Introductory Webinar for Integrated Farm Assurance (IFA) Version 6 for Aquaculture
G.A.P. STANDS FOR GOOD AGRICULTURAL PRACTICES AND GLOBALG.A.P. SETS THE STANDARDS THAT ASSURE THEM.
We’re a global organization with a crucial objective:

SAFE, SUSTAINABLE AGRICULTURE WORLDWIDE

We set voluntary standards for the certification of agricultural production processes around the globe – and more and more producers, suppliers, and buyers are harmonizing their certification standards to match.
Putting food safety, sustainability, and the environment in the hands of producers.
THE GLOBALG.A.P. AQUACULTURE STANDARD

GLOBALG.A.P. Compound Feed Manufacturing Standard
GLOBALG.A.P. Aquaculture Standard

SUPPORTING THE AQUACULTURE SECTOR SINCE 2004
37 SPECIES FROM CERTIFIED PRODUCTION

New species added in the last two years:

- Arctic char
- Atlantic cod
- Flathead grey mullet
- Hybrid striped bass
- South African abalone

<table>
<thead>
<tr>
<th>32 FINFISH SPECIES AVAILABLE FROM CERTIFIED PRODUCTION</th>
</tr>
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<tbody>
<tr>
<td>Adriatic Sturgeon</td>
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<tr>
<td>Arctic Char</td>
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<td>Asian Bronze Featherback</td>
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<td>Atlantic Cod</td>
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<td>Atlantic Halibut</td>
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<td>Atlantic Salmon</td>
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<td>Barramundi</td>
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<td>Bluespotted Seabream</td>
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<td>Brook Trout</td>
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<td>Brown Trout</td>
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<td>Cobia</td>
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<tr>
<td>Coho Salmon</td>
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<tr>
<td>Common Dentex</td>
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<tr>
<td>European Seabass</td>
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<tr>
<td>Gillhead Seabream</td>
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<tr>
<td>Greater Amberjack</td>
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<tr>
<td>Meagre</td>
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<td>Pangasius Tra</td>
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<td>Pink Dentex</td>
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<td>Rainbow Trout</td>
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<tr>
<td>Red Drum</td>
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<td>Red Porgy</td>
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<tr>
<td>Red Seabream</td>
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<tr>
<td>Russian Sturgeon</td>
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<tr>
<td>Senegalese Sole</td>
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<td>Sharpsnout Seabream</td>
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<td>Shi Drum</td>
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<td>Strayr Sturgeon</td>
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<td>Sterlet Sturgeon</td>
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<tr>
<td>Turbot</td>
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<tr>
<td>White Grouper</td>
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<tr>
<td>Yellowtail Kingfish</td>
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<tr>
<th>5 CRUSTACEANS &amp; MOLLUSCS SPECIES AVAILABLE FROM CERTIFIED PRODUCTION</th>
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<tbody>
<tr>
<td>Blue Mussel</td>
</tr>
<tr>
<td>Pacific Cupped Oyster</td>
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<tr>
<td>Mediterranean Mussel</td>
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<tr>
<td>Giant Tiger Prawn</td>
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<td>Whiteleg Shrimp</td>
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WHAT IS THE TRANSITION PERIOD FROM IFA V5 TO V6? (aquaculture)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>26 April 2022</td>
<td>Publication of IFA v6 interim version</td>
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<tr>
<td>1 May 2022</td>
<td>IFA v5.4-1-GFS replaces v5.3-GFS</td>
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<tr>
<td>May 2022</td>
<td>CB training (IFA v6)</td>
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<td>September 2022</td>
<td>Publication of IFA v6 final version</td>
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<td>(*) 1 May 2023</td>
<td>IFA v6 Smart becomes obligatory</td>
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<td>May 2024</td>
<td>100% of IFA certificates are for v6</td>
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IFA v5.4-1-GFS audits possible*

IFA v5.4-1-GFS certificates valid*

IFA v5.2 audits possible (non GFSI recognized)

IFA v5.2 certificates valid

IFA v6 audits possible

IFA v6 GFS audits are GFSI recognized

*V5.4-1-GFS audits will remain possible until IFA v6 GFS receives GFSI recognition. The exact date for this is still unknown.
WHAT’S NEW IN VERSION 6?
IFAV6
Aquaculture World Consultation Tour

- 14 webinars covering all continents
- 21 hours
- 150 stakeholders
- 4 languages
- 485 comments
WHAT'S NEW IN IFA V6 FOR AQUACULTURE?

