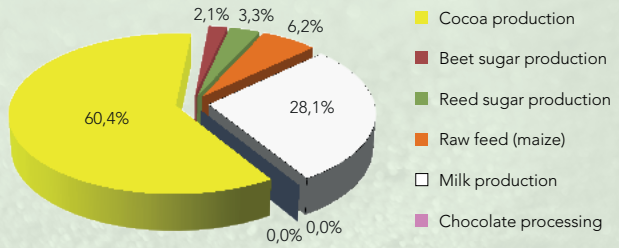
Biodiversity Footprint Tool

Goal
Calculation of the biodiversity footprint of a company or product, both for a current and alternative or future situation, to assess changes in impact and effectiveness of mitigation and pro-biodiversity actions.

Method
Based on existing pressure based cause-effect relations for 4 pressure factors: Land use, Greenhouse gas emissions, Water use, and Nitrogen and Phosphorus emissions to water. The indicator combines the area of impact with the impact on the quality of biodiversity ('naturalness') in the impacted area, expressed in MSA.ha.

Characteristics
Calculation for each part of production chain. Different from existing LCA methods as it is location specific, software independent and there are no costs involved! Required data from companies involved in the production chain. Method can also be used to calculate biodiversity footprint of entire sectors.

Share Land-use footprint milk chocolate Tony Chocolonely
Cacao from from high productive farms



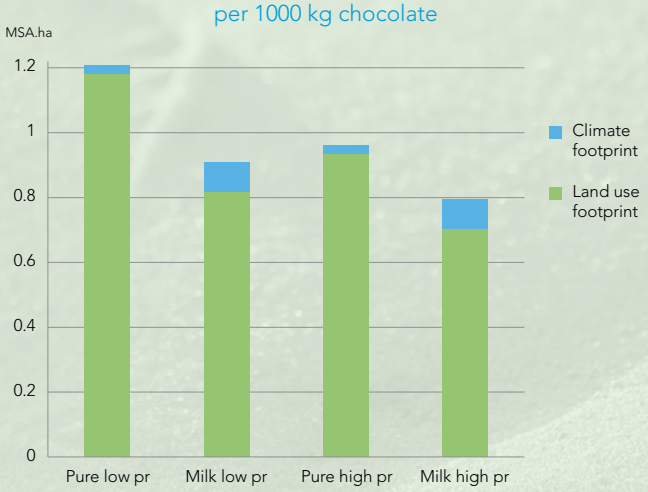
Total landuse footprint 1000 kg chocolate: 0.70 msa.ha

Target group
Companies that would like to carry out a quick assessment of their biodiversity footprint, who want to calculate the effectiveness of their biodiversity friendly measures, or who want to find out what the main pressure factors are and where the highest impact can be found.

Developed by
Consortium of Plansup, Wageningen Environmental Research (formerly Alterra) and Netherlands Environmental Assessment Agency (PBL), CREM and JSScience.

Case studies
Desso (carpets), DSM (health food and materials), Foreco (wood products), Moyee (coffee), Natural Plastics (bio-plastic tree support system), Tony Chocolonely (chocolate), Better Future Factory (products from recycled materials), Schut Papier (paper), Dutch dairy sector.

Total footprint per chocolate type and producer
per 1000 kg chocolate



Terrestrial footprint 1000 kg pure and milk chocolate for 2 scenarios in which cacao is produced by low and high productive farmers (pr)

Information
www.natuurlijkkapitaal.com/wp-content/uploads/2016/05/Plansup_Alterra-Wageningen-UR_JSScience-Technical-summary-Footprint-assessments.pdf

Simplified tool
www.naturalcapitaltoolkit.org

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