059	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 Blank	439 7691 602 12017 3059	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>		Household Questionnaire
			0001-6999 - As given	426	*
			8888 - Blank, but applicable	615	
			9999 - Not applicable	19708	
86		1	Blank	3059	
			<u>Any other income?</u>		Household Questionnaire
			1 - Yes	325	*
			2 - No	7799	
			8 - Blank, but applicable	607	
			9 - Not applicable	12018	
87-90		4	Blank	3059	
			<u>If yes to above, how much altogether?</u>		Household Questionnaire
			0001-6999 - As given	313	*
			8888 - Blank, but applicable	619	
			9999 - Not applicable	19817	
			Blank	3059	
91-94		4	<u>Total Amount (Total of Positions 37-90)</u>		Household Questionnaire
			0000-6999 - As given	7676	*
			8888 - Blank, but applicable	1060	
			9999 - Not applicable	12013	
			Blank	3059	
			<u>FAMILY UNIT CODE</u>		Computer generated
95-99		5	00001-23306	23808	See Detailed Notes
100		1	<u>Relationship to Head of Household</u>		Household Questionnaire
			1 - Head (1 person living alone or with non-relatives)	2244	
			2 - Head (2 or more related persons in family)	6238	
			3 - Wife	6513	
			4 - Child	7818	
			5 - Other relative	995	
101-2		2	<u>Age at Interview</u>		Household Questionnaire
			01-74 - As given	23808	

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	19111 4424 273	Household Questionnaire See Detailed Notes
104		1	<u>Sex of Examined Person</u> 1 - Male 2 - Female	10152 13656	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 11738 1493 2475 762 544 15	Household Questionnaire
106-9		4	<u>Date of Birth (month, year)</u> 01-12 - Month as given 00-99 - Year (1896-1973) as given	23808 23808	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	23663      145	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> 10 - None 21 - 1st Grade 22 - 2nd Grade 23 - 3rd Grade 24 - 4th Grade 25 - 5th Grade 26 - 6th Grade 27 - 7th Grade 28 - 8th Grade 31 - 9th Grade 32 - 10th Grade 33 - 11th Grade 34 - 12th Grade 41 - First year of college 42 - Second year of college 43 - Third year of college 44 - Fourth year of college 45 - Graduate 77 - Special School 88 - Blank, but applicable 99 - Not applicable	252 444 457 586 691 687 815 902 2165 1207 1458 1132 5751 852 1007 418 1134 756 18 110 2966	Household Questionnaire
	114	1	<u>Did he finish the grade?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable	13787 6537 266 3218	Household Questionnaire
	115	1	<u>Is he attending school now?</u> 1 - Yes 2 - No 8 - Blank, but applicable 9 - Not applicable Blank	3857 476 0 16416 3059	Household Questionnaire *



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 Blank	668 1127 0 18954 3059	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 Blank	150 362 73 45 38 0 20081 3059	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	2682 20923 203	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	168 161 422 116 20 1274 39 468 217 20923	Household Questionnaire

## HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
- 29 -	120-21	2	<u>What is your main ancestry or national origin?</u>		Household Questionnaire
			00 - German	4022	
			01 - Irish	3021	
			02 - Italian	777	
			03 - French	1235	
			04 - Polish	636	
			05 - Russian	223	
			06 - English	2979	
			07 - Spanish	483	
			08 - Mexican	717	
			09 - Chinese	48	
			10 - Japanese	53	
			11 - American Indian	380	
			12 - Negro	4428	
			13 - Jewish	63	
			14 - American	1652	
			15 - Other	2451	
			88 - Blank, but applicable	67	
			99 - Don't know	573	
			122	1	
1 - Working	8058				
2 - Keeping house	5883				
3 - Something else	3069				
8 - Blank, but applicable	28				
9 - Not applicable	6770				
123	1	<u>If "something else" from above, what was he doing?</u>		Household Questionnaire	
		0 - Laid off	46		
		1 - Retired	1484		
		2 - Student	822		
		3 - Other	141		
		4 - Ill.	152		
		5 - Staying home	69		
		6 - Looking for work	71		
		7 - Unable to work	285		
		8 - Blank, but applicable	27		
		9 - Not applicable	20711		

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	1272 7675 37 14824	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	7278 2046 39 14445	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	8318 942 104 14444	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	543 8072 105 15088	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	644 7971 105 15088	Household Questionnaire

