GLOBALG.A.P. AQUACULTURE CERTIFICATION
Caring for Consumers - Responsible Sourcing
at All Stages of Production

www.globalgap.org/aquaculture
Aquaculture farming is one of the world’s fastest growing forms of agriculture. At the same time, consumers everywhere are looking for food that is farmed responsibly in ecologically sound conditions.

GLOBALG.A.P. enables producers and brand owners to provide that reassurance with confidence. Our standard is a universal mark of Good Aquaculture Practice, and encourages the production and marketing of safe food while protecting scarce resources.

The GLOBALG.A.P. Aquaculture Standard covers the entire production chain, from broodstock, and seedlings, to farming & harvesting, and feed. It includes the Chain of Custody tool to safeguard the GLOBALG.A.P. certified claim up to the point of sale for the final consumer. It acts as a practical manual for any aquaculture producer, ensuring food safety, minimal environmental impact with consideration to the biodiversity, and compliance with animal welfare and workers’ health and safety requirements. For Version 5.1, a risk assessment on social practices becomes a mandatory requirement.
SUPPORTING FARMERS TO IMPLEMENT GOOD AQUACULTURE PRACTICES

Every certified legal entity in the supply chain receives a unique GLOBALG.A.P. Number (GGN). In the event that a single legal entity integrates all production steps, from feed manufacturing to post-harvest activities, all certification information will be stored under a single GGN.

The GLOBALG.A.P. Group Certification tool allows groups of farmers, including smallscale farmers, to apply for certification. All GGNs can be verified online through the public search tool in the GLOBALG.A.P. Database.

A STANDARD CONSUMERS DEMAND

- Food Safety
- Animal Welfare
- Traceability
- Workers’ Occupational Health & Safety
- Veterinary Health Plan
- Assessment on Social Practices
- Quality Assurance
- Water and Emissions Management
- Biodiversity Management
- Chain of Custody

www.globalgap.org/aquaculture
1. It cuts your exposure to food safety risks.

2. It improves the efficiency of your farm management.

3. It provides all the necessary tools to comply with mandatory requirements: certification of the entire production chain, from seedlings, farming, feed, and post-harvest all the way to the final point-of-sale to the consumer.

4. It is designed for you - retailers and producers worked together to create it.

5. It combines global recognition with adaptation to your local conditions, through a system of National Technical Working Groups.

6. It is tried, tested and trusted in 29 countries.

7. It gives you a choice of over 14 reliable certification bodies, who all meet the highest integrity requirements.

8. You can help shape its development by joining a GLOBALG.A.P. Committee.

9. You can contribute to its evolution through public consultations.

10. All documents are accessible online, free of charge.

11. Documents area available in the most relevant languages used in the aquaculture sector.

12. The system is easy to implement, and information and advice are always at hand.

13. It references the FAO Technical Guidelines on Aquaculture Certification at all times: food safety, animal health and welfare, environmental integrity, and socio-economic aspects, based on the institutional and procedural requirements of the GLOBALG.A.P. System in place.


15. It covers 38 aquaculture species of finfish, crustaceans and molluscs, and certifies the entire production chain. GLOBALG.A.P. Aquaculture Certification offers you high access to the market.
The Aquaculture Standard Version 5.1 brings to the market a complete solution for buyers and suppliers, based on current market demands and covering the key sustainability aspects that the animal production for human consumption is required to achieve.

The key elements of food safety, environment, workers’ welfare (including health and occupational safety) and animal welfare are well distributed in a balanced way. The scope of the GLOBALG.A.P. Aquaculture Standard Version 5.1 remains as in version 4, and covers full production chain verification of:

- Broodstock
- Seedlings
- Feed
- Farming
- Post-harvest activities up to the point-of-sale to the final consumers

To achieve and be able to claim GLOBALG.A.P. certified status of the final product, it is mandatory that all the stages of production are verified and assessed as compliant.

