

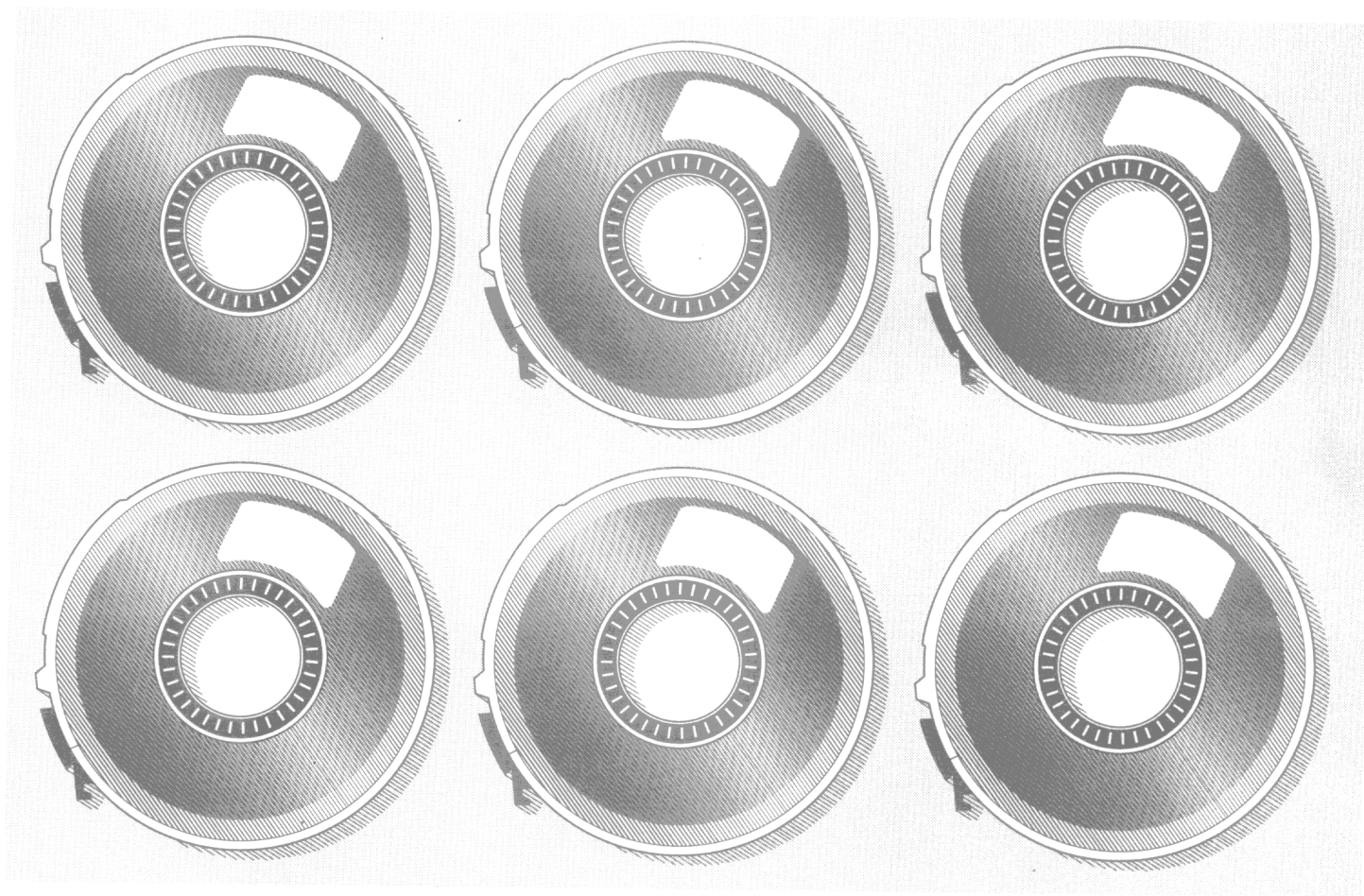
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# Public Use Data Tape Documentation

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24-Hour Recall, Ages 6 Months - 74 Years  
Tape Number 6526

Version 1, Hispanic Health and Nutrition Examination Survey, 1982-84



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



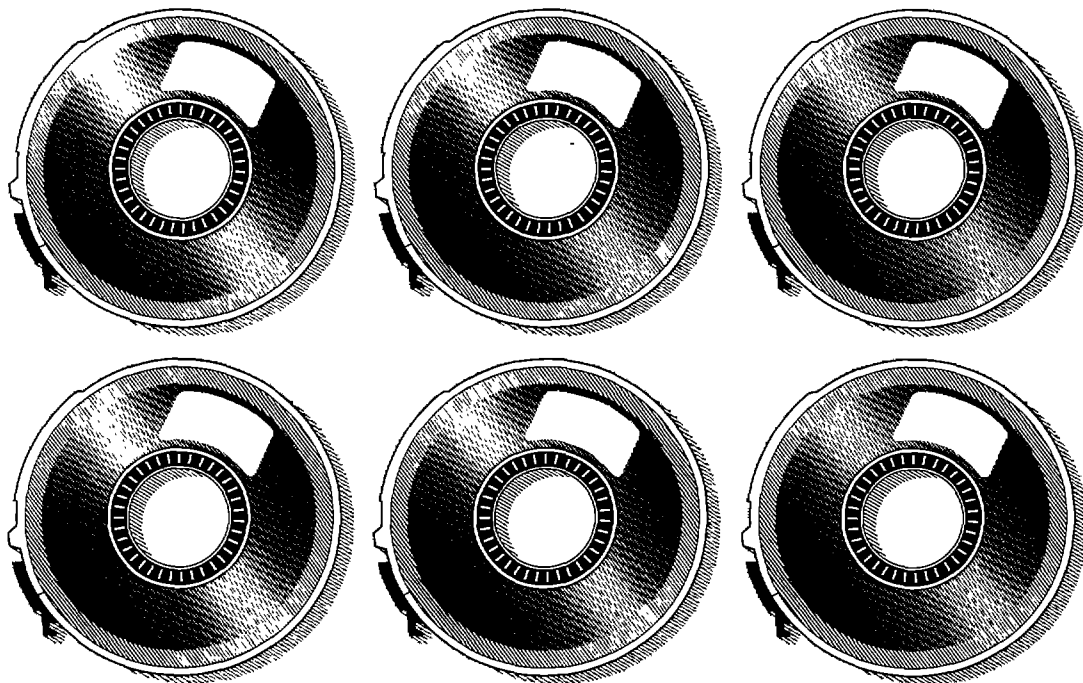
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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Public Health Service  
Centers for Disease Control  
National Center for Health Statistics