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
- 31 -	129	1	<u>If yes to above - which?</u> 1 - Looking 2 - Lay-off 3 - Both 8 - Blank, but applicable 9 - Not applicable	467 144 34 105 23058	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	6776 335 1294 980 135 63 29 14196	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	111 719 30 22948	Household Questionnaire
	132-34	3	<u>Business or Industry Code</u> 000 - Blank, but applicable 017-999 - As given	4 23804	Household Questionnaire See Detailed Notes
	135-37	3	<u>Occupation Code</u> 000 - Blank, but applicable 001-996 - As given	6 23802	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	23808 23808 23808	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	23808	Computer generated
	146	1	<u>Farm</u> 1 - Farm 2 - Nonfarm	1470 22338	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 Blank	20002 25 722 3059	Computer generated See Detailed Notes *
	150	1	<u>Region</u> 1 - Northeast 2 - Midwest 3 - South 4 - West	5211 5892 6329 6376	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 Blank	14683 112 5142 760 52 3059	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 19374	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
- 33 -	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 21434	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 23501	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 23145	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 23593	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 23769	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
			<u>Sample Weights</u>		
	158-163	6	Detailed Persons - Locations 01-35 Blank	1892 21916	See Detailed Notes
	164-169	6	All Sample Persons - Locations 01-35 Blank	10127 13681	See Detailed Notes
	170-175	6	Detailed Persons - Locations 01-65 Blank	3854 19954	See Detailed Notes
	176-181	6	All Sample Persons - Locations 01-65 Blank	20749 3059	See Detailed Notes
	182-187	6	Detailed Persons - Locations 66-100 Blank	3059 20749	See Detailed Notes
	188-193	6	Detailed Persons - Locations 1-100 Blank	6913 16895	See Detailed Notes
	194-195	2	<u>Strata</u> <sup>1/</sup>		
	196-198	3	<u>Primary Sampling Units</u> <sup>1/</sup>		
	199-200	2	<u>Data User Work Area</u>		
			<sup>1/</sup> 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)

