



Statistics Korea

## Press Release

다시, 대한민국!  
새로운 국민의 나라

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# Preliminary Results of the Survey on the Status of Fish Culture in 2023

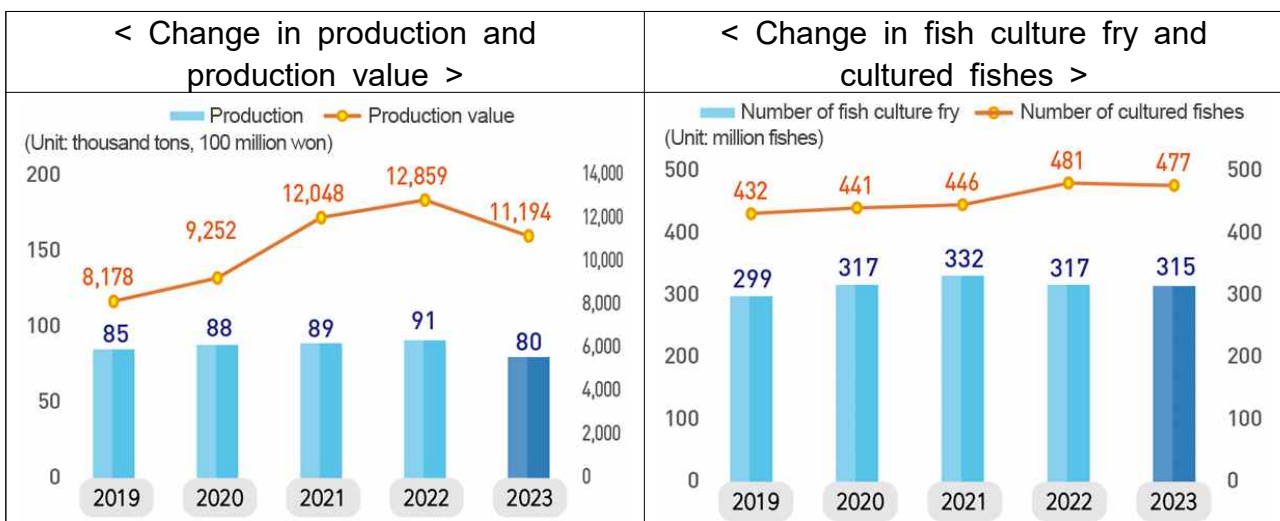
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## Preliminary Results of the Survey on the Status of Fish Culture in 2023

■ **In 2023, most of indicators showed a year-on-year decrease owing to damages from high fish mortality resulting from a high water temperature, the drop in shipment prices and the drop in demand.**

- The number of fish culture households, the fish culture production (production value), the number of fish culture fry, the fish culture area, the number of cultured fishes and the amount of feed showed a year-on-year decrease.
- Whereas, the number of fish culture workers showed a year-on-year increase owing to a rising demand for labor force.

- **(Number of fish culture households)** The number of fish culture households (including establishments) marked 1,446 households in 2023, which declined by 17 households (-1.2%) from 2022.
- **(Production)** The fish culture production stood at 80 thousand tons in 2023, which fell by 11 thousand tons (-12.5%) from 2022.
- **(Production value)** The production value of fish culture recorded 1.1194 trillion won in 2023, which dropped by 166.6 billion won (-13.0%) from 2022.
- **(Number of fish culture fry)** The number of fish culture fry 315 million in 2023, which fell by 2 million (-0.8%) from 2022.
- **(Number of cultured fishes)** The number of cultured fishes was 477 million in 2023, which fell by 4 million (-0.9%) from 2022.
- **(Amount of feed)** The total amount of feed recorded 547 thousand tons in 2023, which dropped by 3 thousand tons (-0.5%) from 2022.
- **(Number of workers)** The number of fish culture workers was 5,300 persons in 2023, which rose by 248 persons (4.9%) from 2022.



# 1. Fish culture households (including establishments)

The number of fish culture households (including establishments) was 1,446 households in 2023, which dropped by 17 households (-1.2%) from 1,463 households in 2022.

