

Research Institute of Organic Agriculture Forschungsinstitut für biologischen Landbau Institut de recherche de l'agriculture biologique



Food Quality How do we get nutrition into the final product

Bennan Tong (bennan.tong@fibl.org)

FiBL at a glance



- > Founded in 1973, private foundation
- > 150 staff members
- > 70 interns, B.A./Master/PhD students, apprentices
- > Research on over 200 Swiss organic farms

Departments of FiBL Switzerland

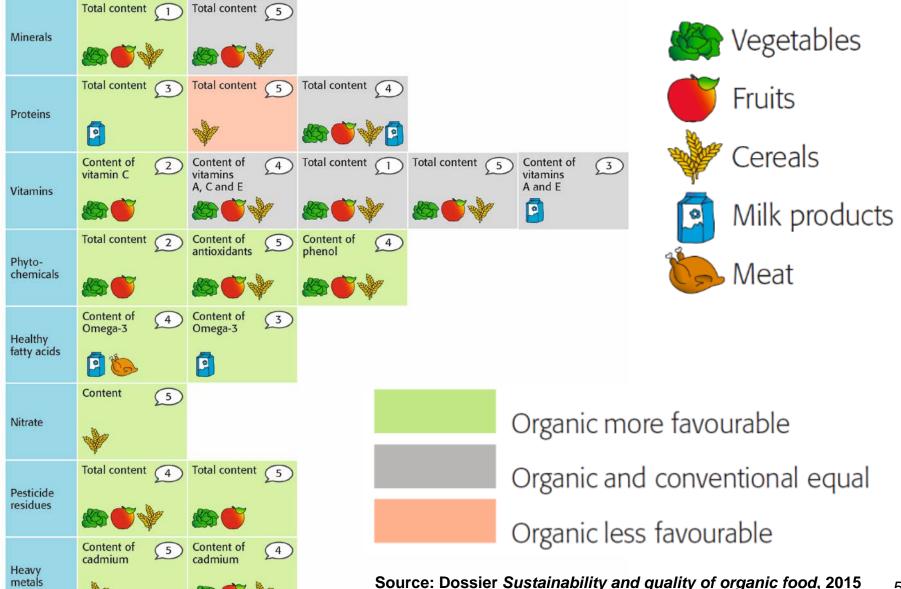


