



HowGood Product Sustainability Ratings

Methodology

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What are Product Sustainability Ratings?

HowGood's Product Sustainability Ratings reflect a holistic assessment of the overall environmental and social sustainability of a product. They make sustainability insights actionable for consumers, enabling them to easily compare products, quickly identify high-performing products, and shop for the most sustainable products.

How does HowGood measure sustainability?

HowGood assesses the environmental and social impact of products across 8 core sustainability metrics.

1. Greenhouse Gas Emissions: What is the carbon footprint (cradle-to-farm gate) of the ingredients in this product?
2. Processing: How much energy is used to process the ingredients in this product?
3. Water Usage: How much water does it take to grow the ingredients in this product?
4. Biodiversity: Does the growing of the ingredients in this product help or harm biodiversity?
5. Soil Health: How does the growing of the ingredients in this product impact the soil?
6. Land Occupation: How much land is required to produce the ingredients in this product?
7. Animal Welfare: If relevant, how are the animals involved in the production of an ingredient treated?

8. Labor Risk: What is the overall labor risk involved in the ingredients in this product, considering both the severity of the working conditions and the number of people affected?

These 8 metrics are evaluated on a spectrum from negative to positive impact. For some metrics, this illustrates impact from degenerative to regenerative. Products receive a score of 1-10 for each metric.

Negative Impact

Significant Negative Impacts
across the 8 Standard Metrics



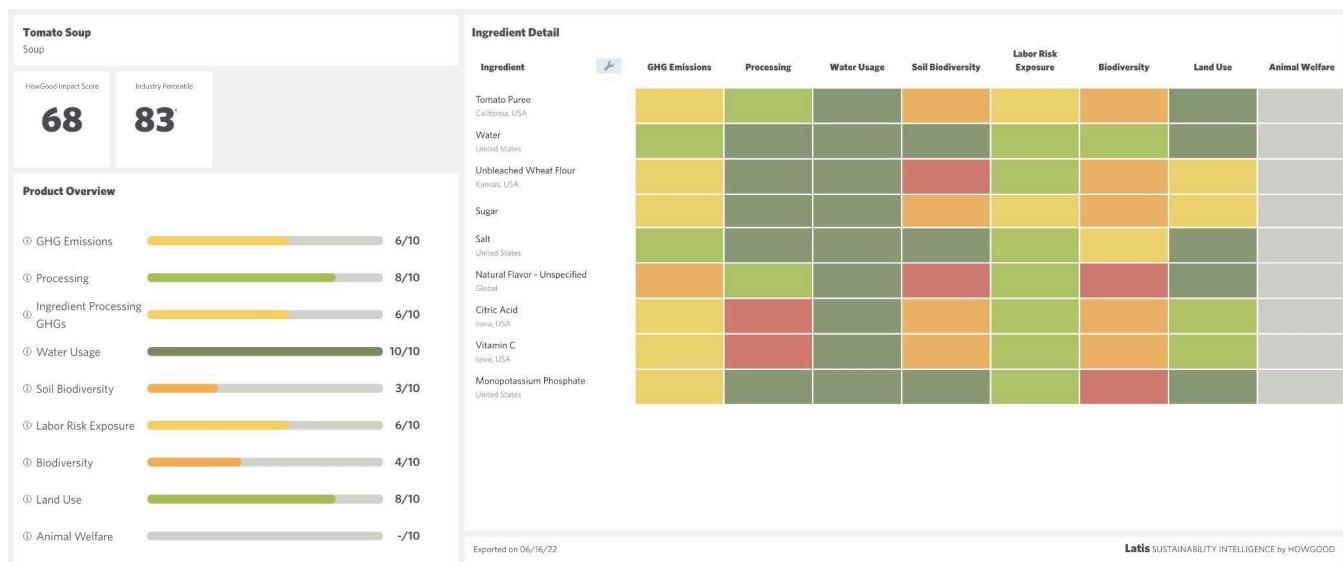
Positive Impact

Furthest Movement towards
Regenerative and Net-Positive Impact

HowGood Impact Score

A product's individual metric scores are consolidated to produce an overall product impact score. Each of the 8 sustainability metrics are weighted equally to yield a HowGood Impact Score out of 100. The HowGood Impact score gives a comprehensive view of the impact of a product.

See the example below for an illustration of how a product with multiple ingredients would be assessed.



How does HowGood rate products?

HowGood rates products on their environmental and social impact, also taking into account whether we would recommend the product. Our rating methodology is rooted in our understanding of the food system and experience rating food products on environmental and social performance for over 18 years.

Product ratings are based on the HowGood Impact Score (a measure of a product's impact across 8 core sustainability metrics), and the following factors.

- **Processing:** Considers whether a product contains ingredients that are heavily processed
- **Labor conditions:** Considers labor issues associated with sourcing locations and whether a product has a fair trade certification
- **# of ingredients:** Considers the number of ingredients in a product

- **Organic:** Considers whether a product has an organic certification

A product's HowGood Impact score is adjusted (positively or negatively) according to how it meets each of these product considerations.

HowGood impact score adjustment

Adjustment factor	Qualification	Adjustment
Processing	The product contains ingredients that are heavily processed	Negative
Labor Conditions	The product has ingredients sourced from locations with known labor issues and does <i>not</i> have a fair trade certification	Negative
# of Ingredients	The product has more than 12 ingredients	Negative
# of Ingredients	The product has 3 or fewer ingredients	Positive
Organic	The product has an organic certification	Positive

Why do ratings take into account these additional factors?

