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NINETEENTH REGULAR SESSION**

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**ANNUAL REPORT TO THE COMMISSION
PART 1: INFORMATION ON FISHERIES, RESEARCH AND STATISTICS**

WCPFC-SC19-AR/CCM-38

VIETNAM

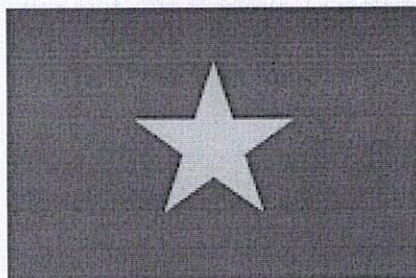
**ANNUAL REPORT TO THE WESTERN AND CENTRAL
PACIFIC FISHERIES COMMISSION (WCPFC)**

PART 1: INFORMATION ON FISHERIES, RESEARCH AND STATISTICS

TUNA FISHERIES IN 2022

VIET NAM'S ANNUAL FISHERY REPORT

**DIRECTORATE OF FISHERIES
MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT**



Scientific data was provided to the Commission in accordance with the decision relating to the provision of scientific data to the Commission by 30 April, 2023.	Yes
If no, please indicate the reason(s) and intended actions:	

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SUMMARIES

Since 2020, the statistics of fishing vessels and tuna catches were conducted in 12 provinces with 03 additional provinces: Quang Tri, Thua Thien Hue and Tien Giang.

In 2022, the total number of fishing vessels of the three main fisheries targeting tuna species is 6,474 fishing vessels and a decrease of 15.0% compared to 2021 (decreased 1,139 vessels), of which was 2,595 longliner/handliner, 1,392 gillnetters and 2,487 purse seiners. The number of fishing vessels has decreased because the handlines, gillnets and purse seine of some provinces such as Quang Tri, Da Nang, Quang Nam, Ninh Thuan, Binh Thuan and Tien Giang have been converted to other types of fishing.

Current fishing effort of Vietnamese tuna fleets is still below the maximum sustainable yield. It is noted that all tuna fisheries vessels are now operating in Vietnamese EEZ.

Total tuna catches in Vietnamese EEZ in 2022 was 151,861 Tons for three gear types which is still below the maximum sustainable yield of more than about 200,000 Tons. Of those, skipjack tuna contributed 75,343 Tons (49.6%); 19,941 Tons of yellowfin tuna (13.1%); 2,208 Tons of bigeye tuna (1.5%); 122 Tons of albacore tuna (0.1%); 4,007 Tons of billfish (2.6%) and 50,239 Tons of others (33.1%). Total tuna catches in 2022 increase by 19.5% compared to 2021.

In general, Viet Nam is attempting to improve its tuna fisheries management system such as establishing and implementing tuna data collection and to enhance effectiveness of fisheries conservation and management measures. The fisheries regulations have been revising towards harmonizing with the common regional and international regulations e.g. WCPFC, UN, FAO.

INTRODUCTION

The marine capture fisheries play an important role in the Vietnamese economy. They provide food security, employments, income, poverty elimination and national economic growth. In the overall development of the country, the fisheries sector in general and tuna fisheries in particular have thus become an important industry.

The potential of the tuna fisheries has been recognized in the general development of fisheries sector. The oceanic tuna fisheries (for catching Skipjack tuna, Yellowfin tuna, and Bigeye tuna) are recognized as the main sector in national key programs in the past three decades. Three fisheries are using for catching oceanic tuna: longline/handline (LL/HL), purse seine (PS) and gillnet (GN). These fisheries are used by local fishermen of 12 coastal provinces: Quang Tri, Thua Thien Hue, Da Nang, Quang Nam, Quang Ngai, Binh Dinh, Phu Yen, Khanh Hoa, Ninh Thuan, Binh Thuan, Ba Ria - Vung Tau and Tien Giang.

The tuna vessels are small scale and only operated in the Vietnamese waters. Their catches are preserved with the ice onboard, unloaded at the local home ports and sold to the local middlemen.

