Food and Agriculture Organization of the United Nations

General Fisheries Commission for the Mediterranean

FEDERATION OF EUROPEAN AQUACULTURE PRODUCERS

Promoting sustainable aquaculture activities in Greece

1. Implementation Spatial Planning for aquaculture (AZAs)

2. Use of non-indigenous species already present in aquaculture

Yannis Pelekanakis

Head of EU Affairs

Hellenic Aquaculture Producers Association

Workshop for Promoting Sustainable Aquaculture Practices in the Mediterranean and Black Sea Regions: the Producers' perspective

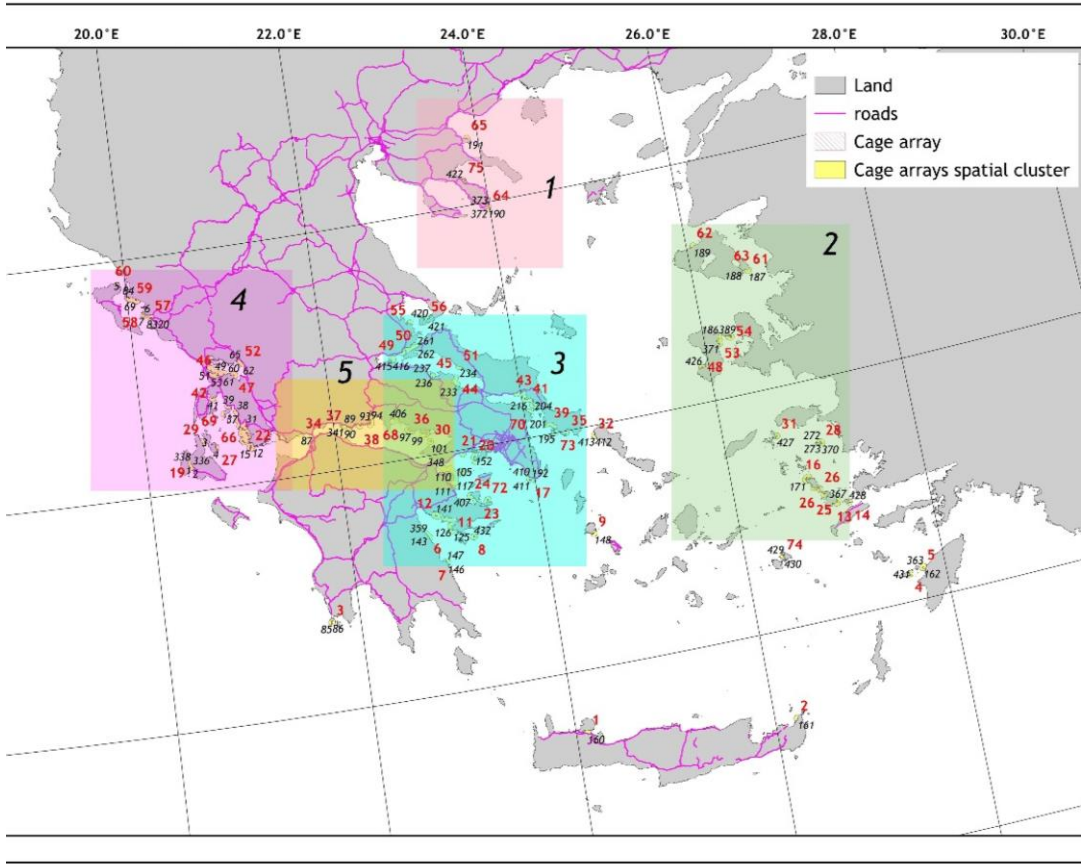
Rome, 18 January 2024

Implementation of a Special Spatial Planning framework for aquaculture (ADAs)

2011: *"Approval of a Special Spatial Planning Framework and Sustainable Development for aquaculture and its Strategic Environmental Impact Assessment"*

- ➢ Introduced integrated spatial planning for aquaculture and:

- ✓ Avoid conflict with other users
- ✓ Avoid irreversible impacts on the environment
- ✓ Enhance competitiveness



Implementation of a Special Spatial Planning framework for aquaculture (ADAs)

The framework:

- Specifies broad **Areas** suitable for **Development of Aquaculture** (ADA)
- Minimum area of 100 hectares or min. 5 farms
- Operates under a management body
- Includes one or more AZAs.

