



United States Department of Agriculture

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# CHILD NUTRITION DATABASE DOCUMENTATION

**Child Nutrition Database, Release 23 (CN23) Version**

**April 2020**

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**CHILD NUTRITION DATABASE  
(CNDB)**

**RELEASE CN23**

**DATABASE TABLES**

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## CHILD NUTRITION DATABASE (CNDB)

### DATABASE TABLES

The database described in this document is designed and developed for nutrient analysis for the USDA Child Nutrition Programs.

The Child Nutrition Database, Release 23 (CN23) includes five tables: Food Description, Food Category Name, Weights, Nutrient Values, and Nutrient Description. The abbreviated table names are FDES, CTGNME, WGHT, NUTVAL, and NUTDES.

For CN23, the database is available in the following file types: Comma-separated Values (CSV), JavaScript Object Notation (JSON), SQL Server, My SQL, tab-delimited text, Extensible Markup Language (XML), and Excel (XLSX). The database files are available on the Food and Nutrition Service's (FNS) website only as CSV files, but all the file type option are available on the Child Nutrition Programs (CNP) Approved Nutrition Software PartnerWeb (SharePoint) site or upon request. For Excel, My SQL, and SQL Server, one file will be provided for the entire database. For CSV, text (tab delimited), XML, and JSON, one file for each table will be provided for a total of five files for the complete database.

The CNDB table format charts in this document include the name of each field, followed by the type of field (N=numeric, A=alphanumeric, and D=date), the field length including decimals, and an \* (asterisk) symbol to indicate that the field is the primary key or part of the composite primary key, followed by the field description.

### **Status Field and Discontinued Items**

The status field in each table indicates which food items and other data, such as weights and measures, are active as designated by an **"a"**, and which food items are being discontinued as designated by a **"d"**. The **"d"** designation is intended to notify developers and users of approved software programs that data, such as food items used in recipes and menus, will no longer be included in the next release of the CNDB and to provide users with ample time to replace the data. Software developers must ensure that software programs do not interfere with this alert mechanism intended to inform the end users when data will no longer be available. Ideally, software developers should have a system in the software program for alerting the user about foods marked with **"d"**, such as a warning message or report.

FDES, WGHT, and NUTVAL tables with records that were marked as discontinued in the previous CNDB release have been removed from this CNDB release. The CN23 data marked with a **"d"** will not be removed until the next release.

***Please be advised that all discontinued records indicated by status = "d" found in this CNDB release will be removed in the next CNDB release. The data marked with "d" should not be removed from the software program's database until it is physically removed from the CNDB with the next release.***

**Comments and Notes for the CN23 Release**

**CN23 Release:**

A record with a date after 1/1/20 in the "Date\_added" field is a new record in the CN23 release.

A record with a date before 1/1/20 in the in the "Date\_added" field and after 1/1/20 in the "Last\_modified" field contains a modified value in one or more of its fields within the CN23 release.

A record with a "d" value in the "Status" field is a discontinued record.

----Entire CNDB----

Total 359 new products in the database

Total 802 modified active products in the FDES table

Total 164 modified active products in the WGHT table

Total 543 modified active products in the NUTVAL

Total 928 discontinued products

Source code 1, 3 and 4 products marked "d" in CN22 were removed from CN23. No source code 2 USDA Standardized Recipes were marked "d" in CN22, so none were removed from CN23.

----Source Code 1----

The SR Legacy is no longer updated by USDA. One source code 1 item which was changed to a source code 3 in CN22 was roll backed to its previous source code 1 state in CN23. The Last\_modified date for the updated records associated with this code were updated to flag this item for software developers that already have the database in their software.

Five duplicate weight (WGHT) records were marked "d" for five source code 1 active products.

