

## Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

This is a code book for DHQ1.1998, the first version of the Diet History Questionnaire (DHQ) released by the National Cancer Institute (NCI). (Mark Reflex form number EW-213950-3.)

**DHQ1.2002 is the most recent version of the DHQ. It is available on the DHQ Web site:**  
<http://riskfactor.cancer.gov/DHQ>.

Use this code book as a guide when configuring your scanner or data entry system to create data files for DHQ1.1998 questionnaires. If you add or delete questions from the DHQ1.1998, then the column locations of your fields will differ from those specified here. In addition, the field length for the scanning information that appears before the first coded questionnaire response may vary according to what scanning equipment and software are used. The scanner used by the NCI to read the DHQ-1 forms creates a 50-character header. Your scanner may create a header of a different length. If so, modify this code book to reflect that difference.

For your convenience, this code book is available on the DHQ Web site in generic file formats that may be imported into various word-processing programs.

### **Format Definitions**

Many fields in the DHQ use the same coding scheme or format. For example, “How often did you eat...” questions are coded using one of several formats. The formats are set in the Questionnaire Data Dictionary (QDD). Future versions of Diet\*Calc will allow you to modify these formats.

Frequency formats are used for questions that ask “How often did you eat/drink....”

Size formats are used to code serving size questions, that is, “When you ate <food>, how much did you usually eat?” Specific gram amounts are assigned to each food in the foods database. Gram amounts for three portion sizes are provided in the foods database and are noted here as “small”, “medium”, “large”.

Marked/Unmarked Format is used when a single oval is used for a response. For example, some DHQ questions provide a list of foods and instruct the respondent to “mark as many as apply”. One character (typically ‘1’) indicates that the oval has been filled in; another character (typically ‘0’) indicates that the oval was left blank.

Proportion Formats are used to code questions that ask the respondent to specify how often (in fractions) the food was of a specific type. For example, the question “How often were your fruit drinks diet or sugar-free drinks?” has valid responses of “almost never or never”, “about ¼ of the time”, “about ½ of the time”, “about ¾ of the time”, and “almost always or always.”

Currently, the fractions used for questions that use the Proportion Format are fixed (0, 0.25, 0.5, 0.75, and 1 times the frequency). Future versions of Diet\*Calc will allow you to set the proportions.

Duration Format is used in supplement questions to indicate length of time, for example, “For how many years have you taken multi-vitamins?”

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### Frequency Format #1 (Beverages other than coffee/tea)

0 = 1 time per month or less  
1 = 2-3 times per month  
2 = 1-2 times per week  
3 = 3-4 times per week  
4 = 5-6 times per week  
5 = 1 time per day  
6 = 2-3 times per day  
7 = 4-5 times per day  
8 = 6 or more times per day  
M = Missing  
E = Error

### Frequency Format #2

0 = 1-6 times per year (or per winter, summer, season)  
1 = 7-11 times per year (or per winter, summer, season)  
2 = 1 time per month  
3 = 2-3 times per month  
4 = 1 time per week  
5 = 2 times per week  
6 = 3-4 times per week  
7 = 5-6 times per week  
8 = 1 time per day  
9 = 2 or more times per day  
M = Missing  
E = Error

### Frequency Format #4: (used for fats added at table)

0 = 1-6 times per year  
1 = 7-11 times per year  
2 = 1 time per month  
3 = 2-3 times per month  
4 = 1-2 times per week  
5 = 3-4 times per week  
6 = 5-6 times per week  
7 = 1 time per day  
8 = 2 times per day  
9 = 3 times per day or more  
M = Missing  
E = Error

### Frequency Format #3

0 = Less than 1 cup per month  
1 = 1-3 cups per month  
2 = 1 cup per week  
3 = 2-4 cups per week  
4 = 5-6 cups per week  
5 = 1 cup per day  
6 = 2-3 cups per day  
7 = 4-5 cups per day  
8 = 6 or more cups per day  
M = Missing  
E = Error

### Frequency Format #5: (supplements)

0 = Less than 1 day per month  
1 = 1-3 days per month  
2 = 1-3 days per week  
3 = 4-6 days per week  
4 = Every day  
M = Missing  
E = Error

### Frequency Format #6: (per week or day)

0 = Less than 1 per week  
1 = 1-2 per week  
2 = 3-4 per week  
3 = 5-6 per week  
4 = 1 per day  
5 = 2 per day  
6 = 3 per day  
7 = 4 per day  
8 = 5 or more per day  
M = Missing  
E = Error

## **Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)**

### **Size Format #1: (0 to 2 from top to bottom, M, E)**

0 = Small  
1 = Medium  
2 = Large  
M = Missing  
E = Error

### **Size Format #2: (used only in special cases—fats added to foods; see pages 11, 13, 15-18)**

0 = Did not usually add or never added  
1 = Small (less than 1 teaspoon or tablespoon)  
2 = Medium (1 to 3 teaspoons or tablespoons)  
3 = Large (more than 3 teaspoons or tablespoons)  
M = Missing  
E = Error

### **Marked / Unmarked Format:**

0 = Unmarked  
1 = Marked

### **Proportion Format**

0 = Almost never or never  
1 = About  $\frac{1}{4}$  of the time  
2 = About  $\frac{1}{2}$  of the time  
3 = About  $\frac{3}{4}$  of the time  
4 = Almost always or always  
M = Missing  
E = Error

### **Duration Format**

0 = Less than 1 year  
1 = 1-4 years  
2 = 5-9 years  
3 = 10 or more years  
M = Missing  
E = Error

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### Adding Questions to the DHQ

When adding questions to the DHQ, follow these guidelines to code the responses:

1. When the respondent is expected to mark one oval in a list, use one character to code the response. Typically, this would be a digit, 0 to n-1, where n = the number of possible choices. The DHQ-1 uses “M” to indicate a missing response, and “E” for an error (multiple marks when only one mark is appropriate). Diet\*Calc does permit other characters to be used. To select other characters, select **General Coding Rules** from the **Settings** menu of the dictionary editor.
2. Certain responses may need to be coded as printed on the questionnaire. For example, the year field in Today's Date has 5 choices. DHQ1.1998 used 4 character codes, “1998”, “1999”, etc. rather than “0”, “1”, and “2”. Use “MMMM” for missing and “EEEE” for error.
3. Questions using the Marked/Unmarked format use “0” when the oval is blank and “1” when the oval is filled in. The characters used for this format can be set in the **Settings** menu of the Diet\*Calc Dictionary Editor. (Missing and error codes are not applicable for these responses.)
4. If a multi-oval question has a partial response, code the ovals as they appear on the form. For example, if the first 5 digits in the social security number are properly marked (e.g., 12345) but the last 4 are left blank, you can code the digits in the first 5 places and Ms in the last 4 (the field would be coded as “12345MMMM”).

### Missing and Error Codes

A **missing character** indicates that the respondent skipped the question. An **error character** indicates that the respondent marked two or more responses to a question where only one answer was appropriate. The following guidelines must be used for coding fields as missing or error.

1. Letters or symbols (such as ‘\*’, ‘#’, or ‘!’ ) must be used as the missing and error characters. If letters are used to code formatted responses then symbols must be used. Missing and error characters may never be numeric.
2. When multiple characters are used to code a single oval, set all characters in the field to the missing character when skipped or to the error character when appropriate.

You may not use the same character to represent both the missing and the error characters. In the DHQ-1, ‘M’ and ‘E’ are the missing and error characters, respectively.

### DHQ Question Chart

Questionnaire Location: the page or question number on the questionnaire corresponding to the field.

Column: identifies the location of the field in each record of the questionnaire data file.

Field: describes the piece of information being collected.

Coding Scheme: the valid codes for the field, that is, the characters that the scanner (or data entry program) would write in the questionnaire data file for the field.