➢ Existing individual farms can remain under prerequisites

➢ Aquaculture development based on a zoning principle

Category A

Highly developed aquaculture areas

Category B

Areas with significant potential for further development

Category C

Inaccessible areas with high potential of development

Category D

Areas with great sensitivity (MPAs)

Category E

Areas suitable for aquaculture but with peculiarities, (inaccessible, small islands, urban touristic)

Timetable:

2017: deadline to submit ADAs applications (23 files submitted)

2019: deadline to approve all applications (postponed)

Establishment of ADAs: main challenges

Process

Application
- Assessment of file
- Applications with various approaches
- Coordination of competent authorities

Consultation
- Local / regional authorities / stakeholders

Approval
- Spatial planning of aquaculture of the ADA

Completion
- Legally binding establishment of the ADA / AZAs

☹ Lack of experience (admin.)
☹ *Different approach / standards (investors)*
☹ *Social Acceptability (local communities)*
☹ Lack of political will (earlier years)

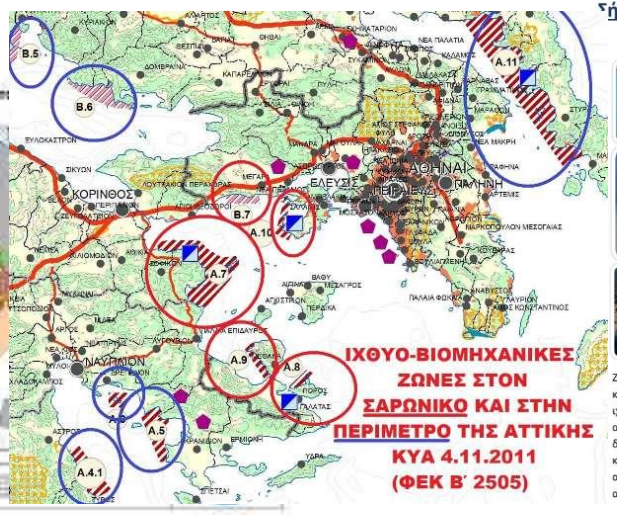
➢ *Significant administrative delays*
➢ *Cost to revise applications*
➢ *Investment risk*

Establishment of ADAs: main challenges

Social Acceptability (local/regional stakeholders)

Initiatives against Aquaculture

- Mass meetings at local level
- Negative media coverage
- Environmental impact
- Impact on tourism
- Conflict with fishermen
- Poor regulatory complinace
- Limited public access to coastal areas



Establishment of ADAs: HAPO activities

HAPO:

- **ADAs - strategic priority**
- **twofold strategy to promote spatial planning**

➢ **2017 Established the "ADA coordination committee"**

1. Encoded the establishment process
2. Identified admin. problems per stage
3. Provided technical assistance
4. Producers / consultants / administration agreed on the same technical standards / methodology (harmonization of applications)
5. project management to monitor the progress of each application