• Overall upgrade of the holistic approach
  o Increased environmental sustainability
  o Increased animal health and welfare
  o Increased workers’ well-being

• Streamlined, outcome-oriented, and customized checklists
THANK YOU!
AQUACULTURE TECHNICAL COMMITTEE

**Chairperson:** Andy Gourlay/Scottish Sea Farms  
**Vice-chairperson:** Teresa Fernandez/Hilton Seafood UK  
**Board liaison:** Martin Hofstede/Clama GmbH & Co. KG  
**GLOBAL.G.A.P. Secretariat:** Valeska Weymann

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Francisco Ascaso</td>
<td>Eroski</td>
<td>Spain</td>
</tr>
<tr>
<td>Lukasz Dragunowicz</td>
<td>Milarex</td>
<td>Poland</td>
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<tr>
<td>Teresa Fernandez</td>
<td>Hilton Seafood UK</td>
<td>United Kingdom</td>
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<tr>
<td>Andy Gourlay</td>
<td>Scottish Sea Farms</td>
<td>United Kingdom</td>
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<tr>
<td>Randi Norstoga Haldorsen</td>
<td>MOWI</td>
<td>Norway</td>
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<tr>
<td>Taru Spring</td>
<td>Kesko Corporation</td>
<td>Finland</td>
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<tr>
<td>Marlene Timm</td>
<td>ALDI SOUTH Group</td>
<td>Austria</td>
</tr>
<tr>
<td>Ben Weis</td>
<td>Tesco</td>
<td>United Kingdom</td>
</tr>
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**Observers:**  
Zoetis/Terje Tingbo, Norway  
Bureau Veritas/Oscar Vidal, Spain
IFA v6 FOR AQUACULTURE

Two parallel editions

IFA v6 is available in two editions: **IFA v6 Smart** and **IFA v6 GFS**

**IFA v6 Smart** is our flagship standard designed for all producers regardless of size and location and for circumstances where GFSI rules are not appropriate.

**IFA v6 GFS** is for producers who require GFSI recognition.

**Standard content is identical**

**General regulations differ**
GlobalGAP tightens feed standard rules

Feed manufacturers certified under the GlobalGAP standard will have to meet stricter criteria for fishmeal, fish oil and soy if they want to keep the certification.

Source: Fishfarmingexpert
THANK YOU!
COMPOUND FEED MANUFACTURING FOCUS GROUP

<table>
<thead>
<tr>
<th>Name</th>
<th>Company/Position</th>
<th>Country</th>
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<tbody>
<tr>
<td>Neil Auchterlonie</td>
<td>Consultant (Representing IFFO)</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Jill Bohmfalk</td>
<td>Köster Marine Proteins GmbH</td>
<td>Germany</td>
</tr>
<tr>
<td>Ian Carr</td>
<td>Veramaris</td>
<td>UK</td>
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<tr>
<td>Fabio Cervellione</td>
<td>DSM</td>
<td>Switzerland</td>
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<tr>
<td>Karina De Leon</td>
<td>Cargill</td>
<td>Guatemala</td>
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<tr>
<td>Erik Olav Gracey</td>
<td>Biomar AS</td>
<td>Norway</td>
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<tr>
<td>Ellinor Helland</td>
<td>Biomar AS</td>
<td>Norway</td>
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<tr>
<td>Trygve Berg Lea</td>
<td>Skretting/Nutreco</td>
<td>Norway</td>
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<tr>
<td>Paul Morris</td>
<td>Mowi</td>
<td>Norway</td>
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<tr>
<td>Sanna i Tuni Nielsen</td>
<td>Havsbrun</td>
<td>Faroe Islands</td>
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<tr>
<td>Sergiy Pokhyla</td>
<td>Goodvalley</td>
<td>Ukraine</td>
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<tr>
<td>Marco Scolari</td>
<td>Nutreco</td>
<td>Italy</td>
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Main changes

