National Health and Nutrition Examination Survey 2001–2002

Documentation, Codebook, and Frequencies

Dietary Interview – Individual Foods

Survey Years:
2001 to 2002

SAS Transport File:
DRXIFF_B.XPT

nhanes

NHANES 2001-2002 Data Release
First Published: September 2004
Last Revised: November 2007

Dietary Interview - Individual Foods (DRXIFF_B)

Survey Years Included in this File: 2001-2002

Component Description:

The objective of the dietary interview component is to obtain detailed dietary intake information from the NHANES participants. The dietary intake data are used to estimate the types and amounts of foods and beverages consumed during the 24-hour period prior to the interview (midnight to midnight), and to estimate intakes of energy, nutrients, and other food components from those foods and beverages. Following the dietary recall, respondents are asked questions on water consumption during the previous 24-hour period, salt use, and whether the person's intake on the previous day was usual or unusual. Children 1 to 5 years old and women 16 to 49 years old are also asked about their frequency of fish and shellfish consumption during the past 30 days.

This release of the dietary intake data represents, for the first time, the integration of two nationwide dietary intake surveys - USDA's Continuing Survey of Food Intakes by Individuals (CSFII) and DHHS's National Health and Nutrition Examination Survey (NHANES). This new integrated dietary component is collected as part of NHANES and is called **What We Eat in America**. Under the integrated framework, DHHS is responsible for the sample design and data collection and USDA is responsible for the survey's dietary data collection methodology, maintenance of the databases used to code and process the data, and data review and processing.

Survey integration of dietary data collection began in NHANES 2002. Because NHANES is on a two-year data release cycle, this first release of the integrated survey includes dietary data collected in 2001 from NHANES plus the data from the integrated survey collected in 2002. Collection and processing procedures for the two years were similar. Differences between the two years, along with steps taken to reconcile these differences, are discussed in this document.

Data collection for the *What We Eat in America 2002* also included a second day recall that was collected by telephone. Because of confidentiality issues concerning the release of single-year data from NHANES, dietary data for the 2002 Day 2 telephone interview will not be publicly released. Only Day 1 interview data are included in the present release.

Restricted data, such as the 2002 Day 2 dietary data, may be made available at the Research Data Center located at the National Center for Health Statistics (NCHS)

headquarters in Hyattsville, MD. A research proposal for using the restricted data must be submitted to NCHS for review and approval. Instructions for requesting use of these data are available at http://www.cdc.gov/nchs/r&d/rdc.htm

Two data files were produced from the Day 1 dietary interview for this release:

1. Total Nutrient Intakes File (DRXTOT_B) that consists of daily total nutrient intakes from foods and beverages, total amount of water consumed, and frequency of fish and shellfish consumption for survey participants.

2. Individual Foods File (DRXIFF_B) that includes detailed information about the types and amounts of individual foods reported by each respondent, as well as amounts of nutrients from each food.

Nutrient intakes reported in these files do not include those obtained from dietary supplements, medications or plain drinking water.

This document provides additional details important to understanding the content of the Individual Foods File (DRXIFF_B). This file includes one record per food for each survey participant. Each record contains food-specific data (food code, food amount, time, eating occasion) and amounts of nutrients from each food in units appropriate to the nutrient. Food records are sequentially numbered.

Text descriptions for each food record are provided in a separate data file called Food Code Format File (DRXFMT_B). SAS code to link the Food Code Format File with the Individual Foods File or to obtain a list of formatted text labels of the food codes is provided in the documentation for the DRXFMT_B file. Expanded food descriptions can be found in the food descriptions component[1] of the USDA Food and Nutrient Database for Dietary Studies (FNDDS). The FNDDS[2] is available for free download from the Food Surveys Research Group (FSRG) website.

Information about total nutrient intakes and intake of plain water during the previous 24-hours is contained in a separate NHANES 2001-2002 dietary data file titled Total Nutrient Intakes File (DRXTOT_B).

Eligible Sample and Component-Specific Exclusions:

All NHANES examined survey participants are eligible for the dietary interview component. However, several questions that follow the 24-hour recall are only asked of a subset of survey participants. Frequency of fish and shellfish consumption is only reported for children 1-5 years old and women 16-49 years of age, and information on the use of table salt is only reported for participants 1 year and older.

Examination Protocol:

The examination protocol and data collection methods are fully documented in the NHANES Dietary Interviewers Procedures Manual. [3,4]

Proxy interviews were conducted for survey participants less than six years of age. Assisted interviews were conducted with survey participants 6 to 11 years of age. Dietary interviews were conducted in English and Spanish. Translators were used to conduct interviews in other languages.

