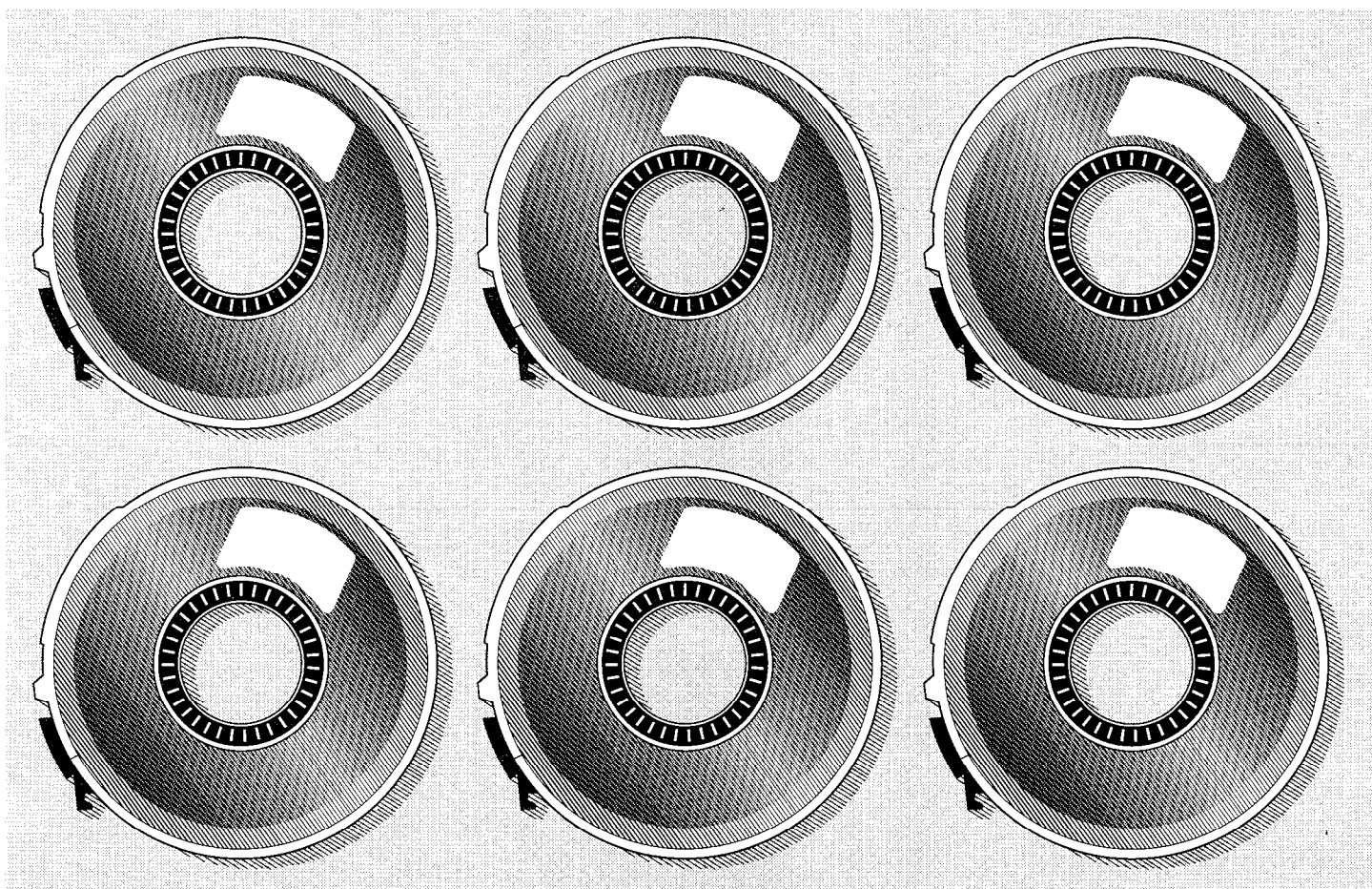


Public Use Data Tape Documentation

NHANES I Epidemiologic Followup Study, 1992

Vital and Tracing Status



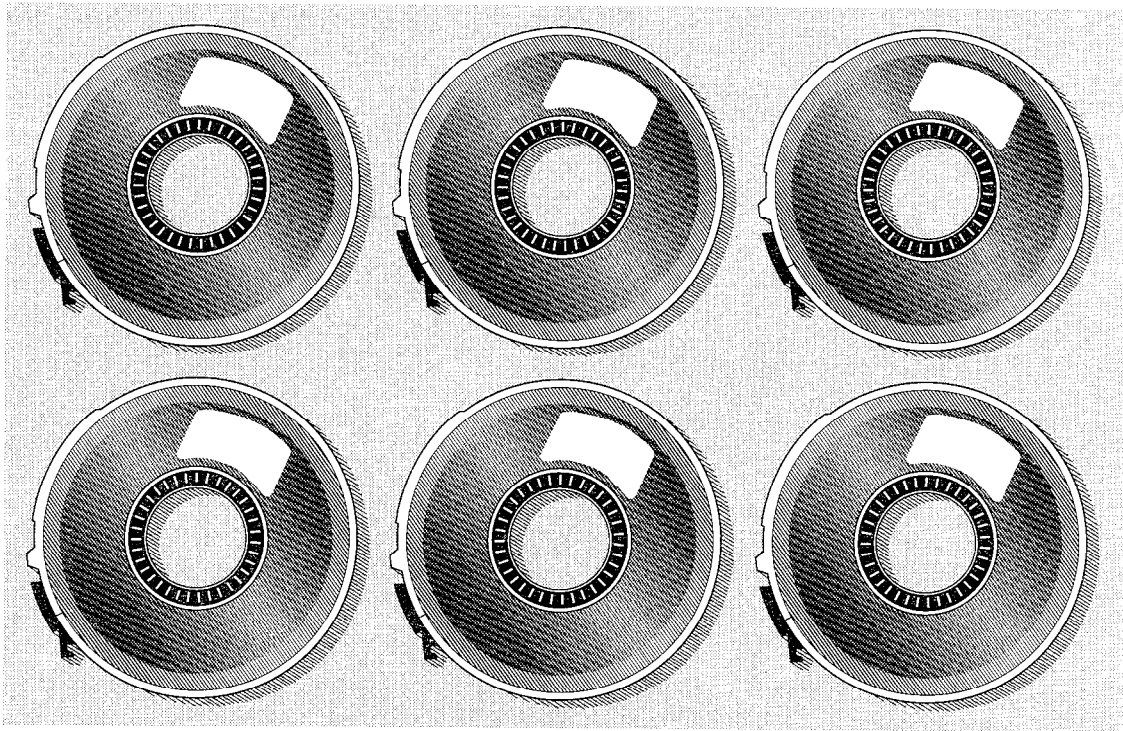
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control and Prevention
National Center for Health Statistics



Public Use Data Tape Documentation

NHANES I Epidemiologic Followup Study, 1992

Vital and Tracing Status



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

Hyattsville, Maryland
July 1996

Use of NHEFS Data

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

- A. Any published material derived from the data should acknowledge the National Center for Health Statistics (NCHS) as the original source. It should also include a disclaimer which credits any analyses, interpretations, or conclusions reached to the author (recipient of the tape) and not to NCHS, which is responsible only for the initial data.
- B. Consumers who wish to publish a technical description of the data will make a reasonable effort to insure that the description is not inconsistent with that published by NCHS. This does not mean, however, that NCHS will review such descriptions.
- C. Authors should provide NCHS with a reprint of published articles which utilize the 1992 NHEFS data. Please send reprints to:

NHEFS Data Management Staff
Division of Epidemiology
National Center for Health Statistics
Presidential Building, Room 730
6525 Belcrest Road
Hyattsville, Maryland 20782

ERRORS IN THE NHEFS DATA TAPES AND SURVEY DIFFERENCES

The NHEFS Public Use data tapes have been subjected to a great deal of careful editing. However, due to the large volume of data in the series, it is likely that a small number of errors or discrepancies remain undetected.

In general, the NHEFS data management team has not attempted to resolve substantive data discrepancies that may exist 1) within the 1992 NHEFS data tapes, or 2) between the 1992 NHEFS data tapes and the data tapes of the original National Health and Nutrition Examination Survey (NHANES I) and/or other NHEFS followup waves.

Introduction to the 1992 NHEFS Vital and Tracing Status Data Tape Documentation

The NHANES I Epidemiologic Followup Study (NHEFS) is a longitudinal study which uses as its baseline those adult persons ages 25 to 74 years who were examined in the first National Health and Nutrition Examination Survey (NHANES I). The NHEFS is comprised of a series of four followup surveys. The first wave of data collection, the 1982-84 NHEFS, was conducted from 1982 to 1984 and included all persons who were between 25 and 74 years at their NHANES I examination (n=14,407). The second wave of data collection, the 1986 NHEFS, was conducted for members of the NHEFS cohort who were 55-74 years at their baseline examination and not known to be deceased at the 1982-84 NHEFS (n=3,980). The third wave, the 1987 NHEFS, was conducted for the entire non-deceased NHEFS cohort (n=11,750). The fourth wave of data collection, the 1992 NHEFS, includes the entire non-deceased NHEFS cohort (n=11,195).