• Sustainability of feed production
• Workers’ health, safety, and welfare
• Responsible sourcing of raw materials:
  Sourcing of fish meal and fish oil
    o 60% GSSI, Marine Trust, Fishery Improvement Project (FIP)
    o 2025 → 75%
  FEFAC soy sourcing guidelines
    o 75% aquaculture
    o 100% salmonids
  Palm oil products
    o 100% RSPO certified
GLOBALG.A.P. CERTIFICATION FOR AQUACULTURE

Seaweed (macroalgae) added to product scope

Available for:
- Finfish
- Crustaceans
- Molluscs
- **NEW:** seaweed (macroalgae)
GLOBALG.A.P. CERTIFICATION FOR AQUACULTURE
Available for all types of production systems

- Net enclosures
- Pond farming
- Flow-through systems
- Closed recirculation systems
- Shellfish
## AQUACULTURE – Finfish, Crustaceans, Molluscs, Seaweed v6

### Contents

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**Integrated Farm Assurance version 6 for aquaculture**
SECTIONS

Integrated Farm Assurance version 6 for aquaculture

AQ 17  SPECIFICATIONS, NON-CONFORMING PRODUCTS, AND PRODUCT RELEASE AT THE FARM

AQ 18  REPRODUCTION
This section provides the additional criteria applicable specifically to hatcheries, when covered under the certificate.

AQ 19  CHEMICAL COMPOUNDS

AQ 20  FARMED AQUATIC SPECIES WELFARE, MANAGEMENT, AND HUSBANDRY
(at all points of the production chain)

AQ 21  SAMPLING AND TESTING OF FARMED AQUATIC SPECIES

AQ 22  FEED MANAGEMENT

AQ 23  PEST CONTROL

AQ 24  HARVESTING AND POST-HARVESTING OPERATIONS

AQ 25  HOLDING AND CROWDING FACILITIES

AQ 26  SLAUGHTER ACTIVITIES

AQ 27  DEPURATION

AQ 28  POST HARVEST - MASS BALANCE AND TRACEABILITY

GUIDELINE AQ I  Examples of Environmental Impact Assessment (EIA), Environmental Risk Assessment (ERA), and Respective Environmental Management Plans (EMPs)

GUIDELINE AQ II  Biodiversity in Environmental Impact Assessment

GUIDELINE AQ III  Environmental Parameters of Relevance Based on the Aquaculture System Used and AQ III Glossary

GUIDELINE AQ IV  The Ramsar Convention on Wetlands
IFA V6 FOR AQUACULTURE STANDARD CONTENT

Principles and criteria (*)

GLOBALG.A.P. Risk Assessment on Social Practice 23%
Food safety 13%
Environmental sustainability 20%
Animal health and welfare 24%
Workers' well-being 13%
Legal, management, and traceability 7%

*Excluding postharvest section AQ 28
• Only aquaculture certification standard at farm level recognized by GFSI (Global Food Safety Initiative)

• Only aquaculture certification standard recognized by GSSI (Global Sustainability Seafood Initiative) for all species of finfish, crustaceans, molluscs, and seaweed

Referenced at all times:

• Technical Guidelines on Aquaculture Certification – FAO (Food and Agriculture Organization of the United Nations)


• Standard implementation contributes to the United Nations Sustainable Development Goals
THE GLOBALG.A.P. SOLUTION
Considers the four pillars of the FAO Technical Guidelines