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## Questionnaire Page 1

Questionnaire Location	Column	Field	Coding Scheme
Scanner Header	1-3	Application Number	Specified by Form ID marks
Scanner Header	4-9	Serial Number	
Scanner Header	10-12	Batch Number	
Scanner Header	13-18	Date Scanned	MMDDYY
Scanner Header	19-21	Document #	For multi-document scans
Scanner Header	22-24	Edit Flags	When using edit profiles
Scanner Header	25-40	Scanning Flags	Indicates various scanning settings
Scanner Header	41-50	Lithocode ID	
Page 1	51-60	Respondent ID (Barcode ID)	
Page 1	61-62	Today's Date: Month	01 = Jan            08 = Aug 02 = Feb            09 = Sep 03 = Mar            10 = Oct 04 = Apr            11 = Nov 05 = May            12 = Dec 06 = Jun            MM = Missing 07 = Jul            EE = Error
Page 1	63	Today's Date: Day (1st Digit)	0 – 3 M = Missing E = Error
Page 1	64	Today's Date: Day (2nd Digit)	0 – 9 M = Missing E = Error
Page 1	65-68	Today's Date: Year	1998 1999 2000 2001 2002 MMMM = Missing EEEE = Error
Page 1	69-70	Date of Birth: Month	01 = Jan            08 = Aug 02 = Feb            09 = Sep 03 = Mar            10 = Oct 04 = Apr            11 = Nov 05 = May            12 = Dec 06 = Jun            MM = Missing 07 = Jul            EE = Error
Page 1	71-72	Date of Birth: Year (century)	19
Page 1	73	Date of Birth: Year (3 <sup>rd</sup> Digit)	0 – 9 M = Missing E = Error
Page 1	74	Date of Birth: Year (4 <sup>th</sup> Digit)	0 – 9 M = Missing E = Error
Page 1	75	Are you male or female?	0 = Male 1 = Female M = Missing E = Error

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## Questionnaire Page 2

Questionnaire Location	Column	Field	Coding Scheme
	76	Never: Tomato juice or veg juice	Marked / Unmarked Format
Question 1	77	Frequency: Tomato juice or veg juice	Frequency Format #1
Question 1a	78	Portion Size: Tomato juice or veg juice	Size Format #1
	79	Never: Orange juice or gf juice	Marked / Unmarked Format
Question 2	80	Frequency: Orange juice or gf juice	Frequency Format #1
Question 2a	81	Portion Size: Orange juice or gf juice	Size Format #1
	82	Never: Other fruit juice	Marked / Unmarked Format
Question 3	83	Frequency: Other fruit juice	Frequency Format #1
Question 3a	84	Portion Size: Other fruit juice	Size Format #1
	85	Never: Fruit Drinks: Hi-C, lemonade	Marked / Unmarked Format
Question 4	86	Frequency: Fruit Drinks: Hi-C, lemonade	Frequency Format #1
Question 4a	87	Portion Size: Fruit Drinks: Hi-C, etc.	Size Format #1
Question 4b	88	How often were fruit-drinks <b>diet</b>	Proportion Format
	89	Never: Milk (as a beverage)	Marked / Unmarked Format
Question 5	90	Frequency: Milk (as a beverage)	Frequency Format #1
Question 5a	91	Portion Size: Milk (as a beverage)	Size Format #1
Question 5b	92	What kind of milk did you usually drink?	0 = Whole milk 1 = 2% fat milk 2 = 1% fat milk 3 = Skim, non-fat, ½% fat milk 4 = Soy Milk 5 = Rice Milk 6 = Other M = Missing E = Error

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## Questionnaire Page 3

Questionnaire Location	Column	Field	Coding Scheme
Question 6	93	Never: Meal replacement	Marked / Unmarked Format
Question 6	94	Frequency: Meal replacement	Frequency Format #1
Question 6a	95	Portion Size: Meal replacement	Size Format #1
Question 7	96	Did you drink soft drinks (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 7a	97	Never: Soft drinks - in summer	Marked / Unmarked Format
Question 7a	98	Frequency: Soft drinks - in summer	Frequency Format #1
Question 7b	99	Never: Soft drinks - rest of year	Marked / Unmarked Format
Question 7b	100	Frequency: Soft drinks - rest of year	Frequency Format #1
Question 7c	101	Portion Size: Soft drinks	Size Format #1
Question 7d	102	How often were soft drinks <b>diet</b> or <b>sugar-free</b>	Proportion Format
Question 7e	103	How often were soft drinks <b>caffeine-free</b>	Proportion Format
Question 8	104	Did you drink beer (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 8a	105	Never: Beer - in summer	Marked / Unmarked Format
Question 8a	106	Frequency: Beer - in summer	Frequency Format #1
Question 8b	107	Never: Beer - rest of year	Marked / Unmarked Format
Question 8b	108	Frequency: Beer - rest of year	Frequency Format #1
Question 8c	109	Portion Size: Beer	Size Format #1

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## Questionnaire Page 4

Questionnaire Location	Column	Field	Coding Scheme
Question 9	110	Never: Wine, wine coolers	Marked / Unmarked Format
Question 9	111	Frequency: Wine, wine coolers	Frequency Format #1
Question 9a	112	Portion Size: Wine, wine coolers	Size Format #1
Question 10	113	Never: Liquor or mixed drinks	Marked / Unmarked Format
Question 10	114	Frequency: Liquor or mixed drinks	Frequency Format #1
Question 10a	115	Portion Size: Liquor or mixed drinks	Size Format #1
Question 11	116	Did you eat oatmeal (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 11a	117	Never: Oatmeal - in the winter	Marked / Unmarked Format
Question 11a	118	Frequency: Oatmeal - in the winter	Frequency Format #2
Question 11b	119	Never: Oatmeal - rest of year	Marked / Unmarked Format
Question 11b	120	Frequency: Oatmeal - rest of year	Frequency Format #2
Question 11c	121	Portion size: Oatmeal	Size Format #1
Question 12	122	Never: Cold cereal	Marked / Unmarked Format
Question 12	123	Frequency: Cold cereal	Frequency Format #2
Question 12a	124	Portion size: Cold cereal	Size Format #1
Question 12b	125	How often was it Total, Product 19, etc.?	Proportion Format
Question 12c	126	How often was it All Bran, Fiber One, etc.?	Proportion Format



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## Questionnaire Page 5

Questionnaire Location	Column	Field	Coding Scheme
Question 12d	127	How often was it some other bran or fiber cereal?	Proportion Format
Question 12e	128	How often was it some other type of cold cereal?	Proportion Format
Question 12f	129	Was milk added to your cereal?	0 = No 1 = Yes M = Missing E = Error
Question 12g	130	What kind of milk was usually added to cereal?	0 = Whole milk 1 = 2% fat milk 2 = 1% fat milk 3 = Skim, non-fat, ½% fat milk 4 = Soy Milk 5 = Rice Milk 6 = Other M = Missing E = Error
Question 12h	131	Portion Size: Milk On Cereal	Size Format #1
Question 13	132	Never: Applesauce	Marked / Unmarked Format
Question 13	133	Frequency: Applesauce	Frequency Format #2
Question 13a	134	Portion Size: Applesauce	Size Format #1
Question 14	135	Never: Apples	Marked / Unmarked Format
Question 14	136	Frequency: Apples	Frequency Format #2
Question 14a	137	Portion Size: Apples	Size Format #1
Question 15	138	Never: Pears	Marked / Unmarked Format
Question 15	139	Frequency: Pears	Frequency Format #2
Question 15a	140	Portion Size: Pears	Size Format #1
Question 16	141	Never: Bananas	Marked / Unmarked Format
Question 16	142	Frequency: Bananas	Frequency Format #2