HOLISTIC APPROACH: AQUACULTURE

Total number of Control Points (incl. Post-Harvest Handling): 265

- Food Safety: 56
- Animal Welfare: 51
- Traceability: 53
- Environment (Incl. Biodiversity): 66
The Aquaculture Standard Version 5.1 includes:

a. The order of the criteria has been rearranged to support a more fluid auditing process. This makes it a friendlier document for farmers and inspectors to use.
b. Improved language to ensure clear and consistent interpretation.
c. The requirements include a clarification to support in detail the evidence required to comply with the control points, based on feedback from the field during the 4-year revision process.
d. Addition of a mandatory Risk Assessment on Social Practices.
e. Added detailed criteria relating to animal welfare that is specific to aquaculture activities.
f. Animal welfare criteria include cohabitant species, i.e. cleaner fish (as a solution to reduce animal treatments).
g. A tool to demonstrate the sustainability status of feed used: Responsible Operations criteria as a voluntary add-on for the mandatory compliance of the compound feed used.
h. A label on the final packaging to communicate with consumers is now available.

This 4-year revision process includes all feedback received from users plus 2 public consultation periods, which includes the participation of retailers, suppliers, animal health industry, farm assurers, certification bodies and NGO sectors. The number of criteria to be verified in the new version has fallen by 3 percent.

The Aquaculture Standard has been trialed and the outcome reflects the improved auditability, credibility and feasibility of this Version 5.1. As of January 2018, 29 countries have adopted GLOBALG.A.P. Aquaculture Certification, covering 38 species from the finfish, crustaceans and molluscs groups.
<table>
<thead>
<tr>
<th>ALL FARM MODULE</th>
<th>AQUACULTURE MODULE</th>
<th>GRASP</th>
<th>GLOBALG.A.P. RISK ASSESSMENT ON SOCIAL PRACTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF. 1 Site History and Site Management</td>
<td>AB. 1 Site Management</td>
<td>Employees’ Representative(s)</td>
<td></td>
</tr>
<tr>
<td>AF. 2 Record Keeping and Internal Self-Assessment/Internal Inspection</td>
<td>AB. 2 Reproduction</td>
<td>Complaint Procedure</td>
<td></td>
</tr>
<tr>
<td>AF. 3 Hygiene</td>
<td>AB. 3 Chemical Compounds</td>
<td>Self-Declaration on Good Social Practices</td>
<td></td>
</tr>
<tr>
<td>AF. 5 Subcontractors</td>
<td>AB. 5 Fish Welfare, Management and Husbandry (at all points of the production chain)</td>
<td>Working Contracts</td>
<td></td>
</tr>
<tr>
<td>AF. 6 Waste and Pollution Management, Recycling and Re-Use</td>
<td>AB. 6 Sampling and Testing</td>
<td>Payslips</td>
<td></td>
</tr>
<tr>
<td>AF. 7 Conservation</td>
<td>AB. 7 Feed Management</td>
<td>Wages</td>
<td></td>
</tr>
<tr>
<td>AF. 8 Complaints</td>
<td>AB. 8 Pest Control</td>
<td>Non-Employment of Minors</td>
<td></td>
</tr>
<tr>
<td>AF. 9 Recall/Withdrawal Procedure</td>
<td>AB. 9 Environmental and Biodiversity Management</td>
<td>Access to Compulsory School Education</td>
<td></td>
</tr>
<tr>
<td>AF. 10 Food Defense (Not Applicable for F&amp;O)</td>
<td>AB. 10 Water Usage and Disposal</td>
<td>Time Recording System</td>
<td></td>
</tr>
<tr>
<td>AF. 11 GLOBALG.A.P. Status</td>
<td>AB. 11 Harvesting &amp; Post Harvest – Operations</td>
<td>Working Hours &amp; Breaks</td>
<td></td>
</tr>
<tr>
<td>AF. 12 Logo Use</td>
<td>AB. 12 Holding And Crowding Facilities</td>
<td>Additional Social Benefits</td>
<td></td>
</tr>
<tr>
<td>AF. 13 Traceability And Segregation</td>
<td>AB. 13 Slaughter Activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AF. 14 Mass Balance</td>
<td>AB. 14 Depuration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AF. 15 Food Safety Policy Declaration</td>
<td>AB. 15 Post Harvest - Mass Balance and Traceability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AF. 16 Food Fraud Mitigation</td>
<td>AB. 16 Social Criteria</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annex AF. 2. Guideline Risk Assessment – Site Management</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Covers all species of finfish, crustaceans and molluscs
## GLOBALG.A.P. AQUACULTURE STATISTICS