NHANES I collected data from a national probability sample of the United States civilian noninstitutionalized population between the ages of 1 and 74 years. The survey, which included a standardized medical examination and questionnaires that covered various health-related topics, took place from 1971 through 1974 and was augmented by an additional national sample in 1974-75. The NHANES I sample included 20,729 persons 25 to 74 years of age, of whom 14,407 (70 percent) completed a medical examination. The design, content and operation of NHANES I has been described elsewhere (Vital and Health Statistics, Series 1, Nos. 10a, 10b, and 14).

Although NHANES I provided a wealth of information on the prevalence of health conditions and risk factors, the cross-sectional nature of the original survey limits its usefulness for studying the effects of clinical, environmental, and behavioral factors and in tracing the natural history of disease. Therefore, the NHEFS was designed to investigate the association between factors measured at the baseline and the development of specific health conditions. It originated as a joint project between the National Center for Health Statistics (NCHS) and the National Institute on Aging with collaboration from components of the National Institutes of Health and other Public Health Service agencies. The 14,407 participants who were 25 to 74 years of age when they were examined in NHANES I (1971-75) were included in the followup study population.

In the first wave, the 1982-84 NHEFS, data were collected on all 14,407 subjects (i.e., individuals examined at NHANES I) in the cohort. Tracing of subjects began in 1981 and data collection was conducted from 1982 to 1984. Approximately 93 percent (n=13,383) of the cohort was successfully traced by the end of the survey period. Detailed information on the design, content, and operation of the 1982-84 NHEFS may be found in the Plan and Operation of the NHANES I Epidemiologic Followup Study 1982-84, Vital and Health Statistics, Series 1, No. 22. The basic design of the 1982-84 NHEFS consisted of the following components:

- tracing subjects or their proxies to a current address;
- acquiring death certificates for deceased subjects;
- performing in-depth interviews with the subjects or with their proxies including, for surviving subjects, taking pulse, blood pressure, and weight measurements of subjects; and,
- obtaining hospital and nursing home records, including pathology reports and electrocardiograms.

The second wave of NHEFS, the 1986 NHEFS, was conducted to assess changes in the health and functional status of the oldest members of the NHEFS cohort since the last contact period. It included 5,677 subjects who were 55 years or older at their NHANES I examination (almost 40 percent of the entire NHEFS cohort). Data collection was restricted to 3,980 subjects aged 55 years or older at NHANES I who were not known to be deceased at the time of the 1982-84 NHEFS, regardless of their tracing or interview status in 1982-84. The remaining 1,697 subjects who were deceased at the time of the 1982-84 NHEFS were excluded from additional data collection in the 1986 NHEFS. Detailed information on the design, content, and operation of the 1986 NHEFS may be found in the Plan and Operation of the NHANES I Epidemiologic Followup Study, 1986, *Vital and Health Statistics*, Series 1, No. 25.

The 1987 NHEFS, the third wave of data collection, was conducted to continue to collect information on changes in the health and functional status of the NHEFS cohort since the last contact period. Tracing and data collection were conducted during this followup survey only for the members of the NHEFS cohort who had not been identified as deceased in 1982-84 or 1986 (n=11,750) regardless of their previous tracing or interview status. The 2,657 previously deceased subjects were excluded from further data collection in the 1987 NHEFS. Detailed information on the design, content, and operation of the 1987 NHEFS may be found in the Plan and Operation of the NHANES I Epidemiologic Followup Study, 1987, *Vital and Health Statistics*, Series 1, No. 27.

The fourth wave of the NHEFS, the 1992 NHEFS, collected information on changes in the health and functional status of the NHEFS cohort since the last contact. The 1992 NHEFS cohort includes 3,212 subjects who were deceased at the time of the 1982-84, 1986 and 1987 NHEFS and 11,195 subjects who were not known to be deceased prior to the 1992 NHEFS data collection period. Tracing and data collection in the 1992 NHEFS was undertaken only for the non-deceased subjects, regardless of their tracing or interview status in previous surveys. The 3,212 previously deceased subjects were excluded from additional data collection in the 1992 NHEFS. Detailed information on the design, content, and operation of the 1992 NHEFS may be found in the Plan and Operation of the NHANES I Epidemiologic Followup Study, 1992, *Vital and Health Statistics*, Series 1, No. 35.

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ACKNOWLEDGMENTS

Overall responsibility for the data processing and the compilation and documentation for the NHANES I Epidemiologic Followup Study (NHEFS), 1992 Vital and Tracing Status Public Use data tape rested with Christine S. Cox. Assistance was provided by other members of the NHEFS data management team: Sandra T. Rothwell, Michael Mussolino, Jennifer H. Madans, Dawn M. Scott, Madelyn A. Lane, Keith Zevallos, Cordell Golden, Cynthia Reuben, Joel C. Kleinman, and Jacob J. Feldman. Special thanks are extended to Joan Cornoni-Huntley of the National Institute on Aging (NIA) who played an important role in the development and continuation of the NHEFS. The contribution of the contractor, Westat Inc., of Rockville, Maryland, who conducted the field work is also gratefully acknowledged.

The NHEFS originated as a joint project between the National Center for Health Statistics (NCHS) and NIA. It has been funded primarily by NIA, with additional financial support from the following components of the National Institutes of Health and other Public Health Service agencies: the National Center for Chronic Disease Prevention and Health Promotion; the National Cancer Institute; the National Institute of Child Health and Human Development; the National Heart, Lung, and Blood Institute; the National Institute on Alcohol Abuse and Alcoholism; the National Institute of Mental Health; the National Institute of Diabetes and Digestive and Kidney Diseases; the National Institute of Arthritis and Musculoskeletal and Skin Diseases; the National Institute of Allergy and Infectious Diseases; and, the National Institute of Neurological and Communicative Disorders and Stroke.

The design and data collection procedures adopted in the 1992 NHEFS were very similar to the ones developed in the previous surveys: subjects were traced; subject and proxy interviews were conducted; and, health care facility abstracts and death certificates were collected. All subjects whose vital status was not obtained through tracing procedures were considered lost-to-followup in the 1992 NHEFS. In some cases, information about the death of a subject was obtained from a former neighbor, a relative or another tracing source. Although this information was noted in the subject's tracing record, he or she was considered lost-to-followup unless the information was verified by means of a death certificate or proxy interview. A subject's death had to be confirmed by either a death certificate or proxy interview.

In addition to verifying the subject's vital status, the tracing process also was used to obtain the current address of surviving subjects as well as to identify a knowledgeable proxy respondent for deceased subjects. Respondents who were identified and located through the tracing procedures were asked to participate in a telephone interview. In a few cases, subjects who had been traced successfully could not be relocated for the interview. Only their vital status and the date when they were last traced in the 1992 survey are available.

A major difference between the NHEFS waves was the manner in which the interviews were conducted. In the 1982-84 NHEFS, the two-hour subject interview was usually conducted in-person while, in subsequent followups, the interview was shortened to approximately 30 minutes in length and was conducted primarily by telephone. In addition, since the questionnaire was not administered in-person, no physical measurements were made in the later followups.

The 1992 NHEFS interviews were conducted over the telephone using a Computer Assisted Telephone Interviewing (CATI) system. CATI is a telephone interviewing technique that allows the interviewer to enter the answers supplied by the respondent directly into the computer. Thus, editing and coding time is reduced and keypunching from a hard copy questionnaire is eliminated. A computer program drives the questionnaire so that the correct skip patterns are followed and the appropriate questions are displayed on the computer monitor. The skip patterns are based on information gathered from previous data collection waves or on responses provided during the 1992 interview. For example, certain questions on pregnancy and menstrual history in the 1992 interview were programmed to be skipped automatically if the subject was male or if the female subject was interviewed previously and was 45 years of age or older at the time of that interview. Edit and logic checks are incorporated into the data collection system itself, thus improving the quality of the data.

As of July 19, 1993, the end of the 1992 NHEFS data collection period, 10,079 (90.0 percent) of the 11,195 members of the 1992 NHEFS cohort had been successfully traced. Interviews were conducted for 9,281 subjects (92.1 percent of those successfully traced). In addition, 10,535 facility stay records were collected for 4,162 subjects using information obtained from the interview, death certificate, or some other source. Death certificates were obtained for

1,374 (98.7 percent) of the 1,392 subjects who were known to have died since last contact. Fifteen additional death certificates were collected for subjects who were previously identified as deceased by proxy interview only. Detailed information on the design, content, and operation of the 1992 NHEFS may be found in the Plan and Operation of the NHANES I Epidemiologic Followup Study 1992, Vital and Health Statistics, Series 1, No. 35.

The data collected from the 1992 NHEFS are stored on four separate tapes:

- 1) Interview tape -- contains the data collected from the subject and proxy interviews,
- 2) Health Care Facility Stay tape -- contains information on reports of stays in hospitals and nursing homes as well as information abstracted from facility medical records,
- 3) Mortality Data tape -- contains data abstracted from the death certificates from all three NHEFS surveys.
- 4) Vital and Tracing Status tape -- contains summary information about the status of the entire NHEFS cohort. This tape is discussed below in more detail.

