

Keeping up with the marketplace:



Updates to the USDA Food and Nutrient Database for Dietary Studies, 3.0

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Outline

- Description of FNDDS
 - contents
 - purpose
- Keeping FNDDS current
- Updates for release 3.0
- Availability of FNDDS



Contents of FNDDS

- 7,000 food codes
 - basic foods
 - mixed dishes
 - brand names
- 30,000 portion weights
 - wide variety, as people report portions
- 64 nutrient values for each food
 - no missing values



Source of Nutrient Values

- Basic data from: USDA National Nutrient Database for Standard Reference (SR)
- 2,800 SR codes \Rightarrow 7,000 FNDDS food codes
 - 1/3 FNDDS codes are direct 1:1 links to SR items
 - 2/3 are created by combining multiple SR codes
- List of SR codes, amounts, retentions and adjustment factors
 - provided as part of database
 - document calculation of nutrients for FNDDS food codes



Purpose of FNDDS

- Process food intake records & calculate nutrient intakes
- For the national U.S. survey
 - 5,000 individuals per year
 - two 24-hour recalls
- Can be used for other dietary studies



Dietary Intake Data System

Automated Multiple Pass Method (AMPM)

used to collect 24-hour dietary recalls



Post-Interview Processing System (PIPS)

includes auto-coding of foods and amounts to FNDDS



Survey Net (with FNDDS*)

used for manual coding and final processing of intakes



**Food and Nutrient
Results**



Keeping FNDDS Current

- Food marketplace is constantly changing
- Each year thousands of new foods and packages
- Impossible to include everything
- How do we decide?
 - consider our purpose
 - attention to high frequency/high impact foods
 - e.g. fortified breakfast cereals
 - add new foods, new portions after reported in survey



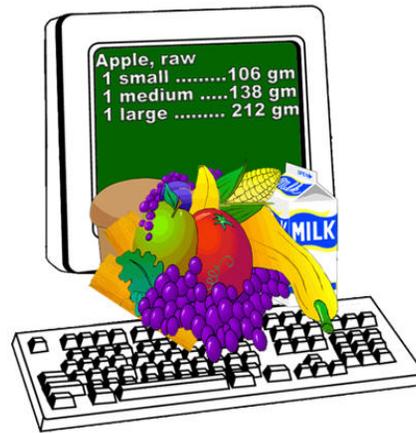
Keeping FNDDS Current

- Alerted to need for new or revised data through:
 - Survey Net system for identifying unknown foods and amounts
 - reviews of food categories by FSRG nutritionists
 - notification of changes from USDA Nutrient Data Lab

Frequency of Updates to FNDDS

Used for Survey period	Release #	Date released
2001-2002	FNDDS, 1.0	June 2004
2003-2004	FNDDS, 2.0	June 2006
2005-2006	FNDDS, 3.0	May 2008*

THE USDA FOOD AND NUTRIENT DATABASE FOR DIETARY STUDIES, 3.0 – DOCUMENTATION AND USER GUIDE



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Table 1. Changes between FNDDS 2.0 and FNDDS 3.0

Type of change	Typical reasons and/or examples
<i>Database format</i>	
Released as SAS dataset, in addition to ASCII and Microsoft ACCESS®	For ease of use by researchers using WWEIA, NHANES intake data
<i>Food descriptions component</i>	
Food codes and descriptions added (N=115)	New products, such as new ready-to-eat breakfast cereals; infant formulas; mixed dishes that had not been reported previously, such as Pad Thai variations; generic codes to represent fruit juice blends, fruit juice drinks, and fruit flavored drinks.
Food codes and descriptions discontinued (N=134)	Products no longer on the market (such as certain brands of meal replacements); items such as specific fruit juice blends and specific flavors of fruit drinks consolidated into generically described codes.
A single food code replaced by 2 food codes with more detailed descriptions (N=1)	“Wine, table, dry” replaced by “Wine, table, red” and “Wine, table, white”.
New specific food codes created for items previously represented by another code (N=7)	Products such as “Gatorade Thirst Quencher sports drink” and “Powerade sports drink” previously coded under “Fruit-flavored thirst quencher beverage”; Tilapia prepared by various methods previously included under codes for Perch.
2+ food codes consolidated to 1 food code with less detailed description (N=1 pair)	Soyburger and Vegetable burger (made from grain and vegetables) replaced by Vegetarian burger (a composite).
Food items renumbered to fit better into the food coding scheme (N=2)	Pea soup, instant type: from 41602040 to 75609030; Wrap sandwich, filled with vegetables: from 77300000 to 58200250.
Food descriptions (main or additional) revised (N=861)	Manufacturers' name changes for ready-to-eat breakfast cereals, infant formulas, and candy; change in market terms for ground beef (such as specific number values for %lean: %fat rather than descriptive term such as regular, lean or extra lean); review of Puerto Rican foods: addition of Spanish terms for many food items...



