



AQUACULTURE SURVEY: 2021

The Hellenic Statistical Authority (ELSTAT) announces the results of the Survey on Aquaculture for the reference year 2021.

A. QUANTITY AND VALUE OF REARED OR CULTIVATED SPECIES

In 2021 compared with 2020, total production and corresponding value of aquaculture reared – cultivated species in Greece, increased by 8.1% and 15.1% respectively. More specifically, 143,864.8 tonnes with a total value of 641,962.2 thousand euros were farmed in 2021, while 133,101.3 tonnes with a total value of 557,619.2 thousand euro were farmed in 2020 (Table 1).

Table 1. Quantity and value of reared or cultivated species, 2020 – 2021.

Quantity in tonnes, value in thousand euros

Reared - cultivated species	2020 ⁽¹⁾		2021		Change (%) 2021/2020	
	Quantity	Value	Quantity	Value	Quantity	Value
Grand total	133,101.3	557,619.2	143,864.8	641,962.2	8.1	15.1
Fish	112,979.9	550,756.4	130,177.4	636,564.3	15.2	15.6
Common sole	2.7	9.9	2.4	10.2	-10.9	3.1
Flathead grey mullet	327.9	627.6	390.6	759.9	19.1	21.1
Meagre	3,426.6	17,597.3	4,200.6	22,136.7	22.6	25.8
European seabass	41,173.1	209,251.6	51,231.7	275,286.3	24.4	31.6
Other fish	2,651.0	9,867.1	2,392.0	9,605.7	-9.8	-2.6
Greater amberjack	50.8	405.1	172.0	1,697.1	238.5	318.9
Sharpsnout seabream	39.0	228.7	22.8	139.4	-41.4	-39.1
White seabream	5.0	19.8	1.8	6.0	-63.8	-69.5
Gilthead seabream	62,271.1	289,809.5	67,058.7	294,634.2	7.7	1.7
Red porgy	3,032.7	22,939.8	4,704.6	32,288.9	55.1	40.8
Molluscs / Crustaceans	20,120.2	6,818.0	13,684.3	5,270.8	-32.0	-22.7
Mussels	19,964.5	6,461.3	13,508.3	4,991.5	-32.3	-22.7
Other molluscs / crustaceans	155.7	356.6	176.0	279.3	13.0	-21.7
Fish eggs	1.2	44.8	3.2	127.0	168.3	183.5
Flathead grey mullet	1.2	44.8	3.2	127.0	168.3	183.5

(1) Revised data

Note: 1. Any discrepancies in the sums and percentages are due to rounding.

2. *Spirulina* species of the "Aquatic plants - algae" taxonomic group, is not published on account of confidentiality. For comparability reasons, the relevant quantity and corresponding value have been subtracted from the total quantity and value of both 2020 and 2021.

The changes in the quantity and value of the reared or cultivated species, **by main taxonomic group** in Greece, as presented in Table 1, are as follows:

Fish: in 2021 compared with 2020, the quantity and the corresponding value increased by 15.2% and 15.6% respectively. More specifically, 130,177.4 tonnes of fish with a total value of 636,564.3 thousand euro were farmed in 2021, while 112,979.9 tonnes of fish with a total value of 550,756.4 thousand euro were farmed in 2020.

Molluscs and Crustaceans: in 2021 compared with 2020, the quantity and the corresponding value decreased by 32.0% and 22.7% respectively. More specifically, 13,684.3 tonnes of molluscs – crustaceans with a total value of 5,270.8 thousand euro were farmed in 2021 and 20,120.2 tonnes with a total value of 6,818.0 thousand euro in 2020.

Information on methodological issues:

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Fish eggs: in 2021 compared with 2020, the quantity and the corresponding value increased by 168.3% and 183.5% respectively. More specifically, 3.2 tonnes of fish eggs with a total value of 127.0 thousand euro were farmed in 2021 and 1.2 tonnes with a total value of 44.8 thousand euro in 2020.

The changes in the quantity and value of the farmed or cultivated aquaculture species, **by type of water**, as presented in Table 2, are as follows:

Fresh water: in 2021 compared with 2020, the quantity and the corresponding value decreased by 4.5% and increased by 3.3% respectively. More specifically, 2,205.5 tonnes with a total value of 9,051.6 thousand euro were farmed in 2021 and 2,308.4 tonnes with a total value of 8,763.5 thousand euro in 2020.

Brackish water: in 2021 compared with 2020, quantity and corresponding value decreased by 4.5% and 10.2% respectively. More specifically, 861.5 tonnes with a total value of 2,346.4 thousand euro were farmed in 2021 and 901.8 tonnes with a total value 2,613.1 thousand euro in 2020.

Sea water: in 2021 compared with 2020, quantity and corresponding value increased by 8.4% and 15.4% respectively. More specifically, 140,797.9 tonnes with a total value of 630,564.2 thousand euro were farmed in 2021 and 129,891.1 tonnes with a total value of 546,242.6 thousand euro in 2020.