The Vital and Tracing Status tape is a master file containing vital status, tracing, and demographic data for all NHEFS subjects (N=14,407), even if they were identified as previously deceased at the time of the 1992 NHEFS. In addition, it provides users with information on the availability of different survey components for each of the four followup periods for each subject. For example, variables are contained in the file to indicate whether or not an interview was completed or an abstract of an overnight hospital stay was obtained for a given survey period. Positions 12-16 contain the Sample Sequence Number, which is the subject identification number. This number is unique for each subject and is used when linking data tapes. Thus, the 1992 NHEFS Vital and Tracing Status tape can be linked to all other NHEFS and NHANES I data tapes.

The 1992 NHEFS Vital and Tracing Status file has been organized into seven main sections:

- 1) Positions 17-24 contain the most recent information on the vital status and date last known alive for each subject. Data collected in the 1992 NHEFS were used to update these variables unless the subject was identified as deceased in a previous survey period or the subject could not be located in the 1992 Survey. In those two cases, information from the previous data collection period was retained.
- 2) Positions 25-49 contain background information for the subject, such as age at NHANES I exam (positions 39-40), sex (position 46), and race (position 47).

- 3) Positions 52-68 store selected mortality data for all deceased subjects. This section includes information such as date of death (positions 61-66), underlying cause of death (positions 53-56) and whether death certificate information is available on the 1992 NHEFS Mortality Data Public Use tape (position 52).
- 4) Positions 102-126 contain summary information on the data collected in the 1982-84 NHEFS. This section also provides users with information on the availability of the different components for each subject in the 1982-84 Survey. For example, variables are contained in this section to indicate which type of questionnaire was administered during the interview and whether the subject has any hospital or nursing home stay records on the revised 1982-84 NHEFS Health Care Facility Stay Public Use data tape.
- 5) Positions 127-157 contain summary information on the data collected in the 1986 NHEFS, including the availability of different survey components for each subject. The layout of this section is essentially identical to the layout of the fourth section above which stores the NHEFS 1982-84 Followup summary data. Variables in this fifth section are coded 9 or 99 (inapplicable), depending on the length of the variable field, for the 1,697 subjects who were known to be deceased at the NHEFS 1982-84 Followup. In addition, the variables in this section are coded 8 or 98 for the 8,730 subjects who were less than 55 years at baseline examination and therefore not included in the 1986 NHEFS cohort.
- 6) Positions 158-187 contain summary information on the data collected in the 1987 NHEFS, including the availability of different survey components for each subject. The layout of this section is similar to the layout of sections four and five. Variables in this section are coded 9 or 99 (inapplicable), depending on the length of the variable field, for the 2,657 subjects who were known to be deceased in the 1982-84 or 1986 NHEFS.
- 7) Positions 188-218 contain summary information on the data collected in the 1992 NHEFS, including the availability of different survey components for each subject. The layout of this section is similar to the layout of sections four, five, and six. Variables in this section are coded 9 or 99 (inapplicable), depending on the length of the variable field, for the 3,212 subjects who were known to be deceased in the 1982-84, 1986, or 1987 NHEFS.
- 8) Positions 219-272 contain additional demographic data available from the NHANES I and NHEFS such as the NHANES I sample weights (positions 220-255), NHANES I subsamples (position 219), NHANES I revised pseudo strata and primary sampling numbers (positions 256-261), NHANES I poverty area indicator (position 262), NHANES I state residence (positions 263-264), and state of residence for each NHEFS survey period (positions 265-272).

Because of differences in the complexity of the 1982-84, 1986, 1987, and 1992 waves and/or changes in data collection procedures, the availability and coding of data in the various survey sections varies across survey years. For example, in the 1982-84 NHEFS, a mail questionnaire was considered as a non-response to the interview component since not enough information was obtained from it to code onto the interview file. Since the 1986 NHEFS, however, a more detailed mail questionnaire was developed which provided enough information to have a mail response coded onto the subsequent NHEFS Interview tapes.

Finally, please note that the original 1982-84 NHEFS Health Care Facility Record Public Use file, released in September 1987, contained information only from facility abstracts. However, this 1982-84 file has since been revised and re-released. It now has the same format as the 1986, 1987, and 1992 NHEFS Health Care Facility Stay Public Use files. The 1982-84 NHEFS facility stay variables in positions 124-125 on the 1992 NHEFS Vital and Tracing Status Public Use data tape are based on the revised 1982-84 NHEFS Health Care Facility Stay Public Use tape.

Tape Characteristics

Title: 1992 NHEFS Vital and Tracing Status Data Tape

Data Set Name: NHEFS4.VITALTR.FINAL

Record Length: 272

Blocksize: 31824

Number of Records: 14,407

Recording/
Storage Media: FIXED BLOCK, EBCDIC/IBM 3480 Cartridge Tape

Created by: Office of Analysis, Epidemiology and Health Promotion
Division of Epidemiology
National Center for Health Statistics
Presidential Building, Room 730
6525 Belcrest Road
Hyattsville, Maryland 20782

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
1-11	<u>Blank</u>
12-16	<u>NHANES I Sample Sequence Number</u>

DEMOGRAPHIC AND TRACING INFORMATION

17	<u>Current Vital Status</u> 1 = Alive 3 = Dead 4 = Unknown 5 = Traced alive with direct subject contact 6 = Traced alive without direct subject contact, subject's vital status verified
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NOTE: The Current Vital Status (position 17) and the associated Date Last Known Alive (positions 18-23) are based on the most recent information available for the subject. Data collected in the 1992 NHEFS were used to update these two variables for subjects successfully traced in that survey. If the subject was identified as deceased in a previous survey, the information from that survey was retained. If the subject was lost to followup in the 1992 NHEFS, the vital status from the previous wave where the vital status was last confirmed alive was retained. The Date Last Known Alive was coded to the date of the NHANES I examination for subjects whose vital status was unknown in the 1982-84, 1986, 1987, and 1992 Surveys. The source flag stored in position 24 indicates the survey from which the data in positions 17-23 were obtained. For more information on the subject's vital status and date last known alive from the 1982-84, 1986, 1987, and 1992 NHEFS, please see positions 102-108, 128-134, 159-165, and 189-196 respectively.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
(18-23)	<u>Date Last Known Alive</u>
18-19	<u>Month</u> 01-12 = Month when last known alive 98 = Don't know 99 = Not ascertained
20-21	<u>Day</u> 01-31 = Day when last known alive 98 = Don't know 99 = Not ascertained
22-23	<u>Year</u> 71-93 = Year when last known alive (1971-1993)

NOTE: The Date Last Known Alive is either the date of last contact for survivors and those lost to followup or it is the Date of Death for decedents.

The Date Last Known Alive (positions 18-23) and the associated Current Vital Status (position 17) are based on the most recent information available for the subject. The following describes how date last known alive is derived for each current vital status code.

- 1 = If the subject or a knowledgeable proxy respondent answering on behalf of an incapacitated subject, completed or partially completed either a telephone or mail questionnaire, or if the subject or proxy answered verification questions either during the tracing or interview period without completing an interview, then the current date last known alive would be equal to the date the interview or the date the verification questions were completed.
- 3 = The current vital status will be deceased if the subject has been identified as deceased from a previous survey or if the subject is coded as deceased for the 1992 NHEFS. For all subjects for whom the current vital status is deceased the current date last known alive will be equal to the date of death.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

- 4 = If the subject was considered not located for the 1992 NHEFS then the current date last known alive is equal to the date last known alive in the 1987 NHEFS. If the subject was not located at either the 1992 or 1987 NHEFS the current date last known alive is equal to the 1986 NHEFS. If the subject was not located at the 1992, 1987, and 1986 NHEFS then the current date last known alive is equal to the 1982-1984 NHEFS. If the subject was not located at any followup the current date last known alive is the date of the NHANES I Examination.
- 5 = If the subject is traced alive with direct subject contact but vital status verification questions could not be completed then the current date last known alive is equal to the date of the last direct subject contact.
- 6 = If the subject is traced alive without direct subject contact but the subject's vital status is verified, then the current date last known alive is equal to the date of vital status verification.

24

Source of Current Vital Status and Date Last Known Alive

- 1 = 1982-84 NHEFS
- 2 = 1986 NHEFS
- 3 = 1987 NHEFS
- 4 = 1992 NHEFS
- 9 = Inapplicable, subject's vital status unknown in all eligible followup surveys

(25-32)

NHEFS Date of Birth

25-26

Month

01-12=Month of birth

27-28

Blank

29-32

Year

1895-1950 = Year of birth

NOTE: The NHEFS Date of Birth is the subject's birth date reported at NHANES I. It was corrected for subjects for whom updated birthdate information was obtained in the 1982-84 NHEFS. The NHEFS Date of Birth was not updated using data collected from the 1986, 1987 or 1992 NHEFS.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
(33-38)	<u>Date of NHANES I Examination</u>
33-34	<u>Month</u> 01-12 = Month of NHANES I examination
35-36	<u>Day</u> 01-31 = Day of NHANES I examination
37-38	<u>Year</u> 71-75 = Year of NHANES I examination (1971-1975)
39-40	<u>Age at NHANES I Examination</u> 24-77 = Age at examination (in years)

NOTE: Age at NHANES I Examination is calculated from the NHEFS Date of Birth and the Date of NHANES I Examination.