### SPECIES CURRENTLY IN COMPLIANCE WITH THE GLOBALG.A.P. AQUACULTURE STANDARD

<table>
<thead>
<tr>
<th>Species</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adriatic Sturgeon</td>
<td><em>Acipenser naccarii</em></td>
</tr>
<tr>
<td>Atlantic Halibut</td>
<td><em>Hippoglossus hippoglossus</em></td>
</tr>
<tr>
<td>Atlantic Salmon</td>
<td><em>Salmo salar</em></td>
</tr>
<tr>
<td>Barramundi</td>
<td><em>Lates calcarifer</em></td>
</tr>
<tr>
<td>Blue Mussel</td>
<td><em>Mytilus edulis</em></td>
</tr>
<tr>
<td>Bluespotted Seabream</td>
<td><em>Pagrus caeruleostictus</em></td>
</tr>
<tr>
<td>Brook Trout</td>
<td><em>Salvelinus fontinalis</em></td>
</tr>
<tr>
<td>Cobia</td>
<td><em>Rachycentron canadum</em></td>
</tr>
<tr>
<td>Coho Salmon</td>
<td><em>Oncorhynchus kisutch</em></td>
</tr>
<tr>
<td>Common Dentex</td>
<td><em>Dentex dentex</em></td>
</tr>
<tr>
<td>Danube Sturgeon</td>
<td><em>Acipenser gueldenstaedti</em></td>
</tr>
<tr>
<td>European Flat Oyster</td>
<td><em>Ostrea edulis</em></td>
</tr>
<tr>
<td>European Seabass</td>
<td><em>Dicentrarchus labrax</em></td>
</tr>
<tr>
<td>Giant Tiger Prawn</td>
<td><em>Penaeus monodon</em></td>
</tr>
<tr>
<td>Gilthead Seabream</td>
<td><em>Sparus aurata</em></td>
</tr>
<tr>
<td>Greater Amberjack</td>
<td><em>Seriola dumerili</em></td>
</tr>
<tr>
<td>Large-Eye Dentex</td>
<td><em>Dentex macrophthalus</em></td>
</tr>
<tr>
<td>Meagre</td>
<td><em>Argyrosomus regius</em></td>
</tr>
<tr>
<td>Mediterranean Mussel</td>
<td><em>Mytilus galloprovincialis</em></td>
</tr>
<tr>
<td>Nile Tilapia</td>
<td><em>Oreochromis niloticus</em></td>
</tr>
<tr>
<td>Pacific Cupped Oyster</td>
<td><em>Crassostrea gigas</em></td>
</tr>
<tr>
<td>Pangasius Tra</td>
<td><em>Pangasianodon hypophthalmus</em></td>
</tr>
<tr>
<td>Pink Dentex</td>
<td><em>Dentex gibbosus</em></td>
</tr>
<tr>
<td>Pompano</td>
<td><em>Trachinotus blochii</em></td>
</tr>
<tr>
<td>Rainbow Trout</td>
<td><em>Oncorhynchus mykiss</em></td>
</tr>
<tr>
<td>Red Drum</td>
<td><em>Sciaenops ocellatus</em></td>
</tr>
<tr>
<td>Red Porgy</td>
<td><em>Pagrus pugnax</em></td>
</tr>
<tr>
<td>Redbanded Seabream</td>
<td><em>Pagrus auriga</em></td>
</tr>
<tr>
<td>Redspotted Grouper</td>
<td><em>Epinephelus akaara</em></td>
</tr>
<tr>
<td>Salmon Trout</td>
<td><em>Salmo trutta trutta</em></td>
</tr>
<tr>
<td>Seniorale Sole</td>
<td><em>Solea senegalensis</em></td>
</tr>
<tr>
<td>Sharpsnout Seabream</td>
<td><em>Diplodus puntazzo</em></td>
</tr>
<tr>
<td>Shi Drum</td>
<td><em>Umbrina cirrosa</em></td>
</tr>
<tr>
<td>Starry Sturgeon</td>
<td><em>Acipenser stellatus</em></td>
</tr>
<tr>
<td>Sterlet Sturgeon</td>
<td><em>Acipenser ruthenus</em></td>
</tr>
<tr>
<td>Turbot</td>
<td><em>Scophthalmus maximus</em></td>
</tr>
<tr>
<td>White Grouper</td>
<td><em>Epinephelus aeneus</em></td>
</tr>
<tr>
<td>Whiteleg Shrimp</td>
<td><em>Litopenaeus vannamei</em></td>
</tr>
</tbody>
</table>