## ○ (Decrease in the fish culture households)

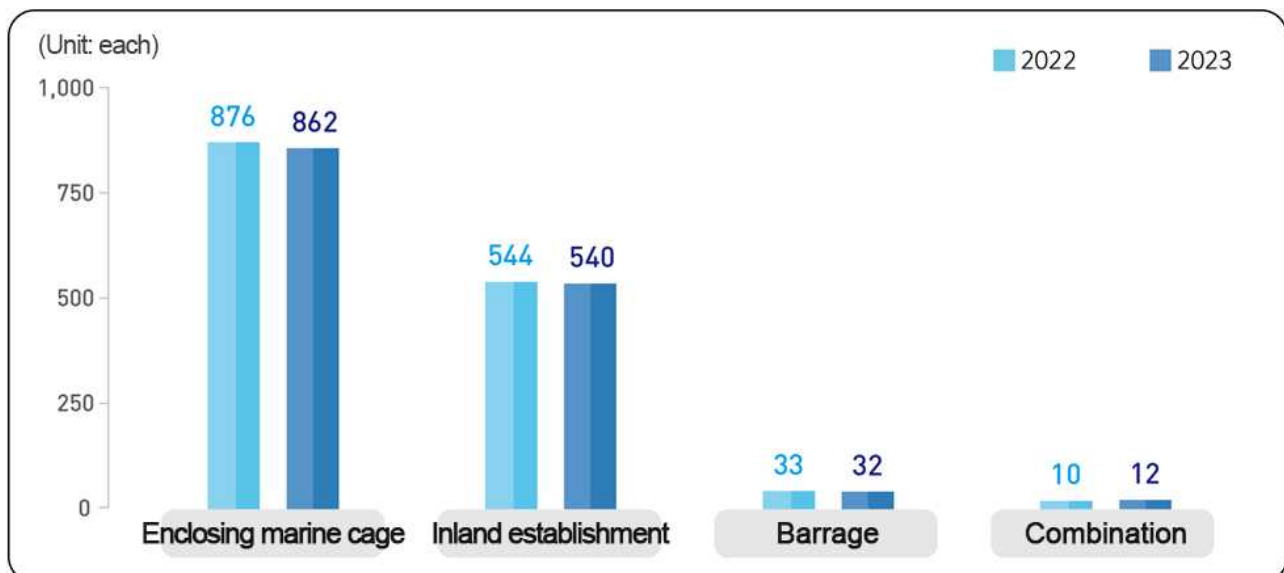
- The number of fish culture households (including establishments) declined by 17 households (-1.2%) from 1,463 households in 2022 to 1,446 households in 2023.
- The number of fish culture households (including establishments) of 'Enclosing marine cages' declined by 14 households (-1.6%) from 876 households in 2022 to 862 households in 2023.
- The number of fish culture households (including establishments) of 'Inland establishments' dropped by 4 households (-0.7%) from 544 households in 2022 to 540 households in 2023.
- The number of fish culture households (including establishments) of 'Barrages' fell by 1 household (-3.0%) from 33 households in 2022 to 32 households in 2023.

< Fish culture households by culture type >

(Unit: each, %)

Classification	2022		2023 <sup>p)</sup>		Year-on-year	
	(A)	Share	(B)	Share	Change (C=B-A)	Percent change (C/A)
Total	1,463	100.0	1,446	100.0	-17	-1.2
Enclosing marine cage	876	60.8	862	59.9	-14	-1.6
Inland establishment	544	35.6	540	37.2	-4	-0.7
Barrage	33	2.9	32	2.3	-1	-3.0
Combination <sup>1)</sup>	10	0.7	12	0.6	2	20.0

Note 1) Combination: Enclosing marine cage + Inland establishment / Enclosing marine cage + Barrage / Inland establishment + Barrage / Enclosing marine cage + Inland establishment + Barrage



## 2. Fish culture workers

The number of fish culture workers was 5,300 persons in 2023, which grew by 248 persons (4.9%) from 5,052 persons in 2022.