The in-person interview was conducted in a private room in the NHANES mobile examination center (MEC). A set of standard measuring guides was available in the MEC dietary interview room for the respondent to use for reporting amounts of foods.

In 2001, dietary intake data were collected using the NHANES computer-assisted dietary interview system (CADI), which was also used to collect dietary data for the 1999-2000 collection period. The CADI is a multiple pass recall method which provides instructions to interviewers for recording information about foods. Additional information about the CADI system is provided in the NHANES 1999-2000 Dietary Interviewers Procedures Manual.[4]

In 2002, What We Eat in America data were collected using USDA's dietary data collection instrument, the Automated Multiple Pass Method (AMPM).[5] The AMPM was designed to provide a more efficient and accurate means of collecting intakes for large-scale national surveys. The AMPM is a fully computerized recall method that includes an extensive compilation of standardized food-specific questions and possible response options. It features automated routing of questions based on previous answers. The AMPM is updated yearly to capture the changing food supply and to address research needs from the data user community. Additional information about the AMPM is provided in Raper et al. (2004). [6]

Quality Control during Data Collection:

All dietary interviewers had to complete an intensive one-week training course followed by supervised interview practices before working independently in the field. Retraining sessions were conducted periodically and annually to reinforce the proper protocols and technique.

Interviewers were monitored throughout the data collection period. Monitoring consisted of the following:

- Reviews of data transmittal sheets to verify receipt of data files.
- Reviews of audio taped interviews for approximately 5% of each interviewer's work; in-person observations were also conducted periodically.

- Interviews were checked for completeness of the recalls, missing information, inconsistent reports, and unclear notes. Written notification and feedback were provided to the interviewers.

In 2001, interviewers reviewed each interview after completion, performing appropriate edits. Interviewers were not required to review interviews collected in 2002 using the USDA's AMPM because quality control features are built into the software. Incorrect entries are minimized due to automated routing of questions and built-in edits.

Data Processing and Editing:

Two similar systems were used to code the intake data for 2001 and 2002. The University of Texas Food Intake Analysis System (FIAS, version 3.99) was used for coding intakes for 2001. For 2002, interview files were imported into Survey Net, a computer-assisted food coding and data management system developed by USDA.[6] FIAS is a general-use version of the Survey Net software that is available to researchers through the University of Texas.[7]

The USDA FNDDS, version 1,[2] was used for processing the intakes for 2001-2002. The FNDDS includes comprehensive information that can be used to code individual foods and portion sizes and contains nutrient values for calculating nutrient intakes. The FNDDS is available for use in research projects using the 2001-2002 food intake data and in other food intake studies, as well. Additional information [6, 8] about the FNDDS and related tools is available at the FSRG website.

Coders were monitored to ensure quality and completeness. Approximately 10 percent of the coder's work was double-coded and adjudicated, if necessary.

After intake data were coded, various types of reviews were conducted to ensure the quality of the data, including:

- Overall acceptability of each recall. This review determined if the recall met minimum criteria.

  Minimum criteria for the 2001 data collection included the following:
    1. Less than 25% of the foods with missing descriptive information.
    2. Less than 15% of the foods with missing amounts.
    3. Any meal reported must have at least one identified food.

  Minimum criteria for 2002 data collection included the following:
    1. The first 4 steps of the 5-step AMPM were completed. Because the AMPM includes automated routing of questions, missing descriptive or amount information cannot occur.
    2. Foods consumed for each reported meal must be identified.

- Interviewers' and coders' questions and comments were reviewed to ensure that they had been accounted for in coding.

- Resolution of unknown foods or food quantities that were reported by respondents but could not be coded to foods in the database.

- Specific edit checks for reasonableness, consistency, and logic. Examples are meals reported at unusual times and extremely large quantities of foods.

- Intakes with extreme levels for individual nutrients.

An overview of quality assurance procedures conducted during the data processing stage is available at the FSRG website.[9]

During data processing, the following edits were made to ensure the logical consistency and analytic usefulness of the data:

1. Adjusted sodium values for certain foods

Sodium values for home-prepared foods are based on the sodium values of recipe ingredients in the FNDDS. The amount of salt in recipes was reduced, or eliminated, in some cases based on questions about salt use in the dietary interview.

