

36<sup>th</sup> National Nutrient Databank Conference

## Addendum to the MyPyramid Equivalents Database 2.0

Kristin L. Koegel\*, Kevin J. Kuczynski,  
Patricia Britten

*U.S. Department of Agriculture, Center for Nutrition Policy and Promotion, Alexandria, VA 22302, USA*

---

### Abstract

**Background:** The MyPyramid Equivalents Database (MPED) provides amounts of food groups and subgroups in foods consumed in nationwide food consumption surveys. The most recent MPED issued by the Agricultural Research Service (ARS) was Version 2.0, created for use with the National Health and Nutrition Examination Survey (NHANES) 2003-04. Several of the Center for Nutrition Policy and Promotion's (CNPP) projects require food group equivalents data for foods from more recent NHANES.

**Objective:** To provide a supplementary database of food group equivalents for more recent NHANES foods, for use in CNPP projects.

**Description:** Additional foods (n=820) reported in NHANES 2005-06 and 2007-08 were identified for inclusion in several CNPP projects, including the new online diet assessment tool, the SuperTracker. Cup and ounce equivalents were calculated for 750 foods by using the approach described in the documentation for the MPED 2.0. The USDA National Nutrient Database for Standard Reference, Release 23 (2010) was used for calculations. ARS provided equivalents data for 70 formulated foods. The Addendum to the MPED includes cup or ounce equivalents per 100 grams of food for each USDA food group and subgroup, grams of discretionary solid fats and oils, teaspoons of added sugars, alcoholic beverages, as well as whole fruit and fruit juice equivalents. The Addendum database and documentation are available on the CNPP web site at: <http://www.cnpp.usda.gov/OtherProjects.htm>.

**Conclusion:** The Addendum provides useful data for foods from more recent NHANES that are not in MPED 2.0. It will be available until the next equivalents database is released by ARS.

© 2013 The Authors. Published by Elsevier Ltd. Open access under [CC BY-NC-ND license](https://creativecommons.org/licenses/by-nc-nd/4.0/).

Selection and peer-review under responsibility of National Nutrient Databank Conference Steering Committee

*Keywords:* MPED, food group; equivalents; MyPyramid

---

### 1. Introduction

CNPP recently released the SuperTracker, a Web-based diet and activity assessment tool. With this interactive tool, users can track their food group intake, in addition to caloric and nutrient intake, calories from solid fats and added sugars intake, weight, and physical activity. Their intake is compared to nutrient and food group recommendations.

The food database for the SuperTracker is based on foods consumed in NHANES. Consumers using the SuperTracker expect to find foods and beverages they have consumed. Nutrient data for foods consumed up through NHANES 2007-08 are available for use. However, the most current food group

---

\* Corresponding author: Tel.: 703-305-2157; fax: 703-305-3300.  
E-mail address: [kristin.koegel@cnpp.usda.gov](mailto:kristin.koegel@cnpp.usda.gov)

information available currently is Version 2.0 of the MPED [1], developed for use with NHANES 2003-04. For this project, additional new foods consumed by NHANES respondents from 2005 to 2008 were reviewed to determine those that would be most useful for the SuperTracker and other CNPP projects. CNPP nutritionists reviewed the complete list of new foods consumed by survey respondents to decide which might be consumed by SuperTracker users. For example, “Cereal bar with fruit filling, baby food” was not selected, because infants are not a target audience for the SuperTracker. In addition, some foods with the description “NS” (Not specified) were not selected, as the assumption was made that SuperTracker users would know what they had eaten. For example, it was decided not to include “Pizza, extra cheese, NS as to type of crust.” The supplementary database of equivalents data for selected foods was developed as a temporary Addendum to the MPED 2.0.

## **2. Food codes in Addendum**

The 820 food codes selected for the Addendum were reported in Day One of NHANES 2005-06 and 2007-08 data cycles for individuals age 2 years and older (excluding breastfed children) who had complete recalls. [2, 3]

Cups and ounce equivalents were calculated by CNPP staff for 750 of the 820 foods by using the general approach described in the documentation for the MPED 2.0. The USDA National Nutrient Database for Standard Reference, Release 23 (2010) was used for calculations (e.g., for calculating equivalents for various soy milks, using calcium and fat content). [4] Examples of the 750 foods included in the Addendum and for which CNPP calculated equivalents, and the total number of foods from each food category in the Addendum, are listed in Table 1.

Food codes found in the MPED 2.0 that had modifications made to them for 2005-06 and/or 2007-08 (e.g., different type of fats and milk) also may be included in the Addendum.

The Nutrient Data Laboratory of the Agricultural Research Service provided food group and subgroup equivalents for use in the Addendum for 70 fast food restaurant items and foods with proprietary formulas, such as ready-to-eat cereals and snack-type energy bars. Table 2 shows examples of some of these 70 formulated foods.

## **3. Foods and variables included in Addendum**

The MPED includes cup or ounce equivalents per 100 grams of food for each USDA food group and subgroup, grams of discretionary solid fats and oils, teaspoons of added sugars, alcoholic beverages, as well as whole fruit and fruit juice equivalents, as listed in Table 3. Variables used are those from ARS' MPED. Units of measure are those used in the USDA Food Patterns.

## **4. Conclusions**

The SuperTracker interactive diet assessment tool contains complete food group equivalent data on commonly eaten foods, greatly enhancing its usability. The majority of the foods in the Addendum were intended for use in the SuperTracker, but have also been used in other CNPP projects more recently.

These interim food group data, the ‘Addendum,’ have proven to be valuable to the SuperTracker and other ongoing CNPP projects, and have been used by other researchers as well. As more SuperTracker users request additional foods to be added to the SuperTracker, MPED equivalents may be calculated for them as is feasible, and equivalents data for these foods may be added to the Addendum as well. The Addendum will be used until the next MPED is released by ARS.

The Addendum, including documentation, is available at:  
<http://www.cnpp.usda.gov/OtherProjects.htm>.

Download English Version:

<https://daneshyari.com/en/article/1265491>

Download Persian Version:

<https://daneshyari.com/article/1265491>

[Daneshyari.com](https://daneshyari.com)