# Public Use Data Tape Documentation 

Dietary Frequency and
Adequacy
Ages 1-74
Tape Number 4701
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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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service
Centers for Disease Control
National Center for Health Statistics
Hyattsville, Maryland
May 1981

The data compilation and'documentation necessary for the Dietary Frequency and Adequacy Data Tape were done by Dale Hitchcock, Margaret Carroll, Connfe Dresser, Everette Collins, Evelyn Stanton, and Rita M. Weinberger of the Division of Health Eramination Statistics, National Center for Realth Statistics. A special note of gratitude is due Darian Varga and Eugene Sides who patiently typed and retyped this material.
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## DIETARY EREQUENGY AND ADEQUACY DATA TAEE

## Health and Mutrition Examination Surver, HaNES I, 1971-1975

Description of Surver: A detailed description of the design, content and operation of $\operatorname{HANES}$ I is provided in the following reports: Plan and' Operation of the Health and Nutrition Examination Survey, DBEW Pub. No. (HSM) 73-1310, Saries 1, Nos. 10a and 10b, Public Health Service, Washington, D. C., U. S. Goverment Printing Office, February 1973. Also provided is a draft report on the augmentation aurvey of adults describing the relevant field work conducted between July 1974 and October 1975.

Target Population: HANES I was conducted on a natiouwide probability ample of approximately 28,000 persons, ages 1-74 years, from the civilian, noninatitutionalized population of the coterminous United States, axcepting those persons residing on Indian reservations. The survey started in April 1971 and for many survey components was completed in Juns 1974. The HANES I aample was selected so that certain population groups thought to be at high risk of malmitrition (persons with low incomes, preschool children, women of childbearing age and the elderly) vere oversampled at known rates. Adjusted ampling waights were then computed within 60 age, sex, and race categories in order to inflate the ample in auch a manier as to closely reflect the noninatitutionalized population, ages 1-74 years, of the United States at the mid-point of the survay.

Although the main emphasis of HANES I was on mutrition, 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 aubgroups of the population was done in this ubaample (e.g., women of childbearing age were not oversampled as they ware 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 mutrition survey was completed, the detailed examination given to the 25-74 age group was contimed until the total number of examined persons was approximately double the number of examinees who received the detailed examination during the mutrition survey.

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 queationnaire, 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 chemiatry, 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 wera gathered on the aubsample 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; spirometiy; pulmonary diffusion and tuberculin tests; along with additional laboratory determinations.

## Use of HANES Data

With the goal of mutual benefit, NCHS requestg 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 Staitistica 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 NCES. This does not mean, however, that NCHS will review such descriptions.

## Error: In the Data Seta and Suryey Differences

The data unera tapes have been aubjected to a great deal of cereful editing. Bowever, due to the large volume of data in the series, it is likely that a sall number of errors or discrepancies remain undetected. We vould appreciate if any buch errors are detected that they be brought to our attention so that new corrected copiea of the tape can be created and errata sheets issued to prievious 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 ia, ve have verified that the values have not been incorrectly keyed.

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

## Variance Estination

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 net. 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 sumer 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 exanination locations 66-100.*

01d Strata
(tape positions 194-195) New Strata * New PSU *

| 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 |

[^0]
## Tape Characteristics

Title: Dietary Frequency and Adequacy Data Tape
Catalog Number: 4701
Data Set Name: HEHANESI.DU470105
Record Length: ..... 513
Blocksize: ..... 5130
Number of Records: ..... 20,749
Number of Reels: ..... 1
Recording Mode: Fixed Block, EBCDIC
Channel: 9 Track
Created by: Division of Health Examination Statistics National Center for Health Statistics Hyattsoille, Maryland

## General Notes

Demographic Information: An advance letter, amouncing 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 ita composition and to administer a questionnaire, the primary purpose of which was to obtain demographic information. The questionnaire was administered to each potential aample 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 the 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.

Dietary Frequency and Adequacy Tape: Information on each sample person's usual pattern of food intake was obtained during the first National Health and Nutrition Examination Survey (HANES I) conducted by the National Center for Health Statistics from April 1971 through June 1974 on a national probability sample of persons $1-74$ years of age in the $U . S$. civilian noninstitutionalized population. A dietary interview, conducted by professional dietary ataff, consisted of a 24 -hour recall and food frequency questionalre. The dietary data bank and information derived from interViewing techniques are available on three sets of data tapes: (1) the Model Gram and Nutrient Composition Tapes; (2) the 24-Hour Food Consumption Intake Tape; and (3) the Dietary Frequency and Adequacy Tape.

The Model Gram Tape, which is the firgt of the HANES I dietary data bank tapes, consists of food items in numeric order with deaignated food group numbers, food codes, alphameric descriptions, preferred model codea and their gram conversion factors. This section is the basis for coding all reported food items for the 24 -Hour Recall Intake Tape.

The Nutrient Composition data bank tape is the actual nutrient analysis In 100 gram edible portions of all codes listed in the Model Gram Section. Tape 1 is essential for recording and analyzing the actual 24-Hour Recall Intake data.

The 24-Hour Recall Intake Tape provides such information as specific food items and their quantities ingested for all regular meals, between meal foods or snacks consumed on the day midnight to midnight preceding the interview for each sample person interviewed.

The first half of the Dietary Frequency and Adequacy Tape consists of the food frequency data. The frequency of consumption of foods from 18 groups ingested daily and/or weekly in the usual pattern (taken as being that which had prevailed over the threemonth interval prior to the nutrition interview) accounted for all regular meals eaten as well as for between neal foods or anacks, Monday through Sunday, weekends and holidays. The food frequency method served as a quality control technique for the 24hour recall method of obtaining data while depicting diet profiles over a longer period of time.

The adequacy portion of the tape aumarizes the total nutrient intake from the 24-hour recall record by selected nutrient for each sample person and evaluates that nutrient intake in relation to selected dietary intake atandards used in HANES I. (These atandarda were developed with the advice from an ad hoe group which considered standards from the World Health Organization, Interdepartmental Comittee on Nutrition for the National Defense Manual, the Food and Nutrition Board, National Research Council's Recomended Dietary Allowances, and thoge ued in the Ten-State Nutrition Survey.)

Formate of the 24 -Hour Recall and the three-month Food Frequency questionnaires are in the Vital and Health Statiatics Series 1, No. 10b.

## DEMOGRAPHIC DATA SUMMARY - HANES I

TapePositions
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 Raflroad 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
buainess 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 ..... 127Tape
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

## dLetary frequency and adequacy nata sumanit - hanes I

Tape Positions
CATAIOG MNMBER - 4701 ..... 201
Reopondent Code ..... 216
DIETARY FREQUENCY
How often are the following food items eaten?
MUlk (whole) ..... 217
Milk (akim) ..... 221
Meat and poultry ..... 225
Fish or shellfish ..... 229
Eggs ..... 233
Cheese and cheese dishes ..... 237
Dry beans and peas ..... 241
Fruits and vagetables (all kinds) ..... 245
Fruits and vegetables (rich in vitamin A) ..... 249
Fruits and vegetables (rich in Fitamin C) ..... 253
Bread ..... 257
Cereals ..... 261
Butter and margarine ..... 265
Desserts and sweets ..... 269
Candy ..... 273
Beverages (sweetened, carbonated and non-carbonated) ..... 277
Cold drinks (artificially sweetened or diet drinks) ..... 281
Coffee or tea ..... 285
Snack foods ..... 289
Interviewer code ..... 293
Completion code ..... 296
24-HOUR RECALL SECTION
Respondent ..... 312
Day of recall ..... 313
Is what you ate yeaterday the way you usually eat? ..... 314
Has your diet ehanged recently? ..... 315
Are you taking vitamins or minerals? If yes, what kinds? ..... 316
How many times a week do you eat a meal at a restaurant? ..... 318
How often do you use a salt shaker at the table? ..... 319
Weight in pounds ..... 320
Height in inches ..... 325
Tape Poaitions
NUTRIENTS
Actual daily dietary intaka per individual during 24-hour recall period: Celories ..... 328
Protein ..... 336
Fat ..... 344
Total carbohydrates ..... 352
Calcium ..... 360
Fhosphorus ..... 368
Iron ..... 376
Sodium ..... 384
Potassium ..... 392
Vitamin A ..... 400
Thiamina ..... 408
Riboflavin ..... 416
NLacin ..... 424
Vitamin C ..... 432
ADEQUACY
Individual's caloric and mutrient intake as the percent of hanes $I$ dietary standards:
Calortes ..... 445
Protein ..... 451
Calcium ..... 457
Iron ..... 463
Vitamin A ..... 469
Vitamin C ..... 475
Imputation code ..... 481
ADDENDA TO NUTRIENTS
Saturated fatty acid ..... 482
Oleic acid ..... 490
Linoleic acid ..... 498
Cholesterol (Dietary) ..... 506

heinlth and mutrition examination survey (hanes i)

\begin{tabular}{|c|c|c|c|c|c|}
\hline Item 0 \& Tape Loc. \& No. of Positions \& ITEM DESCRIPTIOX \& CODES \& Control Counts \& hanes I Data Source <br>
\hline \multirow{20}{*}{$$
\begin{aligned}
& 1 \\
& \stackrel{1}{\circ} \\
& \stackrel{1}{2}
\end{aligned}
$$} \& \multirow[t]{2}{*}{15