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## Questionnaire Page 6

Questionnaire Location	Column	Field	Coding Scheme
Question 16a	143	Portion Size: Bananas	Size Format #1
Question 17	144	Never: Dried fruit	Marked / Unmarked Format
Question 17	145	Frequency: Dried fruit	Frequency Format #2
Question 17a	146	Portion Size: Dried fruit	Size Format #1
Question 18	147	Did you eat peaches, nectarines or plums (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 18a	148	Never: Peaches, nectarines, plums in season	Marked / Unmarked Format
Question 18a	149	Frequency: Peaches, nectarines, plums in season	Frequency Format #2
Question 18b	150	Never: Peach, nectarine, plums - rest of year	Marked / Unmarked Format
Question 18b	151	Frequency: Peach, nectarine, plums - rest of year	Frequency Format #2
Question 18c	152	Portion Size: Peaches, nectarines, plums	Size Format #1
Question 19	153	Never: Grapes	Marked / Unmarked Format
Question 19	154	Frequency: Grapes	Frequency Format #2
Question 19a	155	Portion Size: Grapes	Size Format #1
Question 20	156	Did you eat cantaloupe (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 20a	157	Never: Cantaloupe - in season	Marked / Unmarked Format
Question 20a	158	Frequency: Cantaloupe - in season	Frequency Format #2
Question 20b	159	Never: Cantaloupe - rest of year	Marked / Unmarked Format
Question 20b	160	Frequency: Cantaloupe - rest of year	Frequency Format #2

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## Questionnaire Page 7

Questionnaire Location	Column	Field	Coding Scheme
Question 20c	161	Portion size: Cantaloupe	Size Format #1
Question 21	162	Did you eat melon other than cantaloupe (in past 12 mos.)? (watermelon or honeydew)	0 = No 1 = Yes M = Missing E = Error
Question 21a	163	Never: Melon - in season (other than cantaloupe)	Marked / Unmarked Format
Question 21a	164	Frequency: Melon - in season	Frequency Format #2
Question 21b	165	Never: Melon - rest of year	Marked / Unmarked Format
Question 21b	166	Frequency: Melon - rest of year	Frequency Format #2
Question 21c	167	Portion Size: Melon	Size Format #1
Question 22	168	Did you eat strawberries (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 22a	169	Never: Strawberries - in season	Marked / Unmarked Format
Question 22a	170	Frequency: Strawberries - in season	Frequency Format #2
Question 22b	171	Never: Strawberries - rest of year	Marked / Unmarked Format
Question 22b	172	Frequency: Strawberries - rest of year	Frequency Format #2
Question 22c	173	Portion: Strawberries	Size Format #1
Question 23	174	Did you eat oranges, tangerines, or tangelos (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 23a	175	Never: Oranges - in season	Marked / Unmarked Format
Question 23a	176	Frequency: Oranges - in season	Frequency Format #2

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## Questionnaire Page 8

Questionnaire Location	Column	Field	Coding Scheme
Question 23b	177	Never: Oranges - rest of year	Marked / Unmarked Format
Question 23b	178	Frequency: Oranges - rest of year	Frequency Format #2
Question 23c	179	Portion Size: Oranges	Size Format #1
Question 24	180	Did you eat grapefruit (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 24a	181	Never: Grapefruit - in season	Marked / Unmarked Format
Question 24a	182	Frequency: Grapefruit - in season	Frequency Format #2
Question 24b	183	Never: Grapefruit - rest of year	Marked / Unmarked Format
Question 24b	184	Frequency: Grapefruit - rest of year	Frequency Format #2
Question 24c	185	Portion Size: Grapefruit	Size Format #1
Question 25	186	Never: Other Fruit	Marked / Unmarked Format
Question 25	187	Frequency: Other Fruit	Frequency Format #2
Question 25a	188	Portion Size: Other Fruit	Size Format #1
Question 26	189	Never: Cooked greens	Marked / Unmarked Format
Question 26	190	Frequency: Cooked greens	Frequency Format #2
Question 26a	191	Portion Size: Cooked greens	Size Format #1
Question 27	192	Never: Raw greens	Marked / Unmarked Format
Question 27	193	Frequency: Raw greens	Frequency Format #2
Question 27a	194	Portion Size: Raw greens	Size Format #1

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## Questionnaire Page 9

Questionnaire Location	Column	Field	Coding Scheme
Question 28	195	Never: Coleslaw	Marked / Unmarked Format
Question 28	196	Frequency: Coleslaw	Frequency Format #2
Question 28a	197	Portion Size: Coleslaw	Size Format #1
Question 29	198	Never: Sauerkraut or cabbage	Marked / Unmarked Format
Question 29	199	Frequency: Sauerkraut or cabbage	Frequency Format #2
Question 29a	200	Portion Size: Sauerkraut or cabbage	Size Format #1
Question 30	201	Never: Carrots	Marked / Unmarked Format
Question 30	202	Frequency: Carrots	Frequency Format #2
Question 30a	203	Portion Size: Carrots	Size Format #1
Question 31	204	Never: String beans or green beans	Marked / Unmarked Format
Question 31	205	Frequency: String beans or green beans	Frequency Format #2
Question 31a	206	Portion Size: String beans or green beans	Size Format #1
Question 32	207	Never: Peas	Marked / Unmarked Format
Question 32	208	Frequency: Peas	Frequency Format #2
Question 32a	209	Portion Size: Peas	Size Format #1
Question 33	210	Did you eat corn (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 33a	211	Never: Corn - in season	Marked / Unmarked Format
Question 33a	212	Frequency: Corn - in season	Frequency Format #2

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## Questionnaire Page 10

Questionnaire Location	Column	Field	Coding Scheme
Question 33b	213	Never: Corn - rest of year	Marked / Unmarked Format
Question 33b	214	Frequency: Corn - rest of year	Frequency Format #2
Question 33c	215	Portion Size: Corn	Size Format #1
Question 34	216	Never: Broccoli	Marked / Unmarked Format
Question 34	217	Frequency: Broccoli	Frequency Format #2
Question 34a	218	Portion Size: Broccoli	Size Format #1
Question 35	219	Never: Cauliflower or Brussels sprouts	Marked / Unmarked Format
Question 35	220	Frequency: Cauliflower or Brussels sprouts	Frequency Format #2
Question 35a	221	Portion Size: Cauliflower or Brussels sprouts	Size Format #1
Question 36	222	Never: Mixed vegetables	Marked / Unmarked Format
Question 36	223	Frequency: Mixed vegetables	Frequency Format #2
Question 36a	224	Portion Size: Mixed vegetables	Size Format #1
Question 37	225	Never: Onions	Marked / Unmarked Format
Question 37	226	Frequency: Onions	Frequency Format #2
Question 37a	227	Portion Size: Onions	Size Format #1
Question 38	228	Never: cooked vegetables with fat	Marked / Unmarked Format
Question 38	229	Frequency: cooked vegetables with fat	Frequency Format #2

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## Questionnaire Page 11

Questionnaire Location	Column	Field	Coding Scheme
Question 38a	230	Cooking Fat: Margarine	Marked / Unmarked Format
Question 38a	231	Cooking Fat: Butter	Marked / Unmarked Format
Question 38a	232	Cooking Fat: Lard	Marked / Unmarked Format
Question 38a	233	Cooking Fat: Olive Oil	Marked / Unmarked Format
Question 38a	234	Cooking Fat: Corn Oil	Marked / Unmarked Format
Question 38a	235	Cooking Fat: Canola Oil	Marked / Unmarked Format
Question 38a	236	Cooking Fat: Pam	Marked / Unmarked Format
Question 38a	237	Cooking Fat: Other oils	Marked / Unmarked Format
Question 38a	238	Cooking Fat: None of the above	Marked / Unmarked Format
Question 39	239	Never: Table fats	Marked / Unmarked Format
Question 39	240	Frequency: Table fats	Frequency Format #4
Question 39a	241	Table Fats: Margarine	Marked / Unmarked Format
Question 39a	242	Table Fats: Butter	Marked / Unmarked Format
Question 39a	243	Table Fats: Lard	Marked / Unmarked Format
Question 39a	244	Table Fats: Salad Dressing	Marked / Unmarked Format
Question 39a	245	Table Fats: Cheese Sauce	Marked / Unmarked Format
Question 39a	246	Table Fats: White Sauce	Marked / Unmarked Format
Question 39a	247	Table Fats: Other	Marked / Unmarked Format
Question 39b	248	Portion Size: Table fats (margarine, butter, lard, fatback, or bacon fat)	Size Format #2
Question 39c	249	Portion Size: Table fats (salad dressing, cheese sauce, white sauce)	Size Format #2
Question 40	250	Never: Sweet Peppers	Marked / Unmarked Format
Question 40	251	Frequency: Sweet Peppers	Frequency Format #2
Question 40a	252	Portion Size: Sweet Peppers	Size Format #1
Question 41	253	Did you eat fresh tomatoes (including in salads) in the past 12 months?	0 = No 1 = Yes M = Missing E = Error
Question 41a	254	Never: Fresh tomatoes - in season	Marked / Unmarked Format
Question 41a	255	Frequency: Fresh tomatoes - in season	Frequency Format #2
Question 41b	256	Never: Fresh tomatoes - rest of year	Marked / Unmarked Format
Question 41b	257	Frequency: Fresh tomatoes - rest of year	Frequency Format #2
Question 41c	258	Portion Size: Fresh tomatoes	Size Format #1