FAO Technical Guidelines on Aquaculture Certification

- **Food safety**
  - Only scheme recognized by GFSI for aquaculture at farm level

- **Animal health and welfare**
  - Covers the OIE Aquatic Animal Health Code requirements

- **Environmental integrity**
  - Recognized by GSSI for all species in the GLOBALG.A.P. product list

- **Socioeconomic aspects**
  - GLOBALG.A.P. Risk Assessment on Social Practice is a mandatory part of IFA for aquaculture
Interaction with the environment
- Evaluation of the activities in the surrounding area and how they affect the farm upgraded

**Chemical use:** Aquaculture health plan (AHP) with detailed operation instructions; Chemical use management; Negative list of prohibited substances.

**Diseases:** The prevention of the spread of pathogens is covered in eight principles and criteria.

**Escapes:** Escape management aims at zero escapes. Attention to climate change related escapes, including cages structures.

Higher level of responsible sourcing of raw materials with special requirements for fish meal/fish oil and soya
In IFA for aquaculture v6: Updated requirements on the reporting of the feed conversion ratio (FCR) to evaluate the best use of resources as well as the percentage and origin of fish meal/oil used in the compound feed.
• Evidence required of no significant negative impact on the biodiversity of the benthic fauna and/or recipient water body sediment/water column

• Prevention of interaction with predators

• Collaboration with farms sharing the same water body, including disease control, movement of animals, predators, and the evaluation of macro fauna
## Topic

**Food safety**
Protects consumers through strict requirements on feed and animal health management

**Animal welfare**
Improves the quality of products and boosts consumer acceptance

**Social welfare**
Protects workers’ well-being, ensures proper training, and boosts consumer acceptance

**Environmental/Biodiversity management**
Provides tools for sustainable operations and boosts consumer acceptance

**Feed management**
Ensures efficient resource use and feed and food safety

**Harvest/Postharvest operations**
Prioritizes animal health and welfare and food safety for consumers

**Hygiene**
Supports food safety and prevents on-farm biosecurity issues

**Pest control**
Supports food safety and protects animal health and welfare

**Sampling and testing**
Supports food safety and protects animal health and welfare

**Traceability**
Protects product integrity and identifies the root cause of any incident
NEW IN IFA V6
Food safety

- **IFA v6 standard for aquaculture** continues to implement GFSI requirements (v2020).
- Increased **biosecurity** requirements
- Entire section on **hygiene** upgraded to Major Must, covering aspects such as design of facility to enable proper cleaning and controlled entry/exit points equipped for disinfection.
- All **outsourced processes, products, and materials** impacting food safety shall be identified, documented, controlled, and shall conform to specified requirements as well as food safety and regulatory requirements.
NEW IN IFA V6
Environmental sustainability and biodiversity

- **Environmental impact assessment (EIA)** now features effluent phosphorus, feed, and fertilizers.
- Evidence required of no significant negative impact on the **biodiversity of the benthic fauna** and/or recipient water body sediment.
- **Escape management** aiming at zero escapes, with new requirements on climate change-related accidents, such as cage structures.
- Higher level of **responsible raw material sourcing for compound feed**, with targeted criteria for fish meal/fish oil, soy, and palm oil.
- **Collaboration between farms sharing the same water body**, including disease control and animal movement.
Sampling program to monitor the impact of the farming activity on the benthic fauna and recipient water body sediment for all systems.