--Summary of Source Code 1 updates in the CNDB:

	FDES Table	WGHT Table	NUTVAL Table
New Records	0	0	0
Modified Records	1	2	11
Discontinued Records	0	5	0

----Source Code 2----

No new USDA Standardized Recipe data (source code 2) were added to CN23. All the recipe descriptions for the USDA Standardized Recipes (source code 2) were updated. "USDA Recipe for Schools" was added at the end of each recipe's Description. The serving size amount for one recipe was modified.

--Summary of Source Code 2 updates in the CNDB:

	FDES Table	WGHT Table	NUTVAL Table
New Records	0	0	0
Modified Records	231	1	0
Discontinued Records	0	0	0

----Source Code 3----

Updates for food items were received by 20 companies during the CN23 data collection.

Standardization of manufacturer name within manufacturer was applied to source code 3 items for consistency.

--Summary of Source Code 3 items submitted by food companies during CN23 data collection:

New: 337 items

Modified: 632 items

Discontinued: 913 items

--Summary of Source Code 3 updates in the CNDB:

	FDES Table	WGHT Table	NUTVAL Table
New Records	337	342	6066
Modified Records	565	159	4451
Discontinued Records	913	898	16434

----Source Code 4----

--Summary of Source Code 4 items submitted by FNS Food Distribution Division (FDD) and food companies during CN23 data collection:

New: 22 items

Modified: 7 items

Discontinued: 15 items

--Summary of Source Code 4 updates in the CNDB:

	FDES Table	WGHT Table	NUTVAL Table
New Records	22	22	396
Modified Records	6	3	40
Discontinued Records	15	16	270

**CNDB FOOD ITEM DATA**

The CNDB food item data tables contain information for selecting foods and amounts in the analysis of menus and recipes, including the gram weights for various units of measure in order to calculate accurate nutrient values of menus and recipes. For each food in the database, there is a food identification code (CN Code; also referred to as CNDB Number or CND#), food category code, description of the food, abbreviated description, set of measures (for most foods), and gram weights for those measures. Product codes, manufacturer names, and product codes are also included, when provided by the manufacturer, for commercially prepared foods used in Child Nutrition Programs (CNP). The CNDB food item data consists of three tables. They are the **FOOD DESCRIPTION, FOOD CATEGORY NAME, and WEIGHTS** tables.

The **FOOD DESCRIPTION (FDES)** table contains both a complete description, or descriptor, and an abbreviated description for each food item in the CNDB. For commercially prepared (branded) foods used in CNP, the product code or UPC code and manufacturer name associated with the item are listed.

**FOOD DESCRIPTION (FDES)**

<b>Field Name</b>	<b>Type/Length</b>	<b>Description</b>
Food Category Code	N 2	Code for classifying food into a designated food category
Descriptor	A 255	Item description
Abbreviated Descriptor	A 60	Abbreviated Item description
CN Code	N 6*	CN Code (CND#) is a unique food item identifier; used to link data for the same food item between tables.
Product Code	A 15	The item product code defined by the manufacturer or the UPC code.
Manufacturer Name	A 80	The manufacturer name
Commodity or Recipe Code	A 6	Code for a USDA standardized recipe or commodity code for a USDA Food (commodity food) used by schools. As of CN22, USDA standardized recipe codes are no longer used.
Source Code	N 1	Specifies source of nutrient values- USDA National Nutrient Database for Standard Reference Legacy (1), USDA Standardized Recipe calculation (2), Food industry (3), USDA Foods (Commodity Foods) (4)
Date Added	D	Date record was added to this table (mm/dd/yyyy)
Last Modified	D	Date of last revision to this record (mm/dd/yyyy)
Status	A 1	Active (a) or Discontinued (d)
Form of Food	A 12	Designated only for branded foods (foods with source code 3) "as purchased" or "as served"; (as purchased food requires preparation before serving; as served food does not require additional preparation)

The **FOOD CATEGORY NAME (CTGNME)** table contains the codes and descriptions for food categories assigned to foods in the FOOD DESCRIPTION table.