2. Derived "eaten at home" variable (DRD040Z)

The question "Was this meal/snack eaten at home?" was included in the 2002 interview, but not in the 2001 interview. The answer to this question in 2001 was derived from the answer to a question about where each food was consumed. If the answer was anything other than "home" for any food reported in an eating occasion, then the "eaten at home" variable was coded as "no".

3. Foods eaten in combination

Foods eaten in combination with other foods, such as cereal with milk, are flagged with a combination food number (DRXCCMNM). Foods flagged with the same combination food number at a given meal were eaten together. Foods are categorized by a combination type code (DRDCCMTZ).

Component-Specific Analytic Notes:

The analytic guidelines[10] provided with the 2001-2002 NHANES data release recommend combining 2-year cycles, such as 1999-2000 and 2001-2002, to increase sample size and analytic options. However, the guidelines also advise that the user

should verify that data items were collected and reported in a comparable manner in all combined years. Thus, before combining the 1999-2000 and 2001-2002 dietary data, researchers should carefully consider the following information. Between these two time periods, nutrient values for many foods were revised, based on improvements in sampling and analyzing foods. Also, values for new nutrients and food components became available, and units of expression for some existing nutrients were changed. NHANES 2001-2002 nutrient intakes were calculated using USDA's FNDDS version 1.0,[2] which contains the most up-to-date food composition values available for this time frame. NHANES 1999-2000 nutrient intakes were calculated using an earlier version of the database, the USDA 1994-1998 Survey Nutrient Database.[11, 12] Thus, analyzing merged intake data for these two data sets should be carefully considered for each nutrient. Analyses conducted based on changes in the nutrient databases show that the impact can be significant depending on the nutrient. [13, 14]

The Individual Foods File is comprised of food records. In most cases, there are multiple records in the file per survey participant. This file can be linked with other NHANES files by the respondent sequence number (SEQN).

A status code (DRDDRSTZ) is used in the NHANES 2001-2002 dietary interview component to indicate the quality and completeness of the response to the dietary recall section. The dietary recall section status is coded as one of the following:

1. Reliable and met the minimum criteria

2. Not reliable or not met the minimum criteria

   No data on total nutrient intake or individual food consumption is provided for these cases.

4. Reported consuming breast-milk

   Human milk was reported in some dietary recalls. Few respondents could quantify the human milk intake for their breast-fed infants/children. For those cases, no total nutrient intakes were derived. The foods consumed by nursing infants and children are reported in the Individual Foods File.

5. Not Done.

   The dietary recall section of the interview did not take place due to various reasons (such as came late/left early, refusal, illness, emergency, or equipment failure).

In 2002, a question on the source of each food (where it was obtained, such as store, fast food restaurant, cafeteria) was asked. Because this question was not asked in 2001, the source of each food for 2002 dietary interviews will not be publicly released

but may be accessible through the NCHS Research Data Center. Instructions for requesting use of these data at the NCHS Data Research Center are available at http://www.cdc.gov/nchs/r&d/rdc.htm

Sample weights for dietary intake data: The NHANES participants were selected on the basis of a national probability design. In order to increase the number of participants for specific demographic groups, a multi-stage, unequal probability of selection design was implemented. The NHANES oversamples blacks, Mexican Americans, low income whites, adolescents 12-19 years, and persons 60 years and older. Sample weights are constructed that encompass the unequal probabilities of selection, as well as adjustments for non-participation by selected sample persons. In order to produce national, representative estimates, the appropriate sample weights must be used.

For the 2001-2002 NHANES, there were 13,156 persons selected; of these 10,477 were considered respondents to the MEC examination and data collection. However, only 9,883 of the MEC respondents provided complete dietary intakes.

Most analyses of NHANES data use data collected in the MEC and the variable WTMEC2YR should be used for the sample weights. However, for the dietary data, different sample weights are recommended for analysis. Although attempts are made to schedule MEC exams uniformly throughout the week, proportionally more exams occur on weekend days than on weekdays. Because food intake can vary by day of week, use of the MEC weights would disproportionately represent intakes on weekends.

A set of weights WTDRD1 is provided that should be used when an analysis uses the NHANES 2001-2002 dietary recall data (either alone or when nutrient data are used in conjunction with MEC data). The set of weights WTDRD1 is applicable to the 9,883 respondents with dietary data. The weights WTDRD1 were constructed by taking the MEC sample weights (WTMEC2YR) and further adjusting for (a) the additional non-response and (b) the differential allocation by day of the week for the dietary intake data collection. These weights are more variable than the MEC weights, and the sample size is smaller, so estimated standard errors using dietary data and dietary weights are larger than standard errors for similar estimates based on MEC weights.

