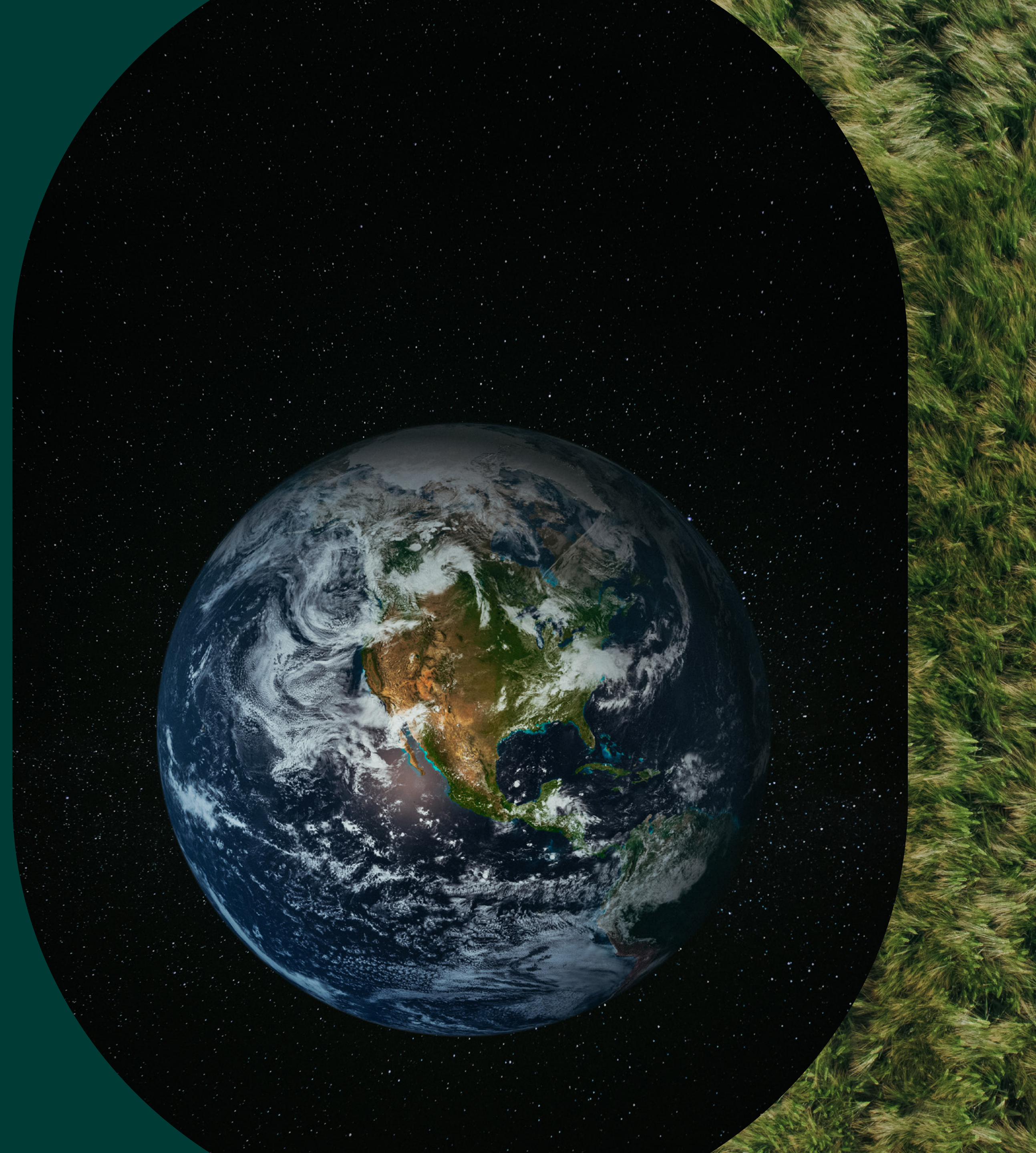




When we
think about
sustainability,
we think
about impact.

EVERGRAIN'S LIFE CYCLE ASSESSMENT
— EXECUTIVE SUMMARY





Read the Full Life Cycle Assessment Report

We have an incredible opportunity to change the world for the better, and we aren't going to waste it. We believe that our planet needs a closed-loop system. No resources lost. That's what we call circularity.

Within this document, we've highlighted some findings from our Life Cycle Assessment (LCA) that show the potential that circularity has to reform our industry and sustain our planet.

Disclaimer: all numbers in this report are based on assumptions from the lab/pilot scale and will be updated in 2022 upon the start of full-scale operations.

Backed by AB InBev, we commissioned Blonk Consultants to perform a Life Cycle Assessment (LCA) of the processing of Brewers' Spent Grains (BSG) into the production of our ingredients.

LCA is a framework that allows the quantitative analysis of the environmental burdens of a product or system throughout all the stages of its life cycle, from the extraction of raw materials through production, processing, use, and end-of-life management.


This LCA is conducted according to the methodology proposed in ISO 14040 and 14044 LCA methodological standards (ISO, 2006a, 2006b), including an external review.

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Goal

- Evaluate the environmental impact of the production of our ingredients and compare it to the production of conventional food ingredients that have the same application
- Assess the impact of three different BSG ingredients: fiber- and protein-rich BSG concentrates (EverVita Fibra and EverVita Pro, respectively) and BSG protein isolate (EverPro)





Our high concentrate
barley protein is
the best protein
ingredient for the .