**FOOD CATEGORY NAME (CTGNME)**

Field Name	Type/Length	Description
Food Category Code	N 2*	Code for classifying food into a designated food category
Category Description	A 100	Description of food category
Date Added	D	Date record was added to this table (mm/dd/yyyy)
Last Modified	D	Date of last revision to this record (mm/dd/yyyy)
Status	A 1	Active (a) or Discontinued (d)

The **WEIGHTS (WGHT)** table contains measure information for specific foods. Gram weights are provided for all units of measure listed. Many foods have more than one unit of measure. Some foods do not have a corresponding unit of measure in the Weights file.

**WEIGHTS (WGHT)**

Field Name	Type/Length	Description
CN Code	N 6*	CN Code (CND#) is a unique food item identifier; used to link data for the same food item between tables.
Weights Sequence Number	N 2*	Unique sequence number used to identify record.
Amount	N 6.3	Measurement Unit Modifier (e.g. "1" in "1 cup")
Measure Description	A 100	Measurement Unit Description (e.g. cup, tablespoon, piece, etc.)
Gram Weight	N 8.2	Gram weight of food item for the amount and measure description provided.
Date Added	D	Date record was added to this table (mm/dd/yyyy)
Last modified	D	Date of last revision to this record (mm/dd/yyyy)
Status	A 1	Active (a) or Discontinued (d)

## CNDB NUTRIENT DATA

The **CNDB NUTRIENT** data consists of two tables: **NUTRIENT VALUES** and **NUTRIENT DESCRIPTION**.

The **NUTRIENT VALUES (NUTVAL)** table contains nutrient values for food items to be used in the nutrient analysis of menus and recipes in the CNP. Sources of data for this file include the USDA Nutrient Database for Standard Reference; nutrient calculations for standardized recipes created by USDA for school meal programs; industry data for foods used in the National School Lunch Program or School Breakfast Program, and USDA Foods (commodity foods). All nutrient values are based on 100 grams (nutrients per 100 grams of the specified food item). If available, value type codes are included in the NUTVAL Table to describe the source of data for a nutrient.

### **Differentiating Between Nutrient Data Containing Zeros and Missing Data**

Nutrient data represented by a zero means that the food item was tested for that nutrient, but there was no significant amount of that nutrient found in the food. For example, a value of zero for food energy (or calories) means that this food contains no calories. Values of zero are not to be interpreted as missing values or blanks; they must remain zeros.

While raw, unrounded data is preferred, food label (Nutrition Facts) data are provided for some items in the CNDB. Note that, if labeling values are used some very small values may have been rounded to zero according to FDA rounding rules for food labels.

While nutrient data is required for saturated fat, calories, and sodium, missing nutrient values may exist for the other nutrients and are shown as blanks in the CNDB. Blank nutrient values should not be interpreted as zeros. Blank nutrient values should be interpreted and marked as missing values, for example, an asterisk with a footnote indicating that the nutrient value is missing. Additionally, any nutrient total containing a missing value must also be marked as including missing nutrient data. **Use of a zero to represent a missing value is incorrect.** Zeros must only be used for true zero values.

To ensure accessibility compliance with your approved software, we suggest using NULL, -9, or other commonly used placeholders to fill blanks. Then define this code near the top of the page where the data is presented. For more information on the government's accessibility requirements, please go to the [508 compliance website](#).

**NUTRIENT VALUES (NUTVAL)**

<b>Field Name</b>	<b>Type/Length</b>	<b>Description</b>
CN Code (or CNDB number)	N 6*	CN Code (or CND#) is a unique food item identifier; used to link data for the same food item between tables.
Nutrient Code	N 5*	Code used to identify a particular nutrient; used to link to Nutrient Description table
Nutrient Value	N 10.3	Value for nutrient
Value Type Code	N 3	Type of value (if available): Calculated from standardized school lunch recipe (0), Analytical or derived from analytical (1), Imputed (4), Value manufacturer based label claim for added nutrients (5), Aggregated data involving combinations of source codes 1 & 12 (6). Assumed zero (7), Calculated from nutrient label by NDL (8), Calculated by manufacturer, not adjusted or rounded for NLEA (9), Aggregated data involving comb. of codes other than 1, 12 or 6 (11), Manufacturer's analytical; partial documentation (12), Analytical data from the literature, partial documentation (13)
Date Added	D	Date record was added to this table (mm/dd/yyyy)
Last Modified	D	Date of last revision to this record (mm/dd/yyyy)
Status	A 1	Active (a) or Discontinued (d)