41-42	<u>Strata</u> 01-35 = Strata
-------	---------------------------------

NOTE: This is the original strata variable that was released with the NHANES I Public Use data tapes. For more detailed information concerning this variable, see Vital and Health Statistics, Series 1, Numbers 10a, 10b, and 14 and the detailed notes for the NHANES I Public Use data tape documentation. Two new strata variables have been created for use with NHANES I public use data to facilitate variance estimation. These revised strata variables are located in tape positions 256-257 and 259-260 on the 1992 NHEFS Vital and Tracing Status Public Use Data Tape.

43-45	<u>Pseudo Primary Sampling Unit (PSU)</u> 1-235 = Pseudo primary sampling unit
-------	---

NOTE: This is the original pseudo primary sampling unit variable that was released with the NHANES I Public Use data tapes. For more detailed information concerning this variable, see Vital and Health Statistics, Series 1, Numbers 10a, 10b, and 14 and the detailed notes for the NHANES I Public Use Data tape documentation. Two new pseudo primary sampling unit variables have been created for use with NHANES I public use data to facilitate variance estimation. These revised pseudo primary sampling unit variables are located in tape positions 258 and 261 on the 1992 NHEFS Vital and Tracing Status Public Use Data Tape.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

46

Sex

- 1 = Male
- 2 = Female

47

Revised Race

- 1 = Aleut, Eskimo or American Indian
- 2 = Asian/Pacific Islander
- 3 = Black
- 4 = White
- 5 = Other

NOTE: This variable is the revised race variable that was created in the 1982-84 NHEFS to resolve discrepancies between the NHANES I interviewer-observed race and the 1982-84 NHEFS respondent-reported race. Revised race codes were based on a case-by-case adjudication of the following data: NHANES I race and ethnicity; 1982-84 NHEFS race and ethnicity; and, in the case of deceased subjects, race on the death certificate that was obtained in the 1982-84 NHEFS. Information collected on race from the 1986, 1987 or 1992 NHEFS was not used to update this variable.

48

Marital Status When Last Interviewed

- 1 = Married
- 2 = Widowed
- 3 = Divorced
- 4 = Separated
- 5 = Never married
- 8 = Unknown

NOTE: This variable reflects the marital status reported in the most recent interview for the subject.

49

Language Other Than English Spoken in Household at
NHANES I Examination

- 0 = German
- 1 = Italian
- 2 = French
- 3 = Polish
- 4 = Russian
- 5 = Spanish
- 6 = Chinese
- 7 = Other language
- 8 = Don't know
- 9 = Inapplicable, only English spoken

NOTE: This variable is extracted from NHANES I Baseline Public Use data tape position 119.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

50-51 Blank

INFORMATION PERTAINING TO DEATH: KNOWN DEATHS

52 Death Certificate Receipt Flag

- 1 = Death certificate has been obtained for deceased subject and death certificate information is coded on the 1992 NHEFS Mortality Data tape
- 2 = Death certificate was not obtained for deceased subject
- Blank = Inapplicable, subject was not known to be deceased

NOTE: This variable identifies ALL known decedents for whom a death certificate was obtained (N=4,482). Thus, it reflects the receipt of a death certificate for 1,968 subjects identified as deceased at the 1982-84 NHEFS (though thirty-three (33) of these certificates were received after the end of the 1982-84 NHEFS survey period), 616 subjects identified as deceased at the 1986 NHEFS, 539 subjects identified as deceased at the 1987 NHEFS (though fifteen (15) of these certificates were received after the end of the 1987 NHEFS survey period), and 1,374 subjects identified as deceased at the 1992 NHEFS.

53-56 Underlying Cause of Death

- 0000 = Subject deceased but does not have a death certificate on the 1992 NHEFS Mortality Data tape
- 0010-9999 = ICD-9 code (not inclusive)
- Blank = Inapplicable, subject not known to be deceased

NOTE: Underlying cause of death is coded by rules of the International Classification of Diseases, Ninth Revision (ICD-9). See the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death: Based on the Recommendations of the Ninth Revision Conference, 1975, and Adopted by the Twenty-Ninth World Health Assembly, Volume 1, 1977 (World Health Organization) for a complete list of codes. For injuries and poisonings, the external cause is coded (E800-E999) rather than the Nature of Injury (800-999). These positions do not include the letter E for the external cause of injury. For those causes that do not require a 4th digit, position 56 is blank.

57-60 Blank

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

(61-66)

Date of Death

NOTE: If a death certificate was obtained for the subject, the subject's date of death is extracted from the 1992 NHEFS Mortality data file. If a death certificate was not obtained for the subject but a facility abstract was returned which indicated that the subject was discharged dead from the facility, the Date of Death is coded to the date of discharge entered on the abstract form. If neither a death certificate nor a facility abstract (indicating the subject was discharged dead) was available, the Date of Death is coded from the information provided in the proxy interview.

This variable has been updated with the date of death stated on the death certificate for one 1982-84 NHEFS decedent whose death certificate was received after the end of the 1982-84 survey period. The subject's year of death on the death certificate differed from the year reported from the 1982-84 NHEFS proxy interview.

61-62

Month

01-12 = Month of death

98 = Don't know

99 = Not ascertained

Blank = Inapplicable, subject not known to be deceased

63-64

Day

01-31 = Day of death

98 = Don't know

99 = Not ascertained

Blank = Inapplicable, subject not known to be deceased

65-66

Year

71-93 = Year of death (1971-1993)

Blank = Inapplicable, subject not known to be deceased

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

67-68

Age at Death

30-96 = Age at death (in years)

Blank = Inapplicable, subject not known to be deceased

NOTE: Age at Death is calculated from the NHEFS Date of Birth and the Date of Death and is not extracted from the 1992 NHEFS Mortality Data tape. For subjects with missing date of death information, the following convention was used to impute Age at Death: if the Month of Death is missing, then month of death=7; if the Day of Death is missing, then day of death=15; and, if both Month and Day of Death are missing, then month of death=7 and day of death=1.

This variable reflects the change in the year of death for one 1982-84 NHEFS decedent whose death certificate was received after the end of the 1982-84 survey period. The year of death on the death certificate differed from the year reported from the 1982-84 NHEFS proxy interview.

69-101

Blank

DATA FROM 1982-84 NHEFS

NOTE: Positions 102 through 126 summarize the vital status, interview, and health care facility stay information collected at the 1982-84 NHEFS for each of the subjects in this cohort. These data are identical to those stored on the 1982-84 Vital and Tracing Status Public Use tape except where otherwise noted.

102

Vital Status: 1982-84 NHEFS

1 = Alive

3 = Dead

4 = Unknown

5 = Traced alive but lost prior to interview period

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
(103-108)	<u>Date Last Known Alive: 1982-84 NHEFS</u>
103-104	<u>Month</u> 01-12 = Month when last known alive 98 = Don't know 99 = Not ascertained
105-106	<u>Day</u> 01-31 = Day when last known alive 98 = Don't know 99 = Not ascertained
107-108	<u>Year</u> 71-84 = Year when last known alive (1971-1984)

NOTE: Date Last Known Alive is defined according to vital status (position 102) at the 1982-84 NHEFS. The determination for this variable follows for each vital status code.

Vital Status Codes

- (1) If the subject was alive and an interview was obtained interviewed at the 1982-84 NHEFS, the Date Last Known Alive is the 1982-84 NHEFS interview date.

or

If the subject was alive and the result of an attempted 1982-84 NHEFS interview was a nonresponse, the Date Last Known Alive is the date of the attempted followup interview or the date when last contacted at the 1982-84 NHEFS.

- (3) If the subject is deceased, the Date Last Known Alive is the date of death provided from either the death certificate or the proxy interview obtained in the 1982-84 NHEFS. The Date Last Known Alive has been updated with the date of death stated on the death certificate for one 1982-84 NHEFS decedent whose death certificate was received after the 1982-84 survey period. The year of death on the death certificate differed from the date reported from the 1982-84 NHEFS proxy interview.
- (4) If the subject was never located at the 1982-84 NHEFS or the only death information available was from an unconfirmed source, the Date Last Known Alive is the date of the NHANES I exam.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

- (5) If the subject was found during tracing but was subsequently lost prior to the 1982-84 NHEFS interview period, the Date Last Known Alive is the date of last contact or the mid-point date of tracing for each specific regional area. These are:

Pretest: December 1, 1980 to April 1, 1982
Mid-point = August 1, 1981

Northeast: February 1, 1981 to August 1, 1982
Mid-point = November 1, 1981

South: April 1, 1981 to January 1, 1983
Mid-point = February 1, 1982

Midwest: June 1, 1981 to April 1, 1983
Mid-point = May 1, 1982

West: September 1, 1981 to July 1, 1983
Mid-point = August 1, 1982

NHANES I stand was used to group cases into regional tracing areas.

(109-114) Date of Interview: 1982-84 NHEFS

109-110 Month
01-12 = Month of interview
Blank = Inapplicable, not interviewed

111-112 Day
01-31 = Day of interview
Blank = Inapplicable, not interviewed

113-114 Year
82-84 = Year of interview (1982-1984)
Blank = Inapplicable, not interviewed

115-116 Age at Interview: 1982-84 NHEFS
32-86 = Age at interview (in years)
97 = Proxy interview, subject deceased at 1982-84 NHEFS
Blank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

117-118

Interview Disposition: 1982-84 NHEFS

- 01 = Final complete
- 02 = Partial complete
- 03 = Refusal/breakoff
- 04 = Not at home
- 05 = Other not interviewed, not specified
- 06 = No proxy located
- 07 = Not traced/traced but lost prior to interview
- 08 = Out of country
- 09 = Mail questionnaire

NOTE: An interview disposition of partial complete (code 02) indicates that a 1982-84 NHEFS interview was administered but is missing one or more sections of information. Respondents who broke off the interview after completing section D (Health/Diseases and Operations) are also coded as partial complete.