Compared to soybean, pea, and whey protein concentrate and to egg white powder, EverPro has —

THE LOWEST IMPACT FOR GLOBAL WARMING¹

5x	less carbon than soybean protein
8x	less carbon than egg white powder

THE SMALLEST IMPACT ON FRESHWATER EUTROPHICATION (EXCESS NUTRIENTS IN WATER FROM FARM RUNOFF)²

14x	less impact than soybean protein
22x	less impact than pea protein
Nearly 8x	less impact than whey protein
32x	less impact than egg white powder



THE SMALLEST IMPACT
ON MARINE EUTROPHICATION³

- 3x less impact than soybean protein
- 13x less impact than pea protein
- 33x less impact than whey protein
- 32x less impact than egg white powder

SUBSTANTIALLY LESS LAND USE⁴

- 19x less impact than soybean protein
- 39x less impact than pea protein
- 30x less impact than whey protein
- 50x less impact than egg white powder

SMALLEST IMPACT
ON MINERAL RESOURCE SCARCITY

CONSIDERABLY LESS WATER CONSUMPTION



↓
Data

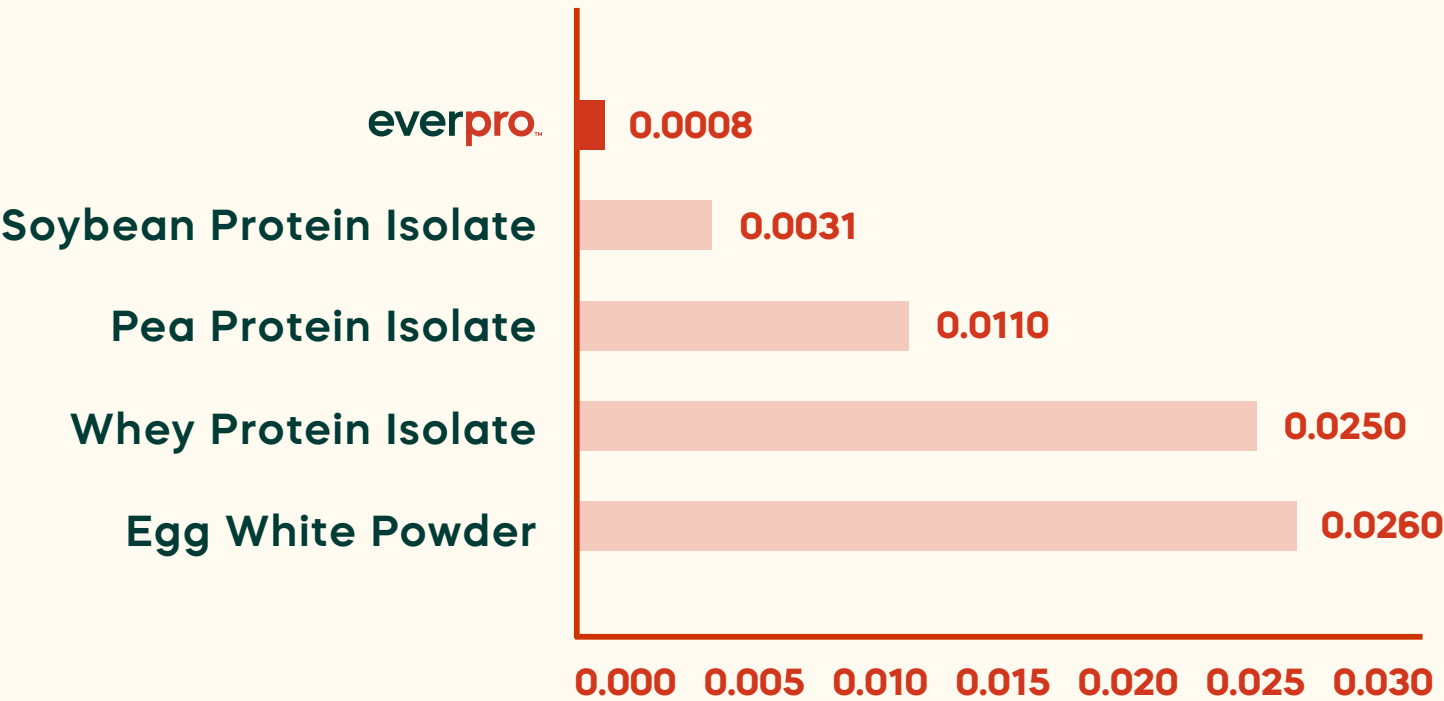
1 — GLOBAL WARMING (incl LUC) kg CO2 eq



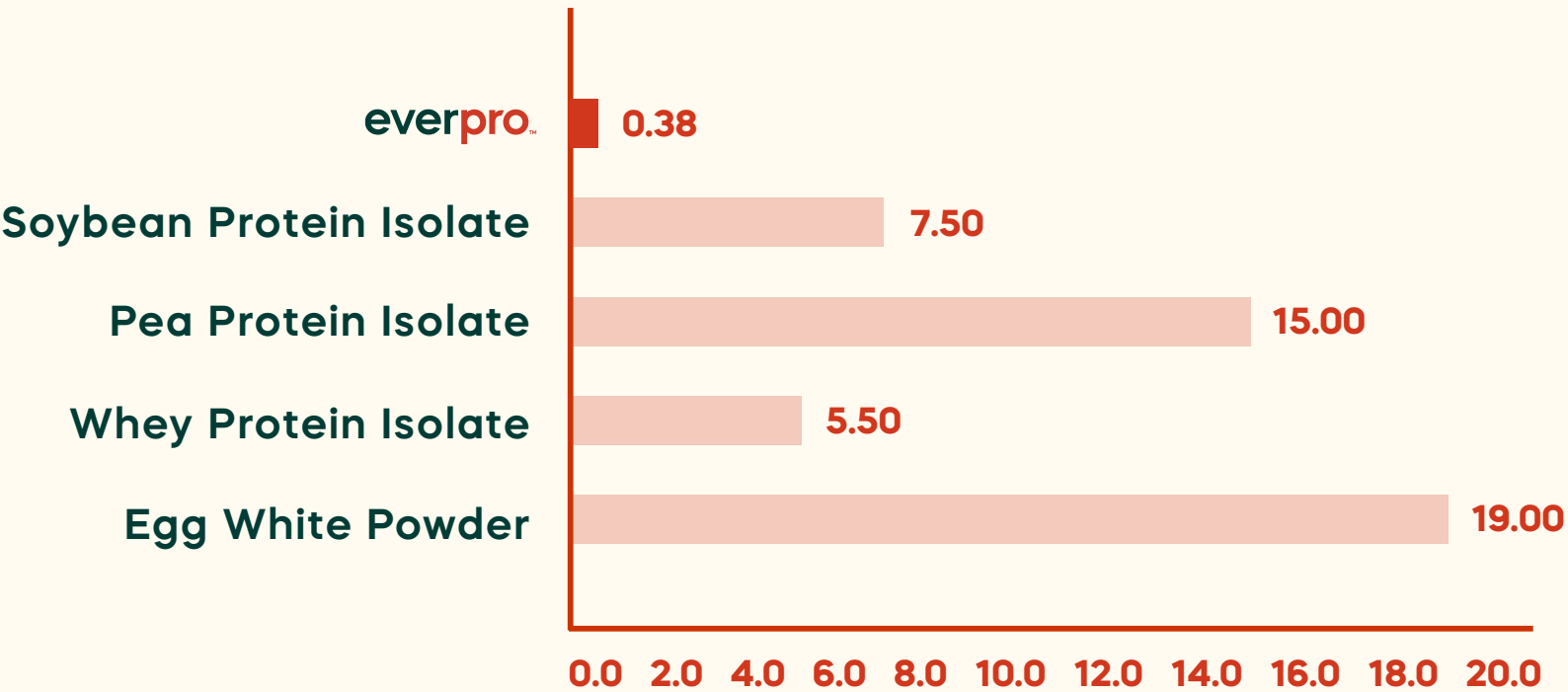
2 — FRESHWATER EUTROPHICATION kg P eq




3 — MARINE EUTROPHICATION kg N eq



4 — LAND USE m2a crop eq





Our protein- and fiber-rich barley ingredient is the best of both worlds and the best for the .

Compared to soybean, pea, and wheat gluten protein concentrate, EverVita Pro has —

THE LOWEST IMPACT ON GLOBAL WARMING⁵

Nearly 2x less carbon than wheat gluten meal

Nearly 5x less carbon than soybean protein

THE LEAST FINE-PARTICULATE MATTER FORMATION

Fewer fine, inhalable particles with diameters of 2.5 micrometers and smaller



**SMALLEST IMPACT ON FRESHWATER⁶ AND
MARINE⁷ EUTROPHICATION**

52x less impact on freshwater than pea protein
23x less impact on marine than pea protein