Food Quality: Extension and Research

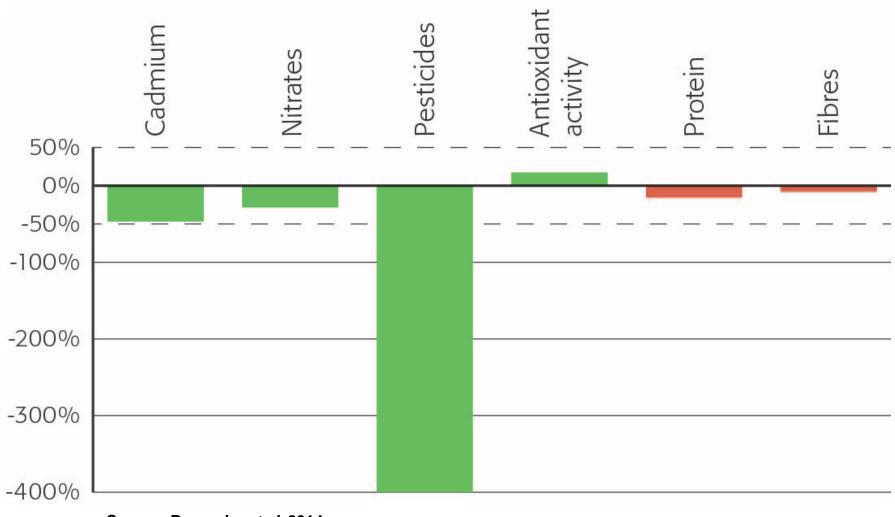


Comparison of Conventional and Organic Products

Ingredients Trends



Baransky Metaanalysis of fresh produce

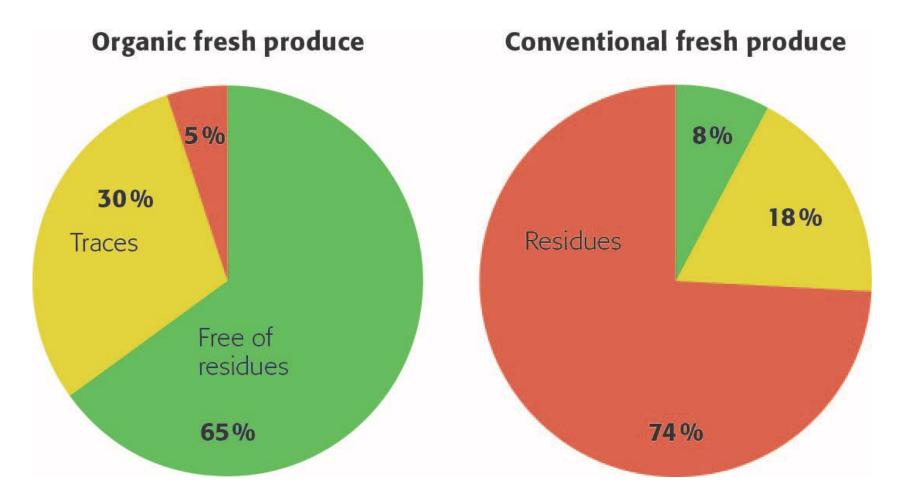


Source: Baransky et al. 2014



Pesticide residues

www.fibl.org

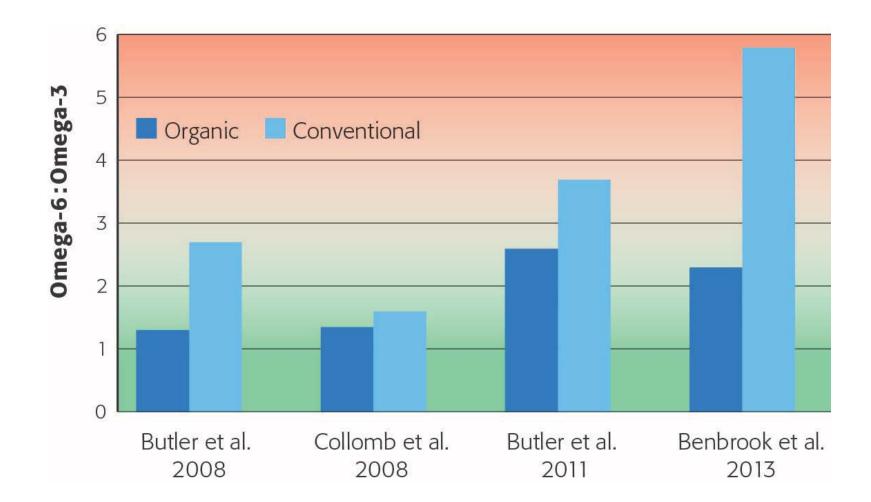


Source: Ökomonitoring 2013. Ministerium für Ländlichen Raum und Verbraucherschutz (MLR) Abteilung Verbraucherschutz und Ernährung, Kernerplatz 10, 70182 Stuttgart