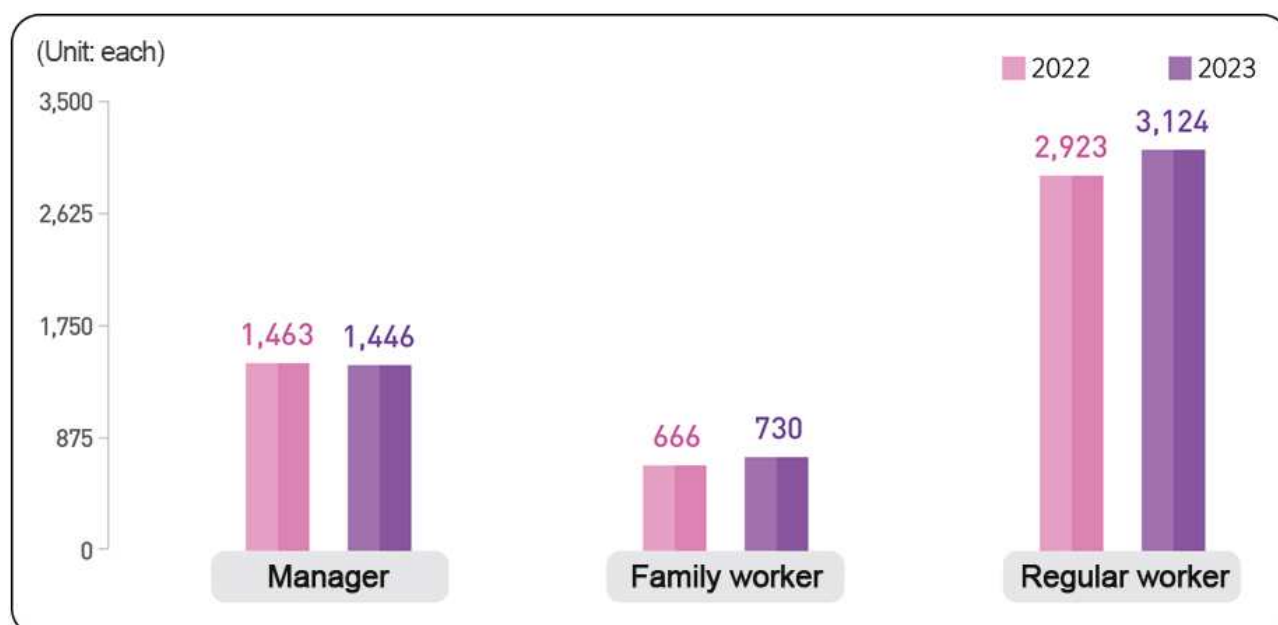
### ○ (Increase in the number of fish culture workers)

- The total number of fish culture workers grew by 248 persons (4.9%) from 5,052 persons in 2022 to 5,300 persons in 2023.
- The number of managers fell by 17 persons (-1.2%) from 1,463 persons in 2022 to 1,446 persons in 2023.
- The number of family workers grew by 64 persons (9.6%) from 666 persons in 2022 to 730 persons in 2023.
- The number of regular workers grew by 201 persons (6.9%) from 2,923 persons in 2022 to 3,124 persons in 2023.

< Number of workers by status >

(Unit: person, %)

Classification	2022		2023 <sup>P)</sup>		Year-on-year	
	(A)	Share	(B)	Share	Change (C=B-A)	Percent change (C/A)
Total	5,052	100.0	5,300	100.0	248	4.9
Manager	1,463	28.9	1,446	27.3	-17	-1.2
Family worker	666	13.2	730	13.8	64	9.6
Regular worker	2,923	57.9	3,124	58.9	201	6.9



## 3. Production

### (1) Production

The production of fish culture marked 80 thousand tons in 2023, which fell by 11 thousand tons (-12.5%) from 91 thousand tons in 2022.