**NUTRIENT DESCRIPTION (NUTDES)** table contains the names and codes for nutrients included in the NUTRIENT VALUES table.

**NUTRIENT DESCRIPTION (NUTDES)**

<b>Field Name</b>	<b>Type/Length</b>	<b>Description</b>
Nutrient Code	N 5*	Code used to identify a particular nutrient.
Nutrient Description	A 30	Name of the nutrient
Nutrient Description (abbreviated)	A 5	Abbreviation for the nutrient
Nutrient Unit	A 5	Identifies the measure (calories, grams, milligrams, International Units, etc.) for the nutrient in the Nutrient Values file.
Date Added	D	Date record was added to this table (mm/dd/yyyy)
Last Modified	D	Date of last revision to this record (mm/dd/yyyy)
Status	A 1	Active (a) or Discontinued (d)

## Archive of Comments and Notes from Previous Releases

**CN22 Release:** A record with a date after 1/1/19 in the “Date\_added” field is a new record in the CN22 release. A record with a date after 1/1/19 in the “Last\_modified” field and different from the date in the “Date\_added” field contains a revised value in one or more of its fields with the CN22 release.

The BUYGD and BYGDLNK tables were removed from the CN Database. Food Buying Guide yield data will no longer be provided in the CN Database.

Data for 79 new USDA Standardized Recipes (source code 2) was added to CN22

817 new source code 3 (food industry) food items, including items from 13 food companies were added to CN22.

Source code 1 data was updated to the SR Legacy version.

1028 source code 1 (FDES) products are marked “d” in CN22 with their 1183 weight (WGHT) records and 18504 nutrient value (NUTVAL) records. Fifteen weight (WGHT) records are marked “d” for 14 source code 1 active products. 131 source code 3 (FDES) products are marked “d” in CN22 with their 119 weight (WGHT) records and 2358 nutrient value (NUTVAL) records.

Source code 1 and 3 data marked “d” in CN21 are removed from CN22. No source code 2 or 4 items were marked “d” in CN21, so none were removed from CN22.

**CN21 Release:** A record with a date after 2/5/16 in the “date\_added” field is a new record in the CN21 release. A record with a date after 2/5/16 in the “last\_modified” field and different from the date in the “date\_added” field contains a revised value in one or more of its fields with the CN21 release.

The CNDB is no longer being released in the plain text file format.

Fields for potassium (milligrams) and vitamin D (micrograms) are now provided in the CNDB.

Data for 122 new USDA Standardized Recipes (source code 2) was added to CN21.

376 new source code 3 (food industry) food items, including items from 12 food companies were added to CN21.

133 source code 4 (USDA Foods) items from nine food companies were added to CN21.

No changes were made to the source code 1 data because SR has not been updated since the release of CN20.

121 source code 3 (FDES) records are marked “d” in CN21 with five weights (WGHT) records and 2,181 nutrient value (NUTVAL) records also marked “d” in CN21. Source code 1 data marked “d” in CN20, remains “d” in CN21.

For source codes 2 and 4, 443 food item (FDES) records, 526 weights (WGHT) records, and 7,088 nutrient value (NUTVAL) records marked “d” in CN20 were removed from CN21. No source code 3 items were marked “d” in CN20, so none were removed from CN21.

**CN20 Release:** A record with a date after 01/18/2015 in the “date\_added” field is a new record in the CN20 release. A record with a date after 01/18/2015 in the “last\_modified” field and different from the date in the “date\_added” field contains a revised value in one or more of its fields with the CN20 release.

