



GSI 2018 Sustainability Report

Leading the way to a more sustainable future—providing the world with a healthy and sustainable source of protein.

Sustainable Salmon Farming Plays an Important Role in Feeding the World

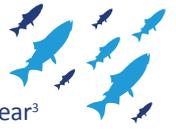
Demand for protein is set to **double** by **2050**¹



50% of seafood is currently farmed. Aquaculture is **needed** to support wild fish stocks²

3.2 million tonnes

of farmed salmon is produced globally per year³



Farmed fish, like salmon, is a healthy choice—high in **Omega-3 fatty acids, protein and nutrients**^{4,5,6}

Farmed salmon is one of the most **eco-efficient** and sustainable forms of protein

Feed Conversion Ratio ¹	1.2-1.5**	1.7-2	2.7-5	6-10
Water Consumption ² <small>(litre / kg edible meat)</small>	2,000*	4,300	6,000	15,400
Carbon Footprint ¹ <small>(grams CO2-equivalent / typical serving of 40 g edible protein)</small>	0.6**	0.9	1.3	5.9

*Total water footprint for farmed salmonid fillets in Scotland, in relation to weight and content of calories, protein and fat.
**Figures reflect feed conversion ratio and carbon footprint of farmed Atlantic salmon.

Global Salmon Initiative	14 members	8 countries	8 associate members	Key principles of 1. SUSTAINABILITY 2. TRANSPARENCY 3. COOPERATION
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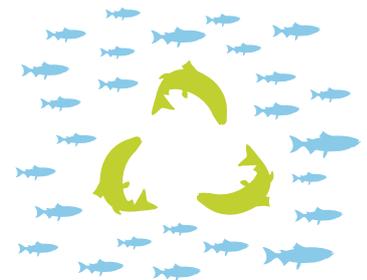


6 years' worth of data

All data for 2016, 2017 and 2018 have been **independently audited**



14 indicators based on **ASC** standard → **9** environmental + **5** social



Report highlights progress being seen in sustainability

Salmon farming is a positive contributor to local communities:

- GSI members employ almost 25,000 individuals worldwide
- Ongoing commitment to often remote communities through engagement in local activities ranging from sports clubs, to recycling initiatives, to educational activities

Key sustainability highlights from report:

- Almost 60% of farmed salmon produced by GSI members is ASC certified
- An average rate of 50% reduction in the use of sea lice treatments over 6 year period, combined with a 120% increase in the use of holistic approaches to sea lice management and on-going sharing of best-practices
- Significant decreases in the amount of marine ingredients used in feed due to ongoing innovations into new alternative sources, and improvements in conversion ratios

Through focusing on its four **#PathwaysToTheFuture**—responsibility, transparency, collaboration and innovation—the GSI believes it can drive significant improvements in the sustainability performance of the aquaculture sector, making farmed salmon a healthy and sustainable solution to feed a growing population.

REFERENCES

- 1 Global Salmon Initiative (GSI) Sustainability Report. Available from <http://globalsalmoninitiative.org/sustainability-report>. Accessed May 2019.
- 2 Mowl. Salmon Farming Industry Handbook 2019. 2019. Available from <http://hugin.info/209/R/2246047/887370.pdf>. Accessed July 2019.
- 3 FAO of the United Nations Fisheries and Aquaculture Department – Fishery Statistical Collections. 2016. Available from <http://www.fao.org/fishery/statistics/global-aquaculture-production/en>. Accessed May 2019.
- 4 European Food Safety Authority (EFSA). EFSA Provides Advice on the Safety and Nutritional Contribution of Wild and Farmed Fish. 2005. Available from <https://www.efsa.europa.eu/en/press/news/contam050704>. Accessed May 2019.
- 5 United States Department of Agriculture (USDA). Dietary Guidelines for Americans 2015-2020. Eighth edition. 2015. Available at: https://health.gov/dietaryguidelines/2015/resources/2015-2020_Dietary_Guidelines.pdf. Accessed May 2019.
- 6 American Heart Association (AHA). Fish and Omega-3 Fatty Acids. Available at: http://www.heart.org/HEARTORG/HealthyLiving/HealthyEating/HealthyDietGoals/Fish-and-Omega-3-Fatty-Acids_UCM_303248_Article.jsp#.WPxz7Wnyu71. Accessed May 2019.