An interview disposition of refusal/breakoff (code 03) indicates a 1982-84 NHEFS interview was not administered or the respondent broke off the interview before completing section D. Interviews ending before completion of section D were not coded.

Interview information is available on the 1982-84 NHEFS Interview Public Use Data Tape only for respondents with interview disposition codes of final or partial complete (codes 01 and 02).

119

Questionnaire Type: 1982-84 NHEFS

- 0 = Pretest proxy questionnaire (subject deceased)
- 1 = Subject questionnaire
- 2 = "Boxed" subject questionnaire (subject incapacitated; questionnaire completed by proxy respondent)
- 4 = Proxy telephone questionnaire (subject deceased)
- 5 = Proxy in-person questionnaire (subject deceased)
- 6 = Pretest subject questionnaire
- 7 = Subject telephone questionnaire
- 8 = "Boxed" subject telephone questionnaire (subject incapacitated; questionnaire completed by proxy respondent)
- Blank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

120 Relationship of Proxy to Deceased or Incapacitated Subject: 1982-84 NHEFS

- 0 = Other specified nonrelative
- 1 = Spouse/roommate
- 2 = Child
- 3 = Parent
- 4 = Brother/sister
- 5 = Friend/neighbor
- 6 = Other specified relative
- 7 = Inapplicable, subject participated in interview (i.e., no proxy needed)
- 9 = Not ascertained
- Blank = Inapplicable, not interviewed

NOTE: This variable has been updated since the release of the 1982-84 Vital and Tracing Status Public Use data tape and now includes the relationship of the proxy respondent who was administered a "boxed" subject questionnaire in the 1982-84 NHEFS.

121-123 Blank

124 Hospital Stay Record Flag: 1982-84 NHEFS

- 1 = Subject has hospital stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised) and at least one of these records has hospital abstract information.
- 2 = Subject has hospital stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised) but none of these records have hospital abstract information.
- 3 = Subject has stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised) but none of these records are for hospital stays.
- Blank = Subject has no stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised).

NOTE: This variable has been updated to include information obtained since the release of the 1982-84 Public Use data tapes. This variable should be used to replace the hospital record receipt flag information previously released on the 1982-84 Vital and Tracing Status Public Use data tape.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

125

Nursing Home Stay Record Flag: 1982-84 NHEFS

- 1 = Subject has nursing home stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised) and at least one of these records has nursing home abstract information
- 2 = Subject has nursing home stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised) but none of these records have nursing home abstract information
- 3 = Subject has stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised) but none of these records are for nursing home stays
- Blank = Subject has no stay record(s) on the 1982-84 NHEFS Health Care Facility Stay Public Use data tape (Revised)

NOTE: This variable has been updated to include information obtained since the release of the 1982-84 NHEFS Public Use data tapes. This variable should be used to replace the nursing home record receipt flag information previously released on the 1982-84 Vital and Tracing Status Public Use data tape.

126

Migration Status: 1982-84 NHEFS

- 1 = State of residence changed since NHANES I examination
- 2 = No change in state of residence since NHANES I examination
- Blank = Subject lost to followup or subject deceased and death certificate not available

NOTE: The migration status variable was created by comparing the state of residence at NHANES I with either the state of residence obtained in the 1982-84 NHEFS from administrative records or from the death certificate. This variable has been updated to include information obtained since the release of the 1982-84 data tapes and should be used to replace the migration status information previously released on the 1982-84 NHEFS Public Use data tapes.

DATA FROM 1986 NHEFS

NOTE: Positions 127 through 157 summarize the vital status, interview, and health care facility stay information collected at the 1986 NHEFS for each of the subjects who were at least 55 years old at the NHANES I exam who were not known to be deceased in the 1982-84 NHEFS. More detailed information with respect to these variables may be obtained from the 1986 NHEFS Interview, Health Care Facility Stay, and Mortality Data Public Use data tape documentation.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
127	<u>Eligibility Code for 1986 NHEFS</u> 1 = Subject was at least 55+ years at NHANES I exam and was not known to be deceased at the 1982-84 NHEFS 2 = Subject was at least 55+ years at NHANES I exam and was known to be deceased at the 1982-84 NHEFS 8 = Subject's age less than 55 at NHANES I exam
128	<u>Vital Status: 1986 NHEFS</u> 1 = Alive 3 = Dead 4 = Unknown 5 = Traced alive but lost prior to interview period 7 = Traced alive but without direct subject contact 8 = Not eligible, subject's age less than 55 at NHANES I exam 9 = Inapplicable, 1982-84 NHEFS decedent
(129-134)	<u>Date Last Known Alive: 1986 NHEFS</u>
129-130	<u>Month</u> 01-12 = Month when last known alive 98 = Not eligible, subject's age less than 55 at NHANES I exam 99 = Inapplicable, 1982-84 NHEFS decedent
131-132	<u>Day</u> 01-31 = Day when last known alive 98 = Not eligible, subject's age less than 55 at NHANES I exam 99 = Inapplicable, 1982-84 NHEFS decedent
133-134	<u>Year</u> 71-86 = Year when last known alive (1971-1986) 98 = Not eligible, subject's age less than 55 at NHANES I exam 99 = Inapplicable, 1982-84 NHEFS decedent

NOTE: The Date Last Known Alive is defined according to vital status (position 128) at the 1986 NHEFS. The determination for Date Last Known Alive for each vital status code follows.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

Vital Status Codes

- (1) If the subject was alive and an interview was obtained at the 1986 NHEFS, the Date Last Known Alive is the date when the 1986 NHEFS interview was conducted or the date when the subject's mail questionnaire was received.

or

If the subject was alive and the result of an attempted 1986 NHEFS interview was a nonresponse, the Date Last Known Alive is the date of the attempted interview or the date of last contact in the 1986 NHEFS.

- (3) If the subject was identified as deceased in the 1986 NHEFS, the Date Last Known Alive is the date of death provided from a death certificate, a facility abstract, or a proxy interview (in that order of priority) obtained in the 1986 NHEFS.
- (4) If the subject, at the 1982-84 NHEFS, was either never located or was identified as deceased but that information was obtained from an unconfirmed source and the subject, at the 1986 NHEFS, was either never located or was identified as deceased in the 1986 NHEFS but that information was obtained from an unconfirmed source, Date Last Known Alive is the date of the NHANES I examination.

or

If the subject was successfully traced at the 1982-84 NHEFS but then, in the 1986 NHEFS, either was never located or was identified as deceased at the 1986 NHEFS and that information was obtained from an unconfirmed source, Date Last Known Alive is the date last known alive at the 1982-84 NHEFS.

- (5) If the subject was located during the 1986 NHEFS tracing period but was subsequently lost prior to the interview period, the Date Last Known Alive is the date the subject was located during tracing at the 1986 NHEFS.
- (7) If the subject was traced alive at the 1986 NHEFS but no direct contact was made with the subject, the Date Last Known Alive is the date tracing was conducted in the 1986 NHEFS.
- (8) If the subject's age was less than 55 at the NHANES I exam, the Date Last Known Alive is coded as Not Eligible (989898).
- (9) If the subject was identified as deceased in the 1982-84 NHEFS, the Date Last Known Alive is coded as Inapplicable (999999).

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
(135-140)	<u>Date of Interview: 1986 NHEFS</u> NOTE: The Date of Interview is the date when the subject or proxy interview was conducted or the date when the mail questionnaire was received in the 1986 NHEFS.
135-136	<u>Month</u> 01-12 = Month of interview 98 = Not eligible, subject's age less than 55 at exam 99 = Inapplicable, 1982-84 NHEFS decedent Blank = Inapplicable, not interviewed
137-138	<u>Day</u> 01-31 = Day of interview 98 = Not eligible, subject's age less than 55 at exam 99 = Inapplicable, 1982-84 NHEFS decedent Blank = Inapplicable, not interviewed
139-140	<u>Year</u> 85-86 = Year of interview (1985-1986) 98 = Not eligible, subject's age less than 55 at exam 99 = Inapplicable, 1982-84 NHEFS decedent Blank = Inapplicable, not interviewed
141-142	<u>Age at Interview: 1986 NHEFS</u> 65-89 = Age at interview (in years) 97 = Proxy interview: subject deceased at 1986 NHEFS 98 = Not eligible, subject's age less than 55 at exam 99 = Inapplicable, 1982-84 NHEFS decedent Blank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

143-144

Interview Disposition: 1986 NHEFS

- 01 = Final complete
- 02 = Partial complete
- 03 = Refusal/breakoff
- 05 = Other (Not available during field period, language problem, etc.)
- 06 = No proxy
- 07 = Not traced/traced but lost prior to interview
- 08 = Out of country
- 09 = Mail
- 98 = Not eligible, subject's age less than 55 at exam
- 99 = Inapplicable, 1982-84 NHEFS decedent

NOTE: An interview disposition of partial complete (code 02) indicates that the respondent broke off the interview in the 1986 NHEFS at some point after completing section A (Background Information) of the questionnaire and did not complete the remainder of the interview. Furthermore, it indicates that the respondent provided information on at least one facility stay for the subject in section B (Medical Conditions) of the questionnaire or completed a substantive part of section B, if the respondent did not fully complete that section.