16} \& 1 \& | If 10 acres or more, asked if |
| :--- |
| Sale of Crops, Etc. Amount to $\$ 50$ or more? |
| 2-Yes |
| 4 - No' |
| 9 - Not applicable | \& \[

$$
\begin{array}{r}
1160 \\
772 \\
18817
\end{array}
$$
\] \& Household Questionnaire <br>

\hline \& \& 1 \& | If 10 acres or less, asked if |
| :--- |
| Sale of Crops, Etc. Amount to $\$ 250$ or more? |
| 3-Yes |
| 5 - No |
| 9 - Not applicable | \& \[

$$
\begin{array}{r}
131 \\
5073 \\
15545
\end{array}
$$
\] \& Household Questionnaire <br>

\hline \& 17-18 \& 2

1 \& | Age - Head of Hourehold |
| :--- |
| 16-92 as given |
| 00 Blank, but applicable |
| Sex - Head of Household | \& 20744

5 \& Houmehold Questionnaire
Household Questionnaire <br>

\hline \& 19 \& 1 \& $$
\begin{aligned}
& 1 \text { - Male } \\
& 2 \text { - Female }
\end{aligned}
$$ \& \[

$$
\begin{array}{r}
16660 \\
4089
\end{array}
$$
\] \& <br>

\hline \& \multirow[t]{16}{*}{20-21} \& \multirow[t]{16}{*}{2} \& Highest Grade Attended - Head of Household 10 - None \& 223 \& Household Questionnaire <br>
\hline \& \& \& 21 - 1st grade \& 82
190 \& <br>
\hline \& \& \& $22-2 n d$ grade
23 - 3rd grade \& 379 \& <br>
\hline \& \& \& 24-4th grade \& 427 \& <br>
\hline \& \& \& 25 - 5th grade \& 421 \& <br>
\hline \& \& \& $26-6 t h ~ g r a d e ~$
$27-7$ th grade \& 702 \& <br>
\hline \& \& \& 28 - 8th grade \& 2405 \& <br>
\hline \& \& \& 31 - 9th. grade - \& 1121 \& <br>
\hline \& \& \& 32 - 10th grade \& 1458 \& <br>
\hline \& \& \& 33 - 11th grade. \& 1133 \& <br>
\hline \& \& \& 34 - 12th grade \& 6153 \& <br>
\hline \& \& \& 41 - First year of college \& 746
1081 \& <br>
\hline \& \& \& 42 - Second year of college \& 485 \& <br>
\hline \& \& \& 43 - Third year of college \& 1317 \& <br>
\hline \& \& \& 45 - Graduate ${ }^{\text {- }}$ \& 1084 \& <br>
\hline \& \& \& 88 - Blank, but applienble \& 661 \& <br>
\hline
\end{tabular}

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| Item $0$ | Tape <br> LOC. | No. of Positions | ITEM DESCRIPTION \& CODES | Control Counts | HANES I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 22 | 1 | $\begin{aligned} & \text { Race - Read of Household } \\ & \hline 1 \text { - White } \\ & 2 \text { - Regro } \\ & 3 \text { - Other } \end{aligned}$ | $\begin{array}{r} 16387 \\ 4149 . \\ 213 \end{array}$ | Household Questionnaire See Detailed Motea |
|  | 23-24 | 2 | Total Mumber of $\cdot$ Persons in Household 01-19 - As given | 20749 | Houschold Questiomaire |
|  | 25-26 | 2 | $\frac{\text { Total Sample Persons in Household }}{01-07-\text { As given }}$ | 20749 | Household Questiomalre |
| - | 27 | 1 | $\begin{aligned} & \text { Number of Rooms in House } \\ & \hline 1-8-\text { As given } \\ & 9-9 \text { or wore } \end{aligned}$ | $\begin{array}{r} 19747 \\ 1002 \end{array}$ | Househoid Quentionnaire |
| 1 | 28 | 1 | $\begin{aligned} & \text { Is there piped vater? } \\ & 1=\text { Yes } \\ & 2 \text { - No } \end{aligned}$ | $\begin{array}{r} 20043 \\ 706 \end{array}$ | Househoid Questionnaire |
|  | 29 | 1 | If yea Io there hot and cold piped. vater? 1 - Yes 2 - No 9 - Not applicabie | $\begin{array}{r} 19527 \\ 518 \\ 704 \end{array}$ | Houmehold Questionnaira |
|  | 30 | 1 | $\begin{aligned} & \text { If yen to piped water - } \\ & \text { Does House Have a Sink with Piped Water? } \\ & \frac{1}{2-\text { Yes }} \\ & 2 \text { - Ho } \\ & 9 \text { - Hot applicable } \end{aligned}$ | $\begin{array}{r} 19866 \\ 181 \\ 702 \end{array}$ | toumehold Quentionnaire |
|  | 31 | $1$ | Does House Have a Range or Cook Stove? $\begin{aligned} & 1-\mathrm{Yes} \\ & 2-\mathrm{No} \end{aligned}$ | $\begin{array}{r} 20513 \\ 236 \end{array}$ | Houschold Questionamire |



HEALTH AND MOTRITION EXAMTNATION SURVEY (HANES I)

| Item $\qquad$ | Tape Loc. | $\begin{aligned} & \text { No. of } \\ & \text { Positions } \end{aligned}$ | ITEM DESCRIPTION \& CODES | Control Counts | HANES I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 37-40 | 4 | If yee to above, how much altogether before deductiona? 0001-8000 - As given <br> 8888 - Blank, but applicable <br> 9999 - Not applicable | $\begin{array}{r} 4468 \\ 884 \\ 15397 \end{array}$ | Household Queationnaire |
|  | 41 | $1$ | Social Security. or Railroad Retirement? <br> 1 - Yes <br> 2 - No <br> 8 - Blank, but applicable <br> 9 - Not appiicable | $\begin{array}{r} 2914 \\ 5226 \\ 595 \\ 12014 \end{array}$ | Household Questionnaire |
| $\begin{gathered} 1 \\ 6 \end{gathered}$ | 42-45 | 4 | If yes to above, how much altogether? 0001-6999 - As given <br> 8888 - Biank, but applicable <br> 9999 - Not applicable | $\begin{array}{r} 2852 \\ 657 \\ 17240 \end{array}$ | Household Questionnaire |
| 1 | 46 | 1 | Welfare. Payments or Other Public Asoistance? <br> 1-Yes <br> 2 - No <br> 8 - Blank, but applicable <br> 9 - Not applicable | $\begin{array}{r} 2414 \\ 5716 \\ 605 \\ 12014 \end{array}$ | Household Queationnaira |
| - | 47-50 | 4 | $\begin{aligned} & \text { If yes to above, how much altogether? } \\ & \hline 0001-6999 \text { - As given } \\ & 8888 \text { - Blank, but applicable } \\ & 9999 \text { - Not applicable } \end{aligned}$ | $\begin{array}{r} 2383 \\ 636 \\ 17730 \end{array}$ | Household Questionnaire |
|  | 51 | 1 | Unemployment or Horkmen's Compengation? <br> 1 - Yes <br> 2 - No <br> 8-Blank, but applicable <br> 9 - Not applicable | $\begin{array}{r} 641 \\ 7690 \\ 604 \\ 12014 \end{array}$ | Bousehold Questionnaire |


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| Item $\theta$ | Tape Loc. | No. of Positions | ITEM DESCRIPTION \& CODES | Control Counts | fanes I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathbf{1} \\ & \mathbf{N} \\ & \mathbf{1} \end{aligned}$ | 82-85 | 4 | $\begin{aligned} & \text { If yes to above, how much altogether? } \\ & \hline 0001-6999 \text { - As given } \\ & 8888 \text { - Blank, but applicable } \\ & 9999 \text { - Not applicable } \end{aligned}$ | $\begin{array}{r} 426 \\ 615 \\ 19708 \end{array}$ | Houcehold Questionnaire |
|  | 86 | $1$ | ```Any other income? 1-Yes 2 - No 8 - Blank, but applicable 9 - Not applicable``` | 325 7799 607 12018 | Household Queationnaire |
|  | 87-90 | 4 | If yes to above, hor much altogether? <br> 0001-6999 - As given <br> 8888 - Biank, but applicable <br> 9999 - Not applicable | $\begin{array}{r} 313 \\ 619 \\ 19817 \end{array}$ | Household Questionnaire |
|  | 91-94 | 6 | Total Amount (Total of Positions 37-90) <br> 0000-6999 - As given <br> 8888 - Blank, but applicable <br> 9999. - Not applicable | $\begin{array}{r} 7676 \\ 1060 \\ 12013 \end{array}$ | Bousehold Queationnaire |
|  | 95-99 | 5 | $\frac{\text { FAMILY UNIT CODE }}{00001-23180}$ | 20749 | Computer generated See Detailed Notes |
|  | 100 | 1 | Relationship to Head of Household <br> 1-Head (1 person living alone or with non-relatives) <br> 2 - Head (2 or more related persons in family) <br> 3 - Wife <br> 4 - Child <br> 5 - Other relative | $\begin{gathered} 1920 \\ 4912 \\ 5256 \\ 7733 \\ 928 \end{gathered}$ | Bouachold Questionnaiże |
|  | 101-2 | 2 | $\frac{\text { Age at Interyiew }}{01-74-\text { As given }}$ | 20749 | Household Queationnaire |