7764 food item (FDES) records, 7749 weights (WGHT) records, and 124286 nutrient value (NUTVAL) records marked “d” in CN19 were removed from CN20.

1016 new source code 1 food items have been added to CN20 from SR28.

All modified data from SR28, including food descriptions, weights, and nutrient values has been applied to CN20.

The nutrient data for food items corresponding to the *USDA Recipes for Schools* (source code 2 data) have been marked “d” in CN20 in anticipation of the release of the newly updated recipes throughout 2016. The data for the food items corresponding to the *Recipes for Healthy Kids* recipe set is still marked “a”. Nutrient and measure data for the new recipes will be provided in CN21 when the “d” data for the *USDA Recipes for Schools* is removed.

443 new source code 3 (food industry) food items from eight food companies have been added to CN20.

Minor edits were made to the source code 4 data.

**CN19 Release:** A record with a date after 01/18/2014 in the “date\_added” field is a new record in the CN19 release. A record with a date after 01/18/2014 in the “last\_modified” field and different from the date in the “date\_added” field contains a revised value in one or more of its fields with the CN19 release.

103 food item (FDES) records, 156 weights (WGHT) records, and 17,114 nutrient value (NUTVAL) records marked “d” in CN18 were removed from CN19. The 17,114 deleted NUTVAL records includes 15,481 Vitamin A (RAE) values (320), marked “d” in CN18.

300 new food items have been added to CN19 from SR27.

All modified data from SR27, including food descriptions, weights, and nutrient values has been applied to CN19.

165 new source code 3 (food industry) food items have been added. Outdated source code 3 food items added to the CNDB before March 2011 have been marked ‘d’ in CN19

The DQC file was not updated to the current required nutrients and was removed for CN19. It may be added back in a later version.

**CN18 Release:** A record with a date after 07/31/2013 in the “date\_added” field is a new record in the CN18 release. A record with a date after 07/31/2013 in the “last\_modified” field and different from the date in the “date\_added” field contains a revised value in one or more of its fields with the CN18 release.

142 food item (FDES) records, 1,185 weights (WGHT) records, and 13,653 nutrient value (NUTVAL) records marked “d” in CN17 were removed from CN18. The 13,653 deleted NUTVAL records includes 11,881 Vitamin A (RE) values (392), marked “d” in CN17. The 1,185 deleted WGHT records includes 952 records with a gram weight of 100 and a serving amount and description inconsistent with a 100 gram weight.

The length of the “MEASURE\_DESCRIPTION” field in the “WGHT” file has been increased from 80 to 100 characters to accommodate newly added weight values from the National Nutrient Database for Standard Reference, Release 26 (SR26) whose measure description field exceeds 80 characters.

In CN18, Total Sugars has been added as a nutrient in the NUTDES file, and values for total sugars, if available for National Nutrient Database for Standard Reference (SR) items (source code 1) have been added to the NUTVAL file.

4,620 new foods have been added to CN18 from SR26. This includes 374 new items added to SR26, and 4,246 existing SR foods which did not have values for the previously required 12 nutrients but do have values for the currently required three nutrients.

All modified data from SR26, including food descriptions, weights, and nutrient values has been applied to CN18.

**CN17 Release:** A record with a date after 03/1/2012 in the “date\_added” field is a new record in the CN17 release. A record with a date after 03/1/2012 in the “last\_modified” field and different from the date in the “date\_added” field contains a revised value in one or more of its fields with the CN17 release.

69 new USDA Foods (commodity foods) and 30 new recipes used in the National School Lunch Program and School Breakfast Program were added to CN17.

192 existing USDA Foods (commodity foods) used in the National School Lunch Program and School Breakfast Program were updated with revised commodity codes, and updated nutrient data, including the new Vitamin A(RAE) values if available.