An interview disposition of refusal/breakoff (code 03) indicates that a 1986 NHEFS interview was not administered or the respondent broke off the interview before completing section A or the respondent broke off the interview early into section B without providing information on any facility stays for the subject. In the latter two cases, the interviews were not coded.

Interview information is available on the 1986 NHEFS Interview Public Use Data tape only for respondents with interview disposition codes of final complete (code 01), partial complete (code 02), or mail questionnaire (code 09).

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Questionnaire Type: 1986 NHEFS Interview

- 1 = Completed subject questionnaire
- 2 = Completed subject questionnaire (subject incapacitated; questionnaire administered to a proxy respondent)
- 3 = Completed proxy questionnaire (subject deceased)
- 4 = Partially completed subject questionnaire
- 5 = Partially completed subject questionnaire (subject incapacitated; questionnaire administered to proxy respondent)
- 6 = Partially completed proxy questionnaire (subject deceased)
- 8 = Not eligible, subject's age less than 55 at exam
- 9 = Inapplicable, 1982-84 NHEFS decedent
- Blank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
146	<u>Method of Data Collection: 1986 NHEFS Interview</u> 1 = Telephone 2 = Mail 8 = Not eligible, subject's age less than 55 at exam 9 = Inapplicable, 1982-84 NHEFS decedent Blank = Inapplicable, not interviewed
147	<u>Pretest Flag: 1986 NHEFS</u> 1 = Pretest I (Feb-Mar 1985) 2 = Pretest II (May 1985) 3 = Pretest III (Aug-Oct 1985) 4 = Interviewed during main study (Jan-Jul 1986) 8 = Not eligible, subject's age less than 55 at exam 9 = Inapplicable, 1982-84 NHEFS decedent Blank = Inapplicable, not interviewed NOTE: For detailed information on the 1986 NHEFS pretest and main survey interview schedules, see the introduction to the 1986 NHEFS Public Use Interview data tape documentation.
148-151	<u>Blank</u>
152	<u>Hospital Stay Record Flag: 1986 NHEFS</u> 1 = Subject has hospital stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape and at least one of these records has hospital abstract information 2 = Subject has hospital stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape but none of these records have hospital abstract information 3 = Subject has stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape but none of these records are for hospital stays 8 = Not eligible, subject's age less than 55 at exam 9 = Inapplicable, 1982-84 NHEFS decedent Blank = Subject has no stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

- 153 Nursing Home Stay Record Flag: 1986 NHEFS
- 1 = Subject has nursing home stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape and at least one of these records has nursing home abstract information
 - 2 = Subject has nursing home stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape but none of these records have nursing home abstract information
 - 3 = Subject has stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape but none of these records are for nursing home stays
 - 8 = Not eligible, subject's age less than 55 at exam
 - 9 = Inapplicable, 1982-84 NHEFS decedent
 - Blank = Subject has no stay record(s) on the 1986 NHEFS Health Care Facility Stay Public Use data tape

- 154 Migration Status: 1986 NHEFS
- 1 = State of residence changed since last contact
 - 2 = No change in state of residence since last contact
 - 8 = Not eligible, subject's age less than 55 at exam
 - 9 = Inapplicable, 1982-84 NHEFS decedent
 - Blank = Subject lost to followup or subject deceased and death certificate not available

NOTE: This variable was created by comparing the state of residence at 1986 NHEFS with the state of residence at last contact. Residence information is obtained from either administrative records or the state of residence obtained from the death certificate.

- 155 Spanish Interview: 1986 NHEFS
- 1 = Interview conducted in Spanish
 - 2 = Interview not conducted in Spanish
 - 8 = Not eligible, subject's age less than 55 at exam
 - 9 = Inapplicable, 1982-84 NHEFS decedent
 - Blank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

156-157 Relationship of Proxy to Deceased or Incapacitated Subject: 1986 NHEFS
01 = Husband/wife
02 = Father/mother
03 = Father-in-law/mother-in-law
05 = Son/daughter
06 = Son-in-law/daughter-in-law
07 = Grandchild
08 = Brother/sister
09 = Brother-in-law/sister-in-law
10 = Aunt/uncle/cousin
11 = Niece/nephew
12 = Roommate/friend/neighbor
91 = Other specified relative/relative-in-law
93 = Other specified nonrelative
98 = Not eligible, subject's age less than 55 at exam
99 = Inapplicable, 1982-84 NHEFS decedent
Blank = Inapplicable, subject not interviewed or proxy respondent not needed

DATA FROM 1987 NHEFS

NOTE: Positions 158 through 187 summarize the vital status, interview, and health care facility stay information collected at the 1987 NHEFS for each of the subjects who were at least 25 years old at the NHANES I examination who were not known to be deceased in the 1982-84 or 1986 NHEFS. More detailed information with respect to these variables may be obtained from the 1987 NHEFS Interview, Health Care Facility Stay, and Mortality Data Public Use data tape documentation.

158 Eligibility Code for 1987 NHEFS
1 = Subject was not known to be deceased at 1982-84 or 1986 NHEFS
2 = 1986 NHEFS decedent
3 = 1982-84 NHEFS decedent

159 Vital Status: 1987 NHEFS
1 = Alive
3 = Dead
4 = Unknown
5 = Traced alive but lost prior to interview period
7 = Traced alive but without direct subject contact
9 = Inapplicable, 1982-84 or 1986 NHEFS decedent

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
(160-165)	<u>Date Last Known Alive: 1987 NHEFS</u>
160-161	<u>Month</u> 01-12 = Month when last known alive 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent
162-163	<u>Day</u> 01-31 = Day when last known alive 98 = Don't know 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent
164-165	<u>Year</u> 71-88 = Year when last known alive (1971-1988) 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent

NOTE: The Date Last Known Alive is defined according to vital status (position 159) at the 1987 NHEFS. The determination for Date Last Known Alive for each vital status code follows.

Vital Status Codes

- (1) If the subject was alive and an interview was obtained at the 1987 NHEFS, the Date Last Known Alive is the date when the 1987 NHEFS interview was conducted or the date when the subject's mail questionnaire was received.

or

If the subject was alive and the result of an attempted 1987 NHEFS interview was a nonresponse, the Date Last Known Alive is the date of the attempted interview or the date of last contact at the 1987 NHEFS. The Date Last Known Alive was corrected for five cases where the month and day last known alive were found to be incorrect. Year last known alive was not affected by this recode.

- (3) If the subject was identified as deceased in the 1987 NHEFS, the Date Last Known Alive is the date of death provided from a death certificate, a facility abstract, or a proxy interview (in that order of priority) obtained in the 1987 NHEFS.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

- (4) If the subject had an unknown vital status in the 1982-84, 1986 and 1987 NHEFS surveys because the subject was never successfully traced or was identified as deceased but that information was obtained from an unconfirmed source, the Date Last Known Alive is the date of the NHANES I examination.

or

If the subject was successfully traced at the 1982-84 or 1986 NHEFS but then, in the 1987 NHEFS, either was never successfully traced or was identified as deceased and this information was obtained from an unconfirmed source, Date Last Known Alive is the date last known alive at the 1982-84 or 1986 NHEFS, depending on when the subject was last located.

- (5) If the subject was located during the 1987 NHEFS tracing period but was subsequently lost prior to the interview period, the Date Last Known Alive is the date the subject was located during tracing at the 1987 NHEFS.
- (7) If the subject was traced alive at the 1987 NHEFS but no direct contact was made with the subject, the Date Last Known Alive is the date tracing was conducted in the 1987 NHEFS. The Date Last Known Alive was corrected for one case where the month and day last known alive were found to be incorrect. Year last known alive was not affected by this recode.
- (9) If the subject was identified as deceased in the 1982-84 or 1986 NHEFS, the Date Last Known Alive is coded as Inapplicable (999999).