ΠΟΡΕΙΑ ΜΕΛΕΤΩΝ ΠΟΑΥ

1.	ΣΤΑΔΙΟ ΟΛΟΚΛΗΡΩΣΗΣ		
1.Α.	ΠΕΡΙΟΧΕΣ ΣΤΙΣ ΟΠΟΙΕΣ ΕΚΔΟΘΗΚΕ ΚΑΝΟΝΙΣΜΟΣ & ΑΠΟΦΑΣΗ		
	ΠΕΡΙΟΧΕΣ	ΦΟΡΕΑΣ ΔΙΑΧΕΙΡΙΣΗΣ	
	ΧΑΛΚΙΔΙΚΗ	ΠΟΑΥ ΧΑΛΚΙΔΙΚΗΣ ΙΚΕ	ΝΑΥΣ
	ΚΕΦΑΛΛΟΝΙΑ	ΚΕΦΑΛΟΣ ΑΕ	ΝΑΥΣ
	ΟΞΕΙΑ	ΔΕΛΤΑ ΑΧΕΛΩΟΥ ΙΚΕ	ΝΑΥΣ
	ΜΕΓΑΡΑ	ΕΤΑΙΡΙΑ ΑΝΑΠΤΥΞΗΣ ΥΔΑΤΟΚΑΛΛΙΕΡΓΕΙΩΝ ΣΚΙΡΩΝΙΔΑ ΙΚΕ	ΑΡΣ
Α	ΘΕΣΠΡΩΤΙΑ	ΘΕΣΠΟΑΥ ΑΕ	ΑΡΣ
Α	ΕΧΙΝΑΔΕΣ	ΑΝΑΠΤΥΞΙΑΚΗ ΕΧΙΝΑΔΩΝ ΚΑΙ ΑΙΤΩΛΟΑΚΑΡΝΑΝΙΑΣ Α.Ε.	ΑΜΒΙΟ
1.Β.	ΠΕΡΙΟΧΕΣ ΣΤΙΣ ΟΠΟΙΕΣ ΕΚΔΟΘΗΚΑΝ Π.Δ.		
	ΠΕΡΙΟΧΕΣ	ΦΟΡΕΑΣ ΔΙΑΧΕΙΡΙΣΗΣ	
1.Γ.	ΜΕΛΕΤΕΣ ΠΟΥ ΕΙΝΑΙ ΣΤΟ ΤΕΛΙΚΟ ΣΤΑΔΙΟ ΓΙΑ ΤΗΝ ΕΓΚΡΙΣΗ ΤΟΥ Π.Δ. (ΜΕΛΕΤΕΣ ΠΟΥ ΕΧΟΥΝ ΣΤΑΛΕΙ ΣΤΟ ΣΥΜΒΟΥΛΙΟ της ΕΠΙΚΡΑΤΕΙΑΣ (ΣτΕ) & ΕΙΝΑΙ ΠΡΟΣ ΕΠΕΞΕΡΓΑΣΙΑΣ)		
ΠΑΥ	ΠΕΡΙΟΧΕΣ	ΦΟΡΕΑΣ ΔΙΑΧΕΙΡΙΣΗΣ	
Α	ΕΥΒΟΙΑ	ΕΥΒΕΤΑΝΥ ΑΕ	ΝΑΥΣ
1.Δ.	ΜΕΛΕΤΕΣ ΠΟΥ ΠΡΟΚΕΙΤΑΙ ΝΑ ΕΙΝΑΙ ΣΤΟ ΣτΕ ΓΙΑ ΕΛΕΓΧΟ		
	ΠΕΡΙΟΧΕΣ	ΦΟΡΕΑΣ ΔΙΑΧΕΙΡΙΣΗΣ	
Α	ΣΑΛΑΜΙΝΑ (ΔΙΑΠΟΡΙΑ)	Π.Ο.Α.Υ. ΔΙΑΠΟΡΙΩΝ ΝΗΣΩΝ ΣΑΡΩΝΙΚΟΥ ΚΟΛΠΟΥ, ΣΑΛΑΜΙΝΟΣ ΚΑΙ ΕΥΡΥΤΕΡΗΣ ΠΕΡΙΟΧΗΣ ΙΚΕ	ΝΑΥΣ
Β	ΒΟΙΩΤΙΑ	ΠΟΑΥ ΒΟΙΩΤΙΑΣ ΜΟΝ. ΙΚΕ	ΑΜΒΙΟ
2.	ΣΤΑΔΙΟ ΚΕΣΥΠΟΘΑ - ΚΕΣΥΧΩΘΑ		

Establishment of ADAs: HAPO activities

The coordination Committee engaged in activities to improve social acceptability and promote the ADAs and their benefits.

