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## FISHERIES STATISTICS OF JAPAN, 1970

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International  
Activities  
Staff

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## PREFACE

Fisheries Statistics of Japan is a reproduction of the Japanese publication of the same name. This article has been reproduced with the kind permission of Kazuo Ohyama, Director of the Statistics and Information Department, Economic Affairs Bureau, of the Ministry of Agriculture and Forestry.

This article should provide readers interested in the fisheries of Japan with an excellent statistical background. The work is a useful reference, covering many different periods, in Japan's developing fisheries.

# STATISTICAL TABLES

## 1. SUMMARY OF CATCH BY FISHERY SECTOR, 1940~1970

Quantity : Thousand metric tons  
Value : Hundred million yens.

Year	Sea Fisheries		Sea Cultures		Inland Water Fisheries		Inland Water Cultures		Total		Whalings	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Numbers	Value
1940	3,427	---	78	---	---	---	19	---	3,526	---	9,628	---
1945	1,750	---	61	---	---	---	12	---	1,824	---	531	---
1950	3,255	---	48	---	63	---	5	---	3,373	---	5,332	---
1951	3,774	---	88	---	60	---	6	---	3,930	---	6,335	---
1952	4,646	---	113	---	53	---	9	---	4,823	---	7,816	---
1953	4,387	---	144	---	57	---	8	---	4,598	---	6,631	---
1954	4,304	---	145	---	82	---	9	---	4,541	---	9,591	---
1955	4,658	---	154	---	82	---	11	---	4,907	---	11,866	---
1956	4,488	2,012	180	206	90	62	13	30	4,772	2,310	14,124	160
1957	5,067	2,303	244	174	81	73	14	31	5,407	2,582	15,439	213
1958	5,198	2,257	214	205	78	70	15	37	5,506	2,569	19,922	196
1959	5,568	2,535	225	236	75	69	15	36	5,884	2,877	20,527	221
1960	5,817	2,983	284	338	74	80	15	47	6,192	3,448	19,649	234
1961	6,287	3,340	322	455	81	93	18	64	6,710	3,952	20,845	267
1962	6,397	3,567	362	538	84	94	20	68	6,864	4,266	22,237	269
1963	6,200	3,988	389	650	84	98	23	94	6,698	4,830	22,370	309
1964	5,868	4,039	362	724	89	102	29	111	6,350	4,976	24,409	323
1965	6,382	4,516	380	816	113	100	33	126	6,908	5,558	26,986	366
1966	6,558	5,005	405	974	103	118	36	164	7,103	6,260	22,784	290
1967	7,241	5,677	470	1,074	97	109	42	166	7,851	7,026	21,088	252
1968	7,993	6,097	522	1,010	103	119	52	221	8,670	7,447	21,586	237
1969	7,976	6,928	473	1,130	112	144	52	285	8,613	8,488	17,409	221
1970	8,598	7,851	549	1,353	119	170	48	317	9,315	9,692	16,887	272

## 2. SUMMARY OF CATCH BY SPECIES, 1940~1970

Unit : Thousand metric tons.

Year	Sea Waters					Inland Waters					Total
	Fishes	Molluscs	Crus- taceans	Aquatic plants	Others	Fishes	Molluscs	Crus- taceans	Aquatic plants	Others	
1940	2,435	441	35	523	---	29	---	---	---	---	3,526
1945	1,222	313	31	228	---	13	---	---	---	---	1,824
1950	2,210	760	49	257	28	32	12	1	23	1	3,373
1951	2,572	922	56	290	22	30	12	1	23	2	3,930
1952	3,268	1,033	72	361	27	35	13	1	12	1	4,823
1953	3,253	889	70	292	27	37	15	1	12	2	4,598
1954	3,239	786	99	287	38	44	14	2	31	1	4,541
1955	3,541	802	106	310	53	52	14	3	25	1	4,907
1956	3,441	774	95	304	52	60	16	3	24	3	4,772
1957	3,877	894	108	402	27	64	24	5	2	4	5,407
1958	4,017	893	119	339	42	62	26	3	1	4	5,506
1959	4,267	1,027	119	337	44	59	26	1	1	4	5,884
1960	4,463	1,078	126	386	51	60	25	1	1	3	6,192
1961	5,015	985	138	425	49	66	28	2	1	3	6,710
1962	4,911	1,158	149	501	41	69	30	2	1	3	6,864
1963	4,653	1,303	159	425	51	72	33	1	1	2	6,698
1964	4,745	925	153	361	48	80	35	1	0	2	6,350
1965	5,093	1,082	132	406	52	86	56	1	0	2	6,908
1966	5,232	1,097	142	436	57	86	50	1	0	2	7,103
1967	5,742	1,225	149	534	60	92	42	2	0	2	7,851
1968	6,340	1,430	186	503	57	104	44	2	1	4	8,670
1969	6,561	1,238	153	444	53	107	51	3	1	3	8,613
1970	7,289	1,132	146	521	59	103	58	3	1	3	9,315