Anthropometry, Goniometry, Skeletal Age, Bone Density and Cortical Thickness  
(n=23808)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Body Measurements Recording Form
	201-204	4	<u>Catalog Number</u> 4111		
	205-207	3	Blank - Data User Work Area <u>ANTHROPOMETRY</u>		
	208-209	2	<u>Examiner Number</u> 14-20, 69-75, 78, 81-87, 89-95, 98-99 - As given 88 - Blank, but applicable	23787 21	
			<u>ELBOW BREADTH</u> (in cm.-xx.x-decimal not shown on tape)		
	210-212	3	<u>Right Side Measurement</u> 030-097 - As given 888 - Blank, but applicable	23802 6	
	213	1	<u>Imputation Code</u> (right side) 0 - As observed 1 - Missing data - imputed 8 - Missing data - not imputed	23740 62 6	
	214-216	3	<u>Left Side Measurement</u> (in cm.-xx.x-decimal not shown on tape) 032-090 - As given 888 - Blank, but applicable 999 - Not applicable	4626 112 19070	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
			<u>UPPER ARM GIRTH</u> (in cm.-xx.x-decimal not shown on tape)		Body Measurements Recording Form
	217-219	3	<u>Right Side Measurement</u> 094-672 - As given 888 - Blank, but applicable	23799 9	
	220	1	<u>Imputation Code</u> (right side) 0 - As observed 1 - Missing data - imputed 8 - Missing data - not imputed	23735 64 9	
- 36 -	221-223	3	<u>Left Side Measurement</u> 107-599 - As given 888 - Blank, but applicable 999 - Not applicable	4622 116 19070	See Detailed Note
			<u>TRICEPS SKINFOLD</u> (in mm.-xx.x-decimal not shown on tape)		
	224-226	3	<u>Right Side Measurement</u> 020-650 - As given 888 - Blank, but applicable	23792 16	
	227	1	<u>Imputation Code</u> (right side) 0 - As observed 1 - Missing data - imputed 8 - Missing data - not imputed	23656 136 16	
	228-230	3	<u>Left Side Measurement</u> 020-570 - As given 888 - Blank, but applicable 999 - Not applicable	4599 139 19070	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
			<u>SUBSCAPULAR SKINFOLD</u> (in mm.-xx.x-decimal not shown on tape)		Body Measurements Recording Form
	231-233	3	<u>Right Side Measurement</u> 020-660 - As given 888 - Blank, but applicable	23773 35	
	234	1	<u>Imputation Code</u> (right side) 0 - As observed 1 - Missing data - imputed 8 - Missing data - not imputed	23576 197 35	
	235-237	3	<u>Left Side Measurement</u> 020-590 - As given 888 - Blank, but applicable 999 - Not applicable	4580 158 19070	See Detailed Note.
	238-240	3	<u>BITROCHANTERIC BREADTH</u> (in cm.-xx.x-decimal not shown on tape) 103-539 - As given 888 - Blank, but applicable	23794 14	
	241	1	<u>Imputation Code</u> 0 - As observed 1 - Missing data - imputed 8 - Missing data - not imputed	23728 66 14	
	242-245	4	<u>SITTING HEIGHT</u> (in cm.-xxx.x-decimal not shown on tape) 0428-1080 - As given 8888 - Blank, but applicable 9999 - Not applicable - less than 2 years old	22917 338 553	See Detailed Note.
	246	1	<u>Imputation Code</u> 0 - As observed 1 - Missing data - imputed 8 - Missing data - not imputed 9 - Less than 2 years old	22644 273 338 553	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
- 38 -	247-249	3	<u>HEAD CIRCUMFERENCE</u> (Ages 1-7 only) (in cm.-xx.x-decimal not shown on tape) 400-632 - As given 999 - Not applicable - 8-74 years old	3583 20225	Body Measurements Recording Form
	250	1	<u>Imputation Code</u> 0 - As observed 1 - Missing data - imputed 9 - Not applicable - 8-74 years old	3540 43 20225	
	251-253	3	<u>CHEST CIRCUMFERENCE</u> (Ages 1-7 only) (in cm.-xx.x-decimal not shown on tape) 395-836 - As given 999 - Not applicable - 8-74 years old	3583 20225	
	254	1	<u>Imputation Code</u> 0 - As observed 1 - Missing data - imputed 9 - Not applicable - 8-74 years old	3540 43 20225	
	255-259	5	<u>WEIGHT</u> (in pounds-xxx.xx-decimal not shown on tape) 01375-40000 - As given 88888 - Blank, but applicable	23804 4	Computer Generated
	260-264	5	<u>WEIGHT</u> (in kilograms-xxx.xx-decimal not shown on tape) 00624-18144- As given 88888 - Blank, but applicable	23804 4	
	265	1	<u>Imputation Code</u> 0 - As observed 1 - Missing data - imputed 8 - Missing data - not imputed	23706 98 4	

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
- 39 -	266-269	4	<u>HEIGHT</u> (in centimeters-xxx.x-decimal not shown on tape) 0516-2050 - As given 8888 - Blank, but applicable	23801 7	Body Measurements Recording Form
	270-272	3	<u>HEIGHT</u> (in inches-xx.x-decimal not shown on tape) 203-807 - As given 888 - Blank, but applicable	23801 7	Computer generated.
	273	1	<u>Imputation Code</u> 0 - As observed 1 - Missing data - imputed 8 - Blank, but applicable	23741 60 7	
	274	1	<u>HANDEDNESS</u> 1 - Right 2 - Left 3 - Uses both hands the same 4 - Not sure 8 - Blank, but applicable 9 - Not applicable	4006 361 101 105 165 19070	See Detailed Note
	275-278	4	<u>CHEST CIRCUMFERENCE</u> (in cm.-xxx.x-decimal not shown on tape) (detailed examinees only) <u>Full Inspiration</u> 0693-1580 - As given 8888 - Blank, but applicable 9999 - Not applicable	6846 67 16895	***

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	279-282	4	<u>Full Expiration</u> 0626-1455 - As given 8888 - Blank, but applicable 9999 - Not applicable	6842 71 16895	Body Measurements Recording Form ***
	283-300	18	Blank - Data User Work Area		

