The World Nutrient Databases for Dietary Studies
New Information Portal about Food Composition Databases and Tables

MORVEN A. MCLEAN PH.D.

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Disclosure Statement

I have no actual or potential conflict of interest in relation to this presentation.
ILSI’s Global Network

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Bringing Scientists Together

The ILSI Research Foundation is a non-profit scientific organization with a mission to bring scientists together to improve environmental sustainability and human health.

Working for Public Benefit

The ILSI Research Foundation collaborates with scientific experts around the world. Our research, capacity building and outreach efforts currently include:

- Environmental Risk Assessment
- Food Safety Assessment
- Sustainable Nutrition Security
- Agricultural Biotechnology
- Biosafety Capacity Building
World Nutrient Databases for Dietary Studies (WNDDS)

An online resource of information about country, regional and international food composition databases and tables

Serves to aide users in their initial assessment of the scope and depth of nutritional composition data available for certain countries and regions
What is WNDDS?

**Allows for assessment of available food composition data across national, regional, and international databases and tables**

Query for specific indicators including:
- Descriptive information
- Food classifications/groups
- Nutrients

Presents findings in multiple formats

**Does not contain compositional data from databases or tables**

Does not allow for in-depth analyses e.g., some indicators in WNDDS are binary
How was WNDDS developed?

ILSI Research Foundation staff compiled information about FCDBs utilizing publicly available resources.

FCDB managers confirmed information and/or provided additional information.

Information translated to a user-friendly interface.

Two rounds beta-testing and improvements.

User’s Guide to the World Nutrient Databases for Dietary Studies (WNDDS)

About WNDDS

Food composition data have many uses, including evaluating nutritional variation of plants and foods, analyzing relationships between nutrient intake and diseases, and establishing dietary guidelines. Food composition data are generated through various methods including analytical measurements, calculations, and estimations. Many national and regional organizations, particularly governments, have developed their own food composition databases or tables (collectively abbreviated herein as "FCDBs") to provide information about the nutritional composition of foods relevant to a country or region. To facilitate easy access to these important resources, the ILSI Research Foundation has compiled a catalogue of publicly available databases and tables.

The World Nutrient Databases for Dietary Studies (WNDDS) is displayed as an interactive map that enables users to explore, analyze, and filter 90 FCDBs from 52 countries and regions. WNDDS is meant to be a starting platform for users to learn about available food composition databases and tables to determine which may suit their needs. WNDDS provides hyperlinks to direct the user to the source databases and tables (when available).

Details about how the information compiled in WNDDS was collected are provided below. For any questions or comments about WNDDS, please feel free to contact the ILSI Research Foundation at WNDSS@ilsirf.org for more information.

Users of WNDDS

WNDDS was designed with researchers, dietitians, students, government-officials, and database managers in mind. It serves to aid users in their initial assessment of the scope and depth of nutritional composition data available for certain countries and regions.

Features

- 90 Food Composition Databases and Tables
- 52 Countries and Regions
- 24 Food Classifications
- 19 Nutrients

Methods

The information in WNDDS was obtained through a systematic review of accessible databases and tables. Each database and table was initially screened for information related to the categories and subcategories described below. After the initial review process, managers of the databases and tables were contacted to share the project goals, the scope of the information being collected, and provide any additional information that might be helpful for users. If a manager of a database or table couldn’t be identified to
ilsirf.org/resources/databases/wndds/
Example 1

A student asked where she could find food composition databases globally that contain values for the choline content of foods. She had already accessed NZ, Canada, UK and USDA but wondered if there are any others.
Example 2

A researcher is looking for national-level food composition data for dairy in South America.
**Dairy and Dairy Products**

<table>
<thead>
<tr>
<th>Country</th>
<th>Foods</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>2080</td>
<td>100%</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>297</td>
<td>99%</td>
</tr>
<tr>
<td>Peru</td>
<td>430</td>
<td>100%</td>
</tr>
<tr>
<td>Chile</td>
<td>219</td>
<td>100%</td>
</tr>
<tr>
<td>Uruguay</td>
<td>85</td>
<td>100%</td>
</tr>
<tr>
<td>Argentina</td>
<td>266</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Descriptive Information**

- **Fast Food and Restaurant Food**
- **Desserts, Pastries and Snacks**
- **Fats and Oils**
- **Sugar, Syrup and Confectionery**
- **Spices and Condiments**
- **Alcoholic Beverages**

**Non-Alcoholic Beverages**

**Latin America & Cuba**

- Argentina
- Brazil
- Chile
- Costa Rica
- Peru
- Uruguay

**ILSI Research Foundation**

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What’s next

WNDDS is a work in progress...
- Efforts continue to improve the user interface
- Update the information semi-annually

Feedback to improve this resource is always encouraged

Partners for WNDDS
ILSI Research Foundation | Crop Composition Database

- 195 analytes
- 972,000 data points
- 1492 average page views per month
- 18 years of data from 15 countries
- Used in 65 countries
- 17,182 unique visits
- 8 crops: canola, field corn, sweet corn, cotton, potato, rice, sorghum, soybeans

www.cropcomposition.org

2017

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Thank You!

Questions?
Comments?
Suggestions?