ANNUAL TUNA FISHERIES INFORMATION

A. FLEET STRUCTURE

Longline/handline fisheries (LL/HL) is the main fishing method used for catching yellowfin and bigeye tuna. They are highly developed in the central provinces (i.e. Phu Yen, Khanh Hoa and Binh Dinh). The number of tuna LL/HL vessels by 2022 was 2,595 vessels (*Table 1*) and a decrease of 15.5% compared to 2021 (decreased 476 vessels). In the period from 2018 to 2022, the number of tuna LL/HL vessels has an average growth rate of -2.4%/year. All of them are licensed to operate in the Vietnamese waters only.

In 2022, total number of GN vessels registered was 1,392 vessels (*Table 2*). It decreased by 14.0% compared to 2021 (decreased 226 vessels). In the period from 2018 to 2022, the number of tuna GN vessels has an average growth rate of -1.6%/year. However, it was noted that there may be mixing between coastal gillnetters targeting on small pelagic fishes and neritic tuna with offshore gillnetters targeting on skipjack in registration system. Therefore, some of the coastal gillnetters may be counted as the offshore gillnetters.

The number of tuna PS vessels by 2022 was 2,487 vessels (*Table 3*). It decreased by 14.9% compared to 2021 (decreased 437 vessels). In the period from 2018 to 2022, the number of tuna PS vessels has an average growth rate of 6.2%/year. The number of tuna PS vessels has a large volatile, because the number of tuna PS vessels in Quang Tri, Da Nang, Quang Nam, Khanh Hoa, Ninh Thuan has a large change.

In general, the number of tuna fishing vessels in 2022 decreased of 15.0% compared to 2021 (decreased 1,139 vessels). In the period from 2018 to 2022, the number of tuna fishing vessels has an average growth rate of 0.7%/year. The number of fishing vessels has decreased because the handlines, gillnets and purse seine of some provinces such as

Quang Tri, Da Nang, Quang Nam, Ninh Thuan, Binh Thuan and Tien Giang have been converted to other types of fishing.

Table 1: Number of tuna longline/handline in Viet Nam from 2018 to 2022

No	Provinces	2018	2019	2020	2021	Number of tuna fishing vessels by length 2022				
						6 - 12m	12 - 15m	15 - 24m	> 24m	Total
1	Quang Tri	0	0	29	32	1	12	13	1	27
2	Thua Thien Hue	0	0	0	0	0	0	0	0	0
3	Da Nang	0	0	0	0	0	0	0	0	0
4	Quang Nam	0	0	0	0	0	0	0	0	0
5	Quang Ngai	573	425	349	346	4	2	315	0	321
6	Binh Dinh	1.425	1.414	1.399	1.419	0	0	1.410	0	1.410
7	Phu Yen	502	499	533	539	0	82	446	0	528
8	Khanh Hoa	356	317	294	291	0	0	303	6	309
9	Ninh Thuan	0	259	259	386	0	0	0	0	0
10	Binh Thuan	0	0	0	0	0	0	0	0	0
11	Ba Ria-Vung Tau	0	0	6	6	0	0	0	0	0
12	Tien Giang	0	0	52	52	0	0	0	0	0
	Total	2.856	2.914	2.921	3.071	5	96	2.487	7	2.595