Updates to FNDDS-3.0

- 115 foods added
- 134 foods deleted
- 861 food descriptions revised
- Other food code changes

- 855 food portions & weights added
- 412 food portions & weights revised
- 685 food portions & weights deleted

- Updated nutrient values
- 1 new nutrient
- Many revisions in FNDDS-SR links



Updates to FNDDS-3.0

- 115 foods added
- 134 foods deleted
- 861 food descriptions revised
- Other food code changes
- 855 food portions & weights added
- 412 food portions & weights revised
- 685 food portions & weights deleted
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- New foods
- Mixed dishes
- Composite codes
 - juice blends
 - juice drinks
 - fruit-flavored drinks





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- Foods no longer available on market
- Some specific juice blends & flavors of fruit drinks



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- **Product name changes**
- **Market terms for ground beef**
 - < 80% lean vs “regular”
- **Additional Spanish descriptions**



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Updates to FNDDS-3.0

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- **855 food portions & weights added**
- 412 food portions & weights revised
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- For new foods
- New package sizes, new sizes for fast food items



- **Portions redefined**
 - "1 piece" of pizza now 1/8 of a 14" pizza



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- Changes in fast food items, candy bars





Updates to FNDDS-3.0

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 - 855 food portions & weights added
 - 412 food portions & weights revised
 - **685 food portions & weights deleted**
 - Updated nutrient values
 - 1 new nutrient
 - Many revisions in FNDDS-SR links
- **For discontinued codes**
 - **Portion sizes no longer on the market**



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- Other food code changes

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- **Updated nutrient values** _____
- 1 new nutrient
- Many revisions in FNDDS-SR links

• From SR20,
released
Sept 2007



Updates to FNDDS-3.0

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 - Other food code changes

 - 855 food portions & weights added
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 - 685 food portions & weights deleted

 - Updated nutrient values
 - **1 new nutrient**—————
 - Many revisions in FNDDS-SR links
- **Total choline**

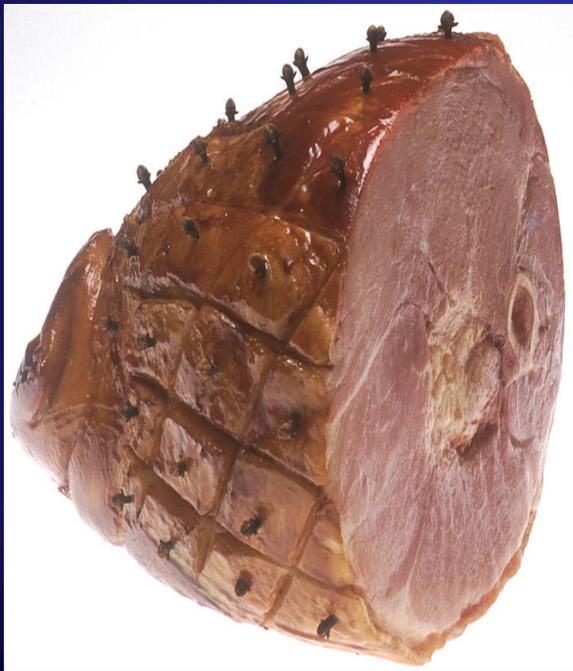


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- Updated nutrient values
- 1 new nutrient
- **Many revisions in FNDDS-SR links**





Availability of FNDDS

1. Download from the Internet

- SAS dataset – **new for 3.0**
- Microsoft Access database
- ASCII files

2. What's in the Foods You Eat *Search Tool*

www.ars.usda.gov/ba/bhnrc/fsrg