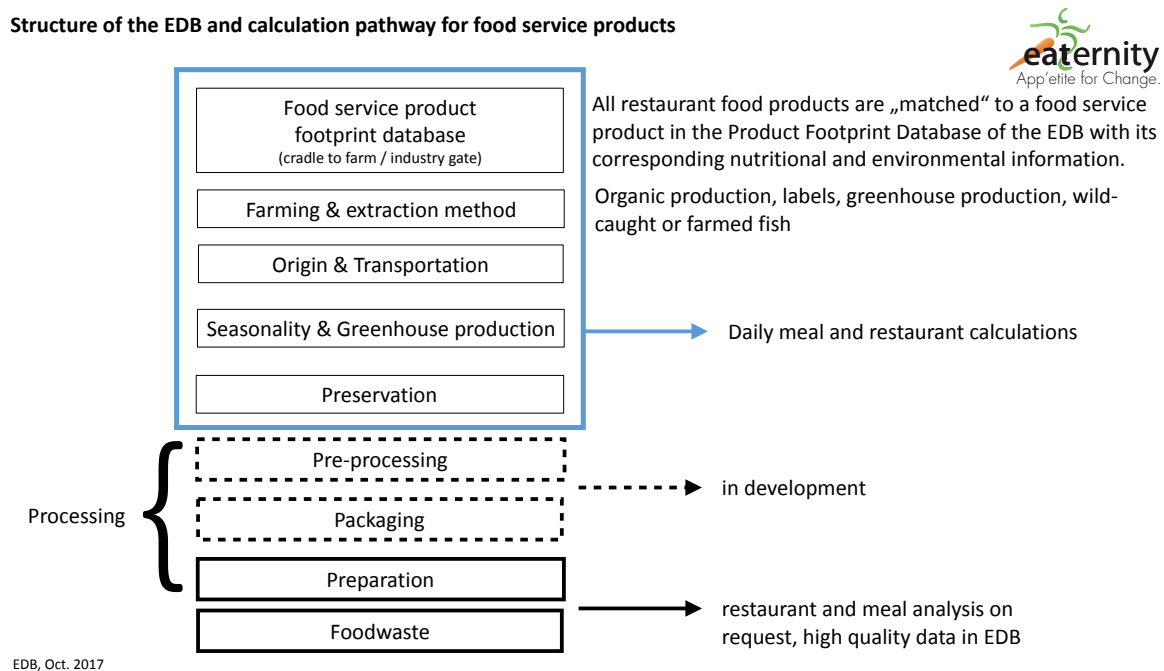


Eaternity Database References

[2019-02-01]

This list contains main external data sources used in the Eaternity Database. Eaternity works with the LCA software [Brightway](#) to adjust and improve datasets to fit best the purpose of our solutions. The scope of our data currently covers food products from farm to gate.

Structure of the EDB and calculation pathway for food service products



1. Databases

LCI

Ecoinvent - <https://www.ecoinvent.org>

Agribalyse - Ademe - <https://www.ademe.fr/en/expertise/alternative-approaches-to-production/agribalyse-program>

Agri-food Database - ZHAW - www.zhaw.ch/IUNR/agri-food

Agri-footprint database - Blonk Consultants - <http://www.agri-footprint.com>

WFLDB World food database - Quantis - <https://quantis-intl.com/tools/databases/wflldb-food/>

ESU World Food LCA Database - ESU-services GmbH - <http://esu-services.ch/data/fooddata/>

BONSAI – Big Open Network for Sustainability Assessment Information - <http://bonsai.uno>

Other

Food and Agriculture Organization of the United Nations (FAO) - <http://www.fao.org/faostat/en/#data/TP/metadata>

Meteonorm Software Version 7.0 - Meteotest AG - <https://meteonorm.com>

EcoTransIT World - Ingenieurgesellschaft für Verkehrs-und Eisenbahnwesen mbH (IVE mbH) - <https://www.ecotransit.org>

Nutrients

Schweizer Nährwertdatenbank - Bundesamt für Lebensmittelsicherheit und Veterinärwesen BLV - <http://www.naehrwertdaten.ch>

EuroFIR - European Food Information Resource Network (EUROFIR) - <http://www.eurofir.org/foodexplorer/>

2. Reports & Publications

2.1 Climate Score

[Ecoinvent](#), Zurich, Switzerland

Wernet, G., Bauer, C., Steubing, B., Reinhard, J., Moreno-Ruiz, E., and Weidema, B., 2016. The ecoinvent database version 3 (part I): overview and methodology. The International Journal of Life Cycle Assessment, [online] 21(9), pp.1218–1230. Available at: <<http://link.springer.com/10.1007/s11367-016-1087-8>>

[ZHAW Institute of Natural Resource Sciences](#), Wädenswil, Switzerland

Berli, C, Scharfy, S, Stucki, M (2014). Wie ökologisch sind Milch-Ersatzprodukten? ZHAW Zurich University of Applied Science, Wädenswil, unpublished report.