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>GONIOMETRY</u>		Goniometry Recording Form
	301-306	6	Blank - Data User Work Area		
	307-308	2	<u>Examiner Number</u> 07-99 - As given Blank	1892 21916	****
	309-324	16	Blank - Data User Work Area		
			<u>ON STOMACH</u>		
	325-327	3	<u>Extension of Right Hip</u> 130-180 - As given 888 - Blank but applicable Blank	1794 98 21916	****
	328-330	3	<u>Extension of Left Hip</u> 120-180 - As given 888 - Blank but applicable Blank	1793 99 21916	****
			<u>ON BACK</u>		
	331-332	2	<u>Extension of Right Knee</u> 00-20 - As given 88 - Blank but applicable Blank	1811 81 21916	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
	333-335	3	<u>Flexion of Right Knee</u> 020-180 - As given 888 - Blank but applicable Blank	1814 78 21916	Goniometry Recording Form ***
	336-338	3	<u>Flexion of Right Hip</u> 020-180 - As given 888 - Blank but applicable Blank	1812 80 21916	***
	339-340	2	<u>Adduction of Right Hip</u> 00-55 - As given 88 - Blank but applicable Blank	1815 77 21916	See Detailed Notes ***
	341-343	3	<u>Abduction of Right Hip</u> 090-180 - As given 888 - Blank but applicable Blank	1805 87 21916	***
	344-345	2	<u>Extension of Left Knee</u> 00-50 - As given 88 - Blank but applicable Blank	1812 80 21916	See Detailed Notes ***
	346-348	3	<u>Flexion of Left Knee</u> 025-180 - As given 888 - Blank but applicable Blank	1814 78 21916	***
	349-351	3	<u>Flexion of Left Hip</u> 015-180 - As given 888 - Blank but applicable Blank	1810 82 21916	***

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
- 43 -	352-353	2	<u>Adduction of Left Hip</u> 00-60 - As given 88 - Blank but applicable Blank	1813 79 21916	Goniometry Recording Form See Detailed Notes ****
	354-356	3	<u>Abduction of Left Hip</u> 090-180 - As given 888 - Blank but applicable Blank	1802 90 21916	****
	<u>SITTING ON TABLE</u>				
	357-358	2	<u>Internal Rotation of Right Hip</u> 30-90 - As given 99 - Blank but applicable Blank	1810 82 21916	****
	359-361	3	<u>External Rotation of Right Hip</u> 090-160 - As given 888 - Blank but applicable Blank	1808 84 21916	****
	362-364	3	<u>Internal Rotation of Left Hip</u> 090-155 - As given 888 - Blank but applicable Blank	1812 80 21916	****
	365-366	2	<u>External Rotation of Left Hip</u> 025-090 - As given 99 - Blank but applicable Blank	1807 85 21916	****
	367-400	34	Blank - Data User Work Area		



## HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

## HAND WRIST X-RAYS (AGES 1-17)

(n=23808)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>HAND WRIST X-RAYS</u>		See Detailed Notes
	401-405	5	Blank - Data User Work Area		
	406-407	2	<u>Reader Number</u> 25-26, 28-35 - As given 88 - Blank, but applicable Blank	6837 241 16730	*****
- 77 -	408	1	<u>Quality of Film</u> 1 - Satisfactory 2 - Poor, readable 3 - Unreadable 4 - No film 5 - Questionable reading - poor film 6 - Questionable reading - poor hand position 8 - Blank, but applicable Blank	6428 206 31 235 40 97 41 16730	*****
			<u>BONE AGE</u>		
	409-411	3	<u>Distal End of Radius</u> 010-223 - As given 888 - Blank, but applicable 999 - Adult stage Blank	6590 411 77 16730	*****
	412-414	3	<u>Distal End of Ulna</u> 060-210 - As given 888 - Blank, but applicable 999 - Adult stage Blank	3472 3189 417 16730	*****

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Hand Wrist X-Ray (Ages 1-17)
	415- 417	3	<u>Capitate</u> 002-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5608 280 1190 16730	*****
	418- 420	3	<u>Hamate</u> 003-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5604 283 1191 16730	*****
- 57 -	421- 423	3	<u>Triquetral</u> 020-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	4794 1094 1190 16730	*****
	424- 426	3	<u>Lunate</u> 022-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	4189 1697 1192 16730	*****
	427- 429	3	<u>Scaphoid</u> 042-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	3370 2520 1188 16730	*****

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Hand Wrist X-Ray (Ages 1-17)
	430- 432	3	<u>Trapezium</u> 054-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	3333 2558 1187 16730	*****
	433- 435	3	<u>Trapezoid</u> 060-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	3329 2558 1191 16730	*****
	436- 438	3	<u>Metacarpal I</u> 022-186 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5044 873 1161 16730	*****
	439- 441	3	<u>Metacarpal II</u> 014-206 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5863 411 804 16730	*****
	442- 444	3	<u>Metacarpal III</u> 014-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5685 648 745 16730	*****
	445- 447	3	<u>Metacarpal IV</u> 010-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5650 484 944 16730	*****