## 3. CATCH IN QUANTITY BY SPECIES, 1965~1970

Species	Unit ; Metric tons					
	1965	1966	1967	1968	1969	1970
<b>Grand Total 1)</b> .....	<b>6,907,569</b>	<b>7,102,482</b>	<b>7,850,780</b>	<b>8,670,137</b>	<b>8,613,422</b>	<b>9,314,662</b>
<b>Sea Fisheries 1)</b> .....	<b>6,381,629</b>	<b>6,557,646</b>	<b>7,241,370</b>	<b>7,993,048</b>	<b>7,975,928</b>	<b>8,597,761</b>
<b>Fishes</b> .....	<b>5,078,229</b>	<b>5,214,912</b>	<b>5,712,303</b>	<b>6,307,788</b>	<b>6,528,303</b>	<b>7,245,352</b>
Albacore, tunas .....	430,290	398,330	367,324	352,887	332,749	291,017
Marlins, swordfishes .....	90,442	81,721	73,692	70,233	68,773	66,733
Skipjack, frigate mackerel .....	166,802	258,816	211,202	191,439	209,378	231,901
Sharks, rays .....	66,951	71,091	67,598	56,029	59,186	60,689
Salmons, trouts .....	145,662	126,629	148,419	113,790	141,309	117,896
Herring .....	50,169	48,617	63,672	67,920	85,240	97,374
Sardine, round herring .....	38,288	39,774	40,824	59,565	49,717	40,626
Anchovy .....	405,906	407,665	365,240	357,668	376,801	365,471
Jack mackerel, scad .....	560,487	514,388	423,352	358,092	340,588	269,311
Mackerels .....	668,574	624,423	687,474	1,015,279	1,011,406	1,301,918
Saury .....	231,377	241,840	220,087	140,204	63,288	93,129
Yellow tails .....	43,819	38,950	48,623	48,363	51,125	54,875
Flounders, halibut .....	216,266	272,969	299,708	261,017	296,367	295,410
Cod .....	90,088	85,849	96,070	109,470	103,780	117,119
Alaska pollack .....	690,895	774,788	1,247,003	1,606,025	1,944,320	2,346,710
Atka mackerel .....	107,288	106,016	81,912	86,855	102,581	146,516
Rock fishes .....	107,795	128,036	132,607	147,389	114,710	87,073
Croakers .....	100,722	98,381	85,620	70,980	66,137	64,311
Hairtail .....	47,682	45,414	68,307	59,904	63,565	54,855
Sea beams .....	40,105	39,149	40,539	37,782	38,137	38,329
Spanish mackerels .....	5,757	6,605	6,950	19,915	21,141	19,870
Sand lance .....	111,706	71,152	102,482	150,473	106,541	227,077
Others .....	661,158	734,309	843,598	926,510	881,464	857,142
<b>Crustacea</b> .....	<b>131,431</b>	<b>141,632</b>	<b>148,296</b>	<b>185,440</b>	<b>152,753</b>	<b>145,509</b>
Spiny lobster .....	1,574	1,566	1,551	1,690	1,602	1,485
"Kuruma" prawn .....	2,915	2,268	2,031	1,573	1,290	1,263
Other prawns, shrimps .....	63,374	66,227	58,599	64,440	56,593	52,889
King crab .....	25,932	30,957	30,275	30,350	22,522	17,557
Queen crab .....	16,380	19,487	31,864	61,679	52,311	53,265
Other crabs .....	21,256	21,127	23,976	25,708	18,435	19,050
<b>Mollusca</b> .....	<b>870,763</b>	<b>875,911</b>	<b>992,631</b>	<b>1,161,867</b>	<b>992,055</b>	<b>935,864</b>
Common squid .....	396,902	382,899	477,012	668,364	478,160	412,240
Other squids, cuttlefishes .....	102,465	102,128	119,836	105,413	111,638	106,677
Octopuses .....	78,057	65,551	98,130	102,718	92,418	96,127
Abalone .....	4,340	5,580	5,958	6,141	6,463	6,466
Short necked clams .....	121,249	157,511	121,618	120,401	116,572	141,297
Common scallop .....	5,742	7,370	6,819	4,989	14,644	16,477
"Mogai" clam .....	31,102	22,160	40,681	37,876	38,289	28,276
Other clams, shellfishes .....	130,906	132,712	122,577	115,965	133,871	127,604
<b>Echinodermata, etc.</b> .....	<b>46,292</b>	<b>52,663</b>	<b>60,090</b>	<b>55,151</b>	<b>51,800</b>	<b>57,764</b>
<b>Marine mammals 1)</b> .....	<b>2,277</b>	<b>2,374</b>	<b>1,033</b>	<b>1,288</b>	<b>1,026</b>	<b>1,512</b>