Note that all sample weights are person-level weights and each set of weights should add to the same population control total as the MEC weights (WTMEC2YR). In addition, the MEC weights (WTMEC2YR) are appropriate for use in the analysis of the fish and shellfish consumption data (i.e., variables DRD340, DRD350A-K, DRD350AQ-JQ, DRD360, DRD370A-V, and DRD370AQ-UQ) and the use of table salt data (i.e., variables DBQ095 and DBD100) located in the Total Nutrient Intake File (DRXTOT_B), if no other dietary data are included in the analysis. Additional

explanation of sample weights and appropriate uses are included in the **NHANES Analytic and Reporting Guidelines**.[10] Please also refer to the Analytic Guidelines for further details on other analytic issues at: http://www.cdc.gov/nchs/about/major/nhanes/nhanes2003-2004/analytical_guidelines.htm.

Data Access:

The Individual Foods File (DRXIFF_B) is publicly available at http://www.cdc.gov/nchs/about/major/nhanes/nhanes01-02.htm

Reference:

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NCHS Locator Fields

Title: Dietary Interview – Individual Foods (DRXIFF_B)

Contact Number: 1-866-441-NCHS

Years of Content: 2001–2002

First Published: September 2004

Revised: November 2007

Access Constraints: None

Use Constraints: None

Geographic Coverage: National

Subject: What We Eat in America: Individual Foods File

Record Source: NHANES 2001–2002

Survey Methodology: NHANES 2001–2002 is a stratified multistage probability sample of the civilian non-institutionalized population of the U.S.

Medium: NHANES Web site; SAS transport files

National Health and Nutrition Examination Survey
Codebook for Data Production (2001-2002)

Dietary Interview - Individual Foods (DRXIFF_B)

First Published: September 2004
Last Revised: November 2007

SEQN	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Respondent sequence number

English Text: Respondent sequence number.

English Instructions: One of the key variables for the file. Primary key variables: SEQN and DRXILINE

DRXILINE	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Food/individual component number

English Text: Food/individual component number

English Instructions: One of the key variables for the file. Primary key variables: SEQN and DRXILINE

Code or Value	Description	Count	Cumulative	Skip to Item
1 to 46	Range of Values	143004	143004	
.	Missing	0	143004	

WTDRD1	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Dietary day one sample weight

English Text: Dietary day one sample weight

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
617.86932978 to 341097.23732	Range of Values	143004	143004	
.	Missing	0	143004	

DRDDRSTZ	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Dietary recall status

English Text: Dietary recall status

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
1	Reliable and met the minimum criteria	140817	140817	
2	Not reliable or not met the minimum criteria	0	140817	
4	Reported consuming breast-milk	2187	143004	
5	Not done	0	143004	
.	Missing	0	143004	

DRDDAY	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Intake day of week

English Text: Intake day of the week

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
1	Sunday	24166	24166	
2	Monday	11635	35801	
3	Tuesday	9686	45487	
4	Wednesday	14947	60434	
5	Thursday	14682	75116	
6	Friday	36467	111583	
7	Saturday	31421	143004	
.	Missing	0	143004	

DRALANG	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Language SP/Proxy used mostly

English Text: The SP/Proxy spoke mostly:

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
1	English	125958	125958	
2	Spanish	14391	140349	
3	English and Spanish	1304	141653	
4	Other	164	141817	
.	Missing	1187	143004	

DRXCCMNM	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Combination food number

English Text: Combination food number

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 11	Range of Values	143004	143004	
.	Missing	0	143004	

DRDCCMTZ		Target		
		B(0 Yrs. to 150 Yrs.)		
Hard Edits		**SAS Label**		
		Combination food type		

English Text: Combination food type

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0	Non-combination food	71938	71938	
1	Beverage w/ adds	9964	81902	
2	Cereal w/ adds	7873	89775	
3	Bread/baked products w/ adds	7871	97646	
4	Salad	5889	103535	
5	Sandwiches	17733	121268	
6	Soup	933	122201	
7	Frozen meals	148	122349	
8	Ice cream/frozen yogurt w/ additions	635	122984	
9	Dried beans and vegetable w/ adds	5725	128709	
10	Fruit w/ adds	699	129408	
11	Tortilla Products	4194	133602	
12	Meat, poultry, fish	3683	137285	
13	Lunchables	153	137438	
90	Other mixtures	5566	143004	
.	Missing	0	143004	

DRD020	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Time of eating occasion (HH:MM)

English Text: What time did you begin to eat/drink the meal/food?