Participatory activities:

- ✓ open days for aquaculture
- ✓ Workshops at local / national level
- ✓ Provided educational material
- ✓ Highlighted the socioeconomic benefits
- ➢ Foster transparency
- ➢ Built collaborative relationships

Hellenic Aquaculture Producers Organization
4.997 followers
7mo •

Σήμερα η ΕΛΟΠΥ συμμετέχει στην Ημερίδα : "Η Υδατοκαλλιέργεια ως μοχλός ανάπτυξης και εξωστρέφειας & η συμβολή της στην οικονομία της Θεσπρωτίας", που οργανώνει το Επιμελητήριο Θεσπρωτίας. Παρόντες στην Ημερίδα, ο κ. Απόστολος Τουραλιάς, Πρόεδρος της ΕΛΟΠΥ, και η κ. Κατερίνα Λύτρα, Κτηνίατρος- Ιχθυολόγος και επιστημονική σύμβουλος της ΕΛΟΠΥ.

#aquaculture

See translation

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Παρουσίαση της εθνικής στρατηγικής ανάπτυξης των υδατοκαλλιεργειών από τον Υφυπουργό Αγροτικής Ανάπτυξης & Τροφίμων Simos Kedikoglou στον Νίκο Χατζηνικολάου στο 3ο Συμπόσιο Ιχθυοκαλλιέργειας 2022.

#aquaculture #sustainabledevelopment

See translation

Establishment of ADAs: result of participatory process

To date: 6 ADAs

- 25 AZAs (fish)
- 8 AZA (fallowing)
- 1 AZA mussels

300% more available space for aquaculture (up to 1.800 hectares)
200% increase in production capacity (up to 20.000 tonnes more)

➢ Production capacity increase dased on environmental assessment

Still, a long way to go!!!

Streamlining aquaculture licensing within the ADA

Consultation with HAPO

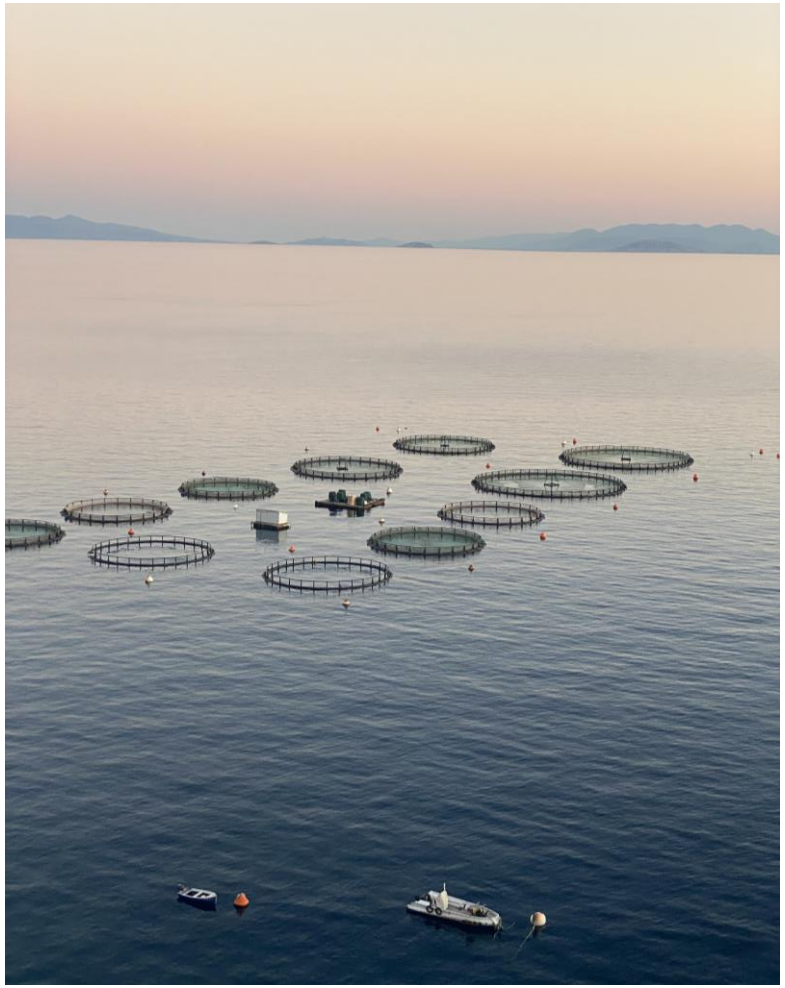
Law 4282/2014: Aquaculture development and other provisions
(simplification of administrative procedures)