**SMALLEST IMPACT ON MINERAL RESOURCE
SCARCITY AND TERRESTRIAL ACIDIFICATION**

Fewer changes in soil chemistry

SUBSTANTIALLY LESS LAND USE⁸

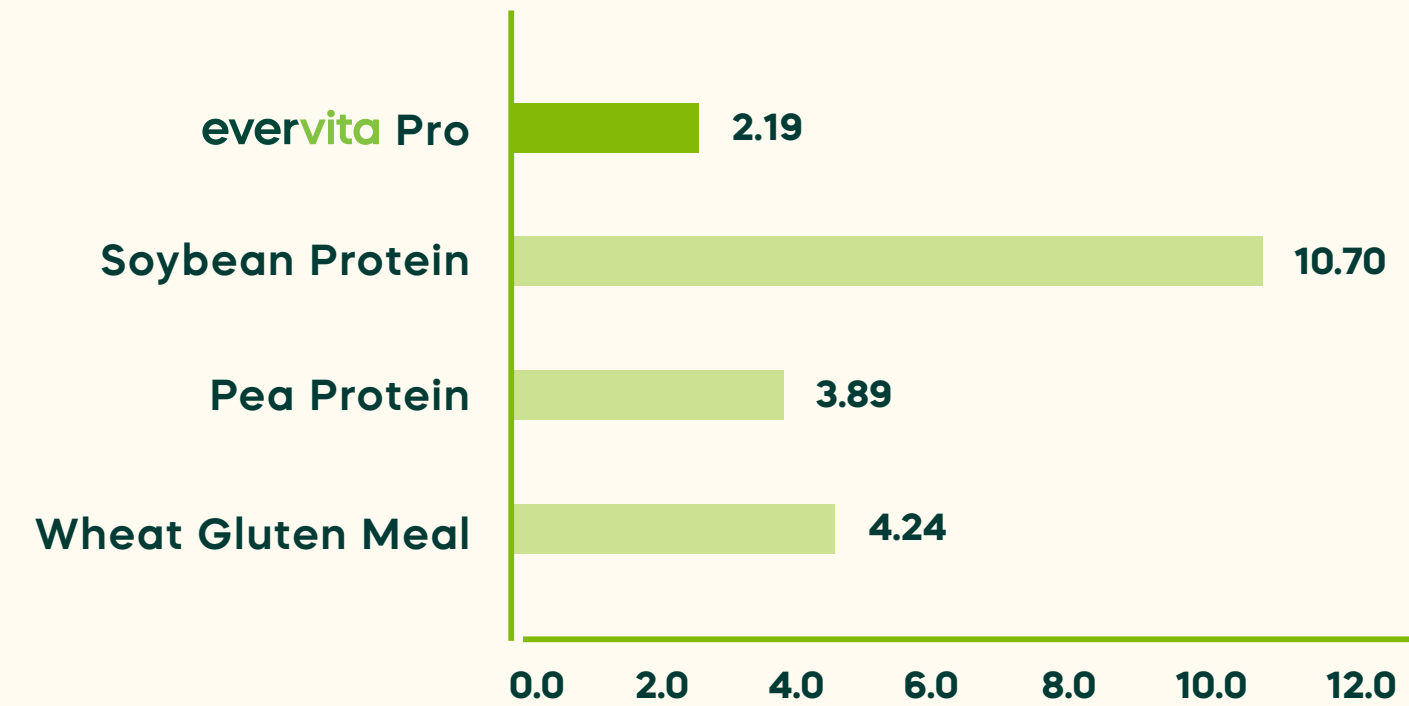
Over 40x less than soybean protein
Nearly 89x less than pea protein
Over 29x less than wheat gluten