Figure 1: Number of tuna longline/handline in Viet Nam

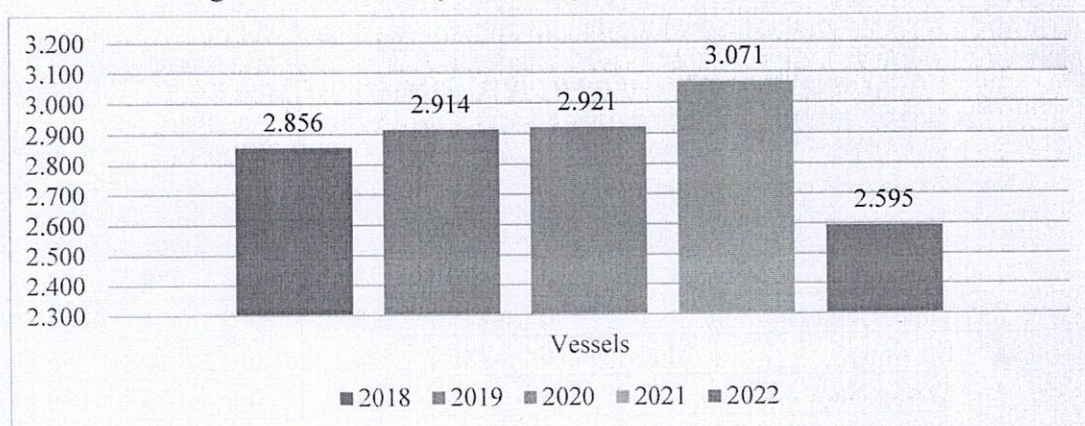


Table 2: Number of tuna gillnetters in Viet Nam from 2018 to 2022

No	Provinces	2018	2019	2020	2021	Number of tuna fishing vessels by length 2022				
						6 - 12m	12 - 15m	15 - 24m	> 24m	Total
1	Quang Tri	0	0	182	193	222	32	71	7	332
2	Thua Thien Hue	0	0	10	10	0	0	25	3	28
3	Da Nang	60	57	57	44	0	0	32	0	32
4	Quang Nam	0	5	5	5	0	14	24	0	38
5	Quang Ngai	637	829	220	199	12	2	176	0	190
6	Binh Dinh	12	54	17	17	0	0	13	4	17

No	Provinces	2018	2019	2020	2021	Number of tuna fishing vessels by length 2022				
						6 - 12m	12 - 15m	15 - 24m	> 24m	Total
7	Phu Yen	60	60	60	60	28	27	5	0	60
8	Khanh Hoa	166	153	124	133	0	56	149	4	209
9	Ninh Thuan	57	476	476	282	0	30	63	3	96
10	Binh Thuan	16	16	14	18	0	5	12	1	18
11	Ba Ria-Vung Tau	476	506	520	521	0	0	317	55	372
12	Tien Giang	0	0	136	136	0	0	0	0	0
	Total	1.484	2.156	1.821	1.618	262	166	887	77	1.392

Figure 2: Number of tuna gillnetters in Viet Nam

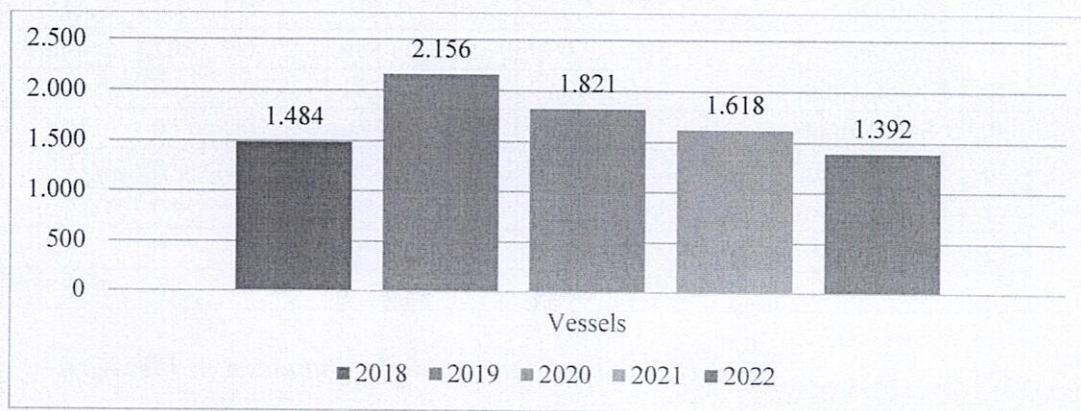
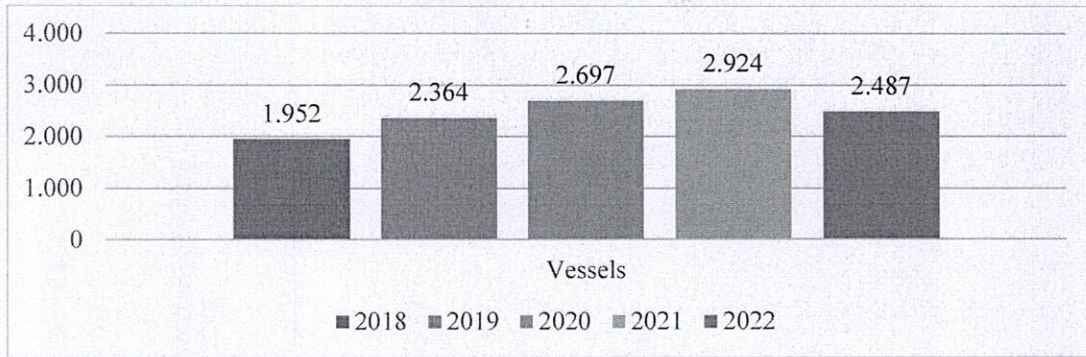