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## Questionnaire Page 12

Questionnaire Location	Column	Field	Coding Scheme
Question 42	259	Never: Lettuce salads	Marked / Unmarked
Question 42	260	Frequency: Lettuce salads	Frequency Format #2
Question 42a	261	Portion Size: Lettuce salads	Size Format #1
Question 43	262	Never: Salad dressing (including low-fat)	Marked / Unmarked
Question 43	263	Frequency: Salad dressing (including low-fat)	Frequency Format #2
Question 43a	264	Portion Size: Salad dressing	Size Format #1
Question 44	265	Never: Sweet potatoes and yams	Marked / Unmarked
Question 44	266	Frequency: Sweet potatoes and yams	Frequency Format #2
Question 44a	267	Portion Size: Sweet potatoes and yams	Size Format #1
Question 45	268	Never: French fries	Marked / Unmarked
Question 45	269	Frequency: French fries	Frequency Format #2
Question 45a	270	Portion Size: French fries	Size Format #1
Question 46	271	Never: Potato Salad	Marked / Unmarked
Question 46	272	Frequency: Potato Salad	Frequency Format #2
Question 46a	273	Portion Size: Potato Salad	Size Format #1
Question 47	274	Never: Potatoes	Marked / Unmarked
Question 47	275	Frequency: Potatoes	Frequency Format #2
Question 47a	276	Portion Size: Potatoes	Size Format #1



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Questionnaire Location	Column	Field	Coding Scheme
Question 47b	277	How often use sour cream w/ potatoes?	Proportion Format
Question 47c	278	Portion Size: Sour cream w/ potatoes	Size Format #1
Question 47d	279	How often add margarine to potatoes?	Proportion Format
Question 47e	280	How often add butter to potatoes?	Proportion Format
Question 47f	281	Portion Size: Margarine or butter w/ potatoes	Size Format #2
Question 47g	282	How often use cheese or cheese sauce w/ potatoes?	Proportion Format
Question 47h	283	Portion Size: Cheese or cheese sauce w/ potatoes	Size Format #1
Question 48	284	Never: Salsa	Marked / Unmarked Format
Question 48	285	Frequency: Salsa	Frequency Format #2
Question 48a	286	Portion Size: Salsa	Size Format #1
Question 49	287	Never: Catsup	Marked / Unmarked Format
Question 49	288	Frequency: Catsup	Frequency Format #2
Question 49a	289	Portion Size: Catsup	Size Format #1
Question 50	290	Never: Stuffing, dressing , or dumplings	Marked / Unmarked Format
Question 50	291	Frequency: Stuffing, dressing , or dumplings	Frequency Format #2
Question 50a	292	Portion Size: Stuffing, dressing , or dumplings	Size Format #1

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## Questionnaire Page 14

Questionnaire Location	Column	Field	Coding Scheme
Question 51	293	Never: Chili	Marked / Unmarked Format
Question 51	294	Frequency: Chili	Frequency Format #2
Question 51a	295	Portion Size: Chili	Size Format #1
Question 52	296	Never: Mexican Foods	Marked / Unmarked Format
Question 52	297	Frequency: Mexican Foods	Frequency Format #2
Question 52a	298	Portion Size: Mexican Foods	Size Format #1
Question 53	299	Never: Dried, cooked beans	Marked / Unmarked Format
Question 53	300	Frequency: Dried, cooked beans	Frequency Format #2
Question 53a	301	Portion Size: Dried, cooked beans	Size Format #1
Question 53b	302	How often were the beans you ate refried beans, beans prepared with any type of fat, or with meat added?	Proportion Format
Question 54	303	Never: Other vegetables	Marked / Unmarked Format
Question 54	304	Frequency: Other vegetables	Frequency Format #2
Question 54a	305	Portion Size: Other vegetables	Size Format #1
Question 55	306	Never: Rice or other cooked grains	Marked / Unmarked Format
Question 55	307	Frequency: Rice or other cooked grains	Frequency Format #2
Question 55a	308	Portion Size: Rice or other cooked grains	Size Format #1
Question 55b	309	How often was butter, margarine or oil added to your rice in cooking or at the table?	Proportion Format

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 15

Questionnaire Location	Column	Field	Coding Scheme
Question 56	310	Never: Pancakes, waffles, or French toast	Marked / Unmarked
Question 56	311	Frequency: Pancakes, waffles, or French toast	Frequency Format #2
Question 56a	312	Portion Size: Pancakes, waffles, or French toast	Size Format #1
Question 56b	313	How often was margarine (including low-fat) added to your pancakes, waffles, or French toast after cooking or at the table?	Proportion Format
Question 56c	314	How often was butter added to you pancakes, waffles, or French toast?	Proportion Format
Question 56d	315	Portion Size: Butter or margarine added to pancakes, waffles or French toast?	Size Format #2
Question 56e	316	How often was syrup added to your pancakes, waffles or French Toast?	Proportion Format
Question 56f	317	Portion Size: Syrup	Size Format #1
Question 57	318	Never: Lasagna, shells, manicotti, ravioli, etc	Marked / Unmarked Format
Question 57	319	Frequency: Lasagna, shells, manicotti, ravioli	Frequency Format #2
Question 57a	320	Portion Size: Lasagna, shells, manicotti, ravioli	Size Format #1
Question 58	321	Never: Macaroni and Cheese	Marked / Unmarked Format
Question 58	322	Frequency: Macaroni and Cheese	Frequency Format #2
Question 58a	323	Portion Size: Macaroni and Cheese	Size Format #1
Question 59	324	Never: Pasta Salad or Macaroni Salad	Marked / Unmarked Format
Question 59	325	Frequency: Pasta Salad or Macaroni Salad	Frequency Format #2

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 16

Questionnaire Location	Column	Field	Coding Scheme
Question 59a	326	Portion Size: Pasta Salad or Macaroni Salad	Size Format #1
Question 60	327	Never: Pasta, Spaghetti, or other Noodles	Marked / Unmarked Format
Question 60	328	Frequency: Pasta, Spaghetti, or other Noodles	Frequency Format #2
Question 60a	329	Portion Size: Pasta, Spaghetti, or other Noodles	Size Format #1
Question 60b	330	How often did you eat your pasta, spaghetti, or other noodles with tomato sauce or spaghetti sauce made with meat?	Proportion Format
Question 60c	331	With tomato sauce or spaghetti sauce made without meat?	Proportion Format
Question 60d	332	How often did you eat your pasta, spaghetti, or other noodles with margarine, butter, oil, or cream sauce?	Proportion Format
Question 61	333	Never: Bagels or English Muffins	Marked / Unmarked Format
Question 61	334	Frequency: Bagels or English Muffins	Frequency Format #2
Question 61a	335	Portion Size: Bagels or English Muffins	Size Format #1
Question 61b	336	How often did you use margarine on bagels or English muffins?	Proportion Format
Question 61c	337	How often did you use butter on bagels or English muffins?	Proportion Format
Question 61d	338	Portion Size: Butter or margarine added to bagels or English muffins	Size Format #2
Question 61e	339	How often was cream cheese spread on your bagels or English muffins?	Proportion Format