In CN17, Vitamin A (RAE) has replaced Vitamin A (RE). All Vitamin A (RE) values in CN17 have been marked as discontinued (d). Vitamin A (RAE) values were added for all Standard Reference items and those Commodity Food and Recipe items where the data was available.

All 447 foods in the Standard Reference 25 ADD\_FOODS file have been added to CN17 provided that they met the nutrient requirements.

**CN16 Release:** A record with a date after 03/31/2011 in the “date\_added” field is a new record in the CN16 release. A record with a date after 03/31/2011 in the “last\_modified” field and different from the date in the “date\_added” field contains a revised value in one or more of its fields with the CN16 release.

25 new USDA Foods (commodity foods) used in the National School Lunch Program and School Breakfast Program were added to CN16.

192 existing USDA Foods (commodity foods) used in the National School Lunch Program and School Breakfast Program were updated with revised commodity codes.

For CN 16, only three nutrients (Calories, Saturated Fat and Sodium) were required to be present. In previous cycles, 12 nutrients were required.

All foods in the Standard Reference 24 ADD\_FOODS file have been added to CN16 provided that they met the nutrient requirements.

**CN15 Release:** A record with a date after 03/31/2010 in the “date\_added” field is a new record in the CN15 release. A record with a date after 03/31/2010 in the “last\_modified” field and different from the date in the “date\_added” field contains a revised value in one or more of its fields with the CN15 release.

All records with a blank value for last\_modified” date have been updated with the value in the “date\_added” field for that record in the CN15 release. For the purposes of tracking records with revised values in one or more fields, the “last\_modified” date must be later than 03/31/2010 AND different from the value in the “date\_added” field.

35 new USDA Foods (commodity foods) used in the National School Lunch Program and School Breakfast Program were added to CN15.

The Food\_Category\_Code values in the CTGNME file that do not have a corresponding code in the Standard Reference 23 FD\_GROUP file have all been marked as “d”. These categories will be removed in the CN 16 Release. As a result, a number of items in the FDES file have been re-categorized moving them from the discontinued category to an active

category.

**Note for CN15:** All Standard Reference 23 updates have been applied to the CN SREF products included in this release. 112 additional SREF products have been added and 25 SREF products have been coded as discontinued in this release. Nutrient and Weight change information was applied to the SREF products included in this release.

**CN14 Release:** A record with a date after 3/1/2009 in the "date added" field is a new record in the CN14 release. A record with a date after 3/1/2009 in the "last modified" field contains a revised value in one or more of its fields with the CN14 release. All products marked as discontinued in CN13 have been removed from CN14 (82 products).

The FINCL, FSUBCOD, and FSUBDES files were removed for CN14. Additionally, the corresponding fields ("CN Subcode" and "Include Line Number") were removed from the WEIGHTS and DQC files.

The USDA Foods (commodity foods) used in the National School Lunch Program and School Breakfast Program were added to CN14. These 184 items replaced the commodity items in CN13. The existing commodity items (source code 4) were either marked as discontinued or changed to source code 1 (if still active in the USDA Nutrient Database for Standard Reference (SR)). To accommodate the Commodity code, the "Recipe Code" field in the FDES table has been renamed to "Commodity or Recipe Code."

**Note for CN14:** All Standard Reference 22 updates have been applied to the CN SREF products included in this release. 111 additional SREF products have been added and 33 SREF products have been coded as discontinued in this release. Nutrient and Weight change information was applied to the SREF products included in this release.

**CN13 Release:** A record with a date after 5/1/2008 in the "date added" field is a new record in the CN13 release. A record with a date after 5/1/2008 in the "last modified" field contains a revised value in one or more of its fields with the CN13 release. All products marked as discontinued in CN12 have been removed from CN13 (79 products). Duplicate Weight measures that were mistakenly added in CN12 have been removed in CN13.

All items in the FINCL, FSUBCOD, and FSUBDES files have been marked as discontinued for CN13. These three files will be removed completely in CN14.

**Note for CN13:** All Standard Reference 21 updates have been applied to the CN SREF products included in this release. 202 additional SREF products have been added and 81 SREF products have been coded as discontinued in this release.