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Hand Wrist X-Rays (Ages 1-17)
448-450		3	<u>Metacarpal V</u> 020-206 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5676 601 801 16730	*****
451-453		3	<u>Pisiform</u> 110-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	1573 4320 1185 16730	*****
454-456		3	<u>Adductor Sesamoid</u> 146-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	925 4968 1185 16730	*****
457-459		3	<u>Flexor Sesamoid</u> 158-192 - As given 888 - Blank, but applicable 999 - Adult stage Blank	688 5209 1181 16730	*****
460-462		3	<u>Proximal Phalanx I</u> 024-208 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5307 916 855 16730	*****

## HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Hand Wrist X-Rays (Ages 1-17)
	463- 465	3	<u>Proximal Phalanx II</u> 014-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5693 368 1017 16730	*****
	466- 468	3	<u>Proximal Phalanx III</u> 014-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5706 354 1018 16730	*****
- 87 -	469- 471	3	<u>Proximal Phalanx IV</u> 012-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5674 382 1022 16730	*****
	472- 474	3	<u>Proximal Phalanx V</u> 012-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5551 502 1025 16730	*****
	475- 477	3	<u>Middle Phalanx II</u> 012-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5443 617 1018 16730	*****

## HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Hand Wrist X-Rays (Ages 1-17)
478-480		3	<u>Middle Phalanx III</u> 012-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5516 571 991 16730	*****
481-483		3	<u>Middle Phalanx IV</u> 012-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5512 573 993 16730	*****
484-486		3	<u>Middle Phalanx V</u> 012-204 - As given 888 - Blank, but applicable 999 - Adult stage Blank	4998 1068 1012 16730	*****
487-489		3	<u>Distal Phalanx I</u> 015-186 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5376 446 1256 16730	*****
490-492		3	<u>Distal Phalanx II</u> 024-186 - As given 888 - Blank, but applicable 999 - Adult stage Blank	4790 1039 1249 16730	*****

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
					Hand Wrist X-Rays (Ages 1-17)
	499-495	3	<u>Distal Phalanx III</u> 016-186 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5164 669 1245 16730	*****
	496-498	3	<u>Distal Phalanx IV</u> 024-186 - As given 888 - Blank, but applicable 999 - Adult stage Blank	5096 741 1241 16730	*****
	499-501	3	<u>Distal Phalanx V</u> 018-186 - As given 888 - Blank, but applicable 999 - Adult stage Blank	4784 1052 1242 16730	*****
	502	1	<u>Entry Under Individual Differences</u> 1 - Some present 2 - None 3 - Comments regarding film or reading quality only 4 - Both code 1 and code 3 8 - Blank, but applicable Blank	5307 1297 137 102 235 16730	See Detailed Notes     *****
	503-515	13	Blank - Data User Work Area		
	516-517	2	<u>Number of Fields with Bone Age Entry</u> 01-31 - As given 88 - Blank, but applicable Blank	6733 345 16730	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
					Hand Wrist X-Rays (Ages 1-17)
518-521		4	<u>Sum of Bone Age Entries</u> 0005-5772 - As given 8888 - Blank, but applicable Blank	6733 345 16730	See Detailed Notes  *****
522-526		5	<u>Average Bone Age</u> 00000-22300 - As given 88888 - Blank, but applicable Blank	6733 345 16730	See Detailed Notes  *****
527-536		10	Blank - Data User Work Area		
537-538		2	<u>Number of Adult Bones Per Youth</u> 01-31 - As given 88 - Blank, but applicable Blank	1303 5775 16730	See Detailed Notes  *****
539-540		2	<u>Number of Unformed Bones Per Youth</u> 00-29 - As given 88 - Blank, but applicable Blank	6813 265 16730	See Detailed Notes  *****
541-543		3	<u>Bone Age Range</u> 000-098 - As given 888 - Blank, but applicable Blank	6733 345 16730	See Detailed Notes  *****
544-550		7	Blank - Data User Work Area		



HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
			<u>BONE DENSITY AND CORTICAL THICKNESS</u>		
			<u>Aluminum Equivalency</u>		
	551-553	3	<u>Phalanx V-2</u> 104-532 - As given 888 - Blank, but applicable Blank	6032 881 16895	See Detailed Notes  ***
	554-556	3	<u>Radium</u> 067-539 - As given 888 - Blank, but applicable Blank	6184 729 16895	***
			<u>Cortical Thickness (in mm. - xx.x)</u>		
	557-559	3	<u>III - 2 D</u> 011-130 - As given 888 - Blank, but applicable Blank	6094 819 16895	***
	560-562	3	<u>III - 2 d</u> 008-126 - As given 888 - Blank, but applicable Blank	6094 819 16895	***
	563-565	3	<u>III - 4 D</u> 016-139 - As given 888 - Blank, but applicable Blank	6113 800 16895	***

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source	
- 53 -	566-568	3	<u>III - 4 d</u> 002-216 - As given 888 - Blank, but applicable Blank	6113 800 16895	***	
	569-571	3	<u>II - 4 D</u> 023-143 - As given 888 - Blank, but applicable Blank	6108 805 16895	***	
	572-574	3	<u>II - 4 d</u> 001-113 - As given 888 - Blank, but applicable Blank	6108 805 16895	***	
				<u>Wall/Total Bone Ratio (.xx)</u>		
	575-576	2	<u>III - 2, D-d/D</u> 00 - Blank, but applicable 08-89 - As given Blank	819 6094 16895	***	
577-578	2	<u>III - 4, D-d/D</u> 00 - Blank, but applicable 19-98 - As given Blank	800 6113 16895	***		

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

Item #	Tape Loc.	No. of Positions	ITEM DESCRIPTION & CODES	Control Counts	HANES I Data Source
	579-580	2	II - 4, D-d/D 00 - Blank, but applicable 10-99 - As given Blank	807 6106 16895	***
	581-600	20	BLANK - DATA USER WORK AREA		

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	Rvukyn 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<sup>1/</sup> 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.<sup>3/</sup> The standard data series in poverty for statistical use by all executive departments and establishments has been established.<sup>4/</sup>

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<sup>3/</sup> (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.

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<sup>1/</sup>Current Population Reports, "Consumer Income," Series P-60, No. 77, May 7, 1971

<sup>2/</sup>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.

<sup>3/</sup>Current Population Reports, "Special Studies," Series P-23, No. 28, August 12, 1969

<sup>4/</sup>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 <sup>1</sup> head	Female <sup>1</sup> head	Total	Male <sup>1</sup> head	Female <sup>1</sup> 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

<sup>1</sup>For 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:

<b><u>Region</u></b>	<b><u>States Included</u></b>
<b>Northeast</b>	Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania
<b>South</b>	Delaware, Maryland, District of Columbia, West Virginia, Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Arkansas
<b>Midwest</b>	Ohio, Illinois, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri
<b>West</b>	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 214-216, 221-223, 228-230, 235-237, 274

Left side measurements of the triceps skinfold, subscapular skinfold, elbow breadth, and upper arm girth were randomly done on approximately 20 percent of the examined sample persons. Handedness was also recorded for these sample persons who had both right and left side measurements. These measures were collected for quality control purposes and are not a representative sample of the U. S. population. Therefore, none of the sample weights are applicable for analyses using these measurements.



Detailed Notes

Tape Positions 242-245

Sitting height was measured on all sample persons aged two years or more. Because of many procedural problems, many of the two year old children were not measured for sitting height. Since the number of missing values for this age was so large, no attempt was made to impute values for the missing measurements, as was done for ages three years and over. The sitting heights for two year old children that were recorded are included on the data tape but do not represent a national probability estimate for this age.

DETAILED NOTES

TAPE POSITIONS 331-332 and 344-345

The extension of the knee is normally an observed measure of zero degrees. The examinee lies on his back with the back of his knee flat on a table. The small number of abnormal measurements (unable to extend a zero degree angle) is somewhat unusual for both the right and left extensions; nevertheless, the data have been verified and are in fact the actual measurements.

DETAILED NOTES

TAPE POSITIONS 339-340 and 352-353

The adduction of the hip is normally an observed measure of zero degrees. It seems somewhat unusual that the data shows an incredibly small number of examinees who are unable to adduct their hips to zero degrees. Nevertheless, all data values have been verified and are in fact actual measurements.

Detailed Notes

Tape Position 502

Individual differences

Codes one (1) and two (2) in tape position 502 indicate any developmental or pathological abnormalities on one or more of the hand-wrist bones identified by the x-ray assessors. Code three (3) indicates film quality or readability.