While the HowGood Impact score is an assessment of a product's overall sustainability, there are some considerations which it cannot address. The HowGood impact score is a quantitative reflection of a product's on-farm practices and processing, which is largely conclusive. However, when translating impact into ratings, we also incorporate a qualitative assessment. Because ratings are meant to inform consumers, a more encompassing assessment is vital to effectively guiding sustainable purchasing decisions.

Processing is a good example of a factor that is not considered in its entirety within the HowGood Impact score. The processing metric that is considered within the HowGood impact score takes into account the amount of energy required to produce a product. It does not take into account the complexity of its ingredients and whether they rely on commercial or industrial processing. A product may earn a high HowGood Impact Score (equivalent to a Best rating), yet receive a Good rating or no rating because it contains ingredients that require very high levels of processing.

Similarly, the metrics that contribute to the total HowGood Impact score take into account standards and certifications that products and/or ingredients have received. However, we know that organic and fair trade certifications in particular are substantial when evaluating overall social and environmental sustainability. Fair trade is an important indicator of the social conditions associated with growing the ingredients in a product. Likewise, organic is a significant indicator of environmental sustainability, especially in terms of its benefit of reducing pesticides and chemicals relative to conventional farming practices. As such, additional qualitative adjustments have been factored in for products that may or may not have these certifications.

What has been the process for testing the efficacy of the rating system?

HowGood applies its 18+ years of experience rating food products to conduct a number of litmus tests to evaluate where various types of products fall within the rating system and assess the validity of these ratings. The rating system has been checked against entire lists of food products. It has also been used to evaluate products by companies that have sustainable sourcing and the resulting ratings validated.

General guidance & implications of product ratings

- Fresh produce will achieve a “Best” or “Great” rating in most instances.
- Most meat products will receive a “Standards Not Met” (SNM) rating due to the negative environmental impacts of raising conventional meat and poultry products. However, organic meat may achieve a “Good” rating (higher ratings are less likely).
- Most seafood will achieve a “Good” or higher rating because they tend to have less severe environmental impact than meat products.
- Eggs will typically achieve a “Good” rating because they are minimally processed and often locally or regionally sourced.
- Milk and other dairy products will typically achieve a “Good” or better rating **only** when standards like the organic certification are applied.

Exclusions of the rating system

- Vitamins and supplements
- Alcoholic beverages
- Seasonal food products

How are Sustainability Ratings applied to products?

Products qualify for Product Sustainability Ratings if their adjusted HowGood Impact Score is better than the large majority of food products in the industry (i.e. the food products assessed and rated by HowGood). The HowGood Rating System labels top-performing food products as “Best”, “Great”, and “Good”. By translating overall

product impact into easy-to-digest ratings, consumers can quickly evaluate and make higher impact shopping decisions. Impact thresholds for the Ratings are determined based on HowGood's assessment of over 2 million products in the food system. The quantitative thresholds for the HowGood Rating System are below:

HowGood "Best" Rating: This product has an environmental and social impact better than 95% of food products.

HowGood "Great" Rating: This product has an environmental and social impact better than 85% of food products.

HowGood "Good" Rating: This product has an environmental and social impact better than 75% of food products.

What methodologies and data sources does HowGood use to assess sustainability?

HowGood employs industry-recognized methodologies and incorporates data and findings from over 600 accredited data sources and certifications. Check out the links below for some of the top sources that HowGood's research team leverages for each metric.

Sustainability Metric	Methodology
GHG Emissions	GHG Protocol; IPCC GWP100a 2013
Processing	GHG Protocol; IPCC GWP100a 2013
Water Usage	Global Water Footprint Standard 2011
Land Occupation	ReCiPe 2016
Soil Health	Bioversity International ABDI 2019
Labor Risk Exposure	UNGP Human Rights Risk Reporting Framework [SHIFT] 2015
Biodiversity	Bioversity Intl & HowGood Standard 2020
Animal Welfare	Global Animal Partnership Standard 2020

Who is HowGood?

HowGood is an independent research company with the world's largest database on product sustainability. With data and analysis for more than 33,000 ingredients, chemicals, and materials, HowGood helps leading brands, retailers and investors improve their environmental and social impact. Through in-depth, ingredient-level insights on factors ranging from greenhouse gas emissions to animal welfare to labor risk, HowGood data powers strategic decision-making for the sourcing, manufacturing, merchandising, and marketing of sustainable products. Brands identify opportunities to improve sustainability, drive greater transparency, and empower their consumers to make higher impact purchases. Visit howgood.com for more information.

What is HowGood's research methodology?

HowGood has more than 18 years of research on global food supply chains. The team consolidates and analyzes findings from over 600 accredited data sources and certifications. These include a range of resources such as international frameworks, NGO guidance and standards reports, peer reviewed life cycle assessment studies, journal articles, academic conference proceedings and texts, aggregated commercial databases, targeted industry studies, NGO research, government publications, and news reports from reputable outlets. HowGood employs the most industry-recognized methodologies and incorporates the latest scientific research. Metrics and impact assessments are updated on an ongoing, iterative basis, making HowGood's platform the leading-edge tool for product sustainability. In turn, HowGood is able to provide impact assessments that are accurate, comprehensive, and the most up-to-date. Through HowGood's sustainability intelligence platform, Latis, we are able to scale this approach across products, brands, and the entire food industry.