Hyattsville, Maryland  
May 1992

**Public Use Data Tape Documentation**

**Tape Number 6526**

**24-HOUR RECALL**

**AGES 6 MONTHS - 74 YEARS**

**Version 01**

**Hispanic Health and Nutrition Examination Survey, 1982-1984**

**U.S. Department of Health and Human Services-Public Health Service-National Center for Health Statistics**

# Hispanic Health and Nutrition Examination Survey

Mexican Americans  
Cuban Americans  
Puerto Ricans

Tape Number 6526

**24-HOUR RECALL**

**Ages 6 Months - 74 Years**

Version 01

February 1992

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

## **Mexican Americans**

Residing in selected counties of Texas, Colorado, New Mexico, Arizona, and California

Surveyed from July 1982 through November 1983

9,894 persons sampled; 8,554 interviewed; 7,462 examined

## **Cuban Americans**

Residing in Dade County (Miami), Florida

Surveyed from January 1984 through April 1984

2,244 persons sampled; 1,766 interviewed; 1,357 examined

## **Puerto Ricans**

Residing in the New York City area, including parts of New Jersey and Connecticut

Surveyed from May 1984 through December 1984

3,786 persons sampled; 3,369 interviewed; 2,834 examined

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

Tape labels: IBM standard  
Data set name: HHANES.DU652601  
Data set organization: Physical sequential  
Record format: Fixed block  
Record length: 750  
Block size: 15000  
Density: 6250 BPI  
Number of records: 175,110  
Data code: EBCDIC

## CAUTION

BEFORE USING THIS DATA TAPE,  
PLEASE READ THIS PAGE

- o Read the accompanying description of the survey, "The Plan and Operation of the Hispanic Health and Nutrition Examination Survey", DHHS Publication No. (PHS) 85-1321 before conducting analyses of the data on this tape.
- o Two aspects of HHANES, especially, should be taken into account when conducting any analyses: the sample weights and the complex survey design.
- o Analyses should not be conducted on data combined from the three portions of the survey (Mexican-American, Cuban-American, Puerto Rican).
- o HHANES is a survey of Hispanic households and some of the sample persons included on this tape are not of Hispanic origin. A detailed description of the data codes dealing with national origin or ancestry appears in the NOTES section of this document.
- o Examine the range and frequency of values of a variable before conducting an analysis of data. The range may include unusual or unexpected values. The frequency counts may be useful to determine which analyses may be worthwhile.
- o Language of Interview, which may appear several places on this tape, can vary depending on the questionnaire (several used in the survey) and on whether the response was provided by the sample person or by a proxy.
- o For some data items, reference is made to a note. The notes (in a separate section of this document) may be very important in data analyses. Attention to them is strongly urged.
- o For some data items, the number of sample persons with a positive response is very small. In these instances, it may not be possible to produce a reliable population estimate.

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

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

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

Division of Health Examination Statistics  
National Center for Health Statistics  
Presidential Building, Room 900  
6525 Belcrest Road  
Hyattsville, MD 20782

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

Scientific and Technical Information Branch  
National Center for Health Statistics  
Presidential Building, Room 1064  
Hyattsville, MD 20782  
301-436-8500

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## SECTION A. INTRODUCTION AND SURVEY DESCRIPTION

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

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

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

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

- o A Household Screener Questionnaire (HSQ), administered at each selected address, for determining household eligibility and for selecting sample persons.
- o A Family Questionnaire (FQ), administered once for each family containing sample persons, which included sections on family relationships, basic demographic information for sample persons and head of family, Medicare and health insurance coverage, participation in income assistance programs, and housing characteristics.
- o An Adult Sample Person Questionnaire (ASPQ), for persons 12 through 74 years which, depending on age, included sections on health status measures, health services utilization, smoking (20 through 74 years), meal program participation, and acculturation. Information on the use of medicines and vitamins in the past two weeks was also obtained.
- o A Child Sample Person Questionnaire (CSPQ), for sample persons 6 months through 11 years which included sections on a number of health status issues, health care utilization, infant feeding practices, participation in meal programs, school attendance, and language use. Information on the use of medicines and vitamins in the past two weeks was also obtained.



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

- o An Adult Sample Person Supplement (ASPS), for sample persons 12 through 74 years, which included sections on alcohol consumption, drug abuse, depression, smoking (12 through 19 years), pesticide exposure, and reproductive history.
- o A Dietary Questionnaire (DQ), for persons 6 months through 74 years, by which trained dietary interviewers collected information about "usual" consumption habits and dietary practices, and recorded foods consumed 24-hours prior to midnight of the interview.
- o An examination which included a variety of tests and procedures. Age at interview and other factors determined which procedures were administered to which examinees. A dentist performed a dental examination and a vision test. Technicians took blood and urine specimens and administered a glucose tolerance test, X-rays, electrocardiograms, and ultrasonographs of the gallbladder. Technicians also performed hearing tests and took a variety of body measurements. A physician performed a medical examination focusing especially on the cardiovascular, gastrointestinal, neurological, and musculoskeletal systems. The physician's impression of overall health, nutritional and weight status, and health care needs were also recorded. Some blood and urine specimen analyses were performed by technicians in the examination center; others were conducted under contract at various laboratories.