Source: FiBL-Dossier Nr. 4, 2015, Sustainability and quality of organic food

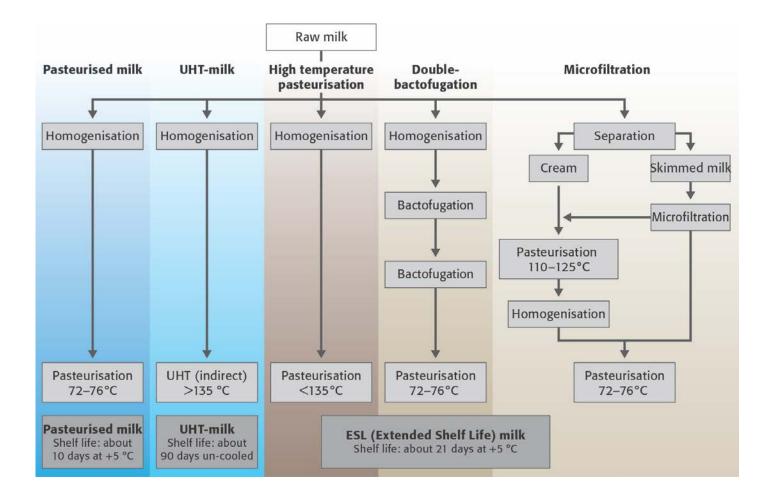
Fatty acid composition of milk

www.fibl.org

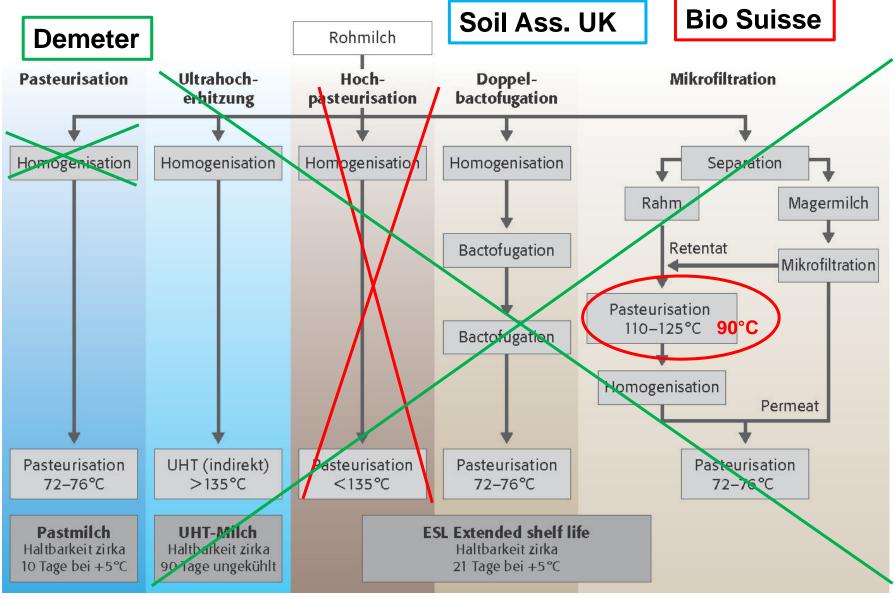


Source: FiBL-Dossier Nr. 4, 2015, Sustainability and quality of organic food

Preservation of milk



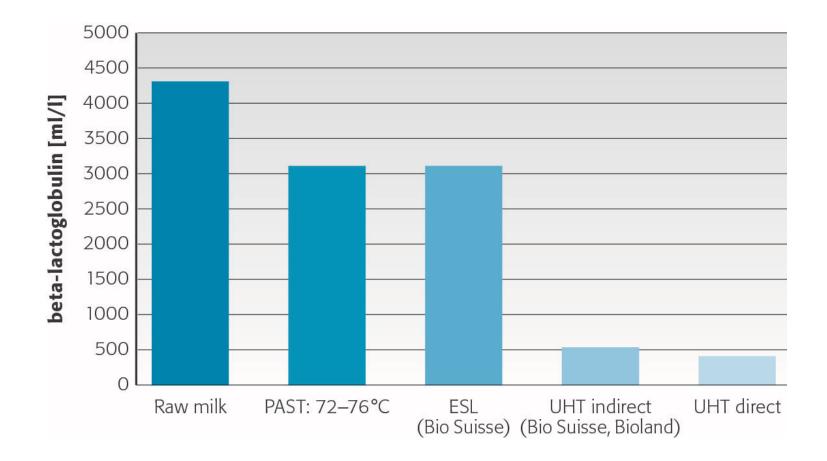
Preservation of milk



FiBL www.fibl.org

Milk processing

iBL www.fibl.org



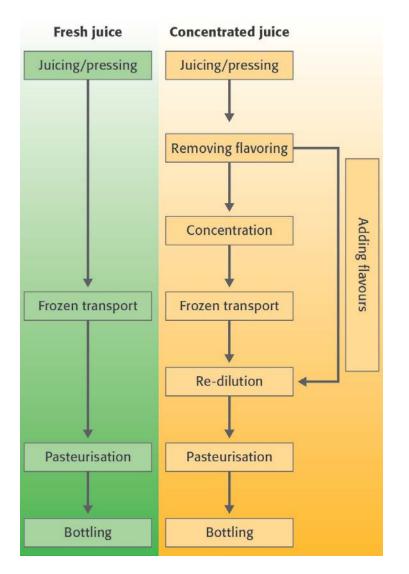
Source: FiBL-Dossier Nr. 4, 2015, Sustainability and quality of organic food