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 17

Questionnaire Location	Column	Field	Coding Scheme
Question 61f	340	Portion Size: Cream cheese for bagels/English muffins	Size Format #1
Question 62	341	Never: Sandwich bread	Marked / Unmarked Format
Question 62	342	Frequency: Sandwich bread	Frequency Format #2
Question 62a	343	Portion Size: Sandwich bread	Size Format #1
Question 62b	344	How often was the bread or roll as part of your sandwiches white bread?	Proportion Format
Question 62c	345	How often was Mayonnaise or Mayonnaise-type dressing (including low-fat) added to your sandwich bread or rolls?	Proportion Format
Question 62d	346	Portion Size: Mayonnaise or Mayonnaise type dressing	Size Format #1
Question 62e	347	How often was margarine (including low-fat) added to your sandwich bread or rolls?	Proportion Format
Question 62f	348	How often was butter added to your sandwich bread or rolls?	Proportion Format
Question 62g	349	Portion Size: Butter or margarine added to sandwich bread	Size Format #2
Question 63	350	Never: Bread or rolls NOT used in sandwiches	Marked / Unmarked Portion
Question 63	351	Frequency: Bread or rolls not used in sandwiches	Frequency Format #2
Question 63a	352	Portion Size: Bread or rolls not in sandwiches	Size Format #1

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 18

Questionnaire Location	Column	Field	Coding Scheme
Question 63b	353	How often were the bread or rolls white bread?	Proportion Format
Question 63c	354	How often was margarine (including low-fat) added to your bread or rolls?	Proportion Format
Question 63d	355	How often was butter added to your bread or rolls?	Proportion Format
Question 63e	356	Portion Size: Margarine or butter on bread	Size Format #2
Question 63f	357	Frequency: Cream cheese on bread or rolls	Proportion Format
Question 63g	358	Portion Size: Cream cheese on bread or rolls	Size Format #1
Question 64	359	Never: Jam, jelly, or honey on breads & crackers	Marked / Unmarked Format
Question 64	360	Frequency: Jam, jelly, or honey	Frequency Format #2
Question 64a	361	Portion Size: Jam, jelly, or honey	Size Format #1
Question 65	362	Never: Peanut Butter	Marked / Unmarked Format
Question 65	363	Frequency: Peanut Butter	Frequency Format #2
Question 65a	364	Portion Size: Peanut Butter	Size Format #1
Question 66	365	Never: Roast beef or steak in sandwiches	Marked / Unmarked Format
Question 66	366	Frequency: Roast beef or steak in sandwiches	Frequency Format #2
Question 66a	367	Portion Size: Roast beef or steak in sandwiches	Size Format #1

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 19

Questionnaire Location	Column	Field	Coding Scheme
Question 67	368	Never: Turkey or chicken cold cuts	Marked / Unmarked Format
Question 67	369	Frequency: Turkey or chicken cold cuts	Frequency Format #2
Question 67a	370	Portion Size: Turkey or chicken cold cuts	Size Format #1
Question 68	371	Never: luncheon or deli-style ham	Marked / Unmarked Format
Question 68	372	Frequency: luncheon or deli-style ham	Frequency Format #2
Question 68a	373	Portion Size: luncheon or deli-style ham	Size Format #1
Question 68b	374	How often was the luncheon or deli-style ham light, low-fat, or fat-free?	Proportion Format
Question 69	375	Never: Other cold cuts or luncheon meats	Marked / Unmarked Format
Question 69	376	Frequency: Other cold cuts or luncheon meats	Frequency Format #2
Question 69a	377	Portion Size: Other cold cuts or luncheon meats	Size Format #1
Question 69b	378	How often were the cold cuts or luncheon meats light, low-fat, or fat-free?	Proportion Format
Question 70	379	Never: Canned tuna	Marked / Unmarked Format
Question 70	380	Frequency: Canned tuna	Frequency Format #2
Question 70a	381	Portion Size: Canned tuna	Size Format #1
Question 70b	382	How often was it water-packed tuna?	Proportion Format

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 20

Questionnaire Location	Column	Field	Coding Scheme
Question 70c	383	How often was the canned tuna prepared with mayonnaise or other dressing (including low-fat)?	Proportion Format
Question 71	384	Never: Ground chicken or turkey	Marked / Unmarked Format
Question 71	385	Frequency: Ground chicken or turkey	Frequency Format #2
Question 71a	386	Portion Size: Ground chicken or turkey	Size Format #1
Question 72	387	Never: Beef hamburgers or cheeseburgers	Marked / Unmarked Format
Question 72	388	Frequency: Beef hamburgers or cheeseburgers	Frequency Format #2
Question 72a	389	Portion Size: Beef hamburgers or cheeseburgers	Size Format #1
Question 72b	390	How often were the beef hamburgers or cheeseburgers made with lean ground beef?	Proportion Format
Question 73	391	Never: Ground beef in mixtures	Marked / Unmarked Format
Question 73	392	Frequency: Ground beef in mixtures	Frequency Format #2
Question 73a	393	Portion Size: Ground beef in mixtures	Size Format #1
Question 74	394	Never: Hot dogs or frankfurters	Marked / Unmarked Format
Question 74	395	Frequency: Hot dogs or frankfurters	Frequency Format #2
Question 74a	396	Portion Size: Hot dogs or frankfurters	Size Format #1
Question 74b	397	How often were the hot dogs or frankfurters light?	Proportion Format



# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 21

Questionnaire Location	Column	Field	Coding Scheme
Question 75	398	Never: Beef stew or pot pie with vegetables	Marked / Unmarked Format
Question 75	399	Frequency: Beef stew or pot pie with vegetables	Frequency Format #2
Question 75a	400	Portion Size: Beef stew or pot pie with vegetables	Size Format #1
Question 76	401	Never: Roast beef or pot roast (not sandwiches)	Marked / Unmarked Format
Question 76	402	Frequency: Roast beef, pot roast (not sandwiches)	Frequency Format #2
Question 76a	403	Portion Size: Roast beef (not sandwiches)	Size Format #1
Question 77	404	Never: Steak	Marked /Unmarked Format
Question 77	405	Frequency: Steak	Frequency Format #2
Question 77a	406	Portion Size: Steak	Size Format #1
Question 77b	407	How often was the steak lean?	Proportion Format
Question 78	408	Never: Pork or spareribs	Marked /Unmarked Format
Question 78	409	Frequency: Pork or spareribs	Frequency Format #2
Question 78a	410	Portion Size: Pork or spareribs	Size Format #1
Question 79	411	Never: Roast turkey (including sandwiches)	Marked / Unmarked Format
Question 79	412	Frequency: Roast turkey (including sandwiches)	Frequency Format #2
Question 79a	413	Portion Size: Roast turkey	Size Format #1
Question 80	414	Never: Chicken in salads, sandwiches, etc.	Marked / Unmarked Format
Question 80	415	Frequency: Chicken in salads, sandwiches, etc.	Frequency Format #2

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 22

Questionnaire Location	Column	Field	Coding Scheme
Question 80a	416	Portion Size: Chicken in salads, sandwiches, etc.	Size Format #1
Question 81	417	Never: Baked, broiled or fried chicken	Marked / Unmarked Format
Question 81	418	Frequency: Baked, broiled or fried chicken	Frequency Format #2
Question 81a	419	Portion Size: Baked, broiled or fried chicken	Size Format #1
Question 81b	420	How often was the chicken you ate fried (including deep fried) or chicken nuggets?	Proportion Format
Question 81c	421	How often was the chicken white meat?	Proportion Format
Question 81d	422	How often did you eat chicken with skin?	Proportion Format
Question 82	423	Never: Baked ham or ham steak	Marked / Unmarked Format
Question 82	424	Frequency: Baked ham or ham steak	Frequency Format #2
Question 82a	425	Portion Size: Baked ham or ham steak	Size Format #1
Question 83	426	Never: Pork (chops, roasts, mixed dishes)	Marked / Unmarked Format
Question 83	427	Frequency: Pork	Frequency Format #2
Question 83a	428	Portion Size: Pork	Size Format #1
Question 84	429	Never: Gravy on meat, chicken, potatoes, rice, etc	Marked / Unmarked Format
Question 84	430	Frequency: Gravy on meat, chicken, potatoes, etc.	Frequency Format #2
Question 84a	431	Portion Size: Gravy	Size Format #1