Species	Unit ; Metric tons.					
	1965	1966	1967	1968	1969	1970
Sea weeds .....	<b>252,637</b>	<b>270,152</b>	<b>318,017</b>	<b>281,513</b>	<b>249,991</b>	<b>211,760</b>
Kelps .....	126,680	155,757	175,883	169,874	147,580	110,780
"Wakame" seaweed .....	61,883	41,934	63,533	48,263	38,016	45,574
Others .....	64,074	72,461	78,601	63,376	64,395	55,406
Sea Cultures .....	<b>379,696</b>	<b>405,195</b>	<b>470,137</b>	<b>521,941</b>	<b>473,293</b>	<b>549,082</b>
Yellow tail .....	14,799	16,875	21,169	31,777	32,722	43,300
Pearl .....	99	118	125	112	97	85
Oyster .....	210,603	221,139	232,200	267,388	245,458	190,799
"Nori" seaweed .....	140,753	128,440	157,550	144,969	134,320	231,464
"Wakame" seaweed .....	12,537	37,809	58,080	76,698	59,821	76,360
Others .....	905	814	1,013	997	875	7,074
Inland Water Fisheries .....	<b>113,148</b>	<b>103,266</b>	<b>97,421</b>	<b>103,212</b>	<b>112,157</b>	<b>119,364</b>
Salmons, trouts .....	4,775	3,508	4,349	2,602	3,214	3,171
Sweet fish .....	8,217	6,998	7,435	9,217	10,329	9,879
Carps .....	12,588	12,277	13,170	13,671	13,555	14,486
Eel .....	2,803	2,826	3,162	3,124	3,194	2,726
Corbicula .....	54,689	48,823	40,477	42,681	48,992	56,144
Others .....	30,076	28,834	28,828	31,917	32,873	32,958
Inland Water Cultures .....	<b>33,096</b>	<b>36,375</b>	<b>41,852</b>	<b>51,936</b>	<b>52,044</b>	<b>48,455</b>
Trouts .....	5,745	6,231	7,882	9,454	10,254	10,632
Carps .....	9,474	11,268	12,508	16,075	15,747	17,256
Eel .....	16,017	17,015	19,605	23,640	23,276	16,730
Others .....	1,860	1,861	1,857	2,767	2,767	3,837
Whaling 2) .....	<b>26,986</b>	<b>22,784</b>	<b>21,088</b>	<b>21,586</b>	<b>17,409</b>	<b>16,887</b>
Blue whale .....	49	-	-	-	-	-
Fin whale .....	6,258	2,280	1,307	1,395	2,473	2,416
Humpback whale .....	43	-	-	-	-	-
Sei whale .....	12,269	13,829	12,725	11,915	7,641	7,287
Sperm whale .....	7,331	5,583	6,031	6,861	6,668	6,548
Mink whale .....	336	365	286	836	287	330
Bottlenose whale .....	172	171	107	117	138	113
Pilot whale .....	288	199	237	166	130	152
Others .....	240	357	395	296	72	41
(Blue Whale Unit) .....	5,240	3,445	2,774	2,683	2,509	2,442

Note: 1) Excluded whale.