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
(166-171)	<u>Date of Interview: 1987 NHEFS</u> NOTE: The Date of Interview is the date when the subject or proxy interview was conducted or the date when the mail questionnaire was received in the 1987 NHEFS. The 1987 NHEFS Date of Interview was corrected for 2 cases where the month and day of interview were later found to be incorrect. Year of 1987 interview was not affected by this recode.
166-167	<u>Month</u> 01-12 = Month of interview 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Inapplicable, not interviewed
168-169	<u>Day</u> 01-31 = Day of interview 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Inapplicable, not interviewed
170-171	<u>Year</u> 87-88 = Year of interview (1987-1988) 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Inapplicable, not interviewed
172-173	<u>Age at Interview: 1987 NHEFS</u> 36-91 = Age at interview (in years) 97 = Proxy interview: subject deceased at 1987 NHEFS 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
174-175	<p><u>Interview Disposition: 1987 NHEFS</u></p> <ul style="list-style-type: none">01 = Final complete02 = Partial complete03 = Refusal/breakoff05 = Other (Not available during field period, language problem, etc.)06 = No proxy07 = Not traced/traced but lost prior to interview08 = Out of country09 = Mail99 = Inapplicable, 1982-84 or 1986 NHEFS decedent <p>NOTE: An interview disposition of partial complete (code 02) indicates that the respondent broke off the interview in the 1987 NHEFS at some point after completing section A (Background Information) of the questionnaire and did not complete the remainder of the interview. Furthermore, it indicates that the respondent provided information on at least one facility stay for the subject in section B (Medical Conditions) of the questionnaire or completed a substantive part of section B, if the respondent did not fully complete that section.</p> <p>An interview disposition of refusal/breakoff (code 03) indicates that a 1987 NHEFS interview was not administered <u>or</u> the respondent broke off the interview before completing section A <u>or</u> the respondent broke off the interview early into section B without providing information on any facility stays for the subject. In the latter two cases, the interviews were not coded.</p> <p>Interview information is available on the 1987 NHEFS Interview Public Use Data tape only for respondents with interview disposition codes of final complete (code 01), partial complete (code 02), or mail questionnaire (code 09).</p>
176	<p><u>Questionnaire Type: 1987 NHEFS Interview</u></p> <ul style="list-style-type: none">1 = Completed subject questionnaire2 = Completed proxy questionnaire (subject incapacitated; questionnaire administered to a proxy respondent)3 = Completed proxy questionnaire (subject deceased)4 = Partially completed subject questionnaire5 = Partially completed proxy questionnaire (subject incapacitated; questionnaire administered to proxy respondent)6 = Partially completed proxy questionnaire (subject deceased)9 = Inapplicable, 1982-84 or 1986 NHEFS decedentBlank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
177	<u>Method of Data Collection: 1987 NHEFS Interview</u> 1 = Telephone 2 = Mail 9 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Inapplicable, not interviewed
178-181	<u>Blank</u>
182	<u>Hospital Stay Record Flag: 1987 NHEFS</u> 1 = Subject has hospital stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape and at least one of these records has hospital abstract information 2 = Subject has hospital stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape but none of these records have hospital abstract information 3 = Subject has stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape but none of these records are for hospital stays 9 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Subject has no stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape
183	<u>Nursing Home Stay Record Flag: 1987 NHEFS</u> 1 = Subject has nursing home stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape and at least one of these records has nursing home abstract information 2 = Subject has nursing home stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape but none of these records have nursing home abstract information 3 = Subject has stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape but none of these records are for nursing home stays 9 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Subject has no stay record(s) on the 1987 NHEFS Health Care Facility Stay Public Use data tape
184	<u>Migration Status: 1987 NHEFS</u> 1 = State of residence changed since last contact 2 = No change in state of residence since last contact 9 = Applicable, 1982-84 or 1986 NHEFS decedent Blank = Subject lost to followup or subject deceased and death certificate not available

NOTE: This variable was created by comparing the state of residence at 1987 NHEFS with the state of residence at last contact. Residence information is obtained from either administrative records or the state of death obtained from the death certificate.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
185	<u>Spanish Interview: 1987 NHEFS</u> 1 = Interview conducted in Spanish 2 = Interview not conducted in Spanish 9 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Inapplicable, not interviewed
186-187	<u>Relationship of Proxy to Deceased or Incapacitated Subject: 1987 NHEFS</u> 01 = Husband/wife 02 = Father/mother 03 = Father-in-law/mother-in-law 05 = Son/daughter 06 = Son-in-law/daughter-in-law 07 = Grandchild 08 = Brother/sister 09 = Brother-in-law/sister-in-law 10 = Aunt/uncle/cousin 11 = Niece/nephew 12 = Roommate/friend/neighbor 91 = Other specified relative/relative-in-law 93 = Other specified nonrelative 99 = Inapplicable, 1982-84 or 1986 NHEFS decedent Blank = Inapplicable, not interviewed, or proxy respondent not needed.

DATA FROM 1992 NHEFS

NOTE: Positions 188 through 218 summarize the vital status, interview, and health care facility stay information collected at the 1992 NHEFS for each of the subjects who were at least 25 years old at the NHANES I examination who were not known to be deceased in the 1982-1984, 1986 or 1987 NHEFS. More detailed information with respect to these variables may be obtained from the 1992 NHEFS Interview, Health Care Facility Stay, and Mortality Data Public Use data tape documentation.

188	<u>Eligibility Code for 1992 NHEFS</u> 1 = Subject was not known to be deceased at 1982-84, 1986 or 1987 NHEFS 2 = 1982-84 NHEFS decedent 3 = 1986 NHEFS decedent 4 = 1987 NHEFS decedent
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1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
189-190	<u>Vital Status: 1992 NHEFS</u> 01 = Alive 03 = Deceased 04 = Unknown 05 = Alive, Direct contact with subject and no vital status verification was completed 06 = Alive, Someone other than the subject was spoken to and vital status was confirmed 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent
(191-196)	<u>Date Last Known Alive: 1992 NHEFS</u>
191-192	<u>Month</u> 01-12 = Month when last known alive 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent
193-194	<u>Day</u> 01-31 = Day when last known alive 98 = Don't know 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent
195-196	<u>Year</u> 71-93 = Year when last known alive (1971-1993) 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent

NOTE: The Date Last Known Alive is defined according to vital status (position 189-190) at the 1992 NHEFS. The determination for Date Last Known Alive for each vital status code follows.

Vital Status Codes

(01) If the subject was alive and an interview was obtained at the 1992 NHEFS, the Date Last Known Alive is the date when the 1992 NHEFS interview was conducted or the date when the subject's mail questionnaire was received.

or

If the subject was alive and the result of an attempted 1992 NHEFS interview was a nonresponse, the Date Last Known Alive is the date of the attempted interview or the date of last contact at the 1992 NHEFS.

(03) If the subject was identified as deceased in the 1992 NHEFS, the Date Last Known Alive is the date of death provided from a death certificate, a facility abstract, or a proxy interview (in that order of priority) obtained in the 1992 NHEFS.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

(04) If the subject had an unknown vital status in the 1982-84, 1986, 1987, and 1992 NHEFS surveys because the subject was never successfully traced or the subject's vital status could not be confirmed or the subject was identified as deceased but that information was obtained from an unconfirmed source, the Date Last Known Alive is the date of the NHANES I examination.

or

If the subject was successfully traced at the 1982-84, 1986 or 1987 NHEFS but then, in the 1992 NHEFS, either was not successfully traced or the subject's vital status could not be confirmed or the subject was identified as deceased and this information was obtained from an unconfirmed source, Date Last Known Alive is the date last known alive at the 1982-84, 1986 or 1987 NHEFS, depending on when the subject was last located.

(05) If the subject's vital status was confirmed either during tracing or during an attempt to complete an interview, but no interview was obtained, the Date Last Known Alive is the date of the vital status confirmation.

(06) If the subject was traced alive at the 1992 NHEFS but no direct contact was made with the subject, the Date Last Known Alive is the date tracing was conducted in the 1992 NHEFS.

(99) If the subject was identified as deceased in the 1982-84, 1986 or 1987 NHEFS, the Date Last Known Alive is coded as Inapplicable, (999999).

(197-202) Date of Interview: 1992 NHEFS

NOTE: The Date of Interview is the date when the subject or proxy interview was conducted or the date when the mail questionnaire was received in the 1992 NHEFS.

197-198

Month

- 01-12 = Month of interview
- 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent
- Blank = Inapplicable, not interviewed

199-200

Day

- 01-31 = Day of interview
- 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent
- Blank = Inapplicable, not interviewed

201-202

Year

- 92-93 = Year of interview (1992-1993)
- 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent
- Blank = Inapplicable, not interviewed

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
203-204	<u>Age at Interview: 1992 NHEFS</u> 42-96 = Age at interview (in years) 97 = Proxy interview: subject deceased at 1992 NHEFS 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent Blank = Inapplicable, not interviewed
205-206	<u>Interview Disposition: 1992 NHEFS</u> 01 = Final complete 02 = Partial complete 03 = Refusal/breakoff 05 = Other (Not available during field period, language problem, etc.) 06 = No proxy 07 = Not traced/traced but lost prior to interview 08 = Out of country 09 = Mail 99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent

NOTE: An interview disposition of partial complete (code 02) indicates that the respondent broke off the interview in the 1992 NHEFS at some point after completing section A (Background Information) of the questionnaire and did not complete the remainder of the interview. Furthermore, it indicates that the respondent provided information on at least one facility stay for the subject in section B (Medical Conditions) of the questionnaire or completed a substantive part of section B, if the respondent did not fully complete that section.

An interview disposition of refusal/breakoff (code 03) indicates that a 1992 NHEFS interview was not administered or the respondent broke off the interview before completing section A or the respondent broke off the interview early into section B without providing information on any facility stays for the subject. In the latter two cases, the interviews were not coded.

Interview information is available on the 1992 NHEFS Interview Public Use Data tape only for respondents with interview disposition codes of final complete (code 01), partial complete (code 02), or mail questionnaire (code 09).