Table 3: Number of tuna purse seine in Viet Nam from 2018 to 2022

No	Provinces	2018	2019	2020	2021	Number of tuna fishing vessels by length 2022				
						6 - 12m	12 - 15m	15 - 24m	> 24m	Total
1	Quang Tri	0	0	123	123	0	8	69	9	86
2	Thua Thien Hue	0	0	119	119	0	1	116	0	117
3	Da Nang	111	116	116	98	0	0	55	1	56
4	Quang Nam	135	134	133	131	0	55	179	5	239
5	Quang Ngai	486	580	641	641	43	214	374	8	639
6	Binh Dinh	573	635	621	652	0	0	618	23	641
7	Phu Yen	95	97	97	97	17	36	35	9	97
8	Khanh Hoa	25	24	16	15	0	0	60	5	65
9	Ninh Thuan	26	286	286	462	10	14	25	0	49
10	Binh Thuan	247	236	223	230	0	39	185	2	226
11	Ba Ria-Vung Tau	254	256	215	247	0	0	158	18	176
12	Tien Giang	0	0	107	109	0	0	75	21	96
	Total	1.952	2.364	2.697	2.924	70	367	1.949	101	2.487

Figure 3: Number of tuna purse seine in Viet Nam



B. ANNUAL TUNA CATCHES IN THE VIET NAM'S EEZ

The total tuna catches are reported by combination of tuna unloaded by LL/HL, GN, PS at local ports of 12 coastal provinces from Quang Tri to Tien Giang: Quang Tri, Thua Thien Hue, Da Nang, Quang Nam, Quang Ngai, Binh Dinh, Phu Yen, Khanh Hoa, Ninh Thuan, Binh Thuan, Ba Ria - Vung Tau and Tien Giang in 2022. The total tuna catches by 2022 was 151,861 Tons, increase about 24,793 Tons compared to 2021 (increase 19.5%). In the period from 2018 to 2022, the total tuna catches has an average growth rate of 5.95%/year. It is noted that these catches unloaded by Vietnamese vessels which operated only in the Vietnam's exclusive economic zone.

Although total tuna catches increased, but the number of tuna fishing fleets in 2022 decreased compared to 2021, because the longline/handlines, gillnets and purse seine of some provinces such as Quang Tri, Da Nang, Quang Nam, Ninh Thuan, Binh Thuan and Tien Giang have been converted to other types of fishing.

The total catches of tuna in 2022 increased due to a number of reasons as follows: more complete and accurate statistics; increased fishing time; favorable weather conditions; improved fishing gear and techniques fishing; the Covid-19 is basically under control;...

Table 4: Summaries of total tuna catches (Tons) caught in Viet Nam's EEZ in 2022

Gears	2020	2021	Total tuna catches in 2022 (tons)						
			BET	YFT	SKJ	ALB	SWO/Marlin	Others	Total
HL/LL	16.796	20.402	1.522	13.051	67	107	1.694	1.408,3	17.848,8
%	16,4	16,1	68,9	65,4	0,1	87,7	42,3	2,8	11,8
GN	28.728	29.687	104	1.504	9.094	15	2.129,7	16.981	29.827
%	28,1	23,4	4,7	7,5	12,1	12,3	53,2	33,8	19,6
PS	56.792	76.979	582	5.386	66.183	0	183,5	31.850	104.185
%	55,5	60,6	26,4	27,0	87,8	0,0	4,6	63,4	68,6
Total	102.316	127.068	2.208	19.941	75.343	122	4.007	50.239	151.861