2) Actual number of killed.

## 4. CATCH IN VALUE BY SPECIES 1965~1970

Unit : Million yens.

Species	1965	1966	1967	1968	1969	1970
<b>Grand Total 1)</b> .....	<b>555,818</b>	<b>625,972</b>	<b>702,626</b>	<b>744,748</b>	<b>848,763</b>	<b>969,156</b>
Sea Fisheries 1) .....	<b>451,618</b>	<b>500,453</b>	<b>567,740</b>	<b>609,698</b>	<b>692,807</b>	<b>785,149</b>
Fishes .....	<b>357,692</b>	<b>389,112</b>	<b>440,734</b>	<b>462,416</b>	<b>522,601</b>	<b>590,280</b>
Albacore, tunas .....	62,930	73,423	75,139	78,279	88,331	99,367
Marlins, swordfishes .....	16,969	16,128	15,939	17,956	19,126	21,464
Skipjack, frigate mackerel .....	14,488	20,259	19,912	19,812	24,304	31,450
Sharks, rays .....	3,419	3,427	3,335	2,985	3,306	3,315
Salmons, trouts .....	36,262	34,396	42,397	35,481	48,251	42,277
Herring .....	3,919	3,975	5,241	5,098	8,442	11,568
Sardine, round herring .....	2,305	2,533	3,388	4,536	4,611	5,781
Anchovy .....	12,469	10,998	12,282	11,958	12,455	14,495
Jack mackerel, scad .....	20,247	18,968	22,927	21,736	22,842	26,378
Mackerels .....	21,473	20,555	24,211	32,070	27,498	36,398
Saury .....	9,572	10,443	10,602	7,779	10,261	12,012
Yellow trails .....	10,839	11,269	13,106	13,326	15,963	19,542
Flounders, halibut .....	16,935	21,228	21,668	22,601	27,382	34,558
Cod .....	4,581	4,382	4,479	5,387	5,712	7,457
Alaska pollack .....	17,198	19,826	28,507	36,773	46,889	53,778
Atka mackerel .....	2,617	3,134	2,287	2,322	2,883	2,570
Rock fishes .....	5,965	6,862	8,596	9,684	9,106	9,206
Croakers .....	8,065	9,743	9,503	8,114	6,968	6,670
Hairtail .....	5,433	5,816	4,382	4,696	5,531	4,601
Sea beams .....	13,102	14,854	16,202	16,720	20,111	22,339
Spanish mackerels .....	1,595	1,758	1,733	2,923	2,380	3,691
Sand lance .....	1,938	1,867	1,730	2,514	2,038	4,714
Others .....	65,371	73,268	93,168	99,666	108,211	116,647
Crustacea .....	<b>26,241</b>	<b>31,781</b>	<b>30,294</b>	<b>35,862</b>	<b>38,247</b>	<b>40,909</b>
Spiny lobster .....	1,571	1,616	2,030	2,292	2,412	3,096
"Kuruma" prawn .....	3,167	3,208	3,096	3,084	3,160	3,124
Other prawns, shrimps .....	12,247	15,177	11,234	12,370	13,904	15,019
King crab .....	4,838	6,446	6,764	7,362	5,349	4,769
Queen crab .....	2,124	2,598	3,842	6,526	9,056	10,465
Other crabs .....	2,294	2,736	3,328	4,228	4,366	4,436
Mollusca .....	<b>51,434</b>	<b>62,846</b>	<b>72,503</b>	<b>91,021</b>	<b>108,244</b>	<b>124,878</b>
Common squid .....	15,597	24,035	22,636	33,811	40,888	48,972
Other squids, cuttlefishes .....	11,176	12,919	18,420	20,588	28,411	20,593
Octopuses .....	11,294	9,319	14,160	15,654	12,928	25,369
Abalone .....	2,341	3,570	3,743	4,684	5,692	6,276
Short necked clams .....	2,033	2,137	2,435	2,648	3,025	3,604
Common scallop .....	752	882	871	626	1,833	2,621
"Mogai" clam .....	1,164	909	1,419	1,465	1,918	1,704
Other clams, shell fishes .....	7,077	9,075	8,819	11,545	13,549	15,739
Echinodermata, etc. ....	<b>3,163</b>	<b>3,561</b>	<b>4,676</b>	<b>5,425</b>	<b>7,044</b>	<b>9,030</b>
Marine mammals 1) .....	<b>67</b>	<b>73</b>	<b>48</b>	<b>78</b>	<b>73</b>	<b>117</b>