Benthic biodiversity, chemical indicators, and possible accumulation of chemical residues in the recipient water body sediment FOR ALL FARMING SYSTEMS.
GLOBALG.A.P. Risk Assessment on Social Practice (GRASP) continues to be a compulsory part of the IFA requirements for aquaculture with GRASP v2

- Entire section on workers’ health, safety, and welfare upgraded
- Diving operation requirements expanded
- Worker handling training for increased compliance with hygiene and animal health criteria
- Aquatic species welfare training extended to include workers at all stages of production
Introduction of three values (metrics) necessary as part of the audit report, in addition to the audit criteria:

- **Percentage of mortalities** linked to causes of death
- **Average fish meal and fish oil percentage** (including origin, where possible), and fish in:fish out information
- **Economic feed conversion ratio** (eFCR) – the quantity of feed used to produce the quantity of fish harvested (net production refers to the live weight)
NEW IN IFA V6
Animal health and welfare

- **Predator exclusion plan** extended, including addition of requirements on nonlethal control practices
- **Aquaculture health plan (AHP)** provides transparency on antimicrobials, the management of chemical use, and a negative list of prohibited substances
- **Banning of seedlings sourced from shrimp females with eyestalk ablation** from April 2024
- **Environmental enrichment concept** adopted
- **Stricter humane slaughter practices** to reference the OIE Aquatic Animal Health Code
- **Prevention of pathogen spreading** expanded
- Animal welfare parameters **established for transport**
As of April 2024, only larvae originating from shrimp females without eyestalk ablation will be accepted.
NEW IN IFA V6
Continuous improvement

**Stages of a continuous improvement plan**

1. Producer analyzes current practices using real data
2. Reporting is used to identify areas that can be improved
3. Producer sets measurable goals for improvement
4. New measures are implemented in farm practices
5. Implementation is checked and progress reviewed at annual CB audit
6. The continuous improvement plan is revised based on progress

- Producers are required to implement a plan to **analyze current practices** at farm level.
- Producers then **identify “hot spots”** and **set clear, measurable goals** for improvement in a defined area.
- Year-on-year, producers demonstrate their efforts towards improving aspects such as sustainability, food safety, and workers' well-being.
Example of a continuous improvement plan

1. Producer analyzes **mortality rate** as an indicator of **welfare** and collects data.

2. Reporting is used to identify the **percentage of mortalities linked to cause of death**.

3. Producer sets **measurable goals for improvement of mortality rate**.

4. New **measures are implemented** in farm practices.

5. Implementation is checked and **progress is reviewed at annual CB audit**.

6. The **continuous improvement plan is revised** based on the progress of mortality reduction.
According to the latest GFSI recommendations, the 12-month period for farms to comply with requirements for certified production processes for compound feed no longer applies.

**Compliance with AQ 22.01.02 is now required from the initial audit onwards.** This requirement is not new, but has been amended.
• Documented risk assessment for hazards to workers’ health and safety

• Health and safety procedures

• Diving operations

• Health and safety training according to the risk assessment

• Documented waste management system

• A biodiversity-inclusive environmental impact assessment (EIA) and environmental risk assessment (ERA) NEW: Guideline AQ III – Environmental parameters of relevance based on the aquaculture system used

• Monitoring of the impact on the biodiversity of the benthic fauna and/or recipient water body sediment/water column

• Predator control techniques

• Aquaculture health plan (AHP)

• The hatchery/farm has a system to monitor and register health and welfare indicators

• Biosecurity plan

• If there is an area management plan, the farm is actively participating.

• Protein elements in the compound feed are not obtained from the same fish/crustacean species, unless hydrolized
Principle and criteria that require the audit report to include values
IFA v6 for aquaculture – Finfish, crustaceans, molluscs, and seaweed

- The self-assessment/internal audit and certification body (CB) audit reports shall have a value of the **overall percentage of mortalities** per production stage and values linked to the causes of death.

  AQ 20.05.02

- The self-assessment/internal audit and certification body (CB) audit reports shall have at least two values recorded: average fish meal and fish oil percentage and the fish-in/fish-out ratio.

  AQ 22.02.03

**average fish meal and fish oil percentage**

**fish-in/fish-out ratio**

- The self-assessment/internal audit and certification body (CB) audit reports shall have at least one FCR value recorded: eFCR per production life cycle.

