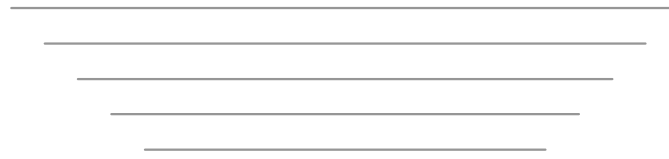


Compilation tool in Excel to manage food composition data in the absence of a food composition database management system

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Outline

- Introduction to food composition database management system (FCDBMS)
- Compilation Tool
 - objective
 - structure
 - dissemination
 - users
- Conclusions



Introduction

- FCDBMS is needed to compile a food composition database
 - FCDBMS exist:
 - for national/regional programmes
 - commercial products for different uses (e.g. labelling)
 - for certain projects
 - No FCDBMS exists for international use as yet
 - BUT especially developing countries do not have the financial means to develop their own FCDBMS software
- ➔ Compilation tool version 1.2 was developed by FAO/INFOODS to fill this gap



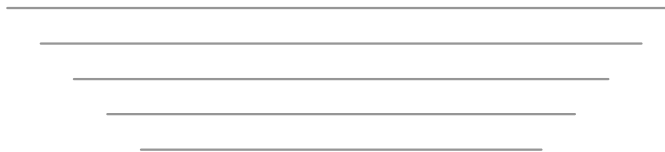
Compilation tool - objectives

- to give compilers a product to compile and manage their food composition database according to international standards
- to be simple in use while allowing comprehensive documentation
- to provide a flexible tool so that users can adapt it to their needs
- to be used with Food Composition Study Guide to practice calculation, documentation and compilation



Compilation tool - structure

- 125 nutrients (macro and micronutrients, AA, FA)
- based on INFOODS interchange (2003) elements (for value documentation, method, bibliography, sampling)
- uses INFOODS tagnames (component names)
- uses Greenfield and Southgate (2003) terminology (archival, reference and user database)
- includes nutrient retention factors from McCance and Widdowson's (6th edition), Bognar (2002) and Bergstroem (1994) – can be replaced by any other factors
- 3 recipe calculation systems (recipe, ingredient and mixed method)



Compilation tool - structure

In Excel with several worksheets:

- Codes
- Archival database
- Reference database
- Recipe + ingredients
- Recipe calculation
- User database
- Component
- Bibliography
- Value documentation
- Sampling
- Methods
- Copyright FAO[©]



Analyse or calculate NVs of recipes

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Inter- and intraindividual
variation in recipe
preparation

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Variation of NV in analytical
determination

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Variation of NV when
calculating recipes using
yield and retention factors

Why analyze recipes if calculated NV are within variability of
recipe preparation?



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Compilation tool - dissemination

- Available at the INFOODS website
<http://www.fao.org/infoods/SOFTWARE/compilation%20tool%20version1.2.xls>
- Free of charge
- No user manual exists yet but instructions are found in exercises in Food Composition Study Guide (modules 8, 10, 10.a)



Compilation tool - users

- Has been used to compile food composition database of Lesotho and Armenia
- Updated version 1.2 after receiving comments from INFOODS listserv
- Learners using the Food Composition Study Guide to practice calculation, documentation and compilation
- Compilers without access to comprehensive FCDBMS



Used to compile biodiversity database in FAO

- add phytoestrogens (with INFOODS tagnames)
 - compile data from the literature on biodiversity
- ➔ if you have data that you wish to share please send to ruth.charrondiere@fao.org



Conclusions

- simple, cheap, flexible and useful tool for global use according to international standards allowing compilation with full documentation
 - for compilers without FCDBMS and learners of Study Guide
 - BUT use of spreadsheets are more prone to errors as compared to relational databases and users must know Excel
- meets an immediate need
- hoped that SQL or Access relational databases could be developed following this model and disseminated through FAO/INFOODS free of charge