HEALTH ARD NUTRITION EXAHINATION SURVET (HANES I)


| Item P | Tape Loc. | No. of Positions | ITEM DESCRIPTION \& CODES | Control Counts | hanes I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1 \\ & \stackrel{y}{2} \\ & i \end{aligned}$ | 112-13 | 2 | Higheat Grade of regular achool ever attended? |  | Household Queationnaire |
|  |  |  | 10-None | 240 438 |  |
|  |  |  | $21-1 a t ~ G r a d e ~$ $22-2 i n d ~ G r a d e ~$ | 445 |  |
|  |  |  | 23 - 3rd Grade | 556 |  |
|  |  |  | 24 - 4th Grade | 660 |  |
|  |  |  | 25 - 5th Grade | 654 |  |
|  |  |  | $26-6$ ch Grade | 833 |  |
|  |  |  | 28 - 8th Grade | 1897 |  |
|  |  |  | 31 - 9th Grade | 1070 |  |
|  |  |  | 32 - 10th Grade | 1263 |  |
|  |  |  | 33 - 11th Grade | 968 |  |
|  |  |  | 34 - 12th Grade | 4642 659 |  |
|  |  |  | 41 - First year of college | 659 809 |  |
|  |  |  | 42 - Second year of college | 343 |  |
|  |  |  | 44 - Fourth year of college | 883 |  |
|  |  |  | 45 - Graduate | 540 18 |  |
|  |  |  | 77 - Special School | 108 |  |
|  |  |  | 99 - Not applicable | 2966 |  |
|  | 114 | 1 | Did he finish the grade? | 11380 | Bousehold Questionnaire |
|  |  |  | 1 - Yes | 5929 |  |
|  |  |  | 8 - Blank, but applicable | 234 |  |
|  |  |  | 9 - Not applicable | 3200 |  |
|  | 115 | 1 | Is he attending achool now? |  | Hounchold Queationnaire |
|  |  |  | 1-Yes | 4876 |  |
|  |  |  | 2- No Blank, but applicable | 0 |  |
|  |  |  | 9 - Not applicable | 16416 |  |

HEALTR AND NUTRITTON ERAMIMATION SUNVEY (RANES I)

|  | Tape Loc. | No. of Positions | ITEA DESCRIPTION \& CODES | Control Counts | fandes 1 Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 116 | 1 | flat he ever attended a school of any kind? <br> 1-Yes <br> 2 - Mo <br> 8 - Blank, but applicable <br> 9 - Hot applicable | $\begin{array}{r} 668 \\ 1127 \\ 0 \\ 18954 \end{array}$ | Household Questionnaira |
|  | 117 | 1 | If yes, what kind of echool? <br> 1 - Nuraery <br> 2. - Kindergarten <br> 3 - Other <br> 4 - Headatart <br> 5 - Daycare <br> B - Blank, but appilceble <br> 9.- Not applicable | $\begin{array}{r} \because 150 \\ 362 \\ 73 \\ 45 \\ 38 \\ 0 \\ 20081 \end{array}$ | Eousehold Questionnaire |
| $\begin{aligned} & \mathbf{G} \\ & \mathbf{B} \end{aligned}$ | 118 | 1 | Is any language other than Engifoh frequently apoken in the household? <br> 1-Yes. <br> 2 - Ko <br> 8 - Blank, but applicable | $\begin{array}{r} 2437 \\ 18110 \\ 202 \end{array}$ | Household Questiomaire |
|  | 119 | 1 | If yes, what language? <br> 0 - German <br> 1 - Italian <br> 2 - French <br> 3-Polish <br> 4. - Ruasian <br> 5 - Spanish <br> 6 - Chinese <br> 7 - Other languaga <br> 8 - Blank, but applicable <br> 9 - Not applicable | $\begin{array}{r} 146 \\ 137 \\ 410 \\ 82 \\ 19 \\ 1202 \\ 31 \\ 400 \\ 212 \\ 18110 \end{array}$ | Housebold Quentionnalre: |


| Item $\qquad$ | Tape Loc. | No. of Positions | ITEM DESCRIPTION \& CODES | Control Counts | hanes I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1 \\ & 0 \\ & 0 \\ & 1 \end{aligned}$ | 120-21 | 2 | What is your main ancestry or national origin? <br> 00 - German <br> 01 - Irish <br> 02 - Italian <br> 03 - French <br> 04 - Polish <br> 05 - Russian <br> 06 - English <br> 07 - Spanish <br> 08 - Mexican <br> 09 - Chinese <br> 10 - Japanese <br> 11 - Auerican Indian <br> 12 - Negro <br> 13 - Jewish <br> 14 - American <br> 15 - Other <br> 8B - Blank, but applicable <br> 99 - Don't know | $\begin{array}{r} 3385 \\ 2592 \\ 643 \\ 1104 \\ 525 \\ 188 \\ 2541 \\ 436 \\ 685 \\ 40 \\ 45 \\ 352 \\ 4173 \\ 56 \\ 1455 \\ 1956 \\ 66 \\ 507 \end{array}$ | Household Questionnaire |
|  | 122 | 1 | What was he doing most of past three months? <br> 1-Working <br> 2 - Reeping house <br> 3 - Something else <br> 8 - Blank, but applicable <br> 9 - Not applicable | $\begin{array}{r} 6371 \\ 4869 \\ 2712 \\ 27 \\ 6770 \end{array}$ | Household Questionnaire <br> Household Questionnaire |
|  | 123 | 1 | If "something else" from above, what was he doing <br> 0 - Laid off <br> 1 - Retired <br> 2 - Student <br> 3 - Other <br> 4-111 <br> 5 - Stnying home <br> . 6 - Looking for work <br> 7 - Unable to work <br> B - Blank, but applicable 9 - Not applicable. | $\begin{array}{r} 28 \\ 1320 \\ 792 \\ 117 \\ 123 \\ 56 \\ 57 \\ 220 \\ 26 \\ 18010 \end{array}$ |  |

heenth and wotrition examimation sukpey (ranes i)

| Lem $\stackrel{\theta}{0}$ | Tape Loc. | No. of Positions | ITEM DESCPIIPTION \& CODES | Control Counts | HANES I Data <br> Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & i \\ & \text { in } \\ & \text { i } \end{aligned}$ | 124 | 1 | ```If "keeping house" or "something elae" from above, did he work at a job or business at any time during the past three mgiths? 1-Yes 2 - No 8- Blank, but applicable 9 - Not applicable``` | $\begin{array}{r} 1054 \\ 6522 \\ 36 \\ 13137 \end{array}$ | Household Questionnaire |
|  | 125 | 1 | If "Working" from above, did he work full-time or part-time? <br> 1-Full-time <br> 2 - Part-time <br> 8 - Blank, but applicable <br> 9 - Not applicable | 5705 1714 38 13292 | Household Quentionnaire |
|  | 126 | 1 | Did he work at any time last week or the week beforel (not around house) <br> 1-Yes. <br> 2 - No <br> 8 - Blank, but applicable <br> 9 - Not applicable <br> If "no" to above, even though he did not work during that time, does | 6600 755 103 13291 | Household Questionnaire |
|  | 127 | 1 | If "no" to above, even though he did not work during that time, does he have a job or business? <br> 1-Yes <br> 2 - No <br> 8. - Blank, but appilcable <br> 9 - Not applicable | 397 6878 104 13370 | Household Questionnaire |
|  | 128 | 1 | If "no" in Position 126, was he looking for work or on lay-off from <br> a job? <br> 1-Yes <br> 2 - No <br> B - Blank, but applicable <br> 9 - Not applicable | $\begin{array}{r} 537 \\ 6738 \\ 104 \\ 13370 \end{array}$ | Household questionnaire |


| Iten | Tape Loc. | $\begin{gathered} \text { No. of } \\ \text { Positione } \end{gathered}$ | ITEA DESCRIPTION 8 CODES | Control Counte | RANES I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \mathbf{1} \\ \mathbf{N} \\ \mathbf{0} \\ \mathbf{1} \end{gathered}$ | 129 | 1 | If yes to above - which? <br> 1 - Looking <br> 2 - Lay-off <br> 3 - Both <br> 8 - Blank, but applicable <br> 9 - Not applicable | $\begin{array}{r} 405 \\ 109 \\ 24 \\ 104 \\ 20107 \end{array}$ | Household Queationnaire |
|  | 130 | 1 | Class of Worker <br> 1-Private paid <br> 2 - Government-Federal <br> 3 - Government-Other <br> 4 - Own <br> 5 - Non-paid <br> 6 - Never worked <br> 8 - Blank, but app1icable <br> 9 - Not applicable | $\begin{array}{r} 5462 \\ 248 \\ 1001 \\ 745 \\ 122 \\ 60 \\ 25 \\ 13086 \end{array}$ | Household Questiomaire |
|  |  | 1 | ```If aelf-employed in "own" business and not a farm, is the buginems Incorporated? 1-Yes 2 - No 8 - Blank, but applicable 9 - Not applicable``` | $\begin{array}{r} 83 \\ 535 \\ 26 \\ 20105 \end{array}$ | Eousabold Questionnaire |
|  | $\begin{gathered} 132-34 \\ 135-37 \end{gathered}$ | 3 | $\frac{\text { Business or Industry Code }}{017-999-\text { As given }}$ | 20749 | Household Questiomaire See Detailed Motee |
|  |  | 3 | $\frac{\text { Occupation Code }}{001-995 \text { As given }}$ | 20749 | Hounehold Questionnaire See Detailed Notes |
|  | 138-43 | 6 | $\begin{aligned} & \text { Date of Examination } \\ & \hline \text { Month }=01-12 \text { as given } \\ & \text { Day - 01-31 as given } \\ & \text { Year - } 71-75 \text { as given } \end{aligned}$ | 20749 | Control Record |