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
00:00 to 23:59	Range of Values	143004	143004	
.	Missing	0	143004	

DRD030Z	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Name of eating occasion

English Text: Name of eating occasion

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
1	Breakfast	25398	25398	
2	Lunch	30708	56106	
3	Dinner/supper	38283	94389	
5	Brunch	1669	96058	
6	Snack/beverage	30873	126931	
8	Infant feeding	3268	130199	
9	Extended consumption	2299	132498	
10	Desayano (Spanish)	1639	134137	
11	Almuerzo (Spanish)	1369	135506	
12	Comida (Spanish)	2834	138340	
13	Merienda (Spanish)	644	138984	
14	Cena (Spanish)	2233	141217	
15	Entre comida/bebida/tentempie (Spanish)	962	142179	
16	Botana (Spanish)	329	142508	
17	Bocadillo (Spanish)	402	142910	
91	Other	92	143002	
99	Don't know	2	143004	
.	Missing	0	143004	

DRD040Z	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Was this food eaten at home?

English Text: Was this food eaten at home?

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
1	Yes	95394	95394	
2	No	45684	141078	
.	Missing	1926	143004	

DRDIFDCD	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	USDA food code

English Text: USDA food code

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
11000000 to 94000000	Range of Values	143004	143004	
.	Missing	0	143004	

DRXIGRMS	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Grams

English Text: Gram weight of the food/individual component

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0.02 to 9360	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIKCAL	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Energy (kcal)

English Text: Energy (kcal)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 5384	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIPROT	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Protein (gm)

English Text: Protein (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 637.52	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXICARB	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Carbohydrate (gm)

English Text: Carbohydrate (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 754.14	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXISUGR	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Total sugars (gm)

English Text: Total sugars (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 631.75	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIFIBE	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Dietary fiber (gm)

English Text: Dietary fiber (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 71.9	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXITFAT	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Total fat (gm)			
English Text: Total fat (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 347.73	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXISFAT	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Total saturated fatty acids (gm)			
English Text: Total saturated fatty acids (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 100.302	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIMFAT	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Total monounsaturated fatty acids (gm)			
English Text: Total monounsaturated fatty acids (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 176.907	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIPFAT	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Total polyunsaturated fatty acids (gm)			
English Text: Total polyunsaturated fatty acids (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 91.63	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXICHOL	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Cholesterol (mg)

English Text: Cholesterol (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 1859	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIATOC	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Vitamin E as alpha-tocopherol (mg)

English Text: Vitamin E as alpha-tocopherol (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 89.44	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIRET	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Retinol (mcg)

English Text: Retinol (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 30961	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIVARA	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Vitamin A, RAE (mcg)

English Text: Vitamin A as retinol activity equivalents (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 31025	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIACAR	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Alpha-carotene (mcg)

English Text: Alpha-carotene (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 30741	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIBCAR	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Beta-carotene (mcg)

English Text: Beta-carotene (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 65865	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXICRYP	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Beta-cryptoxanthin (mcg)

English Text: Beta-cryptoxanthin (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 3534	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXILYCO	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Lycopene (mcg)

English Text: Lycopene (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 142478	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXILZ	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Lutein + zeaxanthin (mcg)			
English Text: Lutein + zeaxanthin (mcg)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 67174	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIVB1	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Thiamin (Vitamin B1) (mg)			
English Text: Thiamin (Vitamin B1) (mg)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 10.269	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIVB2	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Riboflavin (Vitamin B2) (mg)			

English Text: Riboflavin (Vitamin B2) (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 14.329	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXINIAC	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Niacin (mg)			

English Text: Niacin (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 132.5	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIVB6	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Vitamin B6 (mg)			
English Text: Vitamin B6 (mg)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 21.732	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIFOLA	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Total Folate (mcg)			
English Text: Total Folate (mcg)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 2667	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIFA	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Folic acid (mcg)

English Text: Folic acid (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 2604	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIFF	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Food folate (mcg)

English Text: Food folate (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 1324	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIFDFE	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Folate, DFE (mcg)

English Text: Folate as dietary folate equivalents (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 4488	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIVB12	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Vitamin B12 (mcg)

English Text: Vitamin B12 (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 333.05	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIVC	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Vitamin C (mg)

English Text: Vitamin C (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 1156.1	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIVK	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Vitamin K (mcg)