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 23

Questionnaire Location	Column	Field	Coding Scheme
Question 85	432	Never: Liver (all kinds) or liverwurst	Marked / Unmarked Format
Question 85	433	Frequency: Liver (all kinds) or liverwurst	Frequency Format #2
Question 85a	434	Portion Size: Liver or liverwurst	Size Format #1
Question 86	435	Never: Bacon	Marked / Unmarked Format
Question 86	436	Frequency: Bacon	Frequency Format #2
Question 86a	437	Portion Size: Bacon	Size Format #1
Question 86b	438	How often was bacon light, low-fat, or lean	Never / Always Format
Question 87	439	Never: Sausage (including low-fat)	Marked / Unmarked Format
Question 87	440	Frequency: Sausage	Frequency Format #2
Question 87a	441	Portion Size: Sausage	Size Format #1
Question 87b	442	How often was the sausage light, low-fat, or lean	Proportion Format
Question 88	443	Never: Fish sticks or fried fish, fried seafood	Marked / Unmarked Format
Question 88	444	Frequency: Fish sticks or fried fish	Frequency Format #2
Question 88a	445	Portion Size: Fish sticks or fried fish	Size Format #1
Question 89	446	Never: Fish or seafood that was not fried	Marked / Unmarked Format
Question 89	447	Frequency: Fish or Seafood - not fried	Frequency Format #2
Question 89a	448	Portion Size: Fish or Seafood - not fried	Size Format #1

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 24

Questionnaire Location	Column	Field	Coding Scheme
Question 90	449	Never: Oil, butter, margarine, or other fat used to fry, sauté, baste, marinate any meat, poultry, fish	Marked / Unmarked Format
Question 90	450	Frequency: Oil, butter, margarine, or other fat used to fry, sauté, baste, or marinate	Frequency Format #2
Question 90a	451	Fat to cook meat: Margarine (including low-fat)	Marked / Unmarked Format
Question 90a	452	Fat to cook meat: Butter	Marked / Unmarked Format
Question 90a	453	Fat to cook meat: Lard, fatback, or bacon fat	Marked / Unmarked Format
Question 90a	454	Fat to cook meat: Olive Oil	Marked / Unmarked Format
Question 90a	455	Fat to cook meat: Corn Oil	Marked / Unmarked Format
Question 90a	456	Fat to cook meat: Canola Oil	Marked / Unmarked Format
Question 90a	457	Fat to cook meat: Oil spray (Pam)	Marked / Unmarked Format
Question 90a	458	Fat to cook meat: Other kinds of oil	Marked / Unmarked Format
Question 90a	459	Fat to cook meat: None of the above	Marked / Unmarked Format
Question 91	460	Never: Tofu, soy burgers, soy meat-substitutes	Marked / Unmarked Format
Question 91	461	Frequency: Tofu, soy burgers, etc	Frequency Format #2
Question 91a	462	Portion Size: Tofu, soy burgers, etc	Size Format #1
Question 92	463	Did you eat soups (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 92a	464	Never: Soups - in winter	Marked / Unmarked Format
Question 92a	465	Frequency: Soups - in winter	Frequency Format #2
Question 92b	466	Never: Soups - rest of year	Marked / Unmarked Format
Question 92b	467	Frequency: Soups - rest of year	Frequency Format #2
Question 92c	468	Portion Size: Soup	Size Format #1
Question 92d	469	How often were the soups you ate bean soups?	Proportion Format
Question 92e	470	How often were they cream soups?	Proportion Format

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 25

Questionnaire Location	Column	Field	Coding Scheme
Question 92f	471	How often were they tomato or vegetable soups?	Proportion Format
Question 92g	472	How often were they broth soups ?	Proportion Format
Question 93	473	Never: Pizza	Marked / Unmarked Format
Question 93	474	Frequency: Pizza	Frequency Format #2
Question 93a	475	Portion Size: Pizza	Size Format #1
Question 93b	476	How often did you eat pizza with meat toppings?	Proportion Format
Question 94	477	Never: Crackers	Marked / Unmarked Format
Question 94	478	Frequency: Crackers	Frequency Format #2
Question 94a	479	Portion Size: Crackers	Size Format #1
Question 95	480	Never: Corn bread or muffins	Marked / Unmarked Format
Question 95	481	Frequency: Corn bread or muffins	Frequency Format #2
Question 95a	482	Portion Size: Corn bread or muffins	Size Format #1
Question 96	483	Never: Biscuits	Marked / Unmarked Format
Question 96	484	Frequency: Biscuits	Frequency Format #2
Question 96a	485	Portion Size: Biscuits	Size Format #1
Question 97	486	Never: Potato chips, tortilla chips, corn chips	Marked / Unmarked Format
Question 97	487	Frequency: Potato chips, tortilla chips, corn chips	Frequency Format #2

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 26

Questionnaire Location	Column	Field	Coding Scheme
Question 97a	488	Portion size: Potato chips, tortilla chips, corn chips	Size Format #1
Question 97b	489	How often were the chips you ate Wow chips or other chips made with a fat substitute (Olean or Olestra)?	Proportion Format
Question 97c	490	How often were the chips other low-fat or fat-free chips?	Proportion Format
Question 98	491	Never: Popcorn	Marked / Unmarked Format
Question 98	492	Frequency: Popcorn	Frequency Format #2
Question 98a	493	Portion Size: Popcorn	Size Format #1
Question 99	494	Never: Pretzels	Marked / Unmarked Format
Question 99	495	Frequency: Pretzels	Frequency Format #2
Question 99a	496	Portion Size: Pretzels	Size Format #1
Question 100	497	Never: Peanuts, walnuts, seeds or other nuts	Marked / Unmarked Format
Question 100	498	Frequency: Peanuts, walnuts, seeds or other nuts	Frequency Format #2
Question 100a	499	Portion Size: Peanuts, walnuts, seeds, other nuts	Size Format #1
Question 101	500	Never: Breakfast bars, high-energy bars	Marked / Unmarked Format
Question 101	501	Frequency: Breakfast bars, high-energy bars	Frequency Format #2
Question 101a	502	Portion Size: Breakfast bars, high-energy bars	Size Format #1
Question 102	503	Never: Yogurt (not including frozen yogurt)	Marked / Unmarked Format
Question 102	504	Frequency: Yogurt	Frequency Format #2

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 27

Questionnaire Location	Column	Field	Coding Scheme
Question 102a	505	Portion Size: Yogurt	Size Format #1
Question 103	506	Never: Cottage cheese (including low-fat)	Marked / Unmarked Format
Question 103	507	Frequency: Cottage cheese	Frequency Format #2
Question 103a	508	Portion Size: Cottage cheese	Size Format #1
Question 104	509	Never: Cheese or cheese spreads	Marked / Unmarked
Question 104	510	Frequency: Cheese or cheese spreads	Frequency Format #2
Question 104a	511	Portion Size: Cheese or cheese spreads	Size Format #1
Question 104b	512	How often was the cheese you ate light or low-fat cheese?	Proportion Format
Question 104c	513	How often was the cheese you ate fat-free cheese?	Proportion Format
Question 105	514	Never: Frozen yogurt, sorbet, ices	Marked / Unmarked Format
Question 105	515	Frequency: Frozen yogurt, sorbet, ices	Frequency Format #2
Question 105a	516	Portion Size: Frozen yogurt, sorbet, ices	Size Format #1
Question 106	517	Never: Ice Cream, ice cream bars, or sherbet	Marked / Unmarked
Question 106	518	Frequency: Ice cream, ice cream bars, or sherbet	Frequency Format #2
Question 106a	519	Portion Size: Ice cream, ice cream bars, sherbet	Size Format #1
Question 106b	520	How often was the ice cream light, low-fat or fat-free ice cream or sherbet?	Proportion Format