henlth and rutrition eximinntion survey (haves i)

| Item | Tape Loc. | $\begin{aligned} & \text { Ho. of } \\ & \text { Positions } \end{aligned}$ | ITEM DESCRIPTION 6 CODES | Control Counte | haves I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathbf{1} \\ & \text { º } \end{aligned}$ | 144-45 | 2 | $\frac{\text { Age at Exelnation }}{01-75-\text { As given }}$ |  | Computer generated |
|  | 146 | 1 | $\left\lvert\, \begin{aligned} & \frac{\text { Parn }}{1-\text { Farn }} \\ & 2 \text { - Nonfarm } \end{aligned}\right.$ | $\begin{array}{r} 1291 \\ 19458 \end{array}$ | Computer generated See Detalled Motes |
|  | 147-49 | 3 | $\begin{aligned} & \text { Poverty Index ( } \mathrm{X} . \mathrm{xX} \text { ) } \\ & \text { 001-997 - As given } \\ & 998 \text { Index computed } 998 \text { or greater } \\ & 999 \text { - Unknown } \end{aligned}$ | $\begin{array}{r} 20002 \\ 25 \\ 722 \end{array}$ | Computer generated See Detailed Moten |
|  | 150 | $1$ | Region <br> 1 - Northeast <br> 2 - Midweat <br> 3 - South <br> 4 - West | $\begin{aligned} & 4442 \\ & 5101 \\ & 5603 \\ & 5603 \end{aligned}$ | Computer generated See Detailed Motea |
|  | 151 | $1$ | FOOD PROGRAMS APPLTCABILTIT <br> 1 - Not applicable <br> 2 - No progran available <br> 3 - Food stampa avallable <br> 4 - Connoditiea available <br> 8 - Blank, but appilcable | $\begin{array}{r} 14683 \\ 112 \\ 5142 \\ 760 \\ 52 \end{array}$ | Food Prograse quast. |
|  | 132 | 1 | Are you certified to participate in the food atamp prograni $\begin{aligned} & 1 \text { - Yes } \\ & 2 \text { - No } \\ & 9 \text { - Don't knove } \\ & \text { Blank } \end{aligned}$ | $\begin{array}{r} 2374 \\ 1934 \\ 1126 \\ 16315 \end{array}$ | Food Programe Quent. |

liealth and mutrition examination survey (hanes i)

health and nutrition examination survey (hanes i)

| Item | Tape Loc. | No. of Positions | ITEM DESCRIPTION 6 CODES | Control Counts | $\begin{aligned} & \text { HANES I } \\ & \text { Data Source } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathbf{1} \\ & \mathbf{0} \\ & \mathbf{1} \end{aligned}$ |  |  | SAMPLE WEIGHTS |  |  |
|  | 158-63 | 6 | Detailed Personis, Location 01-35 Blanke | $\begin{array}{r} 1892 \\ 18857 \end{array}$ | See Detailed Notes |
|  | 164-69 | 6 | A11 Sample Persons, Locations 01-35 Blanks | $\begin{aligned} & 10127 \\ & 10622 \end{aligned}$ | See Detailed Motes |
|  | 170-75 | 6 | Detailed Persons, Locations 01-65 Blanks | $\begin{array}{r} 3854 \\ 16895 \end{array}$ | See Detailed Notem |
|  | 176-81 | 6 | A11 Sample Persons, Locations 01-65 Blanks | $\begin{array}{r} 20749 \\ 0 \end{array}$ | See Detailed Motes |
|  | $\begin{array}{\|l\|l} 182- \\ 193 \end{array}$ | 12 | Work Area |  |  |
|  | $\begin{aligned} & 194- \\ & 195 \end{aligned}$ | 2 | STRATA 1/ | 20749 |  |
|  | $\begin{aligned} & \text { 196- } \\ & 198 \end{aligned}$ | 3 | Primary Sampling Unit.- $/$ | 20749 |  |
|  | $\begin{aligned} & \text { 199- } \\ & 200 \end{aligned}$ | 2 | Work Area |  |  |
|  |  |  | 1/Uae 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. |  |  |

healita and mutrition emamimation surver (hanes i)
dietary frequedct and adequact
( $\mathrm{n}=20749$ )

| Item | $\begin{aligned} & \text { Tape } \\ & \text { Loc. } \end{aligned}$ | No. of <br> Positione | 1TE DESCRIPTION 6 CODES | Control Counts | HANES I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{i}{i}$ | $\begin{aligned} & 201- \\ & 204 \end{aligned}$ | 4 | $\frac{\text { Catalogue Muber }}{4701}$ |  |  |
|  | $\begin{aligned} & 205- \\ & 215 \end{aligned}$ | 11 | Data User Mork Area |  |  |
|  | 216 | 1 | Respondent Code |  | Dietary Frequency Recording Form |
|  |  |  | 1-Sample Pereon |  |  |
|  |  |  | $2-S p o u m e$ 3 - Parent | $\begin{array}{r} 110 \\ 3928 \end{array}$ |  |
|  |  |  | 4 - Grandparent | 3928 78 |  |
|  |  |  | 5 - Combination of above | 604 |  |
|  |  |  | 6 - Other | 487 |  |
|  |  |  | 9 - Unknown | 7 |  |
|  |  |  | DIETART FREQUEHCT |  |  |
|  |  |  | How often are the following food items eaten? (x,k.x) Dectral not shown on tape |  |  |
|  | $\begin{aligned} & 217- \\ & 220 \end{aligned}$ | 4 | Milk (whole) |  |  |
|  |  |  | 0005 - Lever than once a week | 2979 | See Detailed Notes |
|  |  |  | 0010-0060 - One to oix times per week | 4530 |  |
|  |  |  | 1010-1240 - One to 24 times per day 9999 - Unknown | 11474 |  |
|  | $\begin{aligned} & 221- \\ & 224 \end{aligned}$ | 4 | Milk (kkim) or Buttermilk |  |  |
|  |  |  | 0000 - Never <br> 0005 - Leas than once a veek <br> 0010-0060 - One to six times per veek 1010-1100 - One to 10 times per day 9999 - Unknown | 15407 | See Detailed Rotes |
|  |  |  |  | 1823 |  |
|  |  |  |  | 1512 |  |
|  |  |  |  | 1581 |  |
|  |  |  |  | 426 |  |

## health and nutrition examination survey (hanes i)

DIETARY FREqUENCY AND ADEQUACY

| Item | Tape Loc. | No. of Positions | ITEM DESCRIPTION \& CODES | Control Counts | HANES I <br> Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 225- \\ & 228 \end{aligned}$ | 4 | Meat and Poultry <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1090 - One to nine times per day <br> 9999 - Unknown | $\begin{array}{r} 57 \\ 81 \\ 3571 \\ 16586 \\ 454 \end{array}$ | Dietary Frequency Recording Form |
|  | $\begin{aligned} & 229- \\ & 232 \end{aligned}$ | 4 | Fish or Shellfiah <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1020 - One to two times' per day <br> 9999 - Unknown | $\begin{array}{r} 1990 \\ 7326 \\ 10824 \\ 188 \\ 421 \end{array}$ |  |
| $\begin{gathered} \mathbf{1} \\ \mathbf{N} \\ \mathbf{1} \end{gathered}$ | $\begin{aligned} & 233- \\ & 2.36 \end{aligned}$ | 4 | Eggs <br> 0000 - Never <br> 0005 - Lese than once a veek <br> 0010-0060 - One to six times per week <br> 1010-1070 - One to seven times a day <br> 9999 - Unknown | $\begin{array}{r} 1288 \\ 2263 \\ 13144 \\ 3628 \\ 426 \end{array}$ |  |
|  | $\begin{aligned} & 237- \\ & 240 \end{aligned}$ | 4 | Cheese and Cheese Dishes <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1070 - One to seven times per day <br> 9999 - Unknown | 1687 3185 13316 2115 446 |  |
|  | $\begin{aligned} & 241- \\ & 244 \end{aligned}$ | 4 | Dry Beans and Peas <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1080 - One to eight times per day <br> 9999 - Unknown | $\begin{array}{r} 1805 \\ 4599 \\ 11848 \\ 2057 \\ 440 \end{array}$ |  |

dietary frequency and adequacy

| Iten | Tape Loc. | $\begin{array}{\|c\|} \text { No. of } \\ \text { Positions } \end{array}$ | ITEP DESCRIPTION \& CODES | Control Counts | Hantes I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 245- \\ & 248 \end{aligned}$ | 4 | Fruits and Vegetables (All kinds) <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1090 - One to nine times per day <br> 9999 - Unknown | $\begin{array}{r} 26 \\ 99 \\ 2243 \\ 17896 \\ 485 \end{array}$ | Dietary Frequency Recording Form |
|  | $\begin{aligned} & 249- \\ & 252 \end{aligned}$ | 4 | Fruits and Vegetables (Rich in Vitamin A) <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1070 - One to seven times per day <br> 9999 - Unknown | $\begin{array}{r} 2287 \\ 4835 \\ 12135 \\ 1008 \\ 484 \end{array}$ |  |
| $\begin{gathered} \mathbf{1} \\ \mathbf{w} \\ \mathbf{1} \end{gathered}$ | $\begin{aligned} & 253- \\ & 256 \end{aligned}$ | 4 | Fruits and Vegetables (Rich in Vitamin C) <br> 0000 - Never <br> 0005 - Leas than once a week <br> 0010-0060 - One to six times per week <br> 1010-1090 - One to nine times per day <br> 9999 - Unknown | $\begin{array}{r} 914 \\ 2169 \\ 9796 \\ 7369 \\ 501 \end{array}$ |  |
|  | $\begin{aligned} & 257- \\ & 260 \end{aligned}$ | 4 | Bread <br> 0000 = Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1080 - One to eight times per day <br> 9999 - Unknown | $\begin{array}{r} 104 \\ 180 \\ 2481 \\ 17546 \\ 438 \end{array}$ |  |
|  | 261- | 4 | Cereals <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1070 - One to seven times per day <br> 9999 - Unknown | $\begin{array}{r} 4610 \\ 2870 \\ 9039 \\ 3804 \\ 426 \end{array}$ |  |