### AQUACULTURE CERTIFICATION IN 29 COUNTRIES*

- Australia
- Chile
- China**
- Croatia
- Denmark
- Ecuador
- Faroe Isl.
- France
- Greece
- Honduras
- Iceland
- Indonesia
- Ireland
- Isle of Man
- Italy
- Korea
- Mauritius
- Nicaragua
- Norway
- Panama
- Peru
- Poland
- Portugal
- Spain
- Tunisia
- Turkey
- United Kingdom
- United States
- Vietnam

---

*2+ mil. Metric Tons Certified Worldwide*

---

*Updated January 2018 | **Inc. Taiwan
A SELECTION OF AQUACULTURE MEMBERS
SAFE FEED - SAFE FOOD

THE GLOBALG.A.P. COMPOUND FEED MANUFACTURING (CFM) STANDARD

Suitable animal nourishment is an integral part of the food chain. Compound feed plays a vital role in the process of ensuring food safety along the entire livestock and aquaculture production and supply chain. The production and sourcing of raw materials plus their processing for quality-assured compound feed has become a major consumer concern.

CFM defines the control points and compliance criteria for quality assurance in the production, supply and purchase of raw materials and feed ingredients for compound feed. It covers all the production steps from the purchase, handling and storage to the processing and distribution of compound feed.

Learn more at www.globalgap.org/cfm
Putting Feed Mills at the Forefront of Sustainability

The Responsible Operations Standard (ROS) Add-on for Compound Feed Manufacturing V1 aims to improve the sustainability practices of feed mills wishing to produce sustainable compound feed for aquaculture and livestock. It ensures:

- Improved manufacturing processes by reducing energy use and GHG emissions as well as integrating strategies to avoid waste and effluents.
- Responsible sourcing of agricultural and marine feed materials from sustainable production.
- Product declarations on feed efficiency, environmental impacts, and genetically modified organisms (GMO) content.
- Mass balances for specific claims on sustainability attributes of feed materials.
- Social engagement with the local community.

Learn more at www.globalgap.org/cfm
The GLOBALG.A.P. Chain of Custody (CoC) Certification Standard ensures segregation and traceability through the supply chain. Traceability systems contribute to the ability to withdraw and/or recall products if necessary. The objective of these requirements is to ensure that any product sold as GLOBALG.A.P. certified is produced from material that originates from certified GLOBALG.A.P. farms. In this new version, subcontractors may also be certified individually and receive their own CoC certificate independently of legal ownership of the certified product.

For aquaculture, the animal welfare related control points are applicable for companies where live fish is handled and includes the fish slaughter conditions. The equivalent criteria in the Chain of Custody Version 5.1 is part of the Aquaculture Module for those legal entities also performing post-harvest activities, and shall be in compliance in order to receive certificate at farm level.

To maintain GLOBALG.A.P. certified status of the product after any change in legal ownership, companies must implement the GLOBALG.A.P. CoC Standard. This enables appropriate traceability of the GLOBALG.A.P. certified products from the farm level all the way to the point of sale for the final consumer.

The new GLOBALG.A.P. CoC Standard Version 5.1 includes the possibility to identify GLOBALG.A.P. certified products in multi-ingredient products.

The new criteria allow companies to properly identify the ingredients with GLOBALG.A.P. certified status through the GLOBALG.A.P. Number (GGN), e.g. as in the case of farmed salmon and shrimp used in sushi products. Industrial by-products of GLOBALG.A.P. certified origin thus can potentially become raw materials for fishmeal and fish oil processing that can be properly identified through a CoC certification.

Learn more at www.globalgap.org/coc

The **GLOBALG.A.P. Number** (GGN) and the **GLOBALG.A.P. CoC Number** is a 13-digit number that uniquely identifies each individual producer and CoC certified company in the **GLOBALG.A.P. Database**.

Use it to ensure that your supplier has segregated the certified and the non-certified products.
GLOBALG.A.P. CHAIN OF CUSTODY FOR MULTI-INGREDIENT PRODUCTS

Chain of Custody Version 5.1 includes the possibility to identify GLOBALG.A.P. certified products in multi-ingredient products.
Introducing the Consumer Label for Certified Aquaculture

Aquaculture products that come from GLOBALG.A.P. certified farms can now be labeled with the new GGN consumer label, which works with the GGN – the GLOBALG.A.P. Number, a 13-digit identification number that identifies all the certified participants in the production and supply chain. All aquaculture products with the GGN Label are thus certified in accordance with the rules of the GLOBALG.A.P. Aquaculture Standard.