In general:

- Decentralized Authorities were designated as one-stop-shop services
- Time spend from 24-25 months to 12-14 months
- Average cost remained the same (same environmental provisions)

Licencing within the ADA:

- Criteria (scoring system) to obtain new licenses (inactive/withdrawn etc.)
- Promote a level playing field between the producers
- Safeguard the sustainable development of aquaculutre



Use of non-indigenous species that are already present in aquaculture

Food and Agriculture Organization of the United Nations | General Fisheries Commission for the Mediterranean

GUIDELINES ON

assessing and minimizing the possible impacts from the use of non-indigenous species in aquaculture

Amending Annex IV to Council Regulation (EC) No 708/2007 concerning use of alien and locally absent species in aquaculture: Pagrus Major

Use of non-indigenous species that are already present in aquaculture

Legal requirements: Application for permit and ERA

Application for a permit
(Annex I, EC No 708/2007)

1. Introduction
2. Life history information of the species to be introduced - for each life stage
3. Interaction with other species
4. Receiving environment and contiguous waters
5. Monitoring
6. Management plan
7. Business data
8. References

28.6.2007 EN Official Journal of the European Union L 168/1

I

(Acts adopted under the EC Treaty/Euratom Treaty whose publication is obligatory)

REGULATIONS

COUNCIL REGULATION (EC) No 708/2007

of 11 June 2007

concerning use of alien and locally absent species in aquaculture

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 37 and Article 299(2) thereof,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Parliament,

Having regard to the opinion of the European Economic and Social Committee (1)

Whereas:

(1) In accordance with Article 6 of the Treaty, environmental protection requirements must be integrated into the definition and implementation of the Community policies and activities, in particular with a view to promoting sustainable development.

(2) Aquaculture is a fast-growing sector where innovation and new outlets are being explored. In order to adapt the production to the conditions of the market, it is important

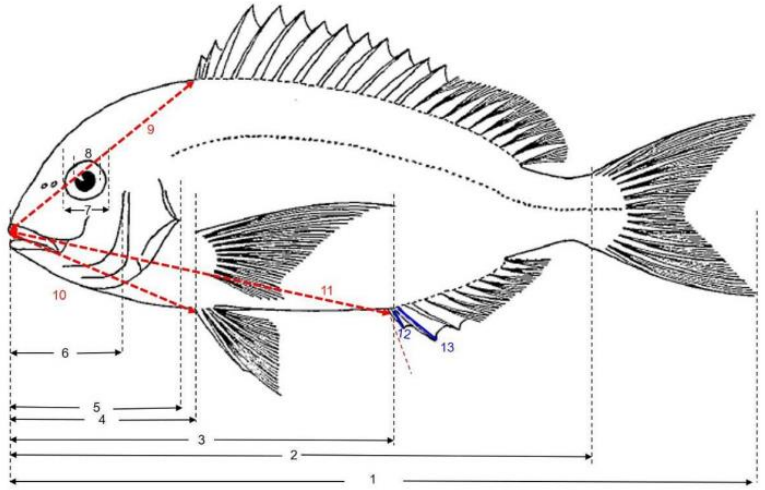
(4) Invasive alien species have been identified as one of the key causes of loss of native species and harm to bio-diversity. Under Article 8(h) of the Convention on Biological Diversity (CBD), to which the Community is a Party, each Contracting Party is required, as far as possible and as appropriate, to prevent the introduction of, control or eradicate those alien species which threaten ecosystems, habitats or species. In particular, the Conference of the Parties to the CBD has adopted Decision VI/23 on alien species that threaten ecosystems, habitats or species, the annex to which sets out Guiding Principles for the prevention, introduction and mitigation of impacts of such alien species.