Species	1965	1966	1967	1968	1969	1970
<b>Sea weeds</b> .....	<b>13,020</b>	<b>15,092</b>	<b>19,488</b>	<b>14,897</b>	<b>16,597</b>	<b>19,936</b>
Kelps .....	5,574	7,786	10,696	8,642	8,669	11,324
"Wakame" seaweed .....	4,435	2,935	4,508	2,774	3,439	4,672
Others .....	3,011	4,371	4,284	3,481	4,489	3,940
<b>Sea Cultures</b> .....	<b>81,604</b>	<b>97,386</b>	<b>107,371</b>	<b>100,972</b>	<b>113,044</b>	<b>135,276</b>
Yellow tail .....	6,398	6,830	8,454	13,050	15,180	21,157
Pearl .....	26,555	36,782	30,821	20,396	22,600	20,105
Oyster .....	5,759	6,477	6,340	8,087	8,149	8,627
"Nori" seaweed .....	36,731	40,460	54,307	53,315	59,788	74,527
"Wakame" seaweed .....	683	1,645	3,076	3,246	3,611	6,506
Others .....	5,478	5,192	4,373	2,878	3,716	4,354
<b>Inland Water Fisheries</b> .....	<b>10,049</b>	<b>11,753</b>	<b>10,879</b>	<b>11,942</b>	<b>14,419</b>	<b>17,019</b>
Salmons, trouts .....	829	832	919	670	928	1,092
Sweet fish .....	3,360	4,409	3,780	4,913	4,514	5,177
Carps .....	1,764	1,918	1,791	1,821	2,486	2,957
Eel .....	1,194	1,568	1,499	1,699	2,335	2,990
Corbicula .....	328	391	324	341	490	674
Others .....						
<b>Inland Water Cultures</b> .....	<b>12,557</b>	<b>16,380</b>	<b>16,637</b>	<b>22,136</b>	<b>28,492</b>	<b>31,712</b>
Trouts .....	982	1,109	1,553	1,881	2,000	2,509
Carps .....	2,429	2,814	2,522	2,978	4,100	3,074
Eel .....	8,217	11,349	11,194	15,484	20,483	22,084
Others .....	929	1,108	1,368	1,793	1,909	2,045
<b>Whaling</b> .....	<b>36,610</b>	<b>29,520</b>	<b>25,227</b>	<b>23,672</b>	<b>22,107</b>	<b>27,195</b>

Note: 1) Excluded whale.



## 5. CATCH IN QUANTITY BY FISHERY TYPE, 1965~1970

Unit : Metric tons.