Bio-crystallisation of milk

Bio-crystallisation of milk

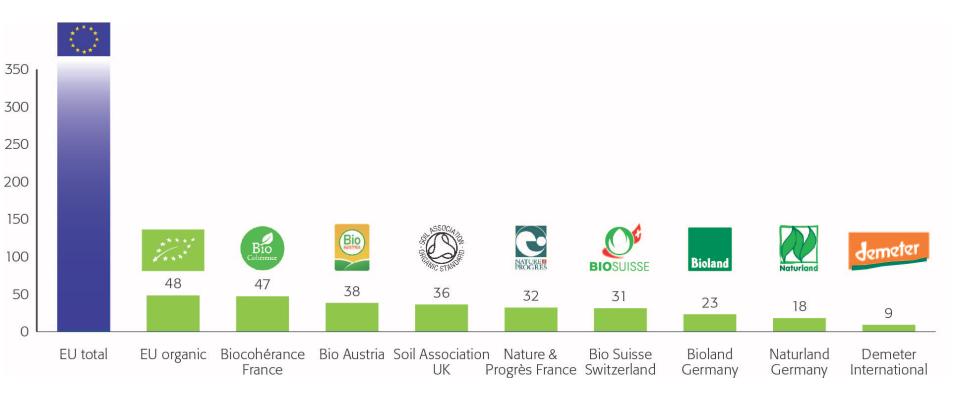
Bei der Biokristallisation entstehen Bilder, welche unter vergleichbaren Bedingungen erzeugt sind und so miteinander verglichen werden können. Links das Kristallisationsbild von UHT-behandelter, hornogenisierter Milch aus herkömmlicher Produktion; rechts das Kristallisationsbild von pasteurisierter, biologisch-dynamisch produzierter Milch.

Manufacturing process of orange juice



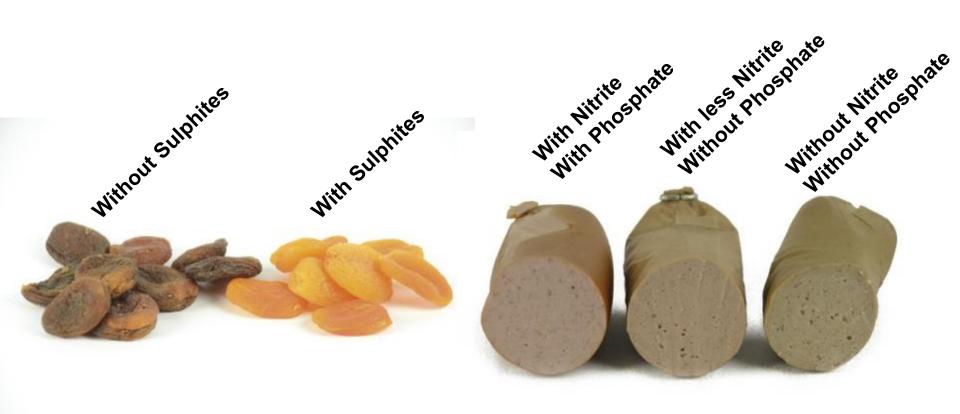
FiBL www.fibl.org

Restricted Use of Additives





Examples: Dried Apricots and Sausages





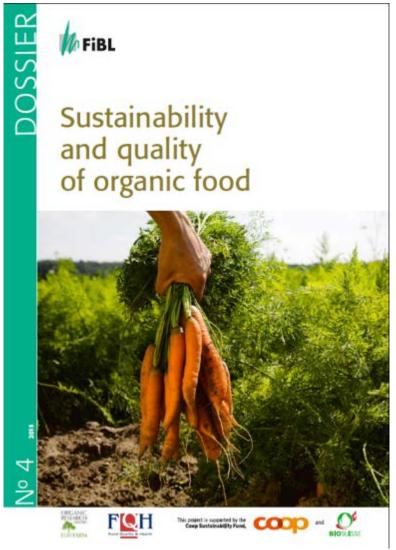
Is organic food better



- > fewer additives
- no artificial sweeteners, stabilisers, or preservatives
- no addition of glutamate as a flavour enhancer
- > No artificial colouring
- > No artificial flavours
- > No hydrogenated fats
- > No, or only traces of pesticides



Thank you for your attention!



https://www.fibl.org/nc/de/shop/startseite.html