Camezind, P, Itten, R, Stucki, M (2016). Life cycle inventory datasets of pastries. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report. ZHAW Agri-food Database, www.zhaw.ch/IUNR/agri-food. LCIA also available at the Eaternity Database (EDB - edb.eaternity.org).

Eymann, L, Kreuzer, S, Stucki, M & Scharfy, D (2014). Ökobilanz von Milch und Milchproduktion. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report. ZHAW Agri-food Database, www.zhaw.ch/IUNR/agri-food. LCIA also available at the Eaternity Database (EDB - edb.eaternity.org).

Eymann, L, Frei, S, Stucki, M. (2014). Treibhauspotenziale von Gewächshaus-Gemüse. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report.

Eymann, L, Stucki, M, Looser, F (2016). Ökobilanz von Schokolade. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report.

Hirsiger, E, and Stucki M, (2015). Umweltbelastung von Schweine- und Lammfleisch. Ökonomische Allokation auf der Stufe von Fleischstücken. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report. ZHAW Agri-food Database, www.zhaw.ch/IUNR/agri-food. LCIA also available at the Eaternity Database (EDB - edb.eaternity.org).

Hirsiger, E, and Stucki M, (2015). Ökobilanzierung von Bouillon. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report. ZHAW Agri-food Database, www.zhaw.ch/IUNR/agri-food. LCIA also available at the Eaternity Database (EDB - edb.eaternity.org).

Itten, R (2016). Ökonomische Allokation von Pouletfleisch. ZHAW Zurich University of Applied Science, Wädenswil, unpublished document.

Itten, R, Eymann L, Stucki M. (2017). EAT-IT - Modeling Life Cycle Environmental Impacts of Food and Beverage Items. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report.

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Kreuzer, S (2016). Ökobilanz von Fohlen- und Pferdefleisch aus der Schweiz und Kanada. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report.

Scharfy, D, Itten, R & Bischof, T (2016). Organic LCA and allocation data for the Eaternity Database. Work Package A4 of the Organic Footprint project. ZHAW Zurich University of Applied Science, Wädenswil, unpublished report.

Scharfy, D, Itten, R & Bischof, T (2016). Life cycle assessment of different organic certification schemes. Work Package A2/A3 of the Organic Footprint project. Unpublished report. ZHAW Zurich University of Applied Science, Wädenswil.

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Quantis

Thierrin, R. Meat and Egg LCI. Documentation of LCI dataset for beef, chicken, pork, trout meat and egg production created for the Eaternity database., (2017). Quantis, Zürich, unpublished report.

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Koch P. and Salou T. 2015. AGRIBALYSE*: Rapport Méthodologique – Version 1.2. (March 2015). Ed ADEME. Angers. France. 385 p.

2.2 Water Footprint

Scherer, L & Pfister, S (2016). Global Biodiversity Loss by Freshwater Consumption and Eutrophication from Swiss Food Consumption. Environmental Science and Technology, 50, 7019-7028.

O'Connor, I, Ellens, J (2018). Which indicators in addition to the carbon footprint are most important to consider when we evaluate the impact of food consumptions?

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Pfister, S. et al., (2011). Environmental impacts of water use in global crop production: Hotspots and trade-offs with land use. *Environmental Science and Technology*, 45(13), pp.5761–5768.

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2.3 Animal Welfare Label

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2.4 Rainforest Label

O'Connor, I, Ellens, J (2018). Which indicators in addition to the carbon footprint are most important to consider when we evaluate the impact of food consumptions? Unpublished report. Eaternity AG, Zurich. Engagement Migros development fund.

2.4 Health Score

GBD 2015 RISK FACTORS COLLABORATORS (2016). Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*, 388, 1659-1724.

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SCHWEIZERISCHE GESELLSCHAFT FÜR ERNÄHRUNG. 2017b. *Empfehlungen BLV* - <http://www.sge-ssn.ch/grundlagen/lebensmittel-und-naehrstoffe/naehrstoffempfehlungen/empfehlungen-blv/>