English Text: Vitamin K (mcg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 2933.3	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXICALC	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Calcium (mg)

English Text: Calcium (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 9314	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIPHOS	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Phosphorus (mg)

English Text: Phosphorus (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 7483	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIMAGN	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Magnesium (mg)			

English Text: Magnesium (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 1028	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIIRON	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Iron (mg)			

English Text: Iron (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 121.04	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIZINC	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Zinc (mg)

English Text: Zinc (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 281.4	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXICOPP	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Copper (mg)

English Text: Copper (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 58.455	Range of Values	141931	141931	
.	Missing	1073	143004	

DRDISODI	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Sodium (mg)

English Text: Sodium (mg)(adjusted for salt use in food preparation)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 16746	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIPOTA	Target
	B(0 Yrs. to 150 Yrs.)
Hard Edits	**SAS Label**
	Potassium (mg)

English Text: Potassium (mg)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 11941	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXISELE	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	SAS Label			
	Selenium (mcg)			
English Text: Selenium (mcg)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 838.7	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXICAFF	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	SAS Label			
	Caffeine (mg)			
English Text: Caffeine (mg)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 3197	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXITHEO	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Theobromine (mg)			
English Text: Theobromine (mg)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 1423	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIALCO	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	Alcohol (gm)			
English Text: Alcohol (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 538.5	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIMOIS	Target
	B(0 Yrs. to 150 Yrs.)

Hard Edits	SAS Label
	Moisture (gm)

English Text: Moisture (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 8910.72	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS040	Target
	B(0 Yrs. to 150 Yrs.)

Hard Edits	SAS Label
	SFA 4:0 (Butanoic) (gm)

English Text: SFA 4:0 (Butanoic) (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 6.368	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS060	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	SFA 6:0 (Hexanoic) (gm)			

English Text: SFA 6:0 (Hexanoic) (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 3.184	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS080	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	SFA 8:0 (Octanoic) (gm)			

English Text: SFA 8:0 (Octanoic) (gm)

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 3.72	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS100	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	SFA 10:0 (Decanoic) (gm)			
English Text: SFA 10:0 (Decanoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 3.98	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS120	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	SFA 12:0 (Dodecanoic) (gm)			
English Text: SFA 12:0 (Dodecanoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 17.404	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS140	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	SFA 14:0 (Tetradecanoic) (gm)			
English Text: SFA 14:0 (Tetradecanoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 14.63	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS160	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	SFA 16:0 (Hexadecanoic) (gm)			
English Text: SFA 16:0 (Hexadecanoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 46.788	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIS180	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	SFA 18:0 (Octadecanoic) (gm)			
English Text: SFA 18:0 (Octadecanoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 23.635	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIM161	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	MFA 16:1 (Hexadecenoic) (gm)			
English Text: MFA 16:1 (Hexadecenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 7.334	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIM181	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	MFA 18:1 (Octadecenoic) (gm)			
English Text: MFA 18:1 (Octadecenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 168.5	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIM201	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	MFA 20:1 (Eicosenoic) (gm)			
English Text: MFA 20:1 (Eicosenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 17.849	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIM221	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	MFA 22:1 (Docosenoic) (gm)			
English Text: MFA 22:1 (Docosenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 25.281	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIP182	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	PFA 18:2 (Octadecadienoic) (gm)			
English Text: PFA 18:2 (Octadecadienoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 91.63	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIP183	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	PFA 18:3 (Octadecatrienoic) (gm)			
English Text: PFA 18:3 (Octadecatrienoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 8.639	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIP184	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	PFA 18:4 (Octadecatetraenoic) (gm)			
English Text: PFA 18:4 (Octadecatetraenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 0.485	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIP204	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	PFA 20:4 (Eicosatetraenoic) (gm)			
English Text: PFA 20:4 (Eicosatetraenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 1.538	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIP205	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	PFA 20:5 (Eicsapentaenoic) (gm)			
English Text: PFA 20:5 (Eicsapentaenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 4.108	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIP225	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	PFA 22:5 (Docosapentaenoic) (gm)			
English Text: PFA 22:5 (Docosapentaenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 1.456	Range of Values	141931	141931	
.	Missing	1073	143004	

DRXIP226	Target			
	B(0 Yrs. to 150 Yrs.)			
Hard Edits	**SAS Label**			
	PFA 22:6 (Docosahexaenoic) (gm)			
English Text: PFA 22:6 (Docosahexaenoic) (gm)				
English Instructions:				

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 4.287	Range of Values	141931	141931	
.	Missing	1073	143004	