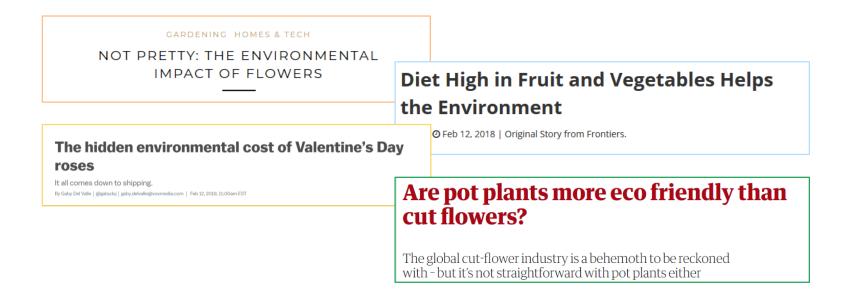
LCA Food 2020 October 2020 Marisa Vieira

HortiFootprint Category Rules: harmonizing environmental footprinting of horticultural products



Demand for environmental information of horticulture products is rising



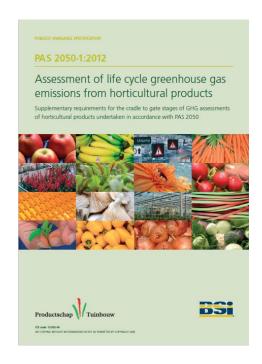


Outdated and incomplete environmental standards for horticultural products



A standard for assessing the greenhouse gas emissions from horticultural products already exists BUT:

- It only covers climate change impacts
- It becomes outdated and not aligned with recent developments in the field



PPS HortiFootprint project



Initiated by







With co-financing from















Advisory by







The development of an environmental footprint methodology for horticultural products helps the sector to materialise the current effort it puts in to sustainability. It helps a grower to identify - within its supply chain - how to improve its environmental impact and, doing so, to learn more about its own impact.

Daan van Empel & Albert Haasnoot





Why a PEFCR?



- It provides specific rules per product group for environmental footprinting
- It focuses on the most important parameters in determining the environmental performance of a product
- It includes a big array of environmental impacts
- It allows between PEF calculations of comparability the same product category



According to European Commission standards

Development of the HortiFootprint Category Rules

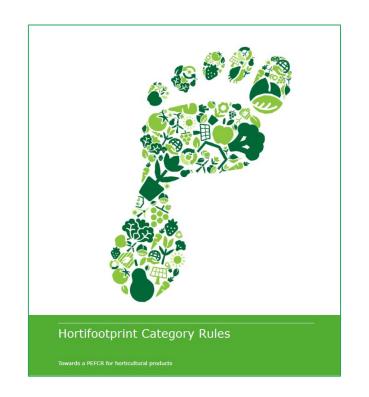




Hortifootprint category rules



- Fresh out the press published on July 2020
- It sets the rules to calculate the environmental footprint of horticultural products
- It is based on the European PEF method and PEF category rules





https://edepot.wur.nl/526452

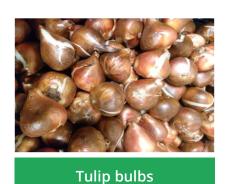
Studies for six representative products to cover the high variability of the sector















Hortifootprint category rules



It includes 4 memos on specific aspects:

- Transfer fractions of plant protection products
- Capital goods modelling
- Modelling of nitrogen and phosphorus emissions
- Handling multi-functionality of combined heat and power systems



RP-studies highlight the need for a comprehensive assessment



Most relevant impact categories

- Acidification
- Climate change
- Land use
- Particulate matter
- Photochemical ozone formation
- Terrestrial eutrophication
- Resource use, energy carriers
- Resource use, minerals and metals

Most relevant life cycle stages

- Cultivation
- Post-harvest handling
- Packaging
- Distribution
- Storage
- Use stage
- End of life

Next steps

- We invite everyone to adopt the HFCR in calculating the environmental footprint of horticultural products and share your feedback with us.
- Members of our consortium will become involved in the EF's agricultural modeling working group and contribute with the work done during the project.
- Now, we are developing an official PEFCR for cut flowers and potted plants in the Environmental Footprint transition phase and we have the ambition to do the same for fruits and vegetables.

HFCR versus Flori PEFCR



The HortiFootprint Category Rules (HFCR) already follows the European Product Environmental Footprint Category Rules (PEFCR) in the following relevant aspects:

- It establishes one unified methodology for environmental footprint of horticultural products.
- It allows for identifying hotspots and improvement opportunities and for monitoring progress over time.

Now, the sector is working towards a **Flori PEFCR**. The main difference is:

- The HFCR was not 'signed off' by the European Commission but the Flori PEFCR will be.
- The Flori PEFCR will list the EF-compliant secondary datasets to be used. The use of the same secondary data, mandatory in official PEFCRs endorsed by the EC, ensures that differences between assessments are due to company-specific data only.

Lessons learned



- Sustainable horticulture products can only be achieved with engagement from the whole value chain
- Be aware of trade-offs between impacts: Climate change is an important impact but surely not the only one to assess and focus on
- There might be other options to benchmark results than real and virtual products
- Rules for agriculture modeling need further development in the PEF and OEF methods

To stay informed



- We can invite you for the public consultation of new versions of the HFCR and draft Flori PEFCR
- You can play a role in testing the HFCR or draft Flori PEFCR
- If you are interested, please inform our project manager Irina Verweij-Novikova (<u>irina.verweij-novikova@wur.nl</u>)

Looking forward to your questions and comments



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(on behalf of the PPS HortiFootprint project team)