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

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

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

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

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

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

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

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

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

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

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

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

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

Variable	Mean or Proportion	Tape Positions	Both Sexes	Male	Female
Percent of food energy consumed at breakfast	p	495-502 & 409	2.9	1.9	1.9
Percent of food energy consumed at lunch	p	495-502 & 409	2.5	1.6	2.1
Percent of food energy consumed at snacks	p	495-502 & 409	2.0	1.7	1.6
Percent of food energy consumed at dinner	p	495-502 & 409	1.8	1.5	1.7
Percent of cholesterol consumed at dinner	p	543-550 & 409	2.4	1.8	1.8
Percent of vitamin C consumed at snacks	p	607-614 & 409	3.2	3.0	2.3
Percent contribution of whole milk to calcium	p	663-670 & 421-427	4.6	2.8	3.2
Food energy	$\bar{x}$	495-502	1.0	1.0	1.1
Saturated Fat	$\bar{x}$	519-526	1.1	1.1	1.0
Cholesterol	$\bar{x}$	543-550	1.3	1.2	1.2
Sodium	$\bar{x}$	711-719	1.5	1.2	1.1
Calcium	$\bar{x}$	663-670	2.8	1.9	1.9
Iron	$\bar{x}$	687-694	1.0	1.0	1.0
Ascorbic Acid	$\bar{x}$	607-614	1.6	1.1	1.9
Vitamin A (IU)	$\bar{x}$	575-582	2.4	1.5	1.9

Source: NCHS, HHANES, 1982-84, Tape Number 6526, Version 01.

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

Variable	Mean or Proportion	Tape Positions	Both Sexes	Male	Female
Percent of food energy consumed at breakfast	p	495-502 & 409	1.3	1.1	1.0
Percent of food energy consumed at lunch	p	495-502 & 409	1.2	1.1	1.1
Percent of food energy consumed at snacks	p	495-502 & 409	1.3	1.1	1.3
Percent of food energy consumed at dinner	p	495-502 & 409	1.2	1.1	1.1
Percent of cholesterol consumed at dinner	p	543-550 & 409	2.2	1.6	2.3
Percent of vitamin C consumed at snacks	p	607-614 & 409	2.3	2.1	2.2
Percent of food energy of whole milk to calcium	p	663-670 & 421-427	1.6	1.3	1.2
Food energy	$\bar{x}$	495-502	1.0	1.2	1.1
Saturated Fat	$\bar{x}$	519-526	1.3	1.2	1.3
Cholesterol	$\bar{x}$	543-550	1.5	1.2	1.2
Sodium	$\bar{x}$	711-719	1.3	1.2	1.2
Calcium	$\bar{x}$	663-670	1.1	1.2	1.1
Iron	$\bar{x}$	687-694	1.2	1.3	1.1
Ascorbic Acid	$\bar{x}$	607-614	1.3	1.4	1.1
Vitamin A (IU)	$\bar{x}$	575-582	1.1	1.1	1.0

Source: NCHS, HHANES, 1982-84, Tape Number 6526, Version 01.

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

Variable	Mean or Proportion	Tape Positions	Both Sexes	Male	Female
Percent of food energy consumed at breakfast	p	495-502 & 409	1.0	1.0	1.5
Percent of food energy consumed at lunch	p	495-502 & 409	2.1	1.6	2.2
Percent of food energy consumed at snacks	p	495-502 & 409	1.6	1.3	1.7
Percent of food energy consumed at dinner	p	495-502 & 409	1.1	1.0	1.2
Percent of food energy of cholesterol to dinner	p	543-550 & 409	1.6	1.5	1.1
Percent of food energy of vitamin C at snacks	p	607-614 & 409	2.5	2.0	2.6
Percent of food energy of whole milk to calcium	p	663-670 & 421-427	2.7	1.9	2.5
Food energy	$\bar{x}$	495-502	1.4	1.6	1.1
Saturated Fat	$\bar{x}$	519-526	1.1	1.3	1.0
Cholesterol	$\bar{x}$	543-550	1.0	1.2	1.0
Sodium	$\bar{x}$	711-719	1.0	1.3	1.0
Calcium	$\bar{x}$	663-670	1.2	1.4	1.0
Iron	$\bar{x}$	687-694	1.3	1.4	1.4
Ascorbic Acid	$\bar{x}$	607-614	1.5	1.2	1.2
Vitamin A (IU)	$\bar{x}$	575-582	1.2	1.2	1.2

Source: NCHS, HHANES, 1982-84, Tape Number 6526, Version 01.

Suppose, for example, that 24.8 percent of energy was consumed at breakfast by Mexican American men ages 60-74 years. Suppose also that there are 162 Mexican American men ages 60-74 years.

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

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

This variance (V) multiplied by the design effect (DEFF) provides an estimate of the variance from a complex sample of the same sample size (n). In the example above, there are 162 Mexican Americans 60-74 years for whom dietary information is available (completion code = 1)

$$V = \frac{(.248) (.752)}{162}$$

$$= .00115 = \text{variance for a simple random sample}$$

Then, multiplying by the design effect,

$$= (1.9) (.00115)$$

$$=.00219 = \text{estimated variance for the complex sample}$$

In a similar way, the complex sample variance of the mean energy intake is determined by multiplying the simple random sample variance of the mean by the appropriate design effect -- in this example, 1.0.

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

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

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

**SECTION B. DATA COLLECTION AND PROCESSING PROCEDURES**

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

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

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

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

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

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

Division of Health Examination Statistics  
National Center for Health Statistics  
Presidential Building, Room 900  
6525 Belcrest Road  
Hyattsville, MD 20782  
301-436-7080



## SECTION C. REFERENCES

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10. Kovar, M. G. and Johnson, C.: Design Effects from the Mexican-American Portion of the Hispanic Health and Nutrition Examination Survey: A Strategy for Analysts. Proceedings of the Social Statistics Section, American Statistical Association, 1986 (in press).
11. Freeman, D. H. and Brock, D. B.: The Role of Covariance Matrix Estimation in the Analysis of Complex Sample Survey Data. In N. Krishnan Namboodiri, ed., Survey Sampling and Measurement. Symposium on Survey Sampling, 2d, University of North Carolina. New York, Academic Press, 1978.
12. National Center for Health Statistics: Instruction Manual Part 15h, Household Interviewer's Manual for the Hispanic Health and Nutrition Examination Survey, 1982-84. Hyattsville, MD, 1986.
13. National Center for Health Statistics: Instruction Manual Part 15g, Mobile Examination Center Interviewer's Manual for the Hispanic Health and Nutrition Examination Survey, 1982-84. Hyattsville, MD, 1986.