○ **(Decrease in the fish culture production)**

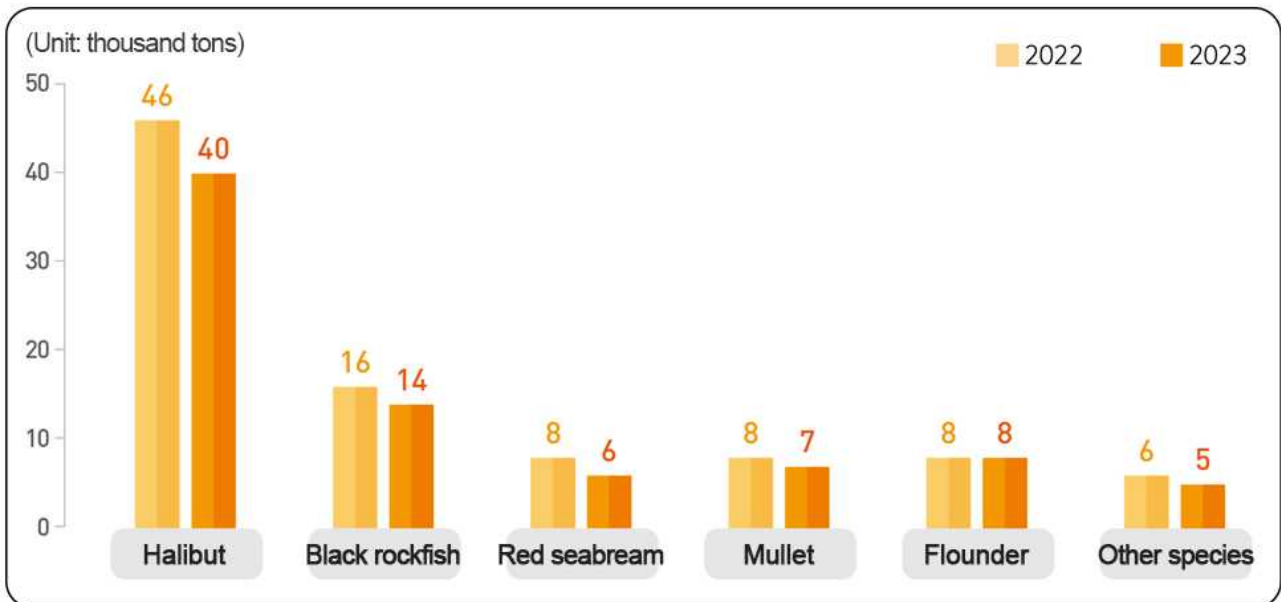
- The production of fish culture fell by 11.4 thousand tons (-12.5%) from 91.1 thousand tons in 2022 to 79.7 thousand tons in 2023.

< Production by species >

(Unit: thousand tons, %)

Classification	2022		2023 <sup>P)</sup>		Year-on-year	
	(A)	Share	(B)	Share	Change (C=B-A)	Percent change (C/A)
Total	91	100.0	80	100.0	-11	-12.5
Halibut	46	50.3	40	50.1	-6	-12.8
Black rockfish	16	17.8	14	18.1	-2	-10.9
Red seabream	8	8.9	6	8.0	-2	-22.3
Mullet	8	8.6	7	8.3	-1	-14.4
Flounder	8	8.4	8	9.7	0	0.1
Other species <sup>1)</sup>	6	6.0	5	5.8	-1	-15.8

Note 1) Other species: Chub mackerel, other sea bream, croaker, trout, salmon, gizzard shad, yellow croaker, tuna, yellow tail, blow fish, horse mackerel



**(2) Production value**

The production value of fish culture recorded 1.1194 trillion won in 2023, which fell by 166.6 billion won (-13.0%) from 1.2859 trillion won in 2022.