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)

DIETARY FREQUENCY AND ADEQUACY

| Item F | Tape Loc. | No. of <br> Positions | ITEM DESCRIPTION \& CODES | Control Counts | HANES I <br> Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 265- \\ & 268 \end{aligned}$ | 4 | Butter and Margarine <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1080 - One to eight times per day <br> 9999 - Unknown | $\begin{array}{r} 1192 \\ 1040 \\ 4447 \\ 13623 \\ 447 \end{array}$ | Dietary Frequency Recording Form |
|  | $\begin{aligned} & 269- \\ & 272 \end{aligned}$ | 4 | Desserts and Sweets <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1070 - One to seven times per day <br> 9999 - Unknown | $\begin{array}{r} 844 \\ 1932 \\ 9453 \\ 8077 \\ 443 \end{array}$ |  |
| 案 | $\begin{aligned} & 273- \\ & 276 \end{aligned}$ | 4 | Candy <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six thes per veek <br> 1010-1100 - One to 10 times per day <br> 9999 - Unknown | $\begin{array}{r} 3256 \\ 4427 \\ 8770 \\ 3849 \\ 447 \end{array}$ |  |
|  | $\begin{aligned} & 277- \\ & 280 \end{aligned}$ | 4 | Beverages-aweetened, carbonated and non-carbonated 0000 - Hever <br> 0005 - Less than once a veek <br> 0010-0060 - One to aix times per week <br> 1010-1100 - One to 10 times per day <br> 9999 - Unknown | $\begin{array}{r} 3460 \\ 2306 \\ 7717 \\ 6828 \\ 438 \end{array}$ |  |
|  | $\begin{aligned} & 281- \\ & 284 \end{aligned}$ | 4 | Cold Drinks-artificially aveetened or diet drinks <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1090 - One to nine times per day <br> 9999 - Unknown | $\begin{array}{r} 16557 \\ 1389 \\ 1529 \\ 852 \\ 422 \end{array}$ |  |

## HEALTH AND MUTRITION EXAMIMATION SURVET (RANES I) <br> DIETARY FREQUENCY AKD ADEQUACY

| $\begin{gathered} \text { Item } \\ \hline \end{gathered}$ | Tape Loc. | Ro. of Ponitions | ITEM DESCRIPTION \& CODES | $\begin{aligned} & \text { Control } \\ & \text { Counts } \end{aligned}$ | HANES I Data Source' |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} 1 \\ \text { L } \\ 1 \end{gathered}$ | $\begin{aligned} & 285- \\ & 288 \end{aligned}$ | 4 | Coffee or Ten <br> 0005 - Lese than once a week <br> 0010-0060 - One to alx times per week <br> 1010-1160 - One to 16 tines per day <br> 9999 - Unknown | $\begin{array}{r} 4188 \\ 1260 \\ 3078 \\ 11787 \\ 436 \end{array}$ | Dietary Frequency Recording Form |
|  | $\begin{aligned} & 289- \\ & 292 \end{aligned}$ | 4 | Snack Foods <br> 0000 - Never <br> 0005 - Less than once a week <br> 0010-0060 - One to six times per week <br> 1010-1070 - One to seven times per day <br> 9999 - Unknown | $\begin{array}{r} 3900 \\ 4049 \\ 10149 \\ 2212 \\ 439 \end{array}$ |  |
|  | $\begin{aligned} & 293- \\ & 295 \end{aligned}$ | 3 | $\begin{gathered} \text { Interviever Code } \\ \text { 032-051 - As given } \\ 999 \text { - Blank } \end{gathered}$ | $\begin{array}{r} 20688 \\ 61 \end{array}$ |  |
|  | 296 | 1 | $\begin{aligned} & \text { Completion Code } \\ & \frac{1-\text { Satisfactory }}{2 \text { - Unsatisfactory }} \end{aligned}$ | $\begin{array}{r} 20338 \\ 411 \end{array}$ | See Detailed Notes |
|  | $\begin{aligned} & 297- \\ & 311 \end{aligned}$ | 15 | Blank-Data Uaer Hork Area <br> 24-HOUR RECALL |  |  |
|  | 312 | 1 | Regpondent <br> 1-Sample Person <br> 2 - Spouse <br> 3 - Parent <br> 4 - Grandparent <br> 5 - Combination of above <br> 6 - Other | $\begin{array}{r} 15429 \\ 95 \\ 3199 \\ 67 \\ 1379 \\ 580 \end{array}$ | 24-Hour Recall Form |

health and nutrition examination survey (hants i)
dIETARY FREQUENCY AND ADEQUACY

\begin{tabular}{|c|c|c|c|c|c|}
\hline Item \& Tape Loc. \& No. of Positions \& ITEM DESCRIPTION \& CODES \& Control Counts \& \begin{tabular}{l}
HANES I \\
Data Source
\end{tabular} \\
\hline \multirow{33}{*}{4} \& \multirow[t]{9}{*}{313} \& \multirow[t]{9}{*}{1} \& Day of Recall \& \& 24-Hour Recall Form \\
\hline \& \& \& 1-Sunday \& 98 \& \\
\hline \& \& \& 2 - Monday \& 3832 \& \\
\hline \& \& \& 3 - Tuesday \& 4252 \& \\
\hline \& \& \& 4 - Wednesday \& 3967 \& \\
\hline \& \& \& 5 - Thursday \& 3668 \& \\
\hline \& \& \& 6 - Friday \& 4887 \& \\
\hline \& \& \& 7 - Saturday \& 40
5 \& \\
\hline \& \& \& B - Blank \& 5 \& \\
\hline \& \multirow[t]{6}{*}{314} \& \multirow[t]{6}{*}{1} \& Is what you ate yesterday the way you usually eat? \& \& \\
\hline \& \& \& 1-Yes \& 16933 \& \\
\hline \& \& \& 2-No, 111 \& 533 \& \\
\hline \& \& \& 3 - No, no money \& 26 \& \\
\hline \& \& \& 4 - No, Sunday \& 112 \& \\
\hline \& \& \& 5 - No, other reason \& 3145 \& \\
\hline \& \multirow[t]{5}{*}{315

316} \& \multirow[t]{4}{*}{1} \& Has your diet changed recently? \& \& <br>
\hline \& \& \& O-No \& 14120 \& <br>
\hline \& \& \& 1 - Yes, eating more \& 2908 \& <br>

\hline \& \& \& | 3 - Yes, eating less |
| :--- |
| 4 - Yes, on a preacribed diet | \& 3173

548 \& <br>
\hline \& \& \multirow[t]{4}{*}{1} \& \& \& <br>
\hline \& \multirow[t]{3}{*}{316} \& \& Are you taking vitamins or minerals?

$$
\overline{0} \text { - No }
$$ \& \& <br>

\hline \& \& \& 0- No
1 - Yes, regularly \& 138698 \& <br>
\hline \& \& \& 2 - Yes, irregularly \& 2152 \& <br>
\hline \& \multirow[t]{10}{*}{317} \& \multirow[t]{10}{*}{1} \& If yea to above \& \& <br>
\hline \& \& \& 0-Unknown, prescriptions \& 123 \& See Detailed Notes <br>
\hline \& \& \& 1 - Multiple vitamins \& 1776 \& <br>
\hline \& \& \& 2 - Multiple vitamins and winerals \& 899
265 \& <br>
\hline \& \& \& 4 - Multiple vitamins with iron \& 1781 \& <br>
\hline \& \& \& 5 - Vitamins E, A and D \& 1717 \& <br>
\hline \& \& \& 6 - Vitamin C \& 179 \& <br>
\hline \& \& \& 7 - Calctum \& 26 \& <br>
\hline \& \& \& 8 - Not applicable/Vitamin B \& 13955 \& <br>
\hline \& \& \& 9 - Miscellaneous \& 28 \& <br>
\hline
\end{tabular}

## health and nutrition examination survey (hanes i)

dietary freodency and adequacy.