CONSIDERABLY LESS WATER CONSUMPTION

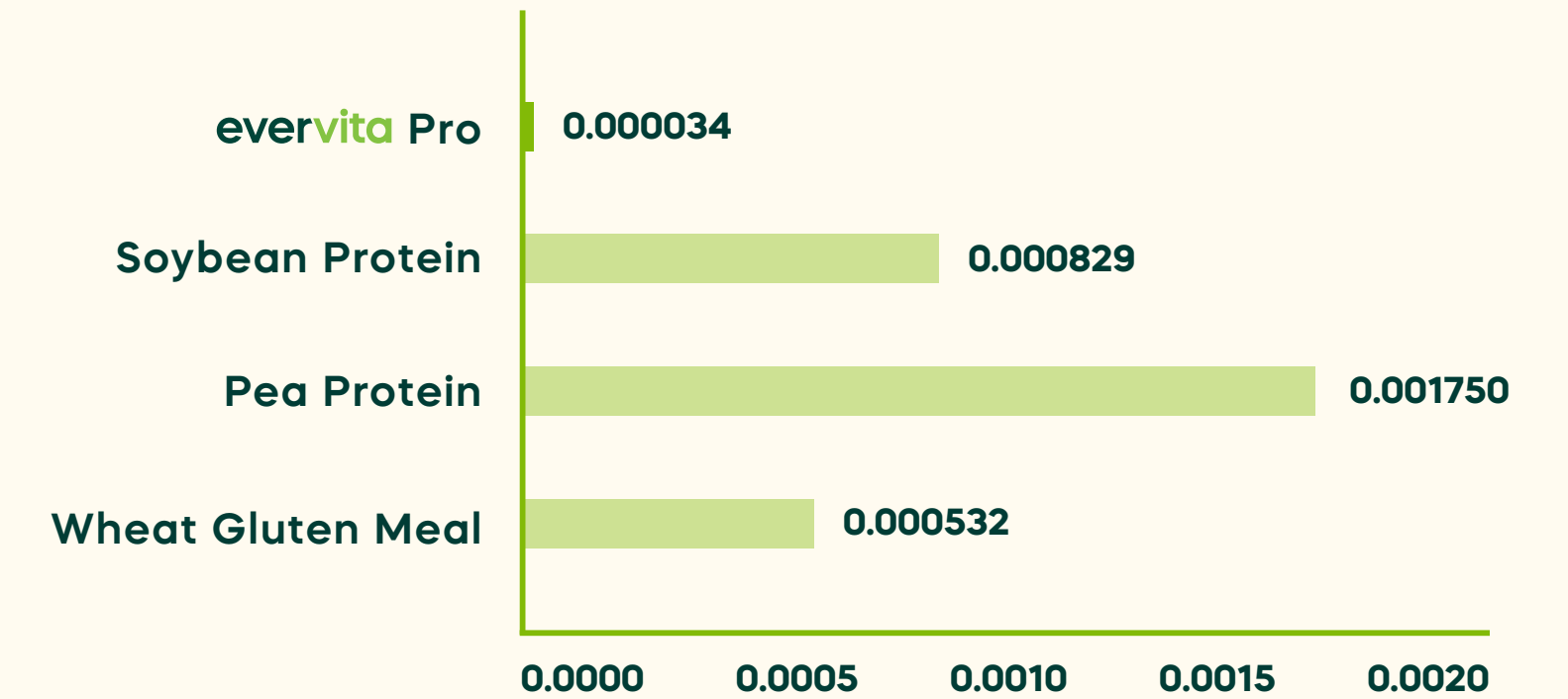


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Data

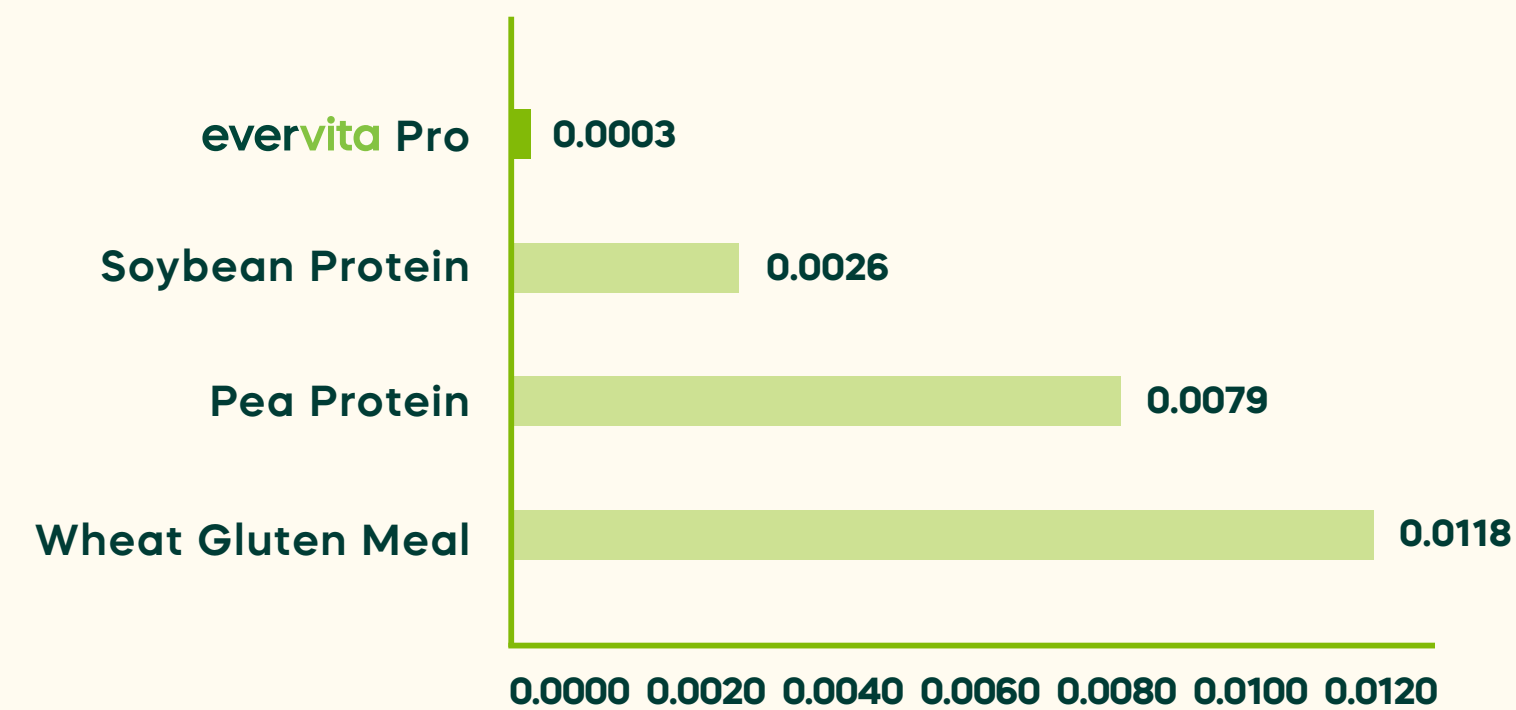
5 — GLOBAL WARMING (incl LUC) kg CO2 eq



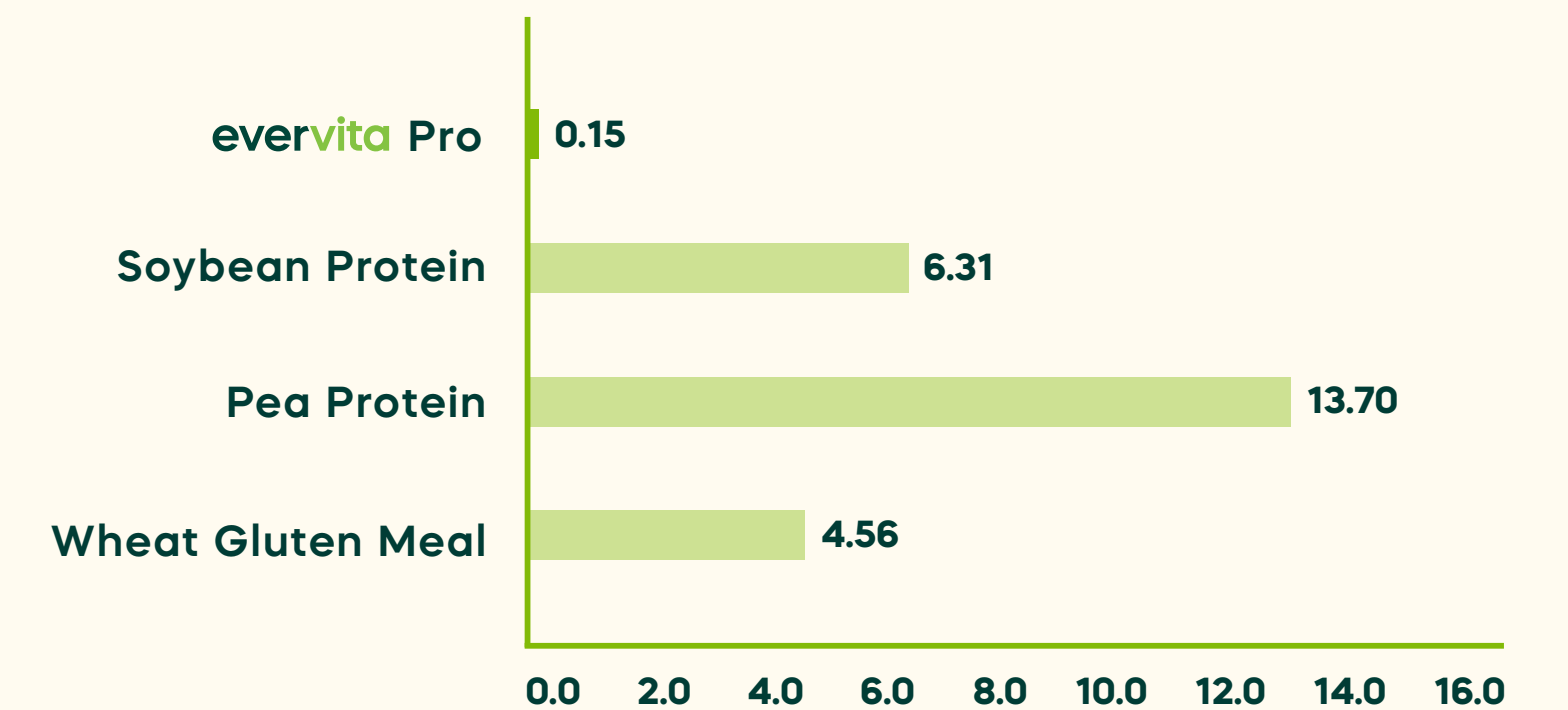
6 — FRESHWATER EUTROPHICATION kg P eq



7 — MARINE EUTROPHICATION kg N eq



8 — LAND USE m2a crop eq





Our fiber-rich barley ingredient is a more sustainable alternative to wheat bran.

Compared to wheat bran concentrate, EverVita Fibra has —

A COMPARABLE IMPACT ON GLOBAL WARMING⁹

THE LEAST FINE-PARTICULATE MATTER FORMATION

Nearly 3x less than wheat bran



SMALLEST IMPACT ON MINERAL RESOURCE SCARCITY AND SOIL ACIDIFICATION

2x less impact on mineral resources than wheat bran
5x less acidification than wheat bran