○ **(Decrease in production value)**

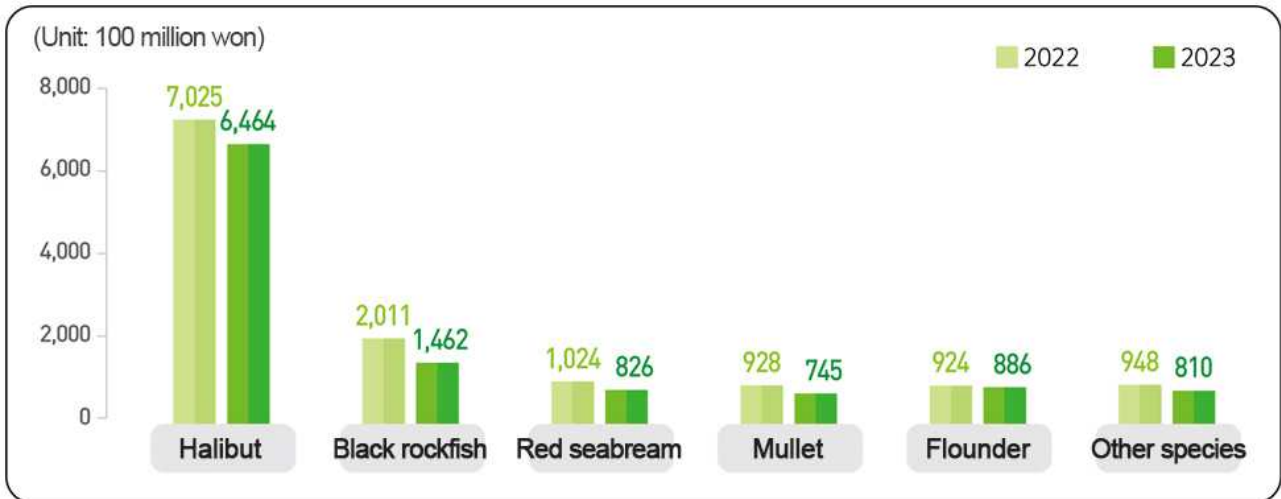
- The production value of fish culture dropped by 166.6 billion won (-13.0%) from 1.2859 trillion in 2022 to 1.1194 trillion won in 2023.

< Production value by species >

(Unit: 100 million won, %)

Classification	2022		2023 <sup>p)</sup>		Year-on-year	
	(A)	Share	(B)	Share	Change (C=B-A)	Percent change (C/A)
Total	12,859	100.0	11,194	100.0	-1,666	-13.0
Halibut	7,025	54.6	6,464	57.7	-561	-8.0
Black rockfish	2,011	15.6	1,462	13.1	-548	-27.3
Red seabream	1,024	8.0	826	7.4	-198	-19.3
Mullet	928	7.2	745	6.7	-183	-19.7
Flounder	924	7.2	886	7.9	-38	-4.1
Other species <sup>1)</sup>	948	7.4	810	7.2	-137	-14.5

Note 1) Other species: Chub mackerel, other sea bream, croaker, trout, salmon, gizzard shad, yellow croaker, tuna, yellow tail, blow fish, horse mackerel



#### 4. Fish culture area

The fish culture area amounted to 3.52 million m<sup>2</sup> in 2023, which fell by 30 thousand m<sup>2</sup> (-0.7%) from 3.54 million m<sup>2</sup> in 2022.

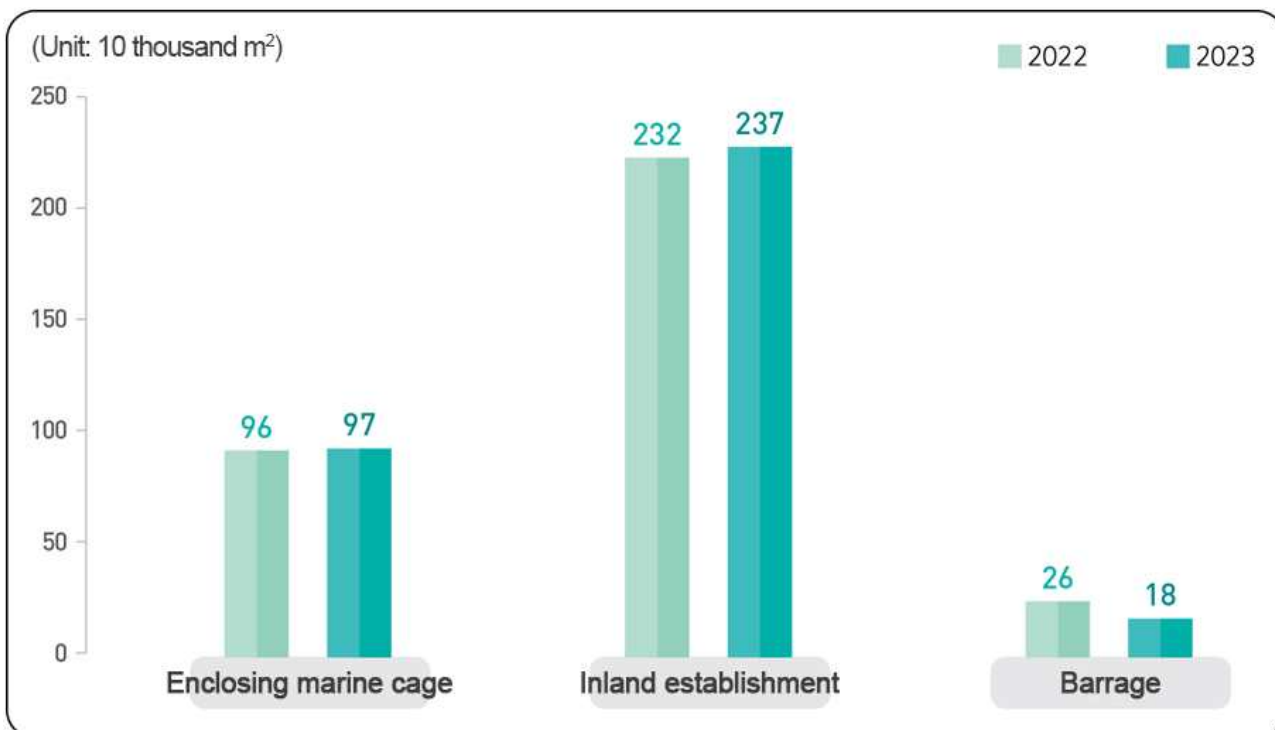
##### ○ (Decrease in fish culture area)