**SECTION D. TAPE POSITION INDEX**

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

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

**SOCIODEMOGRAPHIC DATA - SAMPLE PERSON (SECTION E)**

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

**SOCIODEMOGRAPHIC DATA - HEAD OF FAMILY (SECTION F)**

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

**FAMILY COMPOSITION AND INCOME DATA (SECTION G)**

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

RESIDENCE AND HOUSEHOLD DATA (SECTION H)

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

SAMPLE WEIGHTS (SECTION I)

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

FAMILY RELATIONSHIPS (SECTION J)

218-400	Data not yet available
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24-HOUR RECALL (SECTION K)

401-404	Tape Number
405-406	Respondent Code
407	Day of Recall
408	Completion Code
409	Ingestion Period
410-413	Time of Day
414-415	Food Source
416-418	Interviewer Code
419-420	Food Item Line Number
421-427	USDA Food Code
428-478	Description of Food
479-486	Amount of Food Consumed
478-494	Water
495-502	Food Energy
503-510	Protein
511-518	Total Fat
519-526	Total Saturated Fatty Acids
527-534	Total Monounsaturated Fatty Acids
535-542	Total Polyunsaturated Fatty Acids
543-550	Cholesterol
551-558	Carbohydrate
559-566	Total Dietary Fiber
567-574	Alcohol
575-582	Vitamin A
583-590	Vitamin A
591-598	Carotenes
599-606	Vitamin E
607-614	Ascorbic Acid
615-622	Thiamin
623-630	Riboflavin
631-638	Niacin

24-HOUR RECALL (SECTION K) (cont'd)

639-646	Vitamin B6
647-654	Folacin
655-662	Vitamin B12
663-670	Calcium
671-678	Phosphorus
679-686	Magnesium
687-694	Iron
695-702	Zinc
703-710	Copper
711-718	Sodium
720-726	Potassium

Position	Item description and code	M	Counts C	P	Source and notes
<b>SECTION E. SOCIODEMOGRAPHIC DATA - SAMPLE PERSON (POS 1-99)</b>					
Source: Family Questionnaire (FQ) Household Screener Questionnaire (HSQ)					
1-5	<b>Sample person sequence number</b>				
	00001-09894 Mexican Americans	7462	-	-	
	10002-12238 Cuban Americans	-	1357	-	
	13001-16785 Puerto Ricans	-	-	2834	
6-12	<b>Blank</b>				
13	<b>Portion of survey</b>				
	1 Mexican-American (M)	7462	-	-	
	2 Cuban-American (C)	-	1357	-	
	3 Puerto Rican (P)	-	-	2834	
14	<b>Family Questionnaire missing</b>				
	1 Yes	21	6	10	See Note 1
	2 No	7441	1351	2824	
15	<b>Version number</b>				
	2	7462	1357	2834	
16	<b>Examination status</b>				
	1 Examined	7462	1357	2834	See Note 2
	2 Not examined	0	0	0	
17	<b>Language of interview (Pos. 1-400)</b>				FQ
	1 English	4513	244	1229	
	2 Spanish	2929	1107	1595	
	Blank	20	6	10	
18-19	<b>Date of interview</b>				HSQ 4
	01-12 Month	7462	1357	2834	
20-21	82-84 Year	7462	1357	2834	
22-23	<b>Date of examination</b>				
	From survey control record				
	01-12 Month	7462	1357	2834	
24-25	82-84 Year	7462	1357	2834	
26-27	<b>Date of birth</b>				HSQ 2e
	01-12 Month	7462	1357	2834	
	88 Blank but applicable	0	0	0	
28-29	<b>08-84 Year</b>				
	88 Blank but applicable	7462	1357	2834	
		0	0	0	
30-31	<b>Age at interview (computed)</b>				
	01-74 (See next column for units)	7462	1357	2834	
32	<b>Age at interview units</b>				HSQ 2f
	1 Years	7342	1349	2796	
	2 Months	120	8	38	

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

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

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



Position	Item description and code	M	Counts C	P	Source and notes
71	<b>Is sample person now covered by the part of Social Security Medicare which pays for hospital bills?</b>				FQ C-3
	1 Yes	270	100	124	
	2 No	18	4	5	
	8 Blank but applicable	15	6	20	
	9 Don't know	6	3	1	
	Blank	7153	1244	2684	
72	<b>Is sample person now covered by that part of Medicare which pays for doctor's bills? This is the Medicare plan for which he or she or some agency must pay a certain amount each month.</b>				FQ C-4
	1 Yes	269	100	111	
	2 No	17	5	17	
	8 Blank but applicable	15	6	20	
	9 Don't know	8	2	2	
	Blank	7153	1244	2684	
73	<b>Type of Medicare coverage</b> As shown on Medicare card				FQ C-5
	1 Hospital	0	0	0	
	2 Medical	2	0	0	
	3 Card not available	3	0	2	
	4 Hospital and medical	5	3	0	
	8 Blank but applicable	15	6	20	
	Blank	7437	1348	2812	
	<u>HEALTH INSURANCE</u>				See Note 10
74	<b>Is sample person covered by any health insurance plan which pays any part of a hospital, doctor's, or surgeon's bill?</b>				FQ C-11
	1 Yes	4094	818	1011	
	2 No	3326	526	1796	
	8 Blank but applicable	13	7	16	
	9 Don't know	8	0	1	
	Blank	21	6	10	
75	<b>Is sample person covered by a plan that pays any part of hospital expenses?</b>				FQ C-9
	1 Yes	4039	806	955	
	2 No	6	7	9	
	8 Blank but applicable	54	12	55	
	9 Don't know	8	0	8	
	Blank	3355	532	1807	
76	<b>Is sample person covered by a plan that pays any part of a doctor's or surgeon's bills for operations?</b>				FQ C-10
	1 Yes	4034	804	945	
	2 No	22	11	28	
	8 Blank but applicable	36	10	35	
	9 Don't know	15	0	19	
	Blank	3355	532	1807	

