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GENERAL INFORMATION

Title of Dataset: LoCard Food Classification

Authors: Satu Kinnunen¹ (0000-0001-7673-0243), Noora Kanerva¹ (0000-0001-6776-9357), Jaakko Nevalainen² (0000-0001-6295-0245), Anna-Stiina Suur-Uski³ (0000-0001-5029-2863), Maijaliisa Erkkola¹ (0000-0002-6966-1523), Mikael Fogelholm¹ (0000-0001-8110-102X), Henna Vepsäläinen¹ (0000-0002-0177-3609), Jelena Meinilä¹ (0000-0002-6377-1377), Hannu Saarijärvi² (0000-0001-5803-9037)

¹ University of Helsinki, Finland

- ² Tampere University, Finland
- ³ Tampere University Library, Finland

Contacts:

Name: Kinnunen, Satu ORCID: 0000-0001-7673-0243 Institution: University of Helsinki, Finland Address: PL 66 (Agnes Sjöbergin katu 2), 00014 University of Helsinki, Finland Email: satu.kinnunen@helsinki.fi

Name: Kanerva, Noora ORCID: 0000-0001-6776-9357 Institution: University of Helsinki, Finland Address: PL 66 (Agnes Sjöbergin katu 2), 00014 University of Helsinki, Finland Email: noora.kanerva@helsinki.fi

Date of data collection: from 2016-09-01 to 2018-12-31

Information about funding sources that supported the collection of the data:

This research was funded by the Academy of Finland (#350862 JN; #350863 MF), the Juho Vainio Foundation (#202200480 ME; #202100202 JM), the Emil Aaltonen Foundation (JM), the Yrjö Jahnsson Foundation (JM), and the Finnish Food Research Foundation (HV

SHARING/ACCESS INFORMATION

Licenses/restrictions placed on the data: Creative Commons Attribution 4.0 International

Links to publications that cite or use the data: $\ensuremath{\mathsf{N/A}}$

Recommended citation for this dataset:

Kinnunen, S., Kanerva, N., Nevalainen, J., et al. (2023) LoCard Food Classification. Zenodo. DOI: 10.5281/zenodo.7781352

DATA & FILE OVERVIEW

File List:

- locard_classification_nutrients_28DEC2022.csv
- LoCard_classes_fin-eng_2020-06-09.xlsx
- README.pdf

METHODOLOGICAL INFORMATION

Description of methods used for collection/generation of data:

The grocery purchase data including 3574 product groups was received from the retailer for research purposes. The data was reclassified into appropriate categories suitable for the use of nutrition and health research.

Methods for processing the data:

A four-level hierarchical classification of product groups was used. Each class on the broadest level of hierarchy (Class 1) was subsequently divided into a reasonable number of finer sub-classes starting with Class level 2, followed by Class 3, and finally, Class 4, which was the most detailed level of hierarchy. The main ingredient of the product group, type of the food and purpose of use, nutritional content, and carbon footprint were considered in the reclassification process. The classified food groups were linked with Finnish food composition database.

The authors strongly recommend reading the detailed description of the classification is published in <u>https://doi.org/10.21203/rs.3.rs-2826970/v1</u>

DATA-SPECIFIC INFORMATION FOR: locard_classification_nutrients_28DEC2022.csv

Number of variables: 17

Number of cases/rows: 1029

Variable List:

Class_1highest level of hierarchy including 35 main food groups based on healthiness (Nordic NutritionNordic Council of Ministers.Vol. Nordic 2013/009.
including 35 main food groups based on <i>healthiness</i> (Nordic Nutrition Vol. Nord 2013/009.
groups based on <i>healthiness</i> recommendations. 5th ed. (Nordic Nutrition Vol. Nord 2013/009.
(Nordic Nutrition Vol. Nord 2013/009.
<i>Recommendations)</i> and Denmark: Norden; 2013.
main ingredients (grouping
of the Finnish Food <u>www.fineli.fi</u>
Composition Database
Fineli).
Class_2 114 food groups.
Class_3 159 food groups unique to
Class_3, and 170 unique
combinations of Class_1 to
Class_3.
Class_4 Finest level of hierarchy.
Includes 164 unique food
groups, and 198 unique
combinations of Class_1 to
Class_4.
fineli_foodid Identification code of the <u>www.fineli.fi</u>
food in the Finnish Food
Composition Database Fineli Reinivuo H, Hirvonen T,
(version 20). Ovaskainen ML, Korhonen
T, Valsta LM. Dietary survey
Some values are taken from methodology of FINDIET
US database ("usda"), from 2007 with a risk assessment
product label ("producer"), perspective. Public health
or analysed in laboratory as nutrition. 2010
part of an intervention Jun;13(6A):915–9.
study ("beanman").
Values used from USDA:
/5224023 Green peas,
canned, cooked, no added
andiad

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acids (PUFA), calcium, iron. Recommended values are
vitamin D. vitamin C and from Finnish Nutrition
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(saturated fatty acids (SFA) are the same as in the
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calculated as an average of percentages of daily recommendation (DR%):	recommendations (6000 mg in the Nordic nutrition recommendations).
Positive score: (DR% protein + DR% fibre + DR% PUFA + DR% Ca + DR% Fe + DR% Vit D + DR% Vit C + DR% folate) / 8	Recommended values for calculating the percentage of daily recommendation (DR%) are:
Negative score: (DR% sucrose + DR% SFA + DR% salt) / 3 Last, NRFI was calculated by subtracting the negative score from the positive	(corresponding 15% of energy in 2400 kcal diet) Fibre = 25g Polyunsaturated fat (PUFA)=20g (corresponding 7.5% of energy in 2400 kcal diet)
score. The scores vary from -6.538 to 1.261. Positive score reflects higher nutritional quality and negative score reflect lower nutritional quality of the grocery product group.	Calcium (Ca) = 800mg Iron (Fe) = 9mg Vitamin D = 10µg Vitamin C =75mg Folate = 300mg Sucrose = 60g (corresponding 10% of energy in 2400 kcal diet) Saturated fat = 26.7g (corresponding 10% of
	energy in 2400 kcal diet) Salt = 5000mg Nordic Council of Ministers. Nordic nutrition recommendations. 5th ed. Vol. Nord 2013/009. Denmark: Norden; 2013.

Missing data codes: Does not apply for the data in question

Specialized formats or other abbreviations used:

Ancillary data file (LoCard_classes_fin-eng_2020-06-09.xlsx) lists the abbreviated food group names used in the classification data with full names both in English and in Finnish.

DATA-SPECIFIC INFORMATION FOR: LoCard_classes_fin-eng_2020-06-09.xlsx

Number of variables: 3

Number of cases/rows: 241

Variable List:

Variable name	Description
Tuoteryhmä	Food group names in
	Finnish.
Food group	Food group names in
	English.
Abbreviates name	Abbreviated food group
	names used in the
	classification data.

Missing data codes: Does not apply for the data in question.

Specialized formats or other abbreviations used: For alcoholic beverages numbers 0XY refer to the alcohol content (X.Y%) of the products.