| $\begin{gathered} \text { Item } \\ \hline \end{gathered}$ | Tape Loc. | $\begin{aligned} & \text { No. of } \\ & \text { Poaltions } \end{aligned}$ | ITEM DESCRIPTION \& CODES | Control Counts | HANRS I <br> Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 318 | 1 | How many times a veek do you eat a meal at a reataurant? <br> 0 - Seldon, never <br> 1-1-3 times per week <br> 2-4-6 tines per week <br> 3-7 or more times per week <br> Blank | $\begin{array}{r} 11199 \\ 5871 \\ 2790 \\ 888 \\ 1 \end{array}$ | 24-Hour Recall Form |
|  | 319 | 1 | How often do you use salt shaker at the table? ( 20 years old or over) <br> 0-Rarely, never <br> 1 - Occasionally, seldom <br> 2 - Frequently, always <br> 8 - Not applicable (less than 20 yrs. old) <br> Blank | $\begin{array}{r} 6077 \\ 3004 \\ 4226 \\ 7431 \\ 11 \end{array}$ |  |
| $\stackrel{\sim}{\boldsymbol{v}}$ | $\begin{aligned} & 320- \\ & 324 \end{aligned}$ | 5 | Weight in Pounds (xxx.xx) Decimal not shown on tape 01375-40000 - As given | 20749 | Body Measurement Record Form |
| - | $\begin{aligned} & 325- \\ & 327 \end{aligned}$ | 3 | Height in Inches (xx.x) Decimal not shown on tape 203-795 - As given <br> NUTRIENTS (xicrorx.xx) Decimal not shown on tape (Actual dietary intake per individual during 24 -hour recall period) | 20749 | Computed for food itens 1isted In 24-Hour Recall |
|  | $\begin{aligned} & 328- \\ & 335 \end{aligned}$ | 8 | $\frac{\text { Calories }}{00003097-01097860-A s ~ g i v e n ~}$ | 20749 | See Detailed Notes |
|  | $\begin{aligned} & 336- \\ & 343 \end{aligned}$ | 8 | $\frac{\text { Protein (in grams) }}{00000001-00038228-\text { As given }}$ | 20749 |  |
|  | $344-$ | 8 | $\begin{aligned} & \text { Fat (in grams) } \\ & \hline 00000001-00070292-A s \text { given } \end{aligned}$ | 20749 |  |
|  | $\begin{aligned} & 352- \\ & 359 \end{aligned}$ | 8 | Total Carbohydrate (in grams) 00000367-0010.7942-As given | 20749 |  |
|  | $\begin{aligned} & 360- \\ & 367 \end{aligned}$ | 8 | $\frac{\text { Calcium (in willigrams) }}{00000000-00684530-A s ~ g i v e n ~}$ | 20749 | . |

HEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)
dietary frequency and adequacy

hEALTH AND NUTRITION EXAMINATION SURVEY (HANES I)
dIETARY FREqUENCY AND ADEOUACY

| Item | Tape Loc. | No. of Positions | ITEA DESCRLPTION \& CODES | Control Counts | HANES I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $451-$ | 6 | $\frac{\text { Protein }}{000000-000972 \text { - As given }}$ | 20749 | Computed for food items listed in 24-Hour Recall |
|  | $457-$ | 6 | $\frac{\text { Calcium }}{000000-001711 \text { - As given }}$ | 20749 | See Detailed Rotes |
|  | $\begin{aligned} & \text { 463- } \\ & 468 \end{aligned}$ | 6 | $\frac{\text { Iron }}{000000-000755-A s} \text { given }$ | 20749 |  |
|  | $\begin{aligned} & 469- \\ & 474 \end{aligned}$ | 6 | $\frac{\text { Vitamin A }}{000000-007003-A s ~ g i v e n ~}$ | 20749 |  |
|  | $\begin{aligned} & 475- \\ & 480 \end{aligned}$ | 6 | $\frac{\text { Vitanin C }}{000000-004038-A s}$ | 20749 |  |
| $\begin{aligned} & 1 \\ & 6 \\ & 0 \end{aligned}$ | 481 | 1 | Imputation Code <br> 0 - Not imputed <br> 2 - Imputed | $\begin{array}{r} 20270 \\ 479 \end{array}$ | See Detailed Notes |


| Item * | Tape Loc. | No. of <br> Positions | ITEA DESCRIPTION AND CODES | Control Counts | IUNES I Data Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADIENDA TO NUIRIENIS (xOOCOOX.JOX) <br> Actual dietary intake per individual during 24-hour recall period |  | Couputed for food itens listed in 24-hour recall |
|  | $\begin{aligned} & 482- \\ & 489 \end{aligned}$ | 8 | Saturated fatty acid (in grams) 000000000-00033410 - As given 99999 - Blank, but applicable | $\begin{array}{r} 20669 \\ 80 \end{array}$ |  |
|  | $\begin{aligned} & 490- \\ & 497 \end{aligned}$ | 8 | Oleic acid (in grams) <br> 00000000-00028223 - As given 99999999 - Blank, but applic̣able | $\begin{array}{r} 20499 \\ 80 \end{array}$ |  |
|  | $\begin{aligned} & 498- \\ & 505 \end{aligned}$ | 8 | Linoleic acid (in grans) $00000000-00013011$ - As given 99999999 - Blank, but applicable | $\begin{array}{r} 20669 \\ 80 \end{array}$ |  |
| Ho | $\begin{aligned} & 506- \\ & 513 \end{aligned}$ | 8 | ```Cholesterol (in milligrams) 00000000-00367932 99999999 - Blank, but applicable``` | $\begin{array}{r} 20669 \\ 80 \end{array}$ |  |

## 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 tatistical area is basically a county or a group of contiguous counties which containe at least one city of 50,000 inhabitante or more, or "twin cities" with a combined population of at least 50,000. In addition to the county or counties containing euch a eity 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 identifie the central city or cities.

## 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" unlesa 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 $\mathbf{\$ 6 , 9 9 9 ,}$ but the individual total in tape positions 91-94 does not exceed this figure.

## DETAILED NOTES

TAPE POSITIONS 95-99

## Family Onit Code

All related ample 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 d.s. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Standard Abbreviation | Code | Name of Place | Code |  |
| ALLABAMA | Ala. | 01 | American Samos | 60 |  |
| ALASKA | Alaska | 02 | Canal Zone | 61 |  |
| ARIZONA | Ariz. | 04 | Canton end Enderbury Islande | 62 |  |
| ARKANSAS | Ark. | 05 | Caroline Islands | 63 |  |
| CALI FORNIA | Calif. | 06 | Cook Is lands | 64 |  |
| COLORADO | Colo. | 08 | Gilbert and Elife Islands | 65 |  |
| CONNECTICUT | Conn. | 09 | Guam | 66 |  |
| DELAWARE | Del. | 10 | Johnston Azoll | 67 |  |
| DIST. OF COLUMBIA | D.C. | 11 | Line Islands - Southern | 68 |  |
| FLORIDA | Fla. | 12 | Marlana Islands | 69 |  |
| GEORGIA | Ga. | 13 | Harshall Islands | 70 |  |
| HAWAII | Hawali | 15 | Midway Is lands | 71 |  |
| IDAHO | Idaho | 16 | Puerto Rico | 72 |  |
| ILLINOIS | I11. | 17 | Ryukyn Islands - Southern | 73 |  |
| INDIANA | Ind. | 18 | Swan Islands | 74 |  |
| LOWA | Iowa | 19 | Tokelau Is lands | 75 |  |
| KANSAS | Rani. | 20 | U.S. Misc. Caribbean | 76 |  |
| KENTUCKY | K Y . | 21 | U.S. Misc. Pacific Islands | 77 |  |
| LOUIS LANA | Len. | 22 | Virgin Jslands | 78 |  |
| MAINE | Haine | 23 | Wake Islands | 79 |  |
| MARYLAND | Md. | 24 | Cuba | 80 |  |
| ASSACHUSETTS | Mass. | 25 | West Indies | 81 |  |
| -ixmicaly | MSEL. | $\underline{25}$ |  | 01 |  |
| MINNESOTA | Minn. | 27 | South America | 92 |  |
| MTSSISSIPPI | Miss. | 28 | Europe | 93 |  |
| MISSOURI | Mo. | 29 | Africa | 94 |  |
| MONTANA | Mont. | 30 | Asia | 95 |  |
| NEBRASKA | Nebr. | 31 | Australasia | 96 |  |
| REVADA | Nev. | 32 | Pacific Islands | 97 |  |
| NEW HAMPSHIRE | N. $\mathrm{H}_{\text {, }}$ | 33 |  |  |  |
| NEW JERSEY | J.J. | 34 |  |  |  |
| NEW MEXICO | N. Mex. | 35 |  |  |  |
| REW YORK | M.Y. | 36 |  |  |  |
| NORTH CAROLINA | B.C. | 37 |  |  |  |
| MORTH DAKOTA | N. Dak. | 38 |  |  |  |
| OHIO | Ohio | 39 |  |  |  |
| OKLAHOMA | Okla. | 40 |  |  |  |
| OREGON | Ores, | 41 |  |  |  |
| PENNSYLVANIA | Pa, | 42 |  |  |  |
| RHODE ISLAND | R.I. | 44 |  |  |  |
| SOUTH CAROLIMA | S.C. | 45 |  |  |  |
| SOUTH DAKOTA | S. Dak. | 46 |  |  |  |
| TENNESSEE | Tenn. | 47 |  |  |  |
| TEXAS | Tex. | 48 |  |  |  |
| UTAH | OTah | 49 |  |  |  |
| VERMONT | Vt. | 50 |  |  |  |
| YIRGINIA | Va, | 51 |  |  |  |
| SASHINGTON | Hash. | 53 |  |  |  |
| WEST VIRGINLA | H. Vn, | 54 |  |  |  |
| HISCONSIN | Wis. | 55 |  |  |  |
| RYOMING | Hyo. | 56 |  |  |  |

## Industry and Occupation Codes

A person's occupation may be defined as his principal job or bueiness. For this survey purpose, the principal job or business of a respondent is defined in one of the following waye: If the person vorked during the two week interview period or had a job or businese, the question concerning his occupation (or vork) appliee 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 epent at each job. A person who has not begun work at a nev job, is looking for vork, or is on layoff fron work is questioned about his last full-time civilian job. A full-time job is defined as one at which the person epent 35 or more hours per weelk 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 1s classified as a "new worker."