(5) The translocation of species within their natural range to areas where they are locally absent for specific bio-geographical reasons may also present risks for ecosystems in these areas and should also be covered by this Regulation.

Use of non-indigenous species that are already present in aquaculture

Application / ERA: HAPO worked with the University of Patras and HCMR

- **Pagrus spp. as an object of fish farming in the Mediterranean**
  Present since 1985 & farmed in PT, SP, IT, CR, GR, CY, TR, IS
- **Introduction & development in aquaculture of the genus Pagrus spp, in GR**
  Farming distribution & pathogen
- **Gather evidence from natural populations through fishery statistics**
- **Collection and identification of samples from wild & farmed individuals**
  Morphological measurements / comparison
  Genetic analyses (DNA barcoding of 146 "wild" and 80 farmed individuals)
- **Environmental risk assessment (ERA) from production of Pagrus major (Annex II EC 708/2007)**



Know how (as for the other farmed species):

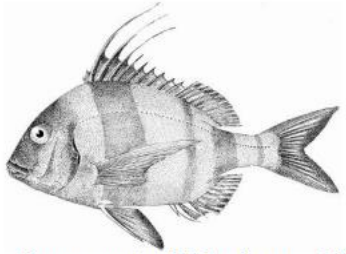
- ✓ Adequate infrastructure at farm level
- ✓ Health & welfare best practices
- ✓ Biosecurity measures at farm and national level
- ✓ There are laboratories with diagnostic capacities of fish diseases
- ✓ Trained stuff

Production of non-indigenous species that are already present in aquaculture

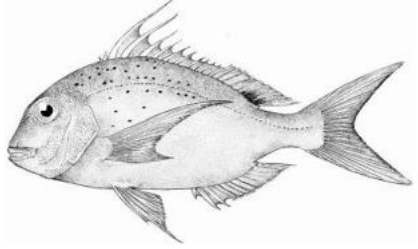
Pagrus species: Already present anywhere from everywhere

- Recorded in the Mediterranean
- Found in the Greek market from overseas fisheries from Morocco, Oman and Tunisia (listed also on importer's websites)
- From wild fisheries in Greece

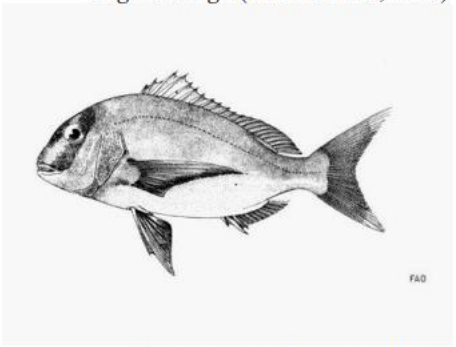
Illustration of species of the genus Pagrus recorded in the Mediterranean



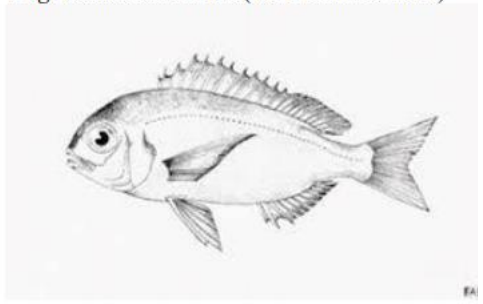
Pagrus auriga (Valenciennes, 1843)



Pagrus caeruleostictus (Valenciennes 1830)