Using the GGN printed on the product packaging, consumers can learn more about the farms that have produced the GLOBALG.A.P. certified products at www.ggn.org – the online portal for certified aquaculture. The website also explains what good aquaculture practices are and how the certified farms implement them. This direct line between the consumer and the original producer forms the basis of a chain of trust in food production.
Download the relevant GLOBALG.A.P. Standard documents and checklists from our website.

Carry out a self-assessment using the checklist and correct all the points you don’t comply with. Here a GLOBALG.A.P. Farm Assurer can provide you with valuable assistance during your audit preparations.

Find a full list of GLOBALG.A.P. approved certification bodies on our website.

Arrange an appointment with your GLOBALG.A.P. approved certification body. An inspector will then conduct the first on-site inspection.

Once you successfully comply with the standard’s requirements, you will receive a GLOBALG.A.P. Integrated Farm Assurance Standard V5.1 certificate for the relevant scope.

Access the GLOBALG.A.P. documents at www.globalgap.org/documents

THE GLOBALG.A.P. FARM ASSURER

A GLOBALG.A.P. Farm Assurer can support you in achieving certification. Farm Assurers do this with producers all over the world. They have first-hand knowledge about the GLOBALG.A.P. System and the latest developments, so their expert help makes the standard easier to understand and simplifies audit preparation. They can also link producers directly with selected customers in the supply chain.

Learn more at www.farmassurer.org
GLOBALG.A.P. PRODUCTS - BUILT ON A SOLID FOUNDATION

GLOBALG.A.P. Certification is the product of a transparent and independent standard development system that relies on the intensive consultation, contribution and collaboration of our technical committees, focus groups, members, national technical working groups, certification bodies and the industry.

THE FIRST STEP TOWARD SAFE AND SUSTAINABLE AGRICULTURE

localg.a.p. is the stepping stone toward GLOBALG.A.P. Certification. It offers emerging producers entry-level recognition where GLOBALG.A.P. Certification or the required end goal as set by the localg.a.p. program owner is not immediately possible. By providing an achievable level of assurance and reliability, localg.a.p. helps producers gain access to new local and regional markets.

THE INTERNATIONAL STANDARD FOR SAFE AND SUSTAINABLE AGRICULTURE

GLOBALG.A.P. is the internationally recognized standard for farm production. By complying with a single harmonized global standard for safe and sustainable food production, producers can show their commitment to Good Agricultural Practices.

CUSTOMIZED SOLUTIONS FOR SAFE AND SUSTAINABLE AGRICULTURE

GLOBALG.A.P.+ Add-on is the innovative solution for all your specific certification needs. Enhance your GLOBALG.A.P. Standard with customized add-ons that raise your status as a producer and offer buyers specific assurances tailored to their interests and preferences.
GLOBALG.A.P. AT A GLANCE
THE MOST WIDELY ACCEPTED GOOD AGRICULTURAL PRACTICES CERTIFICATION WORLDWIDE

430+ voluntary members form the GLOBALG.A.P. Community

194,000+ certified producers in 130+ countries

Capacity building for thousands of people on 5 continents and in 10 languages

A pioneering integrity system with independent assessments to monitor the performance of our certification bodies

A consumer label for seafood based on the GLOBALG.A.P. Aquaculture Standard

GLOBALG.A.P. governed by an elected Board

3 main products with 40+ standards and programs

An extensive worldwide network of consultants to help producers with their certification process

2,000+ inspectors and auditors working for 160 approved certification bodies

An online consumer portal for transparent farm verification and information

1,000+ international experts active in Technical Committees, National Technical Working Groups and Focus Groups

600+ products available for certification

A harmonization program to benchmark schemes and checklists around the world

A secure online certification database to check producers and validate certificates

A consumer label for plants based on the GLOBALG.A.P. Flowers & Ornamentals Standard

FIND OUT HOW GLOBALG.A.P. CAN ADD VALUE TO YOUR BUSINESS AT www.globalgap.org