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

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

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

Position	Item description and code	M	Counts C	P	Source and notes
<b>SECTION F. SOCIODEMOGRAPHIC DATA - HEAD OF FAMILY (POS 100-131)</b>					
Source: Family Questionnaire (FQ)					
Household Screener Questionnaire (HSQ)					
100	<b>Interview and examination status of head of family</b>				See Note 4
	1 Selected as sample person, interviewed on Adult Sample Person Questionnaire, and examined	5523	1076	2098	
	2 Selected as sample person, interviewed on Adult Sample Person Questionnaire, but not examined	338	62	79	
	3 Selected as sample person, not interviewed, and not examined	218	34	23	
	4 Not selected as sample person	1362	179	624	
	Blank	21	6	10	
101	<b>Blank</b>				
	<b>Date of birth</b>				HSQ 2e
102-103	01-12 Month	7413	1348	2830	
	88 Blank but applicable	49	9	4	
104-105	00-86, 89-99 Year	7440	1353	2832	
	88 Blank but applicable	22	4	2	
106-107	<b>Age at interview</b>				
	17-95 Years	7462	1357	2834	
108	<b>Blank</b>				
109	<b>Sex</b>				FQ B-4
	1 Male	5982	1069	1331	
	2 Female	1460	282	1493	
	Blank	20	6	10	
110	<b>Observed race</b>				FQ B-5 See Note 5
	1 White	7138	1282	2511	
	2 Black	75	27	165	
	3 Other	6	3	58	
	8 Blank but applicable	106	31	59	
	9 Not observed	117	8	31	
	Blank	20	6	10	
111-112	<b>Head of family's national origin or ancestry.</b>				HSQ 2c See Note 6
	01 Mexican/Mexicano	2068	0	3	
	02 Mexican-American	4523	0	0	
	03 Chicano	97	0	0	
	04 Puerto Rican	19	7	2503	
	05 Boricuan	0	0	29	
	06 Cuban	6	1197	46	
	07 Cuban-American	0	85	2	
	08 Hispano - specify	147	20	37	
	09 Other Latin-American or other Spanish - specify	54	17	39	
	00 Other - specify	513	31	175	
	10 Spanish-American	17	0	0	
	11 Spanish (Spain)	18	0	0	

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

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

Position	Item description and code	M	Counts C	P	Source and notes
<b>SECTION G. FAMILY COMPOSITION AND INCOME DATA (POS 132-162)</b>					
Source: Family Questionnaire (FQ)					
132-133	Number of persons in family (computed) 01-18 Persons	7462	1357	2834	
134-135	Number of sample persons in family (computed) 01-13 Persons	7462	1357	2834	
136	Was the total combined family income during the past 12 months more or less than \$20,000? Include money from jobs, Social Security, retirement income, un- employment payments, public assistance, and so forth. Also include income net from interest, dividends, income from business, farm or rent, and any other money income received.				FQ E-10
	1 \$20,000 or more	2353	536	578	
	2 Less than \$20,000	4856	795	2193	
	7 Refused information	31	1	7	
	8 Blank but applicable	202	19	46	
	Blank	20	6	10	
137-138	Of those income groups, which best represents the total combined family income during the past 12 months? Include wages, salaries, and other items we just talked about. (in dollars)				FQ E-11
	01 Less than 1,000	40	8	7	
	02 1,000 - 1,999	107	10	33	
	03 2,000 - 2,999	143	25	68	
	04 3,000 - 3,999	182	28	132	
	05 4,000 - 4,999	184	34	250	
	06 5,000 - 5,999	234	45	202	
	07 6,000 - 6,999	312	35	213	
	08 7,000 - 7,999	314	46	169	
	09 8,000 - 8,999	284	42	106	
	10 9,000 - 9,999	263	52	125	
	11 10,000 - 10,999	282	72	139	
	12 11,000 - 11,999	250	47	75	
	13 12,000 - 12,999	296	54	100	
	14 13,000 - 13,999	186	32	64	
	15 14,000 - 14,999	254	25	66	
	16 15,000 - 15,999	208	36	77	
	17 16,000 - 16,999	209	34	51	
	18 17,000 - 17,999	231	37	66	
	19 18,000 - 18,999	333	28	82	
	20 19,000 - 19,999	240	55	79	
	21 20,000 - 24,999	694	148	152	
	22 25,000 - 29,999	585	83	124	
	23 30,000 - 34,999	358	78	92	
	24 35,000 - 39,999	257	64	43	
	25 40,000 - 44,999	192	48	36	
	26 45,000 - 49,999	84	43	30	
	27 50,000 and over	107	55	54	
	77 Refused information	76	10	43	
	88 Blank but applicable	537	77	146	
	Blank	20	6	10	



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

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

Position	Item description and code	M	Counts C	P	Source and notes
<b>SECTION H. RESIDENCE AND HOUSEHOLD DATA (POS 163-183)</b>					
Source: Family Questionnaire (FQ) Household Screener Questionnaire (HSQ)					
163	<b>Size of place</b>				See Note 13
	1 1 million or more	1049	0	2070	
	2 500,000 - 999,999	844	0	0	
	3 250,000 - 499,999	884	467	0	
	4 100,000 - 249,999	203	364	368	
	5 50,000 - 99,999	1277	70	76	
	6 25,000 - 49,999	785	205	216	
	7 10,000 - 24,999	746	120	79	
	8 200 - 9,999	1003	88	24	
	9 Not in a place	671	43	1	
164	<b>Standard Metropolitan Statistical Area</b>				See Note 13
	1 In SMSA, in central city	3707	467	2465	
	2 In SMSA, not in central city	2854	890	369	
	4 Not in SMSA	901	0	0	
165-166	<b>Number of persons in household</b>				HSQ 1a
	01-18 Persons	7462	1357	2834	
167-168	<b>Number of sample persons in household (computed)</b>				
	01-13 Persons	7462	1357	2834	
169-170	<b>How many rooms are in this home? Count the kitchen, but not the bathroom.</b>				FQ E-1
	01-14 Rooms	7433	1350	2816	
	88 Blank but applicable	9	1	8	
	Blank	20	6	10	
171	<b>Do you have access to complete kitchen facilities in this home; that is, a kitchen sink with piped water, a refrigerator and a range or cookstove?</b>				FQ E-2
	1 Yes	7136	1315	2548	
	2 No	83	10	18	
	8 Blank but applicable	223	26	258	
	Blank	20	6	10	
172-173	<b>What is the main fuel used for heating this home?</b>				FQ E-3 See Note 14
	00 No fuel used	538	231	16	
	01 Oil	4	0	1988	
	02 Natural gas	5955	78	718	
	03 Electricity	604	1027	37	
	04 Bottled gas (propane)	174	2	0	
	05 Kerosene	13	3	0	
	06 Wood	98	3	0	
	07 Coal	0	0	14	
	08 Other, not specified	0	0	2	
	09 Other, specified	11	0	8	
	88 Blank but applicable	45	7	41	
	Blank	20	6	10	