Figure 4: Total tuna catches in Viet Nam in 2022

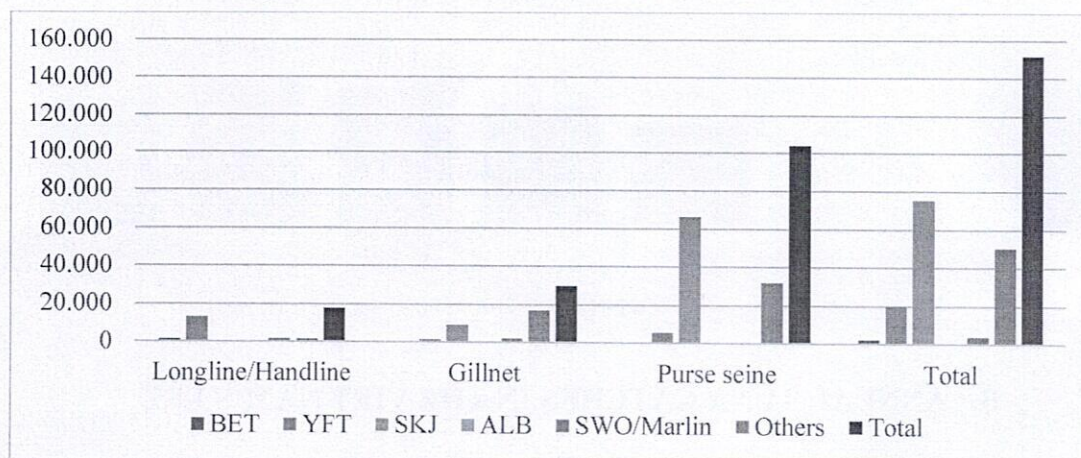


Table 5: Total tuna catches in Vietnam's EEZ estimated for tuna longline/handline by species from 2015 to 2022 (Tons)

Species	2015	2016	2017	2018	2019	2020	2021	2022
BET	2.026	1.115	1.004	902	1.554	2.678	2.275	1.522
%	10,2	6,4	6,0	5,2	9,6	15,9	11,2	8,5
YFT	17.859	16.423	15.677	16.500	14.653	14.118	13.822	13.051
%	89,8	93,6	94,0	94,8	90,4	84,1	67,8	73,1
SKJ	0	0	0	0	0	0	630	67
%	0,0	0,0	0,0	0,0	0,0	0,0	3,1	0,4
ALB	0	0	0	0	0	0	0	107
%	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,6
SWO/Marlin	0	0	0	0	0	0	1.577	1.694
%	0,0	0,0	0,0	0,0	0,0	0,0	7,7	9,5
Others	0	0	0	0	0	0	2.097	1.408
%	0,0	0,0	0,0	0,0	0,0	0,0	10,3	7,9
Total	19.885	17.538	16.681	17.402	16.207	16.796	20.402	17.849

Table 6: Total tuna catches in Vietnam's EEZ estimated for tuna gillnet by species from 2015 to 2022 (Tons)

Species	2015	2016	2017	2018	2019	2020	2021	2022
BET	472	1.671	411	276	228	199	175	104
%	1,5	3,5	1,0	0,8	0,7	0,7	0,6	0,3
YFT	1.762	771	560	521	599	637	528	1.504
%	5,5	1,6	1,4	1,5	1,8	2,2	1,8	5,0
SKJ	29.730	44.997	40.281	34.229	31.977	27.892	17.356	9.094
%	93,0	94,9	97,6	97,7	97,5	97,1	58,5	30,5
ALB	0	0	0	0	0	0	0	15
%	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
SWO/Marlin	0	0	0	0	0	0	2.150	2.130
%	0,0	0,0	0,0	0,0	0,0	0,0	7,2	7,1

Species	2015	2016	2017	2018	2019	2020	2021	2022
Others	0	0	0	0	0	0	9.478	16.981
%	0,0	0,0	0,0	0,0	0,0	0,0	31,9	56,9
Total	31.964	47.439	41.252	35.026	32.804	28.728	29.687	29.827

Table 7: Total tuna catches in Vietnam's EEZ estimated for tuna purse seine by species from 2015 to 2022 (Tons)