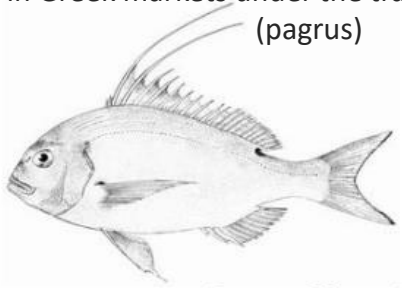


Pagrus pagrus (Linnaeus, 1758)

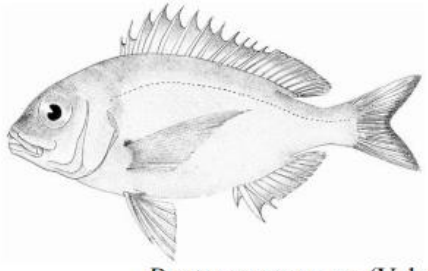


Pagrus major (Temminck & Schlegel, 1843)

Illustration of species of the genus Dentex found in Greek markets under the trade name "fagri" (pagrus)



Dentex gibbosus (Rafinesque 1810)



Dentex maroccanus (Valenciennes 1830)

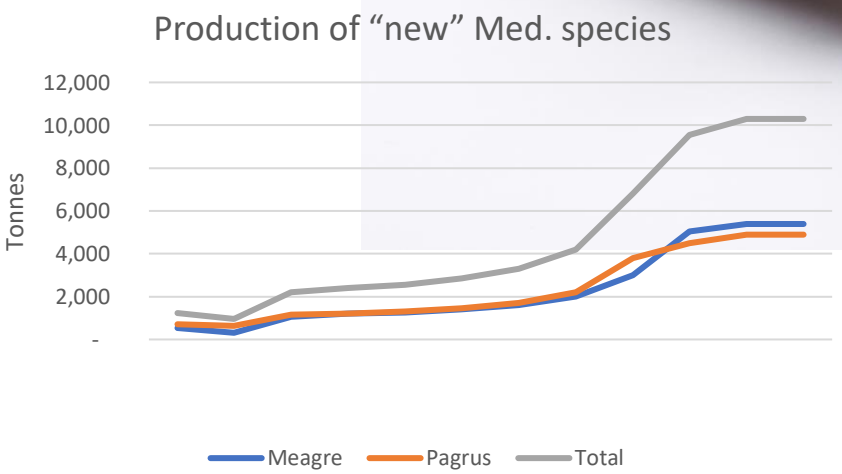
Samples of Pagrus species from wild fisheries with reference in the regions of origin, number of individuals and size range