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 28

Questionnaire Location	Column	Field	Coding Scheme
Question 107	521	Never: Cake (including low-fat and fat-free)	Marked / Unmarked Format
Question 107	522	Frequency: Cake	Frequency Format #2
Question 107a	523	Portion Size: Cake	Size Format #1
Question 107b	524	How often was the cake light, low-fat or fat-free?	Proportion Format
Question 108	525	Never: Cookies or Brownies	Marked / Unmarked Format
Question 108	526	Frequency: Cookies or brownies	Frequency Format #2
Question 108a	527	Portion Size: Cookies or brownies	Size Format #1
Question 108b	528	How often were the cookies low-fat or fat-free?	Proportion Format
Question 109	529	Never: Doughnuts, sweet rolls, Danish	Marked / Unmarked Format
Question 109	530	Frequency: Doughnuts, sweet rolls, Danish	Frequency Format #2
Question 109a	531	Portion Size: Doughnuts, sweet rolls, Danish	Size Format #1
Question 110	532	Never: Sweet muffins or dessert breads	Marked / Unmarked Format
Question 110	533	Frequency: Sweet muffins or dessert breads	Frequency Format #2
Question 110a	534	Portion Size: Sweet muffins or dessert breads	Size Format #1
Question 110b	535	How often were the sweet muffins or dessert breads light, low-fat, or fat-free?	Proportion Format
Question 111	536	Never: Fruit crisp, cobbler, strudel	Marked / Unmarked Format
Question 111	537	Frequency: Fruit crisp, cobbler, strudel	Frequency Format #2



# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 29

Questionnaire Location	Column	Field	Coding Scheme
Question 111a	538	Portion Size: Fruit crisp, cobbler, strudel	Size Format #1
Question 112	539	Never: Pie	Marked / Unmarked Format
Question 112	540	Frequency: Pie	Frequency Format #2
Question 112a	541	Portion Size: Pie	Size Format #1
Question 112b	542	How often were the pies you ate fruit pies?	Proportion Format
Question 112c	543	How often were they cream...meringue pies?	Proportion Format
Question 112d	544	How often were they pumpkin or sweet potato pies	Proportion Format
Question 1112e	545	How often were the pies you ate pecan pie?	Proportion Format
Question 113	546	Never: Chocolate Candy	Marked / Unmarked Format
Question 113	547	Frequency: Chocolate Candy	Frequency Format #2
Question 113a	548	Portion Size: Chocolate Candy	Size Format #1
Question 114	549	Never: Other Candy	Marked / Unmarked Format
Question 114	550	Frequency: Other Candy	Frequency Format #2
Question 114a	551	Portion Size: Other Candy	Size Format #1
Question 115	552	Never: Eggs, egg whites, or egg substitutes.	Marked / Unmarked Format
Question 115	553	Frequency: Eggs, egg whites, or egg substitutes	Frequency Format #2

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 30

Questionnaire Location	Column	Field	Coding Scheme
Question 115a	554	Portion Size: Eggs	Size Format #1
Question 115b	555	How often were the eggs you ate egg substitutes?	Proportion Format
Question 115c	556	How often were the eggs whites only?	Proportion Format
Question 115d	557	How often were the eggs whole eggs?	Proportion Format
Question 115e	558	How often were the eggs cooked in oil, butter, or margarine?	Proportion Format
Question 115f	559	How often were the eggs part of egg salad?	Proportion Format
Question 116	560	None: Coffee (caffeinated or decaffeinated)	Marked / Unmarked
Question 116	561	Frequency: Coffee	Frequency Format #3
Question 116a	562	How often was the coffee decaffeinated?	Proportion Format
Question 117	563	None: Iced Tea - caffeinated or decaffeinated	Marked / Unmarked Format
Question 117	564	Frequency: Iced Tea	Frequency Format #3
Question 117a	565	How often was the iced tea decaffeinated / herbal?	Proportion Format
Question 118	566	None: Cups of Hot Tea	Marked / Unmarked
Question 118	567	Frequency: Cups of Hot Tea	Frequency Format #3
Question 118a	568	How often was the hot tea decaffeinated or herbal tea?	Proportion Format

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 31

Questionnaire Location	Column	Field	Coding Scheme
Question 119	569	Never: Sugar or honey in coffee or tea	Marked / Unmarked Format
Question 119	570	Frequency: Sugar or honey in coffee or tea	Frequency Format #3
Question 119a	571	Portion Size: Sugar or honey in coffee or tea	Size Format #1
Question 120	572	Never: Artificial sweetener in coffee/ tea	Marked / Unmarked Format
Question 120	573	Frequency: Artificial sweetener in coffee/ tea	Frequency Format #3
Question 120a	574	What kind of artificial sweetener in coffee or tea?	0 = Equal or aspartame 1 = Sweet-N-Low or saccharin M = Missing E = Error
Question 121	575	Never: Non-dairy creamer in coffee or tea	Marked / Unmarked Format
Question 121	576	Frequency: Non-dairy creamer in coffee or tea	Frequency Format #3
Question 121a	577	Portion Size: Non-dairy creamer in coffee/ tea	Size Format #1
Question 121b	578	What kind of non-dairy creamer did you usually use?	0 = Regular powdered 1 = Low-fat or fat-free powdered 2 = Regular liquid 3 = Low-fat or fat-free liquid M = Missing E = Error
Question 122	579	Never: Cream or half and half in coffee or tea	Marked / Unmarked Format
Question 122	580	Frequency: Cream or half and half in coffee or tea	Frequency Format #3
Question 122a	581	Portion Size: Cream or half and half in coffee or tea	Size Format #1
Question 123	582	Never: Milk in coffee or tea	Marked / Unmarked Format
Question 123	583	Frequency: Milk in coffee or tea	Frequency Format #3
Question 123a	584	Portion Size: Milk in coffee or tea	Size Format #1
Question 123b	585	What kind of milk was usually added to your coffee or tea?	0 = Whole milk 1 = 2% fat milk 2 = 1% fat milk 3 = Skim, non-fat, ½% fat milk 4 = Evaporated or condensed 5 = Soy Milk 6 = Rice Milk 7 = Other M = Missing E = Error

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 32

Questionnaire Location	Column	Field	Coding Scheme
Question 124	586	Never: Sugar or honey added to foods	Marked / Unmarked Format
Question 124	587	Frequency: Sugar or honey added to foods	Frequency Format #2
Question 124a	588	Portion Size: Sugar or honey added to foods	Size Format #1
Question 125	589	Did you eat margarine (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 125a	590	How often was the margarine regular-fat?	Proportion Format
Question 125b	591	Light or low-fat margarine?	Proportion Format
Question 125c	592	Fat-free margarine?	Proportion Format
Question 126	593	Did you eat butter (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 126a	594	How often was the butter you ate light or low-fat butter?	Proportion Format
Question 127	595	Did you eat mayonnaise or mayonnaise-type dressing (in past 12 mos.)?	0 = No 1 = Yes M =Missing E = Error
Question 127a	596	How often was the mayonnaise regular-fat?	Proportion Format
Question 127b	597	How often was the mayonnaise light or low-fat?	Proportion Format

# Coding Manual for the 1998 NIH Diet History Questionnaire (DHQ1.1998)

## Questionnaire Page 33

Questionnaire Location	Column	Field	Coding Scheme
Question 127c	598	How often was the mayonnaise fat-free?	Proportion Format
Question 128	599	How often did you eat sour cream (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 128a	600	How often was the sour cream regular-fat?	Proportion Format
Question 128b	601	How often was the sour cream light, low-fat or fat-free sour cream?	Proportion Format
Question 129	602	Did you eat cream cheese?	0 = No 1 = Yes M = Missing E = Error
Question 129a	603	How often was the cream cheese regular-fat?	Proportion Format
Question 129b	604	How often was the cream cheese light, low-fat or fat-free cream cheese?	Proportion Format
Question 130	605	Did you eat salad dressing (in past 12 mos.)?	0 = No 1 = Yes M = Missing; E = Error
Question 130a	606	How often was the dressing you ate regular-fat?	Proportion Format
Question 130b	607	How often light or low-fat salad dressing?	Proportion Format
Question 130c	608	How often fat-free salad dressing?	Proportion Format
Question 131	609	Frequency: Vegetables per week or per day (not including salads or potatoes)	Frequency Format #6