- The fish culture area amounted to 3.52 million m<sup>2</sup> in 2023, which fell by 30 thousand m<sup>2</sup> (-0.7%) from 3.54 million m<sup>2</sup> in 2022.
- The fish culture area of 'Enclosing marine cages' amounted to 970 thousand m<sup>2</sup> in 2023, which grew by 10 thousand m<sup>2</sup> (1.1%) from 960 thousand m<sup>2</sup> in 2022.
- The fish culture area of 'Inland establishments' amounted to 2.37 million m<sup>2</sup> in 2023, which rose by 40 thousand m<sup>2</sup> (1.9%) from 2.32 million m<sup>2</sup> in 2022.
- The fish culture area of 'Barrages' amounted to 180 thousand m<sup>2</sup> in 2023, which fell by 80 thousand m<sup>2</sup> (-31.0%) from 260 thousand m<sup>2</sup> in 2022.

< Fish culture area by culture type >

(Unit: 10 thousand m<sup>2</sup>, %)

Classification	2022		2023 <sup>p)</sup>		Year-on-year	
	(A)	Share	(B)	Share	Change (C=B-A)	Percent change (C/A)
Total	354	100.0	352	100.0	-3	-0.7
Enclosing marine cage	96	27.1	97	27.6	1	1.1
Inland establishment	232	65.6	237	67.3	4	1.9
Barrage	26	7.3	18	5.1	-8	-31.0



## 5. Number of fish culture fry

The number of fish culture fry stood at 315 million in 2023, which dropped by 2 million (-0.8%) from 317 million in 2022.