Species	2015	2016	2017	2018	2019	2020	2021	2022
BET	1.676	2.918	2.508	3.123	676	853	725	582
%	4,3	5,0	4,6	4,6	1,1	1,5	0,9	0,6
YFT	5.947	6.617	6.170	7.683	4.247	2.832	2.670	5.386
%	15,3	11,4	11,3	11,3	7,0	5,0	3,5	5,2
SKJ	31.279	48.564	46.014	57.299	55.380	53.107	50.836	66.183
%	80,4	83,6	84,1	84,1	91,8	93,5	66,0	63,5
ALB	0	0	0	0	0	0	0	0
%	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
SWO/Marlin	0	0	0	0	0	0	366	184
%	0,0	0,0	0,0	0,0	0,0	0,0	0,5	0,2
Others	0	0	0	0	0	0	22.382	31.850
%	0,0	0,0	0,0	0,0	0,0	0,0	29,1	30,6
Total	38.902	58.099	54.692	68.105	60.303	56.792	76.979	104.185

C. COASTAL STATE REPORTING

There are currently no foreign fishing vessels licensed to operate in the Vietnamese waters, and also no Vietnamese vessels are licensed to operate in the WCPFC waters and other countries.

D. OTHER INFORMATION

1. Tuna export

In recent years, tuna has always accounted for the largest proportion in the total seafood export turnover, and the group has the third largest value in the total seafood export turnover of Vietnam. From 2017 to 2022, the proportion of tuna export value in the total seafood export turnover has increased from 7.1% in 2017 to 9.5% in 2022.

In 5 years, from 2017 to 2022, Vietnam's tuna exports have increased by 28% from 593 million USD in 2017 to 1 billion USD in 2022. Vietnam's tuna export value during this period grew at an average rate of 9%/year. The main exported tuna species of Vietnam include yellowfin tuna, bigeye tuna, skipjack tuna...

Vietnamese tuna products have been exported to more than 100 markets around the world. In which, the US, EU, the Middle East and CPTPP countries are the four largest markets for Vietnam's tuna consumption, accounting for 82 - 86% of Vietnam's total tuna export turnover.

In the US market, for the whole year of 2022, tuna exports to the US still increased by 44%, reaching nearly 487 million USD.

2. Tuna import

In 2022, there are 21 times of foreign shipping vessels docking at designated ports to import fisheries products originating from foreign fishing into Vietnam according to the provisions of the Agreement on Port State Measures (PSMA), with the volume of imported fisheries products is 59,030,580 kg.

E. APPENDIX

Table 8: Total number of fishing vessels by gears and length

Gears	2018	2019	2020	2021	Number of tuna fishing vessels by length 2022				Total
					6 - 12m	12 - 15m	15 - 24m	> 24m	
LL/HL	2.856	2.914	2.921	3.071	5	96	2.487	7	2.595
%	45,4	39,2	39,3	40,3	1,5	15,3	46,7	3,8	40,1
Gillnet (GN)	1.484	2.156	1.821	1.618	262	166	887	77	1.392
%	23,6	29	24,5	21,3	77,7	26,4	16,7	41,6	21,5
Purse sein (PS)	1.952	2.364	2.697	2.924	70	367	1.949	101	2.487
%	31,0	31,8	36,3	38,4	20,8	58,3	36,6	54,6	38,4
Total	6.292	7.434	7.439	7.613	337	629	5.323	185	6.474

Table 9: Total number of fishing vessels by location from 2018 to 2022

No	Provinces	2018	2019	2020	2021	2022	2022/2021
1	Quang Tri	0	0	334	348	445	27,9
2	Thua Thien Hue	0	0	129	129	145	12,4
3	Da Nang	171	173	173	142	88	-38,0
4	Quang Nam	135	139	138	136	277	103,7
5	Quang Ngai	1.696	1.834	1.210	1.186	1.150	-3,0
6	Binh Dinh	2.010	2.103	2.037	2.088	2.068	-1,0
7	Phu Yen	657	656	690	696	685	-1,6
8	Khanh Hoa	547	494	434	439	583	32,8
9	Ninh Thuan	83	1.021	1.021	1.130	145	-87,2
10	Binh Thuan	263	252	237	248	244	-1,6
11	Ba Ria-Vung Tau	730	762	741	774	548	-29,2
12	Tien Giang	0	0	295	297	96	-67,7
	Total	6.292	7.434	7.439	7.613	6.474	-15,0