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

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

Position	Item description and code	M	Counts C	P	Source and notes
<b>SECTION I. SAMPLE WEIGHTS (POS 184-217)</b>					
184-189	<b>Examined final weight</b>				
	000439-002711	7462	-	-	
	000223-000891	-	1357	-	
	000177-002000	-	-	2834	
190-195	<b>Interview final weight</b>				
	000447-002096	7462	-	-	
	000176-000604	-	1357	-	
	000175-001220	-	-	2834	
GTT/ULTRASOUND, AUDIOMETRY/VISION, PESTICIDE WEIGHTS					
By design, only some of the persons in the sample were included in the					
GTT/ultrasound, audiometry/vision, and pesticide components of the survey.					
Tape positions for those persons not part of these subsamples are BLANK.					
196-201	<b>GTT/ultrasound weight</b>				
	000843-005302	1777	-	-	
	000469-001685	-	449	-	
	000349-003110	-	-	667	
	Blank	5685	908	2167	
202-207	<b>Audiometry/vision weight</b>				
	000507-006283	4431	-	-	
	000223-001600	-	804	-	
	000264-003123	-	-	1759	
	Blank	3031	553	1075	
208-213	<b>Pesticide weight</b>				
	000872-005584	2465	-	-	
	000441-001600	-	568	-	
	000343-003117	-	-	1012	
	Blank	4997	789	1822	
214-215	<b>Strata code</b>				
	01-08	7462	1357	2834	
216-217	<b>Pseudo PSU code</b>				
	01-02	7462	1357	2834	

Position	Item description and code	M	Counts C	P	Source and notes
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**SECTION J. FAMILY RELATIONSHIPS (POS 218-400)**Source: Adult Sample Person Questionnaire  
Family Questionnaire218-400 **Blank**  
Data not yet available.

Position	Item description and code	Counts			Source and notes
		M	C	P	
<b>SECTION K. 24-HOUR RECALL (POS 401-727)</b>					
<b>NOTE: The sample counts for positions 401+ represent the total number of records in the file (one for each food consumed). The sample counts for Tape positions 1-400 reflect the number of sample persons. These tape positions are duplicated for each appropriate record, but are not reflected in the counts in this documentation.</b>					
401-404	<b>Tape number</b> 6526	114954	20265	39891	
405-406	<b>Respondent code</b>				
	01 Sample person	77972	16842	28635	
	02 Spouse	97	32	16	
	03 Parent	24656	2175	7659	
	04 Grandparent	326	44	212	
	05 Combination of above	9983	1058	2990	
	06 Other	1361	96	68	
	07 Baby sitter or maid alone or with family member	259	0	0	
	08 School authority, alone or with a family member	185	17	8	
	88 Blank but applicable	106	0	0	
	Blank	9	1	3	
407	<b>Day of recall</b>				See Note 15
	1 Sunday	0	836	450	
	2 Monday	22569	3615	6896	
	3 Tuesday	20694	2131	6495	
	4 Wednesday	22858	3770	7152	
	5 Thursday	18753	1649	5976	
	6 Friday	30077	6347	12355	
	7 Saturday	0	1916	564	
	Blank	3	1	3	
408	<b>Completion code</b>				See Note 16
	1 Satisfactory	114425	20199	39756	
	2 Unsatisfactory	348	44	90	
	3 Refusal	0	1	9	
	4 Not interviewed	12	2	13	
	5 Breast feeding child	169	19	23	
409	<b>Ingestion period</b>				See Note 17
	1 Breakfast	25028	4231	9372	
	2 Lunch	32266	5103	8794	
	3 Between meals	24057	4586	10526	
	4 Dinner	33583	6339	11177	
	5 Extended consumption	8	3	0	
	Blank	12	3	22	
410-413	<b>Time of day</b>				See Note 18
	0000 Ingestion period skipped	4912	753	1917	
	0005 - 2400	109928	19494	37875	
	8888 Unknown if meal consumed	33	3	29	
	9999 Unknown time of day	69	12	48	
	Blank	12	3	22	



Position	Item description and code	Counts			Source and notes
		M	C	P	
414-415	<b>Food source</b>				See Note 18
	00 Ingestion period skipped	4912	753	1917	
	01 Home	81274	15086	29005	
	02 School	8953	692	1908	
	03 Restaurant	5537	1130	2266	
	04 Fast food restaurant	4610	746	1109	
	05 Cafeteria	1303	565	430	
	06 Vending machine	643	52	38	
	07 Someone else's home	4102	434	1166	
	08 Other	3525	800	1978	
	88 Unknown if meal consumed	33	3	29	
	99 Unknown food source	50	1	23	
	Blank	12	3	22	
416-418	<b>Interviewer code</b>				
	300-359	114951	20242	39888	
	888 Blank, but applicable	0	9	0	
	Blank	3	14	3	
419-420	<b>Food item line number</b>				
	01-51	114942	20262	39869	
	Blank	12	3	22	
421-427	<b>USDA food code</b>				See Note 18
	0000000 Ingestion period skipped	4912	753	1917	
	1100000-9350500	109911	19505	37874	
	8888888 Unknown if meal consumed	33	3	29	
	9999999 Unknown food code	86	1	49	
	Blank	12	3	22	
428-478	<b>Description of food (copied from the USDA Nutrient Data Base)</b>				See Note 19
479-486	<b>Amount of food consumed</b>				See Note 20
	00000.18-010080.00 grams	109890	19504	37871	
	Blank	5064	761	2020	
<p>The nutrient data base for Hispanic HANES was developed for NCHS by the Human Nutrition Information Service of the USDA and can be obtained from NTIS. For information about the data base and instructions for ordering it, call USDA at 301-436-8507 and request a copy of USDA/HNIS Administrative Report No. 378.</p>					
					See Note 19
487-494	<b>Water (percentage)</b>				
	Decimal not shown				
	000000.00-010009.44	109890	19504	37870	
	Blank	5064	761	2021	
495-502	<b>Food energy</b>				
	Decimal not shown				
	000000.00-004054.06 kilocalories	109890	19504	37870	
	Blank	5064	761	2021	