Type of Fisheries	1965	1966	1967	1968	1969	1970
<b>Grand Total 1)</b> .....	<b>6,907,569</b>	<b>7,102,482</b>	<b>7,850,780</b>	<b>8,670,133</b>	<b>8,613,422</b>	<b>9,314,662</b>
<b>Sea Fisheries 1)</b> .....	<b>6,381,629</b>	<b>6,557,646</b>	<b>7,241,370</b>	<b>7,993,048</b>	<b>7,975,928</b>	<b>8,597,761</b>
Distant Waters .....	<b>1,733,169</b>	<b>1,912,336</b>	<b>2,402,582</b>	<b>2,830,343</b>	<b>3,165,260</b>	<b>3,429,038</b>
King crab gill net .....	24,678	24,851	23,821	59,392	43,465	40,160
Salmon drift gill net .....	45,430	38,930	42,544	37,642	40,274	36,409
Large trawls 2) .....	1,089,703	1,276,906	1,839,530	2,266,292	2,594,189	2,883,058
Tuna long lines .....	441,406	403,370	354,390	341,069	313,270	276,028
Skipjack pole-and-line .....	131,952	168,279	142,294	125,948	145,767	162,195
Others .....	-	-	-	-	28,295	31,188
Coastal and Offshore Waters ..	<b>4,648,460</b>	<b>4,645,310</b>	<b>4,838,791</b>	<b>5,162,704</b>	<b>4,810,668</b>	<b>5,168,723</b>
Medium trawls .....	574,290	528,531	583,417	572,391	607,918	765,490
Small trawls .....	252,994	268,839	276,112	268,888	264,674	243,145
Purse seines .....	1,315,988	1,276,124	1,199,553	1,531,144	1,484,453	1,697,241
Saury stick-held-dip net ..	226,700	234,739	216,124	126,893	51,364	83,730
Other lift nets .....	111,162	90,965	94,486	103,714	64,946	87,968
Gill nets .....	270,380	303,589	363,527	365,414	358,253	384,386
Set nets .....	221,547	212,744	246,134	220,278	240,694	257,532
Skipjack pole-and-line .....	62,896	90,375	78,329	70,291	56,588	57,561
Squid angling .....	386,955	378,502	471,958	649,056	467,491	403,692
Other anglings .....	236,517	230,538	231,007	224,157	238,415	205,931
Tuna long line .....	58,381	78,942	74,751	77,937	70,080	65,019
Other long lines .....	164,918	149,900	164,928	143,567	123,063	121,555
Shellfish collectings .....	192,437	217,974	182,400	174,104	190,680	231,777
Seaweed collectings .....	248,118	265,670	313,351	277,955	246,553	208,905
Others .....	325,173	317,873	342,514	357,916	345,496	354,791
Sea Cultures .....	<b>379,696</b>	<b>405,195</b>	<b>470,137</b>	<b>521,941</b>	<b>473,293</b>	<b>549,082</b>
Inland Water Fisheries .....	<b>113,148</b>	<b>103,266</b>	<b>97,421</b>	<b>103,212</b>	<b>112,157</b>	<b>119,364</b>
Inland Water Cultures .....	<b>33,096</b>	<b>36,375</b>	<b>41,852</b>	<b>51,932</b>	<b>52,044</b>	<b>48,455</b>
<b>Whaling 3)</b> .....	<b>26,986</b>	<b>22,784</b>	<b>21,088</b>	<b>21,586</b>	<b>17,409</b>	<b>16,887</b>
Antarctic factory ship type ..	18,259	12,702	9,459	8,443	5,358	5,680
North Pacific factory ship type .....	5,353	6,474	7,318	7,548	7,178	6,463
Coastal large whale type ..	7,744	6,790	6,280	5,861	7,125	7,053
Coastal small whale type ..	1,034	1,092	1,024	818	574	626

Note : 1) Excluded whale.

2) Including value of medium trawls operated on the North Pacific Ocean.

3) Actual number of killed.

## 6. CATCH IN VALUE BY FISHERY TYPE, 1965~ 1970

Unit : Hundred million yens.