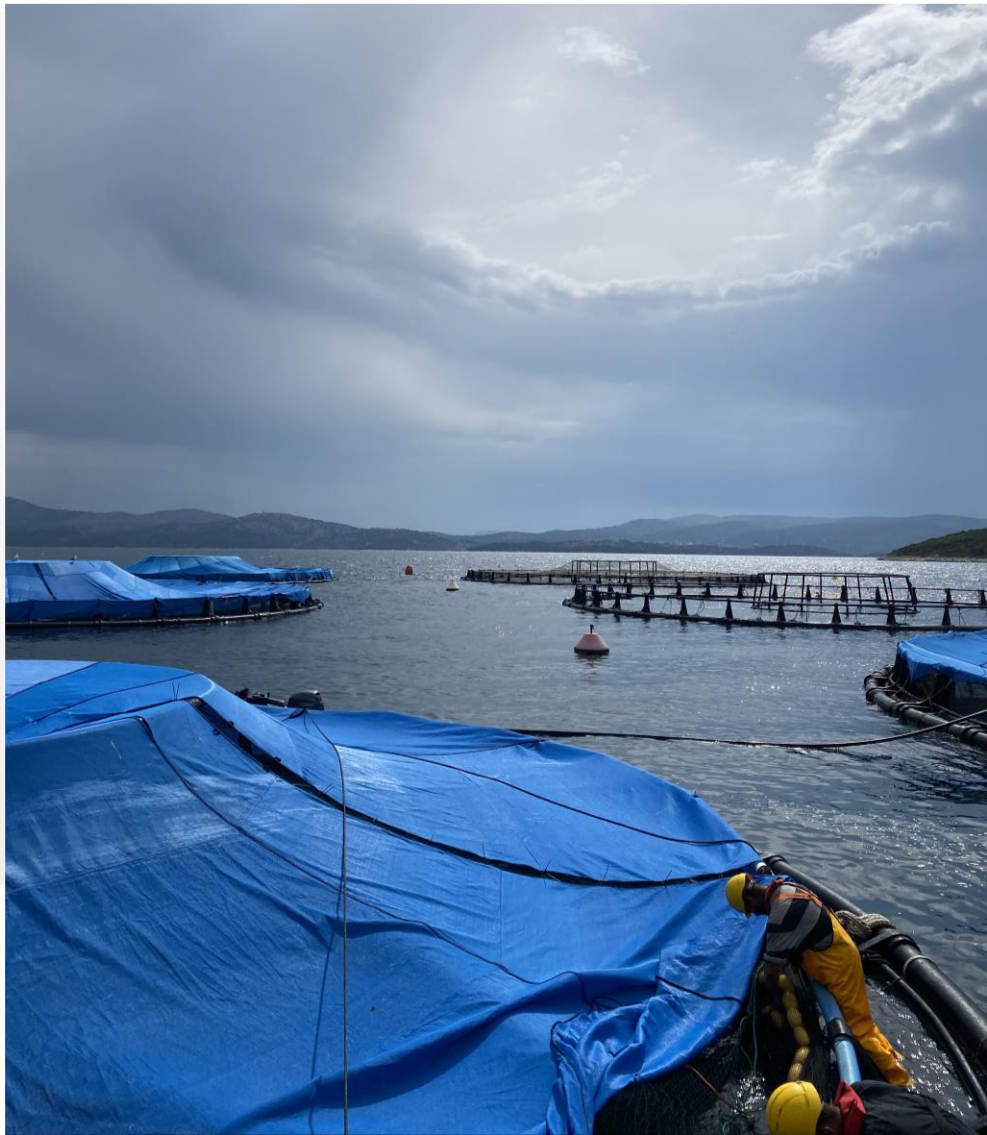
Είδος	Προέλευση	Περιοχή	Αριθμός ατόμων	Εύρος βάρους (g)
Pagrus pagrus	Φυσικός πληθυσμός	Σύρος	6	25,10 - 53,68
Pagrus pagrus	Φυσικός πληθυσμός	Ιόνιο	103	17,68-1099,79
Dentex gibbosus	Φυσικός πληθυσμός	Ιόνιο	2	674,34-7780,00
Pagrus major	Φυσικός πληθυσμός	Εχινάδες, Πρέβεζα	5	107,81-681,21
Pagrus major	Εκτροφής	Αιτωλ/νία	12	234,32-1617,28
Pagrus major	Εκτροφής	Θεσπρωτία	13	167,37-936,48

Production of non-indigenous species that are already present in aquaculture

- Pagrus Major was added in the Annex I of the EC 708/2007 in 2021
- Consumer demand for product diversification
- Reduced dependence on single species
- Sustainable development of aquaculture
- Socio economic contribution to local communities

Pagrus Major





HAPO
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FISH FROM GREECE

AVRAMAR
Better Fish Better Lives

AndromedaGroup
YOUR NEARBY SEA FISHERMAN

Bastia

Blue Farms SA

Argosaronikos Fishfarms S.A.

DELAVIAS APOSTOLOS

GALAXIDI 1987
MARINE FARM

K.GEORGIOU

GRAMMOS S.A.

KEFALONIA fisheries

V. LEONTITSIS TSIPOYRA AMVRAKIKOU

V. LIONIS

LORIDA

MARKELLOS marine farm

NEW FISH AMBPAKIKOY

POSIDONIA AQUACULTURE

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PLAGTON S.A.

skaloma s.a. fishforming

TASTY FISH

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