Table 10: Tuna catches of Handline/Longline by location and species in 2022

No	Provinces	Tuna catches of Handline/Longline fisheries (tons)							Total
		BET	YFT	SKJ	ALB	SWO	Marlin	Others	
1	Quang Tri	0	0	0	0	0	0	5	5,0
2	Thua Thien Hue	0	0	0	0	0	0	0	0
3	Da Nang	0	0	0	0	0	0	0	0
4	Quang Nam	0	0	0	0	0	0	0	0
5	Quang Ngai	12,7	1.622,5	14,9	106,9	189,5	82,7	126,7	2.155,9
6	Binh Dinh	1.500,0	9.500	0	0	650	290	0	11.940
7	Phu Yen	6,2	1.923,7	0,1	0	270,7	19,6	1.024,6	3.245
8	Khanh Hoa	0,0	0,0	0,0	0	103,3	32,7	0,0	136
9	Ninh Thuan	0	0	0,0	0,0	0	0,0	0	0,0
10	Binh Thuan	3	5,0	52	0	30	25	252,0	367
11	Ba Ria-Vung Tau	0	0	0	0	0	0	0	0
12	Tien Giang	0	0	0	0	0	0	0,00	0,00
	Total	1.522	13.051	67	107	1.244	450	1.408,3	17.848,8

Table 11: Tuna catches of Gillnet by location and species in 2022

No	Provinces	Tuna catches of Gillnet fisheries (tons)							Total
		BET	YFT	SKJ	ALB	SWO	Marlin	Others	
1	Quang Tri	1,10	0	56,77	0,00	1,67	1,79	709,31	770,64
2	Thua Thien Hue	0	0	6,0	0	0	0,84	42,11	48,95
3	Da Nang	33	65	1.050	15	55	95	387	1.700
4	Quang Nam	0	0	0	0	0	0	0	0
5	Quang Ngai	0	32,9	1.093,1	0,0	13,6	304,3	85,9	1.529,8
6	Binh Dinh	0	3,0	250	0	0	60	42	355
7	Phu Yen	0	0	8,2	0	0,33	0,0	8,6	17,1
8	Khanh Hoa	0	1.277,0	1.500,0	0,0	15,0	1.223,1	9.000,0	13.015
9	Ninh Thuan	0	0	804,7	0	0	69,0	1.105,83	1.979,5
10	Binh Thuan	10	6	125	0	5	35	2.000	2.181
11	Ba Ria-Vung Tau	60	120	4.200	0	98	152	3.600	8.230
12	Tien Giang	0	0,0	0,00	0	0	0	0,00	0,0
	Total	104	1.504	9.094	15	189	1.941,0	16.981	29.827

Table 12: Tuna catches of Purse sein by location and species in 2022

No	Provinces	Tuna catches of Purse sein fisheries (tons)							Total
		BET	YFT	SKJ	ALB	SWO	Marlin	Others	
1	Quang Tri	0	0	25	0	0	0	10	35
2	Thua Thien Hue	0	0	1,7	0	0	1	273,0	276
3	Da Nang	85	110	2.040	0	0	0	310	2.545
4	Quang Nam	348,5	594,0	5.789,8	0	0	0	1.188,1	7.920
5	Quang Ngai	0	2.152,4	11.882,7	0,0	0	0,0	1.788,5	15.823,6
6	Binh Dinh	65,0	980	39.000	0	0	15	6.200	46.260
7	Phu Yen	0	0	18,8	0	0,0	0,0	19,2	38,0

No	Provinces	Tuna catches of Purse sein fisheries (tons)							
		<i>BET</i>	<i>YFT</i>	<i>SKJ</i>	<i>ALB</i>	<i>SWO</i>	<i>Marlin</i>	<i>Others</i>	Total
8	Khanh Hoa	0	550,4	500,0	0,0	0,3	0,2	1.420,3	2.471
9	Ninh Thuan	0	0	447,3	0,0	0	0,0	866,0	1.313,4
10	Binh Thuan	12	316	2.254	0	0	10	12.447	15.039
11	Ba Ria-Vung Tau	72	675	3.500	0	34	123	3.250	7.654
12	Tien Giang	0	8,2	723,4	0,0	0	0	4.078,0	4.809,5
	Total	582	5.386	66.182,7	0,0	34	149,2	31.850	104.185