## Detailed Notes

### Tape Positions 406-543

#### Hand-Wrist X-rays

The hand-wrist x-rays were used to obtain a measurement of bone-specific skeletal age of sample persons ages 1-17 years. A description of the associated methodology with identification of the standards employed, may be found in the following reports based on similar data from two cycles of the earlier National Health Examination Survey:

National Center for Health Statistics: Skeletal maturity of children 6-11 years: United States, by A.F. Roche, J. Roberts, and P.V.V. Hamill. Vital and Health Statistics. Series 11- No. 140. DHEW Pub. No. (HRA) 75-1622. Health Resources Administration. Washington. U.S. Government Printing Office, Nov. 1974.

National Center for Health Statistics: Skeletal maturity of youths 12-17 years: United States, by A.F. Roche, J. Roberts, and P.V.V. Hamill. Vital and Health Statistics. Series 11- No. 160. DHEW Pub. No. (HRA) 77-1642. Health Resources Administration. Washington. U.S. Government Printing Office, Nov. 1976.

National Center for Health Statistics: Skeletal maturity of youths 12-17 years: Geographic area, and socioeconomic differentials, United States, by A.F. Roche, J. Roberts, and P.V.V. Hamill. Vital and Health Statistics. Series 11- No. 167. DHEW Pub. No. (PHS) 79-1654. Public Health Service. Washington. U.S. Government Printing Office, Oct. 1978.

Additional Detailed Notes on pages 71-77 of this documentation package discuss specific items under the hand-wrist x-ray heading.

Detailed Notes

Tape Positions 516-517

Number of fields with bone age entry

After excluding eights (8), blanks and nines (9) from the high order positions 409, 412, 415, 418, 421, 424, 427, 430, 433, 436, 439, 442, 445, 448, 451, 454, 457, 460, 463, 466, 469, 472, 475, 478, 481, 484, 487, 490, 493, 496, and 499 -- count the number of remaining fields with usable bone-age entries in columns 409-501 (Maximum = 31).

Detailed Notes

Tape Positions 518-521

Sum of bone-age entries

Exclusions as for columns 516-517. Then add the bone age entries in these three digit fields.

Detailed Notes

Tape Positions 522-526

Average bone age

Average bone age is determined by dividing columns 518-521 by columns 516-517. Exclusions are the same as for columns 516-517.



Detailed Notes

Tape Positions 537-538

Number of adult bones per youth

The total number of adult bones per youth is determined by excluding 0-8 and blanks in the high order positions 409, 412, 415, 418, 421, 424, 427, 430, 433, 436, 439, 442, 445, 448, 451, 454, 457, 460, 463, 466, 469, 472, 475, 478, 481, 484, 487, 490, 493, 496, and 499 -- then count the number of fields with code 9 in the remainder of these high order positions (Maximum = 31).

Detailed Notes

Tape Positions 539-540

Number of unformed bones per youth

The number of unformed bones per youth is determined by adding the entries in columns 516-517 and columns 537-538 and subtracting this sum from 31. The maximum should be less than 30.

Detailed Notes

Tape Positions 541-543

Bone age range

Excluding blanks, eights (8) and nines (9), the range for bone age is the maximum (largest) bone age entry in 3-digit field 409-501 minus minimum (smallest) bone age.

## Detailed Notes

Tape Positions 551-556

### Bone Density

The method used for determining bone density measurements are described in the following two articles:

Vose, G.P. Estimation of Changes in Bone Calcium Content by Radiographic Densitometry. Radiology. 93:841-844, 1969.

Vose, G.P. Review of Toentgenographic Bone Demineralization Studies of the Gemini Space Flights. Am. J. Roentgenol., Rad. Therapy and Nuclear Med., 121(1):1-4, (May) 1974.

The measurements obtained are respectively, the aluminum equivalency of the middle bone of the little finger (Phalanx V-2) and of the large bone of the wrist (the radius).

Detailed Notes

Tape Positions 557-575

Cortical Thickness

In the cortical thickness measurements, D represents the outer diameter and d the inner diameter of the middle bone-middle finger or middle phalanx (III-2), middle bone in the hand Metacarpal III (III-4) and first bone in the hand immediately adjacent to the thumb or Metacarpal II (II-4). At present the following fields have impossible entries that should be deleted:

<u>Sample Sequence Number</u>	<u>Fields Involved</u>
22772	557-559, 560-562, 575-576
22740	563-565, 566-568, 577-578
04954	569-571, 572-574, 579-580
15670	569-571, 572-574, 579-580
20802	569-571, 572-574, 579-580