**CN12 Release:** A record with a date after 5/1/2007 in the "date added" field is a new record in the CN12 release. A record with a date after 5/1/2007 in the "last modified" field contains a revised value in one or more of its fields with the CN12 release. All products marked as discontinued in CN11 have been removed from CN12 (254 products).

**Note for CN12:** All Standard Reference 20 updates have been applied to the CN SREF products included in this release. 350 additional SREF products have been added and 248 SREF products have been coded as discontinued in this release.

**CN11 Release:** A record with a date after 3/1/2006 in the "date added" field is a new record in the CN11 release. A record with a date after 3/1/2006 in the "last modified" field contains a revised value in one or more of its fields with the CN9 release. All products marked for deletion in CN10 have been removed (108 products).

**Note for CN11:** All Standard Reference 19 updates have been applied to the CN SREF products included in this release. Eleven (11) SREF product deletes have been processed in this release. All CN SREF products were updated to match the descriptions (long description and abbreviated description) in SR19. A mass update to all CN SREF items in the FDES, NUTVAL, and WEIGHTS tables was performed to ensure consistency between the two databases. The MSFTCHG File was marked as discontinued in CN10 and has been removed from CN11. All Data Quality Control values were re-computed to include the Trans Fat optional nutrient (Nutrient code 605). The field length for FDES.Descriptor,

FINCL.Include\_Description, FSUBDES.Subcode\_Descriptor, and BUYGD.Food\_Description was increased from 200 to 255 characters.

**CN10 Release:** A record with a date after 10/1/2005 in the "date added" field is a new record in the CN10 release. A record with a date after 10/1/2005 in the "last modified" field contains a revised value in one or more of its fields with the CN9 release.

**Note for CN10:** All Standard Reference 18 updates have been applied to the CN SREF products included in this release. SREF product deletes have been processed in this release. 143 products from SR18 have been added in this release. All CN SREF products were updated to match the descriptions (long description and abbreviated description) in SR18. The MSFTCHG File is marked as discontinued in CN10 and will be removed from CN11. Trans Fat has been added as an optional nutrient (Nutrient code 605). All SR18 trans fat data within the CN database with Source Code=1 was updated. All Chef's Challenge recipes have been removed. Please note the addition of a special note on page 12 of this document regarding Value Type Codes: *the Value Type Code is intended for internal use only and should not be displayed to software users.* A new Data Quality Control value (4) has been added; this value will be used when all 12 required nutrient values and all 4 optional nutrient values have been provided. The following field names were changed: "Sequence" to "Weights\_Sequence\_Line\_Number" in the WEIGHTS TABLE and "Include\_Line\_Number" to "Include\_Sequence\_Number" in the FINCL Table.

**CN9 Release:** A record with a date after 7/15/2004 in the "date added" field is a new record in the CN9 release. A record with a date after 7/15/2004 in the "last modified" field contains a revised value in one or more of its fields with the CN8 release.

**Note for CN9:** All Standard Reference 17 updates have been applied to the CN SREF products included in this release. SREF product deletes have been processed in this release. Please note in CN9, that the USDA Recipes were updated which affects the information in the Food Description Table, the Weights Table and the Nutrient Value Table of CN9. Five recipes have been added and two have been removed. Most of the nutrient data for the recipe items have been changed. As of CN9, the nutrient unit for gram listed in the NUTDES Table has been changed from GM to g.

**CN8 Release:** A record with a date after 9/01/2002 in the "date added" field is a new record in the CN8 release. A record with a date after 9/01/2002 in the "last modified" field contains a revised value in one or more of its fields with the CN7 release.

**Note for CN8:** All Standard Reference 15 updates have been applied to the CN SREF products included in this release. One new Standard Reference Item has been added.