The 1970 census of population Alphabetical Index of Industriea 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 otatus was determined by the Poverty Income Ratio (PIR). Poverty statistics published in the Census Bureau reports $/$ 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 establiabments 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 dollor value of the denominator of the PIR is constructed from a food plan (economy plan) necessary to maintain minimum recomended 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 pöverty," ration 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 Reporta, "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

Vaighted average thresholda at che lou income level in 2971 by size of fanily and aex of head, by farmononfarm realdence

| Sise of fanly | Total | Monfarin |  |  | Far |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | $\begin{aligned} & \text { Male } \\ & \text { head } \end{aligned}$ | $\begin{gathered} \text { Foma le } \\ \text { head } \end{gathered}$ | Total | Malel head | $\begin{aligned} & \text { Temelel } \\ & \text { bend } \end{aligned}$ |
| All unrelated individucl | - 22.039 | \$2,040 | \$2,136 | \$1,978 | \$1.727 | \$1,783 |  |
| Doder 65 yearc-a--0.0. | 2,093 | 2,090 | 2,101 | 2,017 | 1,805 | 1,853 | 1,715 |
| 65 yeara and over-- | 1,931 | 1,940 | 1:959 | 1,934 | 1;652 | 1,666 | 1:643 |
|  | 3,700 | 3.724 | 3,764 | 3,428 | 3.235 | 3,242 | 3,079 |
| 2 persone--------- | 2.612 | 2.633 | 2,641 | 2,501 | 2,219 | 2,224 | 2.130 |
| Fead under 65 jears | 2,699 | 2,716 | 2,731 | 2,635 | 2,317 | 2,322 | 2.195 |
| Fead 65 years and o | 2.424 | 2,448 | 2.450 | 2,437 | 2,032 | 2,081 | 2,089 |
|  | 3.207 | 3.229 | 3.246 | 3,127 | 2,745 | 2,749 | 2,627 |
| 4 persons-0. | 4.113 | 4,137 | 4,139 | 4,116 | 3,527 | 3,528 | 3,513 |
| 5 persons- | 4.845 | 6,880 | 4.884 5.492 | 4,037 460 | 4,159 | 4.159 | 4,148 |
| 9 persons ------- | 5,441 | 5.489 6.751 | 5.492 6.771 | 5.460 6.583 | 4, 4 , 688 | 4, 4.689 5.749 | 4,656 <br> , 516 |

${ }^{1}$ For unrelated individuals, sex of the individual.
source: D.S. Departaent of Commerce, Social and Econowic Statistics Administration, D.S. Bureau of the Cenaus "Characteriatice of the Income Population: 1971," current fopularion leports, Series P -60, Mo. 66, P. 18.

## Region

The United Statea 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:

| Region | States Included |
| :---: | :---: |
| Northeast | Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania |
| South | Delaware, Maryland, District of Columbia, West Virginia, Virginia, Rentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Miesissippi, Louisiana, and Arkansas |
| Midwest | Ohio, Illinois, Indiana, Mchigan, Wisconsin, Minnesota, Iowa, Missouri |
| West | Washington, Oregon, California, Nevada, New Mexico, Aitizona, Texas, Oklahoma, Ransas, Nebraska, North Dakota, South Dakota, Idaho, Utah, Colorado, Montana, and Wyoming. |

## DETAILED NOTES

TAPE POSITIONS 158-193

RANES is a multistage, atratified, 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 eubsample 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, EANES is composed of six distinct subsamples of the U.S. population. For a more detailed discusaion of the cample design see Series 1 , No. 10a.

Since each of these six subsamples is a distinct subsample of the D.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 at 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 aleo vant to formulate hypotheses using one subsample and test those hypotheses using another subsample.

## DETAILED NOTES

TAFE POSITIONS 217-224

Includes only milk drunk as a beverage or used on cereal. Flavored milk drinks and cocoa made from milk are included.

Include " $1 \%$ milk" with skim milk; " $2 \%$ milk" with whole milk.

DETAILED NOTES
TAFE FOSITIONS 217-292
A. Background information on nutritional importance of specified food groups

## Whole lilk

All hamogenized winite riilk (3-4 percent, 2 percent and l. percent skim) contribute to the diet a significant amount of high quelity protein, calcium, phosphorus, magnesilu, zinc, vitamins, riboflavin, niacin, and vitamins $A$ and D (when fortified). Dietitians feel that adults of all ages should include at least 2 cups of fluid milk per day, or its equivalent. Tnis allowance should be increased to 3 cups for school childrein and pregnant wonen and to 4 cups for adolescents and lactating bomen. When it is desirable or necessary to minimize milk fats, whole milk should be substituted with skim milk.

## Meats, Poultry, Fish and Shellfish

Meat lis an excellent source of high quality protein with a variable anount of fat. Heat also cor:tributes phosphorus, calciun, iron, sodiun, potassiln, choride, sulfur, magnesium, and zinc to the diet. Vitamin $A$ in the fat of beef and liver, dactors of the vitamin $B$-complex are the vitarins abundant in meat.

Poultry also contributes to the diet an exceilent source of high quality protein, phosphorus, sulfur, iron and the B-complex vitarins, especially niacin.

Fish and shellfish ane excellent sources of high quality protein, phosphorus, and magresiun. Shellfish also contributes to the diet zinc, iodire, sulfur, fluprine, cobalt, iran, copper; calcium, and cholesterol. Fatty fish are sources of vitanins $A$ and $D$. As a food, fish is equal in nutritive value to meat, except by ounce it hes a lower caloric value. It is recommended that at least 5-6 ounces of meat, poultry, or fish be consumed each day. Those who are calcrie corscious usually limit their intake of red meats and substitute poultry or fish which is lower in calories per ounce. Sone people are allergic to shellfish.

## Eegs

Eggs are an excellent source of complete high quality protein and also contribute to the diet, sulfur, zinc, copper, phosphorus, iron, vitamin $A$, riboflavin, vitamin $B_{12}$, vitanin $D$, and cholesterol. Egg yolk should be limited for those on a cholesterol restricted diet.

## Cheese

Cheese is a source of high quality protein and contributes calcium, phosithorus and the $B$-complex vitanins to the diet. Cheese should be used as an alternative if milk or meat is limited or excluded from the diet.

## Dry Bears/Legnas and Nuts

These foods provide significant protein, iron and niacin levels in the diet. This group also contributes to the diet, phosphorus, magnesium, potassiun, copper, manpanese, thianin, and ribofiavin. In general, they are incspensive and offer variety to the diet. This group can be used to substitute for meat, poultry, or fish only if adequate anounts of cheese and milk are still included in the diet.

## Fruits and Vegctables

Fruits and vcgetables lend a great variety to the diet in terms of color, flavor and texture. Unlike most of the food groups, fruits and vegetables supply rouithage and water. This group is unique for irs contribution to the ascorbic acid and vitamin A value of the diet. Fruits and vegetables nake an exeellent contribution to the iron level of the diet as well as minerals and B -complex vitanins. At least four servings of a corbination of fruits and vegetables per day is recormended.

## Breads and Cereals

Bread and grain products supply the diet with carbohydrates, chrorium, manganese, ared iron, along with the B-cemplex vitanins when Ecrtified. Because of its availability, moderate cost, and excellant keeping quaiities, grain is used more abundently than any other food material. Trree or more servings oí enriches bread or bread group items (rice and pastas) are recomended daily for all age groups.

Cereal foods are, for the most part, a primary source of energy ior riost of the world's psople. Because of the sugar conterit of many cereals on the market, many omit this food item from their diet but lose many nutrient benefits provided by whole-grain and enriched grain products. Cereals suppiy the diet with carbchydrates, phosphoris, magnesiun, potassiun, and iron along with thiamin, riboflavin, and niacin (when fortified).

## Butter/itarearine and Oils

These visible fats in the diet are a concentrated source of energy. Butter, regular margarine, and hydrogenated fat contain a higher proportion or saturated fatry acids than do oils. Eutter is a source of saturated fat, cholesterol, and vitanin A. Kargarine is an unseturated fat and provides vitamin $A$, if specified. Oils provide the diet with polyunsaturated fat with few exceptions. For those who must restrict their cholesteruj. intake, butter and hydrogenated fats should be substituted with vcgetable oil.