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Questionnaire Location	Column	Field	Coding Scheme
Question 132	610	Frequency: Fruit per week or per day	Frequency Format #6
Question 133	611	Avocado	Marked / Unmarked Format
Question 133	612	Cheesecake	Marked / Unmarked Format
Question 133	613	Chocolate, fudge or butterscotch toppings	Marked / Unmarked Format
Question 133	614	Chow mein noodles	Marked / Unmarked Format
Question 133	615	Croissants	Marked / Unmarked Format
Question 133	616	Dried apricots	Marked / Unmarked Format
Question 133	617	Egg rolls	Marked / Unmarked Format
Question 133	618	Granola bars	Marked / Unmarked Format
Question 133	619	Hot peppers	Marked / Unmarked Format
Question 133	620	Jello, gelatin	Marked / Unmarked Format
Question 133	621	Milkshakes or ice-cream sodas	Marked / Unmarked Format
Question 133	622	Olives	Marked / Unmarked Format
Question 133	623	Oysters	Marked / Unmarked Format
Question 133	624	Pickles or pickled vegetables or fruit	Marked / Unmarked Format
Question 133	625	Plantains	Marked / Unmarked Format
Question 133	626	Pork neck bones, hock, head, feet	Marked / Unmarked Format
Question 133	627	Pudding or custard	Marked / Unmarked Format
Question 133	628	Veal, venison, or lamb	Marked / Unmarked Format
Question 133	629	Whipped cream, regular	Marked / Unmarked Format
Question 133	630	Whipped cream, substitute	Marked / Unmarked Format
Question 133	631	None	Marked / Unmarked Format
Question 134	632	For all of the past 12 months, have you followed a Vegetarian diet?	0 = No 1 = Yes M = Missing E = Error
Question 134a	633	Did you exclude meat?	Marked / Unmarked Format
Question 134a	634	Did you exclude poultry?	Marked / Unmarked Format
Question 134a	635	Did you exclude fish and seafood?	Marked / Unmarked Format
Question 134a	636	Did you exclude eggs?	Marked / Unmarked Format
Question 134a	637	Did you exclude dairy products?	Marked / Unmarked Format
Question 135	638	No: did not take any fiber supplements	Marked / Unmarked Format
Question 135	639	Yes: Psyllium Products	Marked / Unmarked Format
Question 135	640	Yes: Methylcellulose/Cellulose Products	Marked / Unmarked Format
Question 135	641	Yes: Fibercon	Marked / Unmarked Format
Question 135	642	Yes: Bran	Marked / Unmarked Format
Question 136	643	Did you take multivitamins such as One-a-Day-, Theragran- or Centrum-type multivitamins (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 137	644	How often did you take One-a-Day-, Theragran-, or Centrum-type multivitamins?	Frequency Format #5
Question 137a	645	Does your multivitamin usually contain minerals such as iron, zinc, etc.?	0 = No 1 = Yes 2 = Don't know M = Missing E = Error
Question 137b	646	How many years have taken multivitamins?	Duration Format

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Questionnaire Location	Column	Field	Coding Scheme
Question 137c	647	Did you take any vitamins or multivitamins other than your multivitamin (in past 12 mos.)?	0 = No 1 = Yes M = Missing E = Error
Question 138	648	Never: Beta-Carotene	Marked / Unmarked Format
Question 138	649	Frequency: Beta-Carotene	Frequency Format #5
Question 138a	650	Amount: Beta-Carotene	0 = Less than 10,000 IU 1 = 10,000 - 14,999 IU 2 = 15,000 - 19,999 IU 3 = 20,000 - 24,999 IU 4 = 25,000 IU or more 5 = Don't know M = Missing E = Error
Question 138b	651	How many years have you taken Beta-carotene?	Duration Format
Question 139	652	Never: Vitamin A	Marked / Unmarked Format
Question 139	653	Frequency: Vitamin A	Frequency Format #5
Question 139a	654	Amount: Vitamin A	0 = Less than 8,000 IU 1 = 8,000 - 9,999 IU 2 = 10,000 - 14,999 IU 3 = 15,000 - 24,999 IU 4 = 25,000 IU or more 5 = Don't know M = Missing E = Error
Question 139b	655	How many years have you taken Vitamin A?	Duration Format
Question 140	656	Never: Vitamin C	Marked / Unmarked Format
Question 140	657	Frequency: Vitamin C	Frequency Format #5
Question 140a	658	Amount: Vitamin C	0 = Less than 500 mg 1 = 500 - 999 mg 2 = 1000 - 1,499 mg 3 = 1,500 - 1,999 mg 4 = 2,000mg or more 5 = Don't know M = Missing E = Error
Question 140b	659	How many years have you take Vitamin C?	Duration Format

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Questionnaire Location	Column	Field	Coding Scheme
Question 141	660	Never: Vitamin E	Marked / Unmarked Format
Question 141	661	Frequency: Vitamin E	Frequency Format #5
Question 141a	662	Amount: Vitamin E	0 = Less than 400 IU 1 = 400 - 799 IU 2 = 800 - 999 IU 3 = 1,000 IU or more 4 = Don't know M = Missing E = Error
Question 141b	663	How many years have you take Vitamin E?	Duration Format
Question 142	664	Never: Calcium	Marked / Unmarked Format
Question 142	665	Frequency: Calcium	Frequency Format #5
Question 142a	666	Amount: Calcium	0 = Less than 500 mg 1 = 500 - 599 mg 2 = 600 - 999 mg 3 = 1,000 mg or more 4 = Don't know M = Missing E = Error
Question 142b	667	How many years have you take Calcium?	Duration Format
Question 143	668	B-6	Marked / Unmarked Format
Question 143	669	B-complex	Marked / Unmarked Format
Question 143	670	Brewer's yeast	Marked / Unmarked Format
Question 143	671	Cod liver oil	Marked / Unmarked Format
Question 143	672	Coenzyme Q	Marked / Unmarked Format
Question 143	673	Fish oil (Omega-3 fatty acids)	Marked / Unmarked Format
Question 143	674	Folic acid / folate	Marked / Unmarked Format
Question 143	675	Glucosamine	Marked / Unmarked Format
Question 143	676	Hydroxytryptophan (HTP)	Marked / Unmarked Format
Question 143	677	Iron	Marked / Unmarked Format
Question 143	678	Niacin	Marked / Unmarked Format
Question 143	679	Selenium	Marked / Unmarked Format
Question 143	680	Zinc	Marked / Unmarked Format
Question 144	681	Aloe vera	Marked / Unmarked Format
Question 144	682	Astragalus	Marked / Unmarked Format
Question 144	683	Bilberry	Marked / Unmarked Format
Question 144	684	Cascara sagrada	Marked / Unmarked Format
Question 144	685	Cat's claw	Marked / Unmarked Format
Question 144	686	Cayenne	Marked / Unmarked Format
Question 144	687	Cranberry	Marked / Unmarked Format
Question 144	688	Dong Kuai (Tangkwei)	Marked / Unmarked Format
Question 144	689	Echinacea	Marked / Unmarked Format
Question 144	690	Evening primrose oil	Marked / Unmarked Format
Question 144	691	Feverfew	Marked / Unmarked Format
Question 144	692	Garlic	Marked / Unmarked Format
Question 144	693	Ginger	Marked / Unmarked Format
Question 144	694	Ginkgo biloba	Marked / Unmarked Format
Question 144	695	Ginseng (American or Asian)	Marked / Unmarked Format
Question 144	696	Goldenseal	Marked / Unmarked Format
Question 144	697	Grapeseed extract	Marked / Unmarked Format
Question 144	698	Kava, kava	Marked / Unmarked Format
Question 144	699	Milk thistle	Marked / Unmarked Format
Question 144	700	Saw palmetto	Marked / Unmarked Format
Question 144	701	Siberian ginseng	Marked / Unmarked Format
Question 144	702	St. John's wort	Marked / Unmarked Format
Question 144	703	Valerian	Marked / Unmarked Format
Question 144	704	Other	Marked / Unmarked Format