**In CN8,** the WEIGHTS (WGHT) file was created by merging the old MDES and GMWT files into one file.

The Food Buying Guide (FBG) file was updated to include the changes made in the November 2001, Revised *Food Buying Guide for Child Nutrition Programs* (Program aid 1331).

The Food Buying Guide Link File was updated with links from the updated Food Buying Guide File to the current Food Description File

**CN7 Release:** A record with a date after 5/01/2002 in the "date added" field is a new record in the CN7 release. A record with a date after 5/01/2002 in the "last modified" field contains a revised value in one or more of its fields with the CN7 release.

**Note for CN7:** The Standard Reference products included in this release have not been updated, due to a change in the Standard Reference format. Some New Standard Reference Items have been added.

**CN6 Release:** A record with a date after 5/16/2001 in the "date added" field is a new record in the CN6 release. A record with a date after 5/16/2001 in the "last modified" field contains a revised value in one or more of its fields with the CN6 release.

**CN5 Release:** A record with a date after 5/20/2000 in the "date added" field is a new record in the CN5 release. A record with a date after 5/20/2000 in the "last modified" field contains a revised value in one or more of its fields with the CN5 release.

**Note for CN5:** This release has re-activated some of the records that were marked as deleted in CN4: this affects the FDES, GMWT, NUTVAL tables. 279 products were re-activated. Future releases of CN will not re-activate deleted products, but will assign them new CN codes if needed.

**CN4 Release:** A record with a date after 7/07/1998 in the "date added" field is a new record in the CN4 release. A record with a date after 7/07/1998 in the "last modified" field contains a revised value in one or more of its fields with the CN4 release.

**CN3 Release:** A record with a date after 7/20/1995 in the "date added" field is a new record in the CN3 release. A record with a date after 7/20/1995 in the "last modified" field contains a revised value in one or more of its fields with the CN3 release.

**Note for CN3:** *The CN code has been changed in all files from N5 to N6, and all tables now contain the fields Date\_Added, Last\_Modified and Status. All dates are represented as MM/DD/YYYY and are enclosed in ~ (tilde) symbols. A new Data Quality Control table (DQC) has been added to this release and additional value type codes have been added to the NUTVAL Table to describe the type of value for a nutrient.*

**CN2 Release:** A record with a date after 1/31/94 in the "date added" field is a new record with the CN2 release. A record with a date after 1/31/94 in the "last modified" field contains a revised value in one or more of its fields with the CN2 release.

**Note for CN2:** A new field in the FOOD DESCRIPTION file--Form of Food--has been added to this file in the CN2 release. Form of food identifies whether a brand food requires additional preparation before serving (as purchased) or does not require any additional preparation before serving (as served).

The abbreviated descriptions for standardized recipes are the descriptions, which are listed on each recipe card. A new field--Nutrient Unit--has been added to the NUTDES file. The Nutrient Unit identifies the measure (calories, grams, milligrams, International Units, etc.) for reporting a nutrient in the Nutrient Values file. The Buying Guide Code in the BUYGD file has replaced the Market Code.

**In CN2,** new fields were added to make the descriptions for foods in the FDES file stand-alone. In the first release of the CNDB, the include description was not always stand-alone. For some foods, there was only a qualifying phrase such as "with fruit" for instant oatmeal. The complete identification of an INCLUDE food required both the individual INCLUDE DESCRIPTION and the DESCRIPTION from the FDES file for the linked CN code. Fields added for the CN2 release included the following: Food Category Code, Abbreviated Descriptor, Product Code, Manufacturer Name, Form of Food, Recipe Code, and Source Code. The Include Description or Brand/Label field was expanded in the CN2 release from a 100 to a 200 character field.

As with the FOOD INCLUDE file, new fields were added to the FOOD SUBCODE DESCRIPTION file in order to make the descriptions stand-alone since the CN1 release. Fields added are the following--Food Category Code, Abbreviated Descriptor, Product Code, Manufacturer Name, Form of Food, Recipe Code and Source Code. The Subcode Descriptor field was expanded from a 100 to a 200 character field.