## Desserts/Candy and Cold drinks prepared with sugar

Sufficient calories to maintain optinum body weight are obtained by eating large anounts of any of the food proups or by adring fats, sweets, and desserts. Usually these foods offer satisfactery calorics, some protcin, mineruls, and vitanins. It is necessary to enphasize that excessive use of fats, desserts, and candies may jeopardize the satisfactory intake of essentia] nutrients.

Cold Beverapes, artificially swectened, or Diet Drints
Cold beverages which are artificially sweetened or diet drinks contribute mo nutrition to the diet unless specified as fortified.

Coffee or Tea
Coffee and tea offer variety to the diet but have no nutritious value by themselves. Crean and sugar added to these beverages contribute fats and carbohydiate for a source of energy.

Snack Foods
The snack focd category includes potato chips, puffed salty snack foods, pretzels, etc. These focd items add varioty to a meal but contribute significant anvints of fats, sodiun, and carbohydrates. Like desserts and -sweets, excessive amounts of these foods usually jeopardize the satisfactory intake of essential nutrisats from the other food groups.

## DETAILED NOTES

TAFE POSITION 296


#### Abstract

Completion Code " 1 " is used when a satiafariory interview has been completed. An incomplete code " 2 " is used when the dietary interviewer feels the data are faccurate or unsatisfactory. She bases her opinion on the sample person's physical and/or mental fnability to complete the intervew.


Physical and mental considerations are blindness, deafness, muteness, language barrier (when an interpreter is unavailable); mental retardation, etc. The attitude of the sample person also plays an important part in deciding the completion code. If the sample person is belligerent, intoxicated, uncooperative or indifferent about giving accurate or ample information, the completion code is deemed unsatisfactory and coded as "2."

DETAILED NOTES
TAPE POSITION 317

## Vitamins or Minerale

The codes include these specific items:

0 - unknown, prescriptions
1 - multiple vitamins, multiple vitamins with additional supplements
2 - multiple vitamins and minerals, multiple vitamins and minerals with additional supplements

3 - iron only
4 - multiple Fitamins with iron; iron with additional supplements-geritol

5 - Vitamin E, vitamin E with additional supplements Vitamin A, vitamin A with additional supplements Vitamin D, vitamin $D$ with additional supplements

6 - Vitamin C, vitamin C with additional supplements
7 - Calcium, calcium with additional supplements; dolomite-minerals with calcium and magnesium

8 - If column 316 is 0, 8 means not applicable. If column 316 is 1 or 2, 8 means vitamin B complex, vitamin $B$ complex with additional supplements.

9 - Miscellaneous; cod liver oll; brewer's yeast, kelp lectchiein, yeast tablets, alfalfa tablets, liver tablets, $K$ (potassium), folruma 24, iodine, bone meal, bone marrow, protein pills, amino acid pills, fluoride, energol-wheat germ concentrate

Actual dietary intake is given in appropriate units for calories and the selected nutrienta. These values were obtained by a computerized process which utilized the resulta of the BANES I 24-Hour Recall Dietary Interview. Each food item that a respondent had eaten over the 24 -hour period was asaigned a unique food code and the approximate portion or amount of that food item which was ingested was coded through the use of standardized food models. The food codes matched those assigned to data on the nutrient composition of over 3,000 food items which were obtained from the U. S. Department of Agriculture, food mamufacturers, and other sources. From the above information, all food intake during the $24-h o u r$ period was then raduced by a computer program to otandard units of measure for each merient.

## DETAILED NOTES

TAFE POSITIONS 445-480

As a guide to interpreting the dietary data, a set of recomended daily allowances for the evaluation of HANES data was developed with advice from an ad hoc advisory group. The group considered recommended daily allowances from the World Health Organization, the Interdepartmental Committee on Kutrition for the Mational Defense Mamal, the Food and Mutrition Board, National Resaarch Council's Recommended Daily Allowances, and from those atandards used in the Ten-State Nutrition Survey. The recommended allowances are designed for the maintenance of good mutrition In healthy persons in the Uaited States. They allow for some margin above what is really needed by most individuals with the objective of maintaining good health in all. Except for protein and calories, the recommended daily allowances as prosented in Table VI are all related to age, physiological state, or to caloric intake.

Table VI. Scandarda for evaluation of daily dietary intake used in the Health and Kutrition Examination Survey, United States, 1971-72

| Age and sex | $\begin{aligned} & \text { Calories } \\ & \text { (per kg) } \end{aligned}$ | $\begin{aligned} & \text { Protein } \\ & \text { (gmper } \\ & \mathbf{k g}^{2} \text { ) } \end{aligned}$ | $\underset{(\mathrm{mg})}{\text { Calcium }}$ | $\begin{aligned} & \text { Iron } \\ & \text { (ㅍg) } \end{aligned}$ | Vitanin (x.v.) | $\begin{gathered} \text { Vitamin } \\ \underset{(\mathrm{mg})}{\mathrm{C}} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1-5 years: |  |  |  |  |  |  |
| 12-23 month, mle and female----- | 90 | 1.9 | 450 | 15 |  |  |
| 24-47 months, mie and female----- | 86 82 | 1.7 | 450 | 15 10 | 2,000 | 40 |
| 6-7 years, male and female-- | 82 | 1.3 | 450 | 10 | 2,500 | 40 |
| 8-9 years, male and female------0.0-0 | 82 | 1.3 | 450 | 10 | 2,500 | 40 |
|  | 68 | 1.2 | 650 | 10 | 2,500 | 40 |
| 10-12 Female- | 64 | 1.2 | 650 | 18 | 2,500 | 40 |
|  | 60 | 1.2 | 650 | 18 | 3,500 | 50 |
| Female-- | 48 | 1.2 | 650 550 | 18 | 3,500 | 55 |
| 17-19 yeara---------------Male---- | 34 | 1.1 | 550 | 18 | 3,500 | 50 |
| 20-29 yeara---------------Male---- | 40 | 1.0 | 400 | 10 | 3,500 | 60 |
| 20-29 years----------------Mle---- | 35 | 1.0 | 600 | 18 | 3,500 | 55 |
| 30-39 yeara----------------Male----- | 38 | 1.0 | 400 | 10 | 3,500 | 60 |
| 30-39 yeara Femile-- | 33 | 1.0 | 600 | 18 | 3,500 | 55 |
| 40-49 yeare----------------Mgle---- | 37 | 1.0 | 400 | 10 | 3,500 | 60 55 |
|  | 31 | 1.0 | 600 | 18 | 3,500 | 55 |
| 50-54 years----------------Male----- | 36 | 1.0 | 400 600 | 10 | 3,500 | 60 55 |
|  | 30 36 | 1.0 1.0 | 600 400 | 18 | 3,500 | 55 60 |
| 55-59 years----------------Male---- | 36 30 | 1.0 | 600 | 10 | 3,500 | 55 |
| 60-69 years----------------Male----- | 34 | 1.0 | 400 | 10 | 3,500 | 60 |
| yearsomale-- | 29 | 1.0 | 600 | 10 | 3,500 | 55 |
| 70 years and over----------Male---- | 34 | 1.0 | 400 | 10 | 3,500 | 60 |
| 20 yeara and Female-- | 29 | 1.0 | 600 | 10 | 3,500 | 55 |
| Pregnancy (fifth month and beyond), add to basic acandard- | 200 | 20 | 200 |  | 1,000 | 25 |
| Lactating, add to basic stand- <br>  | 1,000 | 25 | 500 |  | 1,000 | 5 |

[^1]Standards for assessing caloric and protein allowances for adulta are based on expected median body weight for sex and height at ages 20-29 years. More specifically, an axpected body weight at ages 20-29. years was computed for aach individual adult based on height and sax. The median of the distribution of expected weight for each height and sex group was determined. The standardized allowance for each individual 20 years and over was then calculated by multiplying the median expected weight for height and sex by the recommended nutrient allowance per kilogram of body weight. The resultant product was then taken as that individual's sex-haight-standardized allowance. The reported caloric or protein intake for each individual was then divided by this atandardized allowance to arrive at the "percent of recoumanded daily allowance." Height-sex-specific weight at ages $\mathbf{2 0 - 2 9}$ is used because at these ages it is thought to most closely approximate the body's cell mass. Cell mass, the metabolically activa part of the body, is the major determinant of adult nutrient needs. Weight gain after $\mathbf{2 0 - 2 9}$ years is presumed to be fat, with little increase of the body's cell mass. In fact, cell mass tends to decrease with age even as weight increases, which indicates that these atandardized allovances tend to overatate the nutrient needs of older people as compared with younger. This bias is much less, however, then the presentation of nutrient intake per kilogram of body weight.

A similar method was used to obtain height-sex-standardized allowancea for assessing caloric and protein dietary intakes of children. The expected median body weight for age, sex, and height was derived from anthropometric data collected in HANES.

DETAILED NOTES
TAFE POSITION 481

Nutrient intake values for 479 sample persons with unsatisfactory dietary interview results were imputed by randomly assigning the nutrient intake values of a sample person of the same age, sex, race, region and residential area population size. An inspection of the records with the imputed values revealed that a further adjustment based on the sample person's body weight needed to be performed for approximately one-fourth of the records involved. This additional step was then carried out to complete the imputation process.


[^0]:    *See detailed note for tape positions 158-193.

[^1]:    IAsaumed 70 percent carotene, 30 percent recinol.
    -For all pregrint women.