Table 2. Quantity and value of aquaculture production, by type of water, 2020 – 2021

Quantity in tonnes, value in thousand euros

Water Type	2020 ⁽¹⁾		2021		Change (%) 2021/2020	
	Quantity	Value	Quantity	Value	Quantity	Value
Fresh	2,308.4	8,763.5	2,205.5	9,051.6	-4,5	3,3
Brackish	901.8	2,613.1	861.5	2,346.4	-4.5	-10.2
Sea	129,891.1	546,242.6	140,797.9	630,564.2	8.4	15.4

(1) Revised data.

Note: 1. Any discrepancies in the sums and percentages are due to rounding.

2. *Spirulina* species of the "Aquatic plants - algae" taxonomic group, is not published on account of confidentiality. For comparability reasons, the relevant quantity and corresponding value has been subtracted from the total quantity and value of both 2020 and 2021.

B. PRODUCTION OF FISH LARVA IN HATCHERIES AND NURSERIES

The changes in the produced quantity of fish larva, by species in Greece, as presented in Table 3, are as follows:

Overall production of fish larva: total quantity of fish larva decreased by 8.3% in 2021 compared with 2020. More specifically, fish larva amounted to 358,186 thousand juveniles in 2021 and 390,552 thousand juveniles in 2020.

More specifically, the production of fish larva by main species:

European seabass: the quantity of larva decreased by 21.3% in 2021 compared with 2020. More specifically, european seabass larva amounted to 133,007 thousand juveniles in 2021 and 168,994 thousand juveniles in 2020.

Gilthead seabream: the quantity of larva decreased by 2.4% in 2021 compared with 2020. More specifically, gilthead sea bream larva amounted to 197,044 thousand juveniles in 2021 and 201,793 thousand juveniles in 2020.

Red porgy: the quantity of larva increased by 81.0% in 2021 compared with 2020. More specifically, red porgy larva amounted to 17,946 thousand juveniles in 2021 and 9,915 thousand juveniles in 2020.

Rainbow trout: the quantity of larva decreased by 8.5% in 2021 compared with 2020. More specifically, rainbow trout larva amounted to 6,209 thousand juveniles in 2021 and 6,789 thousand juveniles in 2020.

Other fish: the quantity of larva increased by 30.0% in 2021 compared with 2020. More specifically, other fish larva amounted to 3,980 thousand juveniles in 2021 and 3,061 thousand juveniles in 2020.

Table 3. Production of fish larva in hatcheries and nurseries, by species, 2020 – 2021

In thousand juveniles

	2020 ⁽¹⁾	2021	Change (%) 2021/2020
Total	390,552	358,186	-8.3
European seabass	168,994	133,007	-21.3
Gilthead seabream	201,793	197,044	-2.4
Red porgy	9,915	17,946	81.0
Rainbow trout	6,789	6,209	-8.5
Other Fish	3,061	3,980	30.0

(1) Revised data.

C. EMPLOYED PERSONS BY TYPE OF EMPLOYMENT RELATIONSHIP

The changes in the total annual employment as presented in Table 4, are as follows:

The **total** number of employed persons decreased by 8.7% in 2021 compared with 2020. More specifically, the total number of employees amounted to 3,871 in 2021 and 4,239 in 2020.

More specifically, the changes in employment, by type of employment relationship, are as follows:

Permanent staff decreased by 10.2% in 2021 compared with 2020. More specifically, permanent employees amounted to 3,444 in 2021 and 3,834 in 2020.

Temporary staff increased by 5.4% in 2021 compared with 2020. More specifically, temporary employees amounted to 427 in 2021 and 405 in 2020.

Table 4. Number of employed persons in aquaculture units, 2020 – 2021.

	2020 ⁽¹⁾	2021	Change (%) 2021/2020
Total	4,239	3,871	-8.7
Permanent staff	3,834	3,444	-10.2
Temporary staff	405	427	5.4

(1) Revised data.

EXPLANATORY NOTES

Survey on aquaculture The Hellenic Statistical Authority has been conducting on an annual basis, since 1995, a statistical survey on Aquaculture.

Purpose The main purpose of the Survey on Aquaculture is to compile data on the cultivation methods, production and value of the cultivated species by cultivation method, production of fish larva in hatcheries/nurseries and on the number of employees.

Legal basis Regulation (EC) 762/2008 of the European Parliament and of the Council of 9 July 2008 on the submission by Member States of statistics on aquaculture and repealing Council Regulation (EC) No 788/96

Reference period The survey data refer to the year 2021.

Survey Methodology and Definitions

1. The survey is a census survey and it covers all aquaculture units operating in Greece.
2. The statistical unit of the survey on aquaculture is the enterprise activated in the rearing or cultivation of aquatic organisms (fish, mollusks, crustaceans and aquatic plants) under controlled breeding and rearing environment, aiming at achieving the largest production in the most efficient and economical manner.
3. Rearing/culture is every form of intervention in the growing procedure aiming at reinforcing production (e.g. renewal of stock, food, protection from natural enemies, etc.)
4. The farming / cultivation can be performed in freshwater, brackish water and seawater.

References More information, such as tables, samples of questionnaires, etc. on Survey on Aquaculture are available at <http://www.statistics.gr/en/statistics/-/publication/SPA06/>