### ○ (Decrease in the number of fish culture fry)

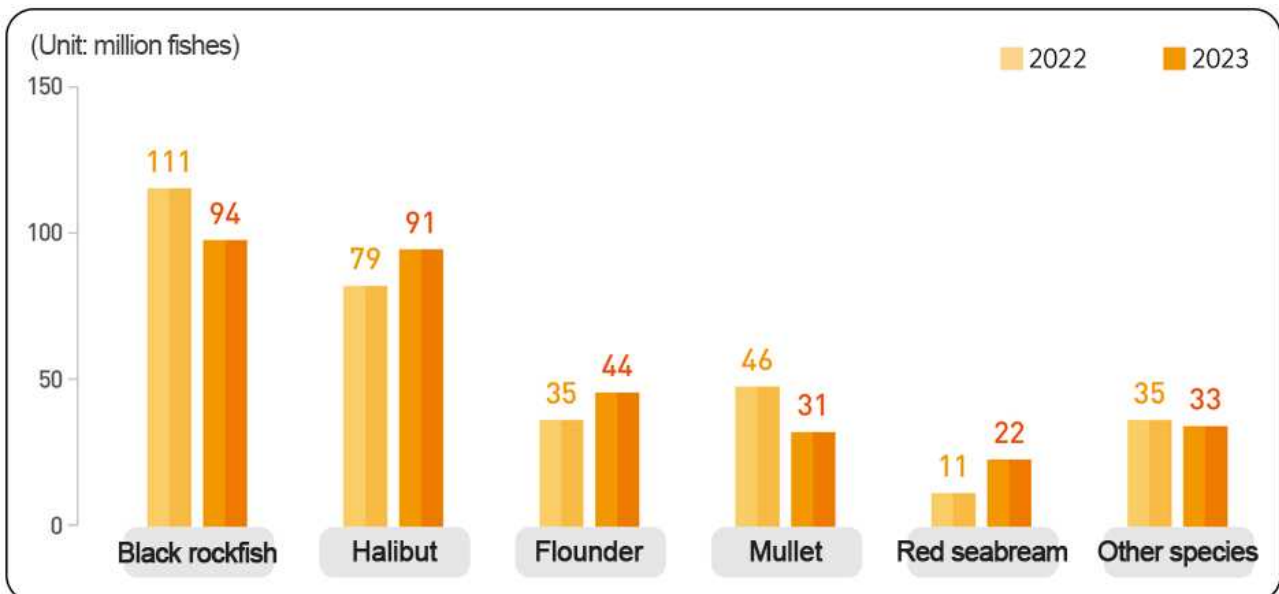
- The number of fish culture fry fell by 2 million (-0.8%) from 317 million in 2022 to 315 million in 2023.

< Number of fish culture fry by species >

(Unit: million fishes, %)

Classification	2022		2023 <sup>p)</sup>		Year-on-year	
	(A)	Share	(B)	Share	Change (C=B-A)	Percent change (C/A)
Total	317	100.0	315	100.0	-2	-0.8
Black rockfish	111	34.9	94	29.7	-17	-15.5
Halibut	79	25.0	91	28.9	12	14.8
Flounder	35	11.1	44	14.1	9	25.7
Mullet	46	14.4	31	9.8	-15	-32.5
Red seabream	11	3.6	22	7.1	11	96.2
Other species <sup>1)</sup>	35	11.0	33	10.4	-2	-6.3

Note 1) Other species: Chub mackerel, other sea bream, croaker, trout, salmon, gizzard shad, yellow croaker, tuna, yellow tail, blow fish, horse mackerel



## 6. Number of cultured fishes

The number of cultured fishes was 477 million in 2023, which declined by 4 million (-0.9%) from 481 million in 2022.