Position	Item description and code	M	Counts C	P	Source and notes
503-510	<b>Protein</b> Decimal not shown 000000.00-000385.69 grams Blank	109890 5064	19504 761	37870 2021	
511-518	<b>Total fat</b> Decimal not shown 000000.00-000320.91 grams Blank	109890 5064	19504 761	37870 2021	
519-526	<b>Total saturated fatty acids</b> Decimal not shown 000000.00-000115.82 grams Blank	109890 5064	19504 761	37870 2021	
527-534	<b>Total monounsaturated fatty acids</b> Decimal not shown 000000.00-000147.49 grams Blank	109890 5064	19504 761	37870 2021	
535-542	<b>Total polyunsaturated fatty acids</b> Decimal not shown 000000.00-000089.74 grams Blank	109890 5064	19504 761	37870 2021	
543-550	<b>Cholesterol</b> Decimal not shown 000000.00-007123.91 milligrams Blank	109890 5064	19504 761	37870 2021	
551-558	<b>Carbohydrate</b> Decimal not shown 000000.00-000794.59 grams Blank	109890 5064	19504 761	37870 2021	
559-566	<b>Total dietary fiber</b> Decimal not shown 000000.00-000057.41 grams Blank	109890 5064	19504 761	37870 2021	
567-574	<b>Alcohol</b> Decimal not shown 000000.00-000340.70 grams Blank	109890 5064	19504 761	37870 2021	
575-582	<b>Vitamin A</b> Decimal not shown 000000.00-182628.06 International Units Blank	109890 5064	19504 761	37870 2021	

Position	Item description and code	Counts			Source and notes
		M	C	P	
583-590	<b>Vitamin A</b>				
	Decimal not shown 000000.00-054264.91	109890	19504	37870	
	Retinol Equivalents Blank	5064	761	2021	
591-598	<b>Carotenes</b>				
	Decimal not shown 000000.00-011019.92	109890	19504	37870	
	Retinol Equivalents Blank	5064	761	2021	
599-606	<b>Vitamin E</b>				
	Decimal not shown 000000.00-000302.73	109890	19504	37870	
	Alphatocopherol Equivalents Blank	5064	761	2021	
607-614	<b>Ascorbic Acid</b>				
	Decimal not shown 000000.00-001543.55 milligrams	109890	19504	37870	
	Blank	5064	761	2021	
615-622	<b>Thiamin</b>				
	Decimal not shown 000000.00-00010.18 milligrams	109890	19504	37870	
	Blank	5064	761	2021	
623-630	<b>Riboflavin</b>				
	Decimal not shown 000000.00-00020.94 milligrams	109890	19504	37870	
	Blank	5064	761	2021	
631-638	<b>Niacin</b>				
	Decimal not shown 000000.00-000135.36 milligrams	109890	19504	37870	
	Blank	5064	761	2021	
639-646	<b>Vitamin B6</b>				
	Decimal not shown 000000.00-000013.63 milligrams	109890	19504	37870	
	Blank	5064	761	2021	
647-654	<b>Folacin</b>				
	Decimal not shown 000000.00-002709.12 milligrams	109890	19504	37870	
	Blank	5064	761	2021	
655-662	<b>Vitamin B12</b>				
	Decimal not shown 000000.00-00565.51 milligrams	109890	19504	37870	
	Blank	5064	761	2021	

Position	Item description and code	Counts			Source and notes
		M	C	P	
663-670	<b>Calcium</b> Decimal not shown 000000.00-003336.10 milligrams Blank	109890 5064	19504 761	37870 2021	
671-678	<b>Phosphorus</b> Decimal not shown 000000.00-003994.79 milligrams Blank	109890 5064	19504 761	37870 2021	
679-686	<b>Magnesium</b> Decimal not shown 000000.00-001065.60 milligrams Blank	109890 5064	19504 761	37870 2021	
687-694	<b>Iron</b> Decimal not shown 000000.00-000121.92 milligrams Blank	109890 5064	19504 761	37870 2021	
695-702	<b>Zinc</b> Decimal not shown 000000.00-000654.84 milligrams Blank	109890 5064	19504 761	37870 2021	
703-710	<b>Copper</b> Decimal not shown 000000.00-00032.12 milligrams Blank	109890 5064	19504 761	37870 2021	
711-718	<b>Sodium</b> Decimal not shown 000000.00-014679.59 milligrams Blank	109890 5064	19504 761	37870 2021	
719-726	<b>Potassium</b> Decimal not shown 000000.00-007985.81 milligrams Blank	109890 5064	19504 761	37870 2021	
727-750	<b>Blank</b>				

## SECTION N. NOTES

1. Family Questionnaire Missing

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

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

2. Examination Status

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

3. Family Number

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

4. Head of FamilyRelationship of Sample Person to Head of Family (Pos. 44-45)

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

- o Code '01' identifies sample persons who lived alone (i.e., "head" of one-person families, no unrelated individuals living in the household).
- o Code '02' identifies sample persons who lived only with unrelated persons.
- o Code '03' identifies sample persons who were "heads" of families containing at least one other person (whether or not the household included additional families unrelated to the sample person).

Sociodemographic Data (Pos. 100-131)

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

5. Observed Race

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

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

6. National Origin or Ancestry

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

7. Codes for States and Foreign Countries

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

Codes for States and Foreign Countries (continued)

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

Codes for States and Foreign Countries (continued)

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

8. National origin recode

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

Mexican-American in the Southwest portion of the survey;  
Cuban-American in the Dade County, Florida portion; or  
Puerto Rican in the New York City area portion.



The recode was assigned as follows:

A. Southwest portion

- 1) If the original national origin or ancestry code on the Household Screener Questionnaire was 1, 2, 3, 8, 10, or 11, then National origin recode = 1;
- 2) If national origin or ancestry was 4, 5, 6, 7, 9, or 0 but the person specified Mexican/Mexicano, Chicano, or Mexican-American self-identification on the Adult Sample Person Questionnaire (question M10), or the person was the biological child of a household member with Recode equal to 1 (as determined by questions A-1/A-11 on the Family Questionnaire), then National origin recode = 1;
- 3) In all other cases, National origin recode = 2.