  AQ 22.02.05

**Economic feed conversion ratio (eFCR)** = Feed (in kg or mt) / Net aquaculture production (in kg or mt; live weight)
EFFICIENCY
IFA v6 for aquaculture – Finfish, crustaceans, molluscs, and seaweed

Versions 5.2 and 5.3-GFS contain a total of 237 principles and criteria (without the postharvest section), which means that version 6 has 11 fewer principles and criteria, around 5% greater efficiency compared to the total number.

Without section 28 POSTHARVEST – MASS BALANCE AND TRACEABILITY

<table>
<thead>
<tr>
<th>Level</th>
<th>Number IFA V5.2 and V5.3-GFS</th>
<th>Number V6</th>
<th>Percentage IFA V5.2 and V5.3-GFS</th>
<th>Percentage V6</th>
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<tr>
<td>Major Must</td>
<td>182</td>
<td>199</td>
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<td>237</td>
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SMART FARM ASSURANCE SOLUTIONS
The benefit for all stakeholders

Smart, easy-to-use farm assurance solutions at your fingertips
SMART FARM ASSURANCE SOLUTIONS
The journey towards our vision

Progressive deployments will bring our vision for IFA v6 to life.

- Smarter standards and add-ons
- Smarter approach to sustainability
- Smarter systems and services
- Smarter integration of data
IFA V6
Timeline

Virtual launch event
26 April 2022:
globalgap.org/ifav6
Registered Trainers are:

- Farming experts
- Trained by GLOBALG.A.P.
- Authorized to provide trainings on GLOBALG.A.P. standards
- Able to support you on your journey to achieving GLOBALG.A.P. certification

Find Registered Trainers using our “Find a Registered Trainer” tool. You can recognize them by their green seal.
The GGN label

Cross-category, consumer-facing label

Stands for certified, responsible farming and transparency.
THE GGN LABEL
Making certified, responsible farming visible

GGN CERTIFIED FARMING
WWW.GGN.ORG
The GGN label stands for certified, responsible farming and transparency.

We provide a solution for:

- Flowers and ornamentals
- Aquaculture
- NEW: Fruit and vegetables

NEW: One label for all three scopes
ONE LABEL FOR ALL SCOPES

Fruit and vegetables
Aquaculture
Flowers and ornamentals
B2C COMMUNICATION
Available for both GFS and Smart editions

GLOBALG.A.P. Compound Feed Manufacturing - CFM
GLOBALG.A.P. Integrated Farm Assurance – Aquaculture
(hatchery, farm, post-harvest) includes GRASP (GRASP risk assessment on social practices)
GLOBALG.A.P. Chain of Custody - CoC when legal entity different than the farm

GLOBALG.A.P. AQUACULTURE CERTIFICATION

VOLUNTARY NON-GM
Non-GM/ “Ohne Gentechnik” Module 1 - CFM
Non-GM/“Ohne Gentechnik” Module 2 – Farm/Producer
Non-GM/“Ohne Gentechnik” Module 3– Processing Facility

POSSIBLE LABELING
THE GLOBALG.A.P. PORTFOLIO
Aquaculture solutions

- Chain of Custody
- GRASP v2
- IFA v6 Aquaculture
- Compound Feed Manufacturing v3
- Minimum IFA certification for aquaculture

- Chain of Custody
- GRASP v2
- IFA v6 Aquaculture
- Compound Feed Manufacturing v3
- IFA certification for aquaculture with voluntary NON-GM add-on and label

- Chain of Custody
- GRASP v2
- IFA v6 Aquaculture
- Compound Feed Manufacturing v3
- Minimum IFA certification for aquaculture for GGN label
THE GGN LABEL
Making certified, responsible farming visible

Products with the GGN label are available at:
Why are more and more retailers and brands adopting the GGN label?

- More flexibility in sourcing due to larger certified volume
- Increased assurance regarding food safety and animal welfare
- More cost-effective sourcing due to:
  - Higher supply volumes
  - Lower label license fee
THE GGN LABEL
Countries with GGN label license holders

License holders, also in South Africa and Vietnam
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