15x LESS LAND USE¹²

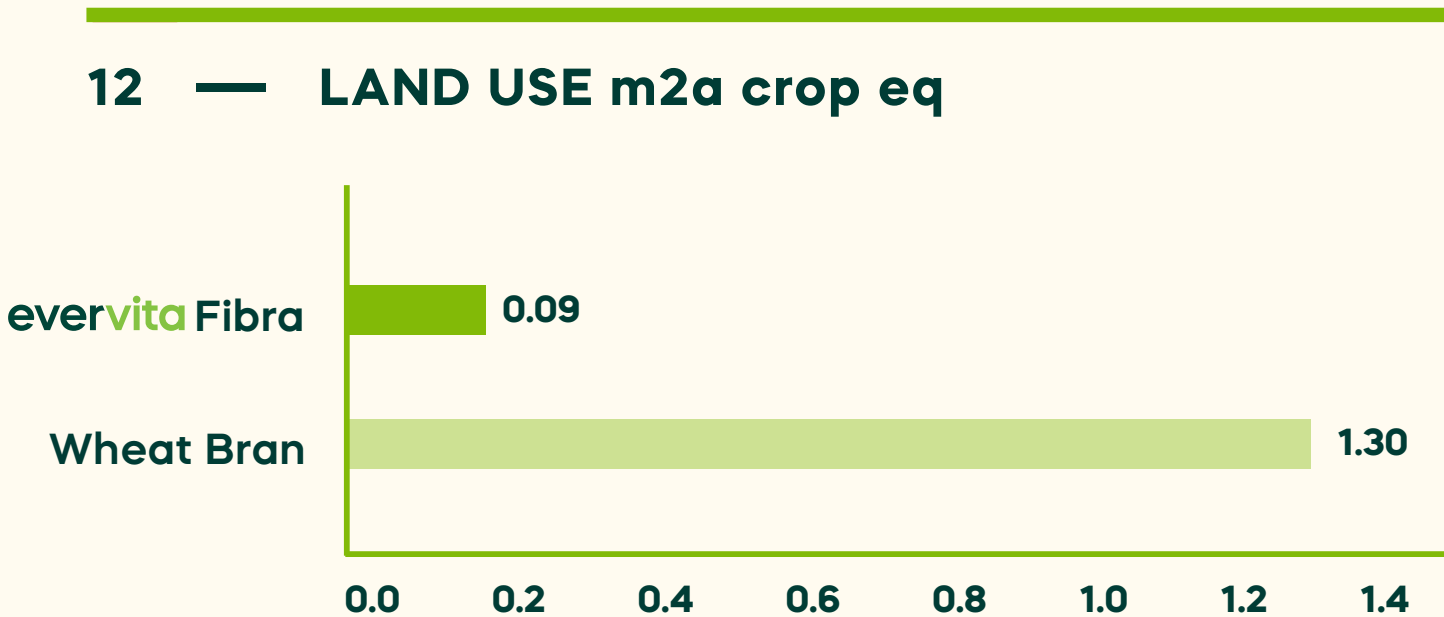
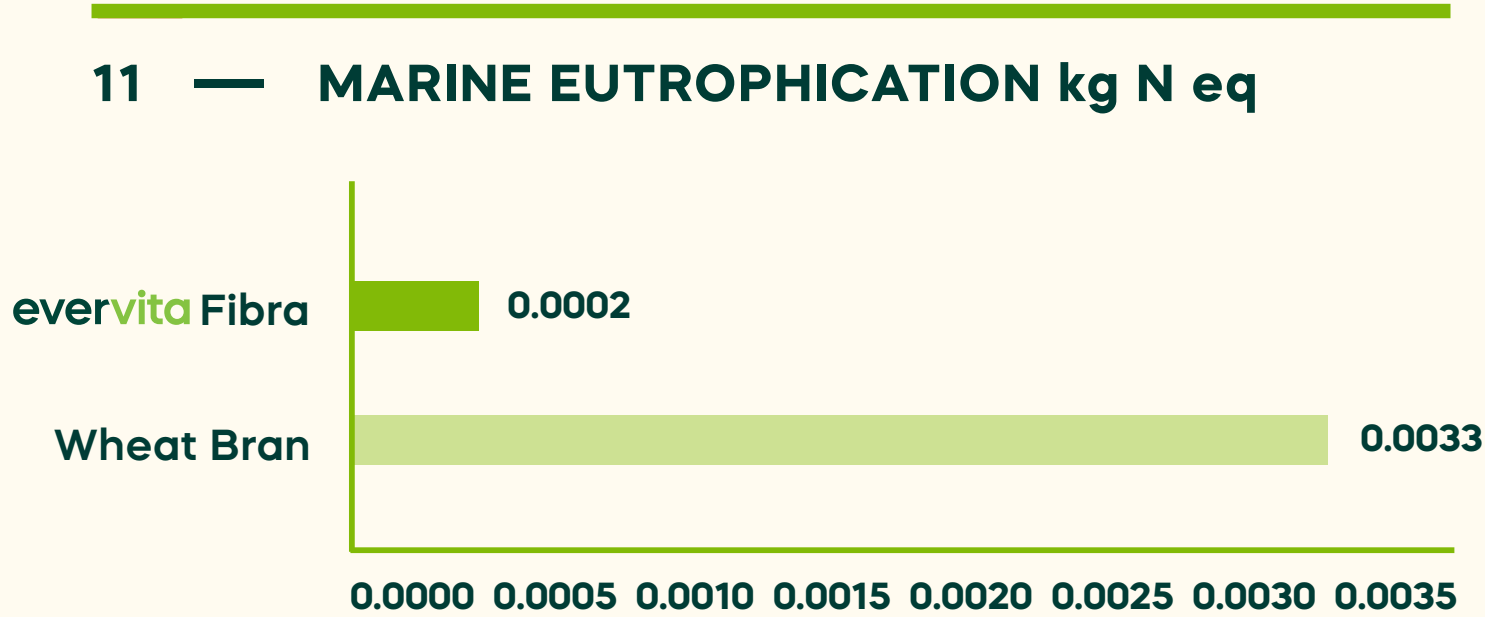
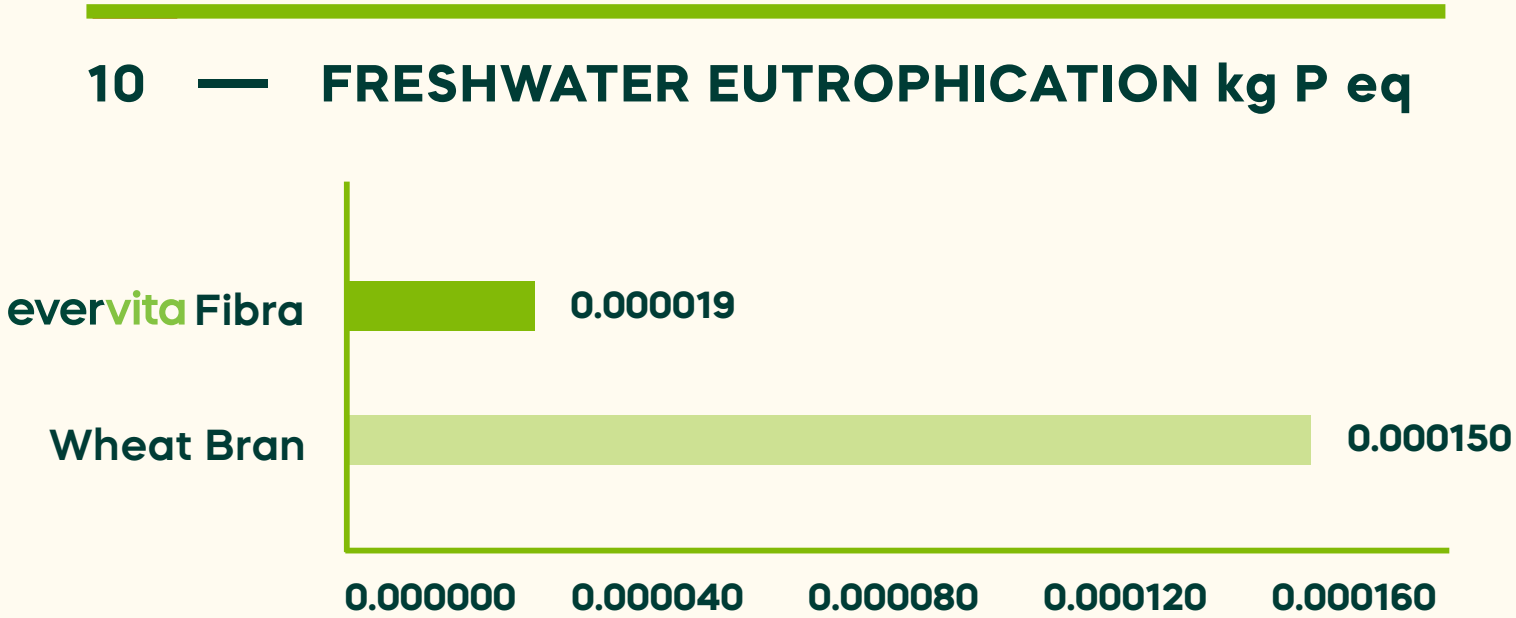
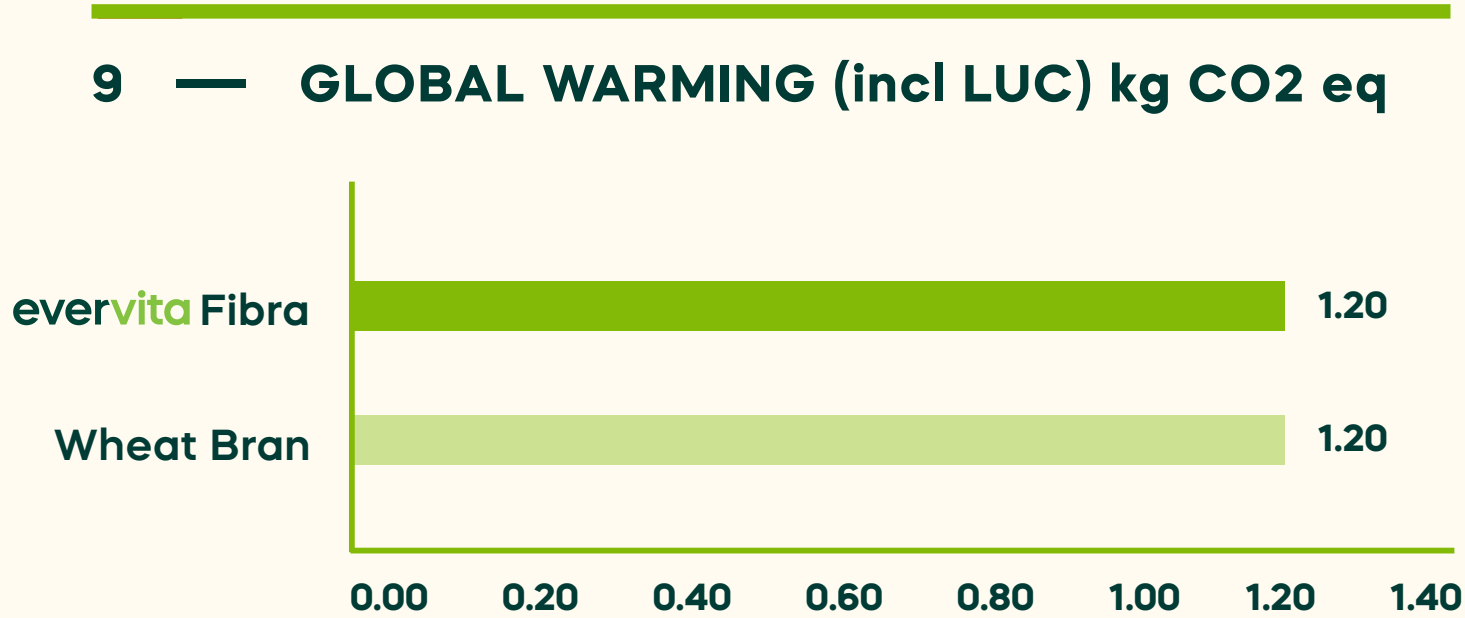
CONSIDERABLY LESS WATER CONSUMPTION

SMALLEST IMPACT ON FRESHWATER¹⁰ AND MARINE¹¹ EUTROPHICATION

7x less impact on freshwater than wheat bran
17x less impact on marine than wheat bran



↓
Data



REALIZE THE
POTENTIAL OF



barley-powered 
protein  & fiber 
ingredients that drive
circularity  and
sustainability .



READ —
THE FULL LIFE CYCLE
ASSESSMENT REPORT

VISIT —
[EVERGRAINGREDIENTS.COM](https://evergrainingredients.com)

Disclaimer: all numbers in this report are based on assumptions from the lab/pilot scale and will be updated in 2022 upon the start of full-scale operations.