B. Dade County, Florida portion

- 1) If the original national origin or ancestry code was 6 or 7, then National origin recode = 1;
- 2) In all other cases, National origin recode = 2;

C. New York City area portion

- 1) If the original national origin or ancestry code was 4 or 5, then National origin recode = 1;
- 2) If national origin or ancestry was 1, 2, 3, 6, 7, 8, 9, or 0 but the person specified Boricuan or Puerto Rican self-identification on the Adult Sample Person Questionnaire (question M10), or the person was the biological child of a household member with Recode equal to 1 (as determined by questions A-1/A-11 on the Family Questionnaire), then National origin recode = 1;
- 3) In all other cases, National origin recode = 2;

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

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

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

#### 9. Industry and Occupation Code

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

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

- a. If a sample person worked at more than one job during the two week reference period or operated a farm or business and also worked for someone else, the job at which he or she worked the most hours was described. If the sample person worked the same number of hours at all jobs, the job at which he or she had been employed the longest was entered. If the sample person was employed at all jobs the same length of time, the job the sample person considered the main job was entered.
- b. If a sample person was absent from his or her regular job all of the two week reference period, but worked temporarily at another job, the job at which the sample person actually worked was described, not the job from which he or she was absent.
- c. If a sample person had a job but did not work at all during the two week reference period, the job he or she held was described.
- d. If a sample person was on layoff during the two week reference period, the job from which he or she was laid off, regardless of whether a full-time or part-time job, was described.
- e. If a sample person was looking for work or waiting to begin a new job within 30 days of the interview, the last full-time civilian job which lasted two consecutive weeks or more was described.

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

## 10. Health Insurance

- a. In the Health Insurance section of the Family Questionnaire, up to three separate health insurance plans could be reported for a family. Each sample person could have been covered by any combination of the three, or by none at all. In order to simplify the health insurance coverage data, the information on all reported plans was combined to a single variable for each sample person, i.e., whether or not the person is covered by any plan (position 74). For all persons covered by at least one plan, information on the type of coverage is then indicated: position 75 specifies whether any of the sample person's plans pays hospital expenses and position 76 specifies whether any of the sample person's plans pays doctor's or surgeon's bills.
- b. For all sample persons who were not covered by Medicare or any health insurance plan, the reasons for not being covered were ascertained. Positions 77-78 contain the main or only reason reported. For persons with one or more additional reasons, the first (lowest) code entered on the questionnaire was coded in positions 79-80.

## 11. Per Capita Income

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

## 12. Poverty Index

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

(Note 12 continues on next page)

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

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

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

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

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

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

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

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

### 13. Size of Place and SMSA

Codes for size of place and SMSA were obtained from Bureau of Census summary tape files (STF1B).

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

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

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

### 14. Home Heating

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

### 15. Day of Recall

The protocol for HHANES was similar to that for NHANES II, that is, examinations were conducted on Tuesday through Saturday. This resulted in 24-hour recalls for Monday through Friday. However, in the Cuban and Puerto Rican portions of HHANES, the protocol was altered to allow for some examinations to be conducted on Sunday and Monday. Therefore, for these two portions of HHANES, there is a small percentage of 24-hour recall data based on Saturday and Sunday intakes.

#### 16. 24-hour recall completion code

- 1) Satisfactory: used by the interviewer if in his/her opinion the respondent gave sufficient and reliable information about foods consumed during the day prior to the examination.
- 2) Unsatisfactory: used when the interviewer judged that the information from the respondent was incomplete or unreliable or the respondent started the interview but for some reason was unable to complete it. For example, if the respondent was confused, inebriated or mentally or physically unable to complete the interview, the recall was coded as unsatisfactory. **These recall data are included only for accounting purposes and users are strongly encouraged to exclude these data from all analyses.**
- 3) Refusal: used when the respondent refused to answer the questions or complete the recall.
- 4) Not interviewed: this code was created at NCHS if the respondent did not receive a dietary interview.
- 5) Breastfeeding child: this code was created at NCHS if the respondent's recall contained human milk since it was impossible to calculate total nutrient intakes. As a result, total nutrient intakes for these sample persons are blank.

#### 17. Ingestion Period

The ingestion period code '5' refers to one or more food items prepared once and eaten throughout the day.

#### 18. Time of day, food source, and USDA food code

In order to use standardized probing for eating occasions, the interviewers were required to ask each sample person about and enter information for four eating occasions--breakfast, lunch, between meals, and dinner. Codes were created to indicate that an eating occasion was missing and it is not known if the interviewer forgot to ask about an eating occasion or if the eating occasion was skipped. These following codes for time of day (8888), food source (88), and food code (888888) indicate that it was 'unknown if a meal was consumed.' The user should consider whether to include or eliminate these records in each analysis.

## 19. Nutrient Data Base

The nutrient data base for Hispanic HANES was developed for NCHS by the Human Nutrition Information Service of the USDA and can be obtained from NTIS. For information about the data base and instructions for ordering it, call USDA at 301-436-8507 and request a copy of USDA/NHIS Administrative Report No. 378.

The data base is a combination of two USDA survey nutrient data bases:

- 1) Release 2.1, used with the 1985-86 CSFII
- 2) Working version of Release 4.0, September 1990, used with the 1987-88 NFCS

Most of the food composition values come from one of the two data bases with the following additions/modifications:

- 1) Some new foods were added; mainly 20-25 Mexican American foods or mixed dishes (e.g. sopa seca, salsas, stews, cheeses).
- 2) Some recipes were revised because they better reflected ingredients, recipes and preparations used among Mexican Americans.

The decision to use data from a particular survey was made on a food-specific basis with the goal of providing the best representation of foods available during 1982-84. For instance, the data for eggs was drawn from the 1987-88 data base because better nutrient data were available due mostly to improved analytic methods. However, most of the beef data come from the 1985-86 data base since retail trimming practices reflected in the data base values were more applicable to the HHANES time frame.

## 20. Amount of food consumed

Those records in which the food code indicates that an ingestion period was skipped (000000), it is unknown if a meal was consumed (8888888), the food code is unknown (9999999), or human milk was consumed (1100000) have a blank amount of food consumed. In addition, one record contains a blank amount of food consumed because of missing information about the amount.