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
207	<u>Questionnaire Type: 1992 NHEFS Interview</u> 1 = Completed subject questionnaire 2 = Completed proxy questionnaire (subject incapacitated; questionnaire administered to a proxy respondent) 3 = Completed proxy questionnaire (subject deceased) 4 = Partially completed subject questionnaire 5 = Partially completed proxy questionnaire (subject incapacitated; questionnaire administered to proxy respondent) 6 = Partially completed proxy questionnaire (subject deceased) 9 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent Blank = Inapplicable, not interviewed
208	<u>Method of Data Collection: 1992 NHEFS Interview</u> 1 = Telephone 2 = Mail 9 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent Blank = Inapplicable, not interviewed
209-212	<u>Blank</u>
213	<u>Hospital Stay Record Flag: 1992 NHEFS</u> 1 = Subject has hospital stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape and at least one of these records has hospital abstract information 2 = Subject has hospital stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape but none of these records have hospital abstract information 3 = Subject has stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape but none of these records are for hospital stays 9 = Inapplicable, 1982-84, 1986, or 1987 NHEFS decedent Blank = Subject has no stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape
214	<u>Nursing Home Stay Record Flag: 1992 NHEFS</u> 1 = Subject has nursing home stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape and at least one of these records has nursing home abstract information 2 = Subject has nursing home stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape but none of these records have nursing home abstract information 3 = Subject has stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape but none of these records are for nursing home stays 9 = Inapplicable, 1982-84, 1986, or 1987 NHEFS decedent Blank = Subject has no stay record(s) on the 1992 NHEFS Health Care Facility Stay Public Use data tape

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
215	<p><u>Migration Status: 1992 NHEFS</u></p> <ul style="list-style-type: none">1 = State of residence changed since last contact2 = No change in state of residence since last contact9 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent <p>Blank = Subject lost to followup or subject deceased and death certificate not available</p> <p>NOTE: This variable was created by comparing the state of residence at 1992 NHEFS with the state of residence at last contact. Residence information is obtained from either administrative records or the state of death obtained from the death certificate.</p>
216	<p><u>Spanish Interview: 1992 NHEFS</u></p> <ul style="list-style-type: none">1 = Interview conducted in Spanish2 = Interview not conducted in Spanish9 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent <p>Blank = Inapplicable, not interviewed</p>
217-218	<p><u>Relationship of Proxy to Deceased or Incapacitated Subject: 1992 NHEFS</u></p> <ul style="list-style-type: none">01 = Husband/wife02 = Father/mother03 = Father-in-law/mother-in-law05 = Son/daughter06 = Son-in-law/daughter-in-law07 = Grandchild08 = Brother/sister09 = Brother-in-law/sister-in-law10 = Aunt/uncle/cousin11 = Niece/nephew12 = Roommate/friend/neighbor91 = Other specified relative/relative-in-law92 = Other specified nonrelative99 = Inapplicable, 1982-84, 1986 or 1987 NHEFS decedent <p>Blank = Inapplicable, not interviewed, or proxy respondent not needed.</p>

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position Variable Description and Codes

ADDITIONAL DEMOGRAPHIC VARIABLES

- 219 NHANES I Subsample
 1 = Nutrition sample, Locations 1-65
 2 = Detailed sample, Locations 1-65
 3 = Augmented sample, Locations 66-100

NOTE: This variable was created from NHANES I Baseline tape positions 170-187. It identifies which components of the NHANES I Baseline Survey each respondent received. For more detailed information concerning these three subgroups, see Vital and Health Statistics, Series 1, Numbers 10a, 10b, and 14.

(220-255) Sample Weights

NOTE: For more detailed information concerning these statistical weights, see Vital and Health Statistics, Series 1 Numbers 10a, 10b, 14, and the detailed notes in the NHANES I Public Use data tape documentation. The NHANES I Sample Weights are extracted from the NHANES I Baseline tape positions 158-193.

220-225 Detailed Persons - Locations 1-35

226-231 All Sample Persons - Locations 1-35

232-237 Detailed Persons - Locations 1-65

238-243 All Sample Persons - Locations 1-65

244-249 Detailed Persons - Locations 66-100

NOTE: All subjects in Locations 66-100 were part of the detailed sample.

250-255 Detailed Persons - Locations 1-100

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape Position</u>	<u>Variable Description and Codes</u>
(256-261)	<u>Revised Strata and Pseudo Primary Sampling Unit (PSU)</u> NOTE: Revised Strata and Pseudo PSU variables were created for use with NHANES I Public Use data to facilitate variance estimation. The original Strata and Pseudo PSU variables released with the NHANES I Public Use data tapes are located in tape positions 41-42 and 43-45 on this public use data tape. For more detailed information concerning the use of Strata and Pseudo PSUs in the analysis of NHANES I data see <u>Vital and Health Statistics</u> , Series 2, Number 92 and the detailed notes for the NHANES I Public Use Data tape documentation.
256-257	<u>Revised Strata</u> ¹ 01-22 = Strata
258	<u>Revised Pseudo Primary Sampling Unit</u> ¹ 1-3 = Pseudo primary sampling unit
259-260	<u>Revised Strata</u> ² 01-35 = Strata
261	<u>Revised Pseudo Primary Sampling Unit</u> ² 1-3 = Pseudo primary sampling unit

¹Use only for producing variance estimates for examination locations 1-35 or 66-100.

²Use only for producing variance estimates for examination locations 1-65 or 1-100.

NOTE: For more detailed information concerning the use of statistical weights, Strata, and Pseudo PSUs in the analysis of NHANES I data, see Vital and Health Statistics, Series 2, Number 92 and the detailed notes for the NHANES I Public Use data tape documentation.

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

Tape
Position

Variable Description and Codes

262 Poverty Area Indicator at NHANES I Examination

- 1 = Poverty area
- 2 = Non-poverty area
- 3 = Augmentation sample

NOTE: This variable indicates whether the subject's household was located in a poverty area during the NHANES I examination period. Poverty areas were defined using census enumeration districts (ED) or segment areas (a cluster of households). The census designation of "current poverty area" is described in detail in Appendix I, Vital and Health Statistics, Series 1, Number 10a. Non-poverty areas were defined as all other ED's or segment areas not previously designated as current poverty areas by the Census Bureau.

The sampling design of the NHANES I included oversampling of persons living in poverty areas during the first stage of the data collection period (1971-1973). The NHANES I study was then extended through 1974-1975 to include an augmentation sample for which there was no oversampling in poverty areas and therefore, no information regarding household location is available for this group.

263-264 State of Residence at NHANES I Examination

AK-WY = State of residence (Appendix A)

265-266 State of Residence at 1982-84 NHEFS

- AK-WY = State of residence (Appendix A)
- XX = Out of country
- 99 = Inapplicable, subject deceased or lost to followup in 1982-84 NHEFS
- Blank = Not ascertained

267-268 State of Residence at 1986 NHEFS

- AK-WY = State of residence (Appendix A)
- XX = Out of country
- 98 = Not eligible, subject's age less than 55 at exam
- 99 = Inapplicable, subject deceased or lost to followup in 1986 NHEFS
- Blank = Not ascertained

269-270 State of Residence at 1987 NHEFS

- AK-WY = State of residence (Appendix A)
- XX = Out of country
- 99 = Inapplicable, subject deceased or lost to followup in 1987 NHEFS
- Blank = Not ascertained

1992 NHEFS VITAL AND TRACING DATA TAPE DOCUMENTATION

<u>Tape</u> <u>Position</u>	<u>Variable Description and Codes</u>
271-272	<u>State of Residence at 1992 NHEFS</u> AK-WY = State of residence (Appendix A) XX = Out of country 99 = Inapplicable, subject deceased or lost to followup in 1992 NHEFS Blank = Not ascertained

Appendix A

STATE OF RESIDENCE

AL	=	ALABAMA	NV	=	NEVADA
AK	=	ALASKA	NH	=	NEW HAMPSHIRE
AZ	=	ARIZONA	NJ	=	NEW JERSEY
AR	=	ARKANSAS	NM	=	NEW MEXICO
CA	=	CALIFORNIA	NY	=	NEW YORK STATE
CO	=	COLORADO	YC	=	NEW YORK CITY
CT	=	CONNECTICUT	NC	=	NORTH CAROLINA
DE	=	DELAWARE	ND	=	NORTH DAKOTA
DC	=	DISTRICT OF COLUMBIA	OH	=	OHIO
FL	=	FLORIDA	OK	=	OKLAHOMA
GA	=	GEORGIA	OR	=	OREGON
HI	=	HAWAII	PA	=	PENNSYLVANIA
ID	=	IDAHO	PR	=	PUERTO RICO
IL	=	ILLINOIS	RI	=	RHODE ISLAND
IN	=	INDIANA	SC	=	SOUTH CAROLINA
IA	=	IOWA	SD	=	SOUTH DAKOTA
KS	=	KANSAS	TN	=	TENNESSEE
KY	=	KENTUCKY	TX	=	TEXAS
LA	=	LOUISIANA	UT	=	UTAH
ME	=	MAINE	VT	=	VERMONT
MD	=	MARYLAND	VA	=	VIRGINIA
MA	=	MASSACHUSETTS	WA	=	WASHINGTON
MI	=	MICHIGAN	WV	=	WEST VIRGINIA
MN	=	MINNESOTA	WI	=	WISCONSIN
MS	=	MISSISSIPPI	WY	=	WYOMING
MO	=	MISSOURI	XX	=	OUT OF COUNTRY
MT	=	MONTANA	ZZ	=	UNKNOWN
NE	=	NEBRASKA			