### ○ (Decrease in the number of cultured fishes)

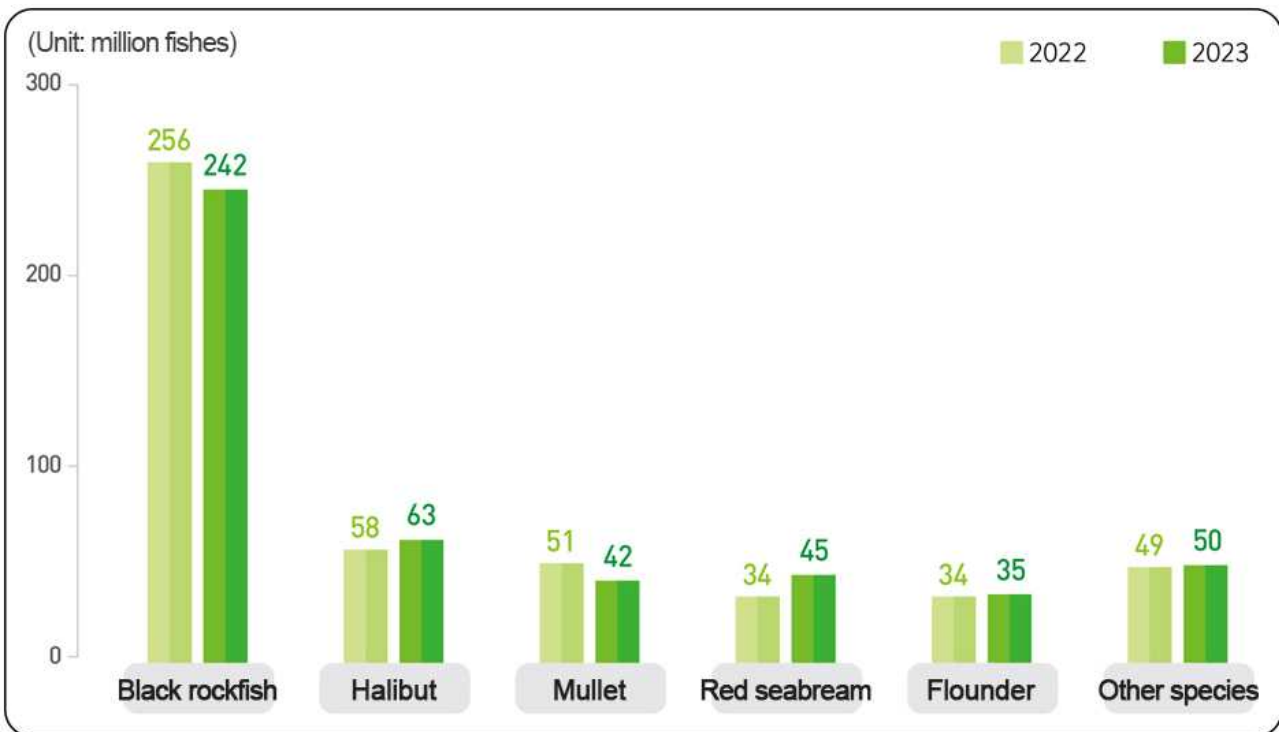
- The number of cultured fish dropped by 4 million (-0.9%) from 481 million in 2022 to 477 million in 2023.

< Number of cultured fishes by species >

(Unit: million fishes, %)

Classification	2022		2023 <sup>p)</sup>		Year-on-year	
	(A)	Share	(B)	Share	Change (C=B-A)	Percent change (C/A)
Total	481	100.0	477	100.0	-4	-0.9
Black rockfish	256	53.2	242	50.7	-14	-5.6
Halibut	58	12.0	63	13.2	5	8.5
Mullet	51	10.5	42	8.9	-8	-16.2
Red seabream	34	7.1	45	9.3	10	30.5
Flounder	34	7.1	35	7.4	2	5.3
Other species <sup>1)</sup>	49	10.1	50	10.5	1	2.6

Note 1) Other species: Chub mackerel, other sea bream, croaker, trout, salmon, gizzard shad, yellow croaker, tuna, yellow tail, blow fish, horse mackerel



## 7. Amount of feed

The total amount of feed recorded 547 thousand tons in 2023, which fell by 3 thousand tons (-0.5%) from 550 thousand tons in 2022.

### ○ (Decrease in the amount of feed)

- The total amount of feed fell by 3 thousand tons (-0.5%) from 550 thousand tons in 2022 to 547 thousand tons in 2023.
- The amount of raw fish pellet grew by 6 thousand tons (1.3%) from 456 thousand tons in 2022 to 462 thousand tons in 2023.
- The amount of formulated dry pellet dropped by 8 thousand tons (-9.0%) from 94 thousand tons in 2022 to 85 thousand tons in 2023.

< Amount of feed by species >

(Unit: thousand tons, %)

Classification		2022 (A)	2023 <sup>p)</sup> (B)	Year-on-year	
				Change (C=B-A)	Percent change (C/A)
Total		550	547	-3	-0.5
By type	Raw fish pellet	456	462	6	1.3
	(Share)	(83.0)	(84.4)		
	Formulated dry pellet	94	85	-8	-9.0
	(Share)	(17.0)	(15.6)		
By species	Halibut	263	266	3	1.0
	Black rockfish	132	127	-5	-3.6
	Red seabream	62	67	5	7.8
	Mullet	28	25	-3	-11.5
	Flounder	17	18	1	6.3
	Other species <sup>1)</sup>	48	45	-3	-6.4

Note 1) Other species: Chub mackerel, other sea bream, croaker, trout, salmon, gizzard shad, yellow croaker, tuna, yellow tail, blow fish, horse mackerel