Type of Fisheries	1965	1966	1967	1968	1969	1970
<b>Grand Total 1)</b> .....	<b>5,558</b>	<b>6,260</b>	<b>7,026</b>	<b>7,447</b>	<b>8,488</b>	<b>9,692</b>
Sea Fisheries 1) .....	<b>4,516</b>	<b>5,005</b>	<b>5,677</b>	<b>6,097</b>	<b>6,928</b>	<b>7,851</b>
Distant Waters .....	<b>1,671</b>	<b>1,860</b>	<b>2,193</b>	<b>2,381</b>	<b>2,702</b>	<b>2,969</b>
King crab gill net .....	50	58	61	94	85	86
Salmon drift gill net .....	188	148	164	143	197	174
Large trawls 2) .....	684	816	1,127	1,273	1,391	1,505
Tuna long lines .....	618	680	677	723	797	895
Skipjack pole-and-line .....	131	158	164	148	195	253
Others .....	-	-	-	-	37	56
Coastal and Offshore Waters ..	<b>2,845</b>	<b>3,145</b>	<b>3,484</b>	<b>3,716</b>	<b>4,226</b>	<b>4,882</b>
Medium trawls .....	249	244	247	250	285	345
Small trawls .....	255	308	329	365	424	465
Purse seines .....	518	509	597	717	659	819
Saury stick-held-dip net ..	94	100	97	68	89	104
Other lift nets .....	42	39	44	48	39	58
Gill nets .....	338	371	431	451	551	579
Set nets .....	242	243	295	275	360	417
Skipjack pole-and-line .....	58	80	87	82	86	92
Squid angling .....	160	245	234	335	408	484
Other anglings .....	189	195	223	222	277	303
Tuna long line .....	96	137	123	137	134	151
Other long lines .....	176	186	221	198	234	258
Shellfish collectings .....	81	95	99	106	144	165
Seaweed collectings .....	129	148	192	147	164	197
Others .....	219	245	265	315	372	445
Sea Cultures .....	<b>816</b>	<b>974</b>	<b>1,074</b>	<b>1,010</b>	<b>1,130</b>	<b>1,353</b>
Inland Water Fisheries .....	<b>100</b>	<b>118</b>	<b>109</b>	<b>119</b>	<b>144</b>	<b>170</b>
Inland Water Cultures .....	<b>126</b>	<b>164</b>	<b>166</b>	<b>221</b>	<b>285</b>	<b>317</b>
<b>Whaling</b> .....	<b>366</b>	<b>295</b>	<b>252</b>	<b>237</b>	<b>221</b>	<b>272</b>
Antarctic factory ship type ..	283	189	151	133	117	148
North Pacific factory ship type .....	67	84	83	82	80	95
Coastal large whale type ..	23	20	17	21	22	27
Coastal small whale type ..	2	2	2	1	2	2

Note : 1) Excluded whale.

2) Including value of medium trawls operated on the North Pacific Ocean.

## 7. CATCH BY MAJOR SPECIES AND BY SEA FISHERY TYPE, 1965~1970

### 1. Albacore, tunas

Unit ; Metric tons.

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>430,290</b>	<b>398,330</b>	<b>367,324</b>	<b>352,887</b>	<b>332,749</b>	<b>291,017</b>
By area						
Pacific and Indian Ocean .....	358,252	286,111	328,259	310,330	299,391	257,917
Atlantic Ocean .....	72,038	112,219	39,065	42,557	33,358	33,100
By type of fisheries						
Mother ship type tuna long line .....	58,682	43,045	32,578	42,265	30,778	18,920
Tuna long line, operated on Atlantic Ocean .....	72,038	40,306	20,432	19,627	12,509	12,190
Tuna long line, based at foreign ports .....	27,136	28,660	20,470	18,257	12,041	7,041
Tuna long line, based at domestic ports .....	200,105	231,430	228,155	218,675	219,552	202,548
Skipjack pole and line .....	51,698	33,646	43,785	27,776	43,059	34,390
Purse seines .....	14,208	14,804	9,608	16,390	7,757	8,582
Large set net .....	2,183	1,422	2,899	3,100	2,111	2,720
Others .....	4,240	5,017	9,397	6,797	4,942	4,626

### 2. Marlins, sword fishes

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>90,442</b>	<b>81,721</b>	<b>73,692</b>	<b>70,233</b>	<b>68,773</b>	<b>66,733</b>
By area						
Pacific and Indian Ocean .....	81,185	76,329	70,519	66,110	64,239	61,246
Atlantic Ocean .....	9,257	5,392	3,173	4,123	4,534	5,487
By type of fisheries						
Tuna long line, mothership type .....	8,847	7,656	5,968	6,424	4,461	4,247
Tuna long line, operated on Atlantic Ocean .....	9,257	5,392	1,687	1,384	1,515	1,968
Tuna long line, based at foreign ports .....	3,193	2,503	1,893	1,288	1,004	1,185
Tuna long line, based at domestic ports .....	63,657	49,689	60,757	57,543	56,822	55,651
Large set nets .....	231	344	261	260	275	294
Others .....	5,257	16,137	3,126	3,334	4,696	3,388

### 3. Skipjack, frigate mackerel

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>166,802</b>	<b>258,816</b>	<b>211,202</b>	<b>191,439</b>	<b>209,378</b>	<b>231,901</b>
By area						
Coastal and offshore waters ..	23,405	116,646	104,895	85,801	94,101	96,181
Distant waters .....	143,397	142,170	106,307	105,638	115,277	135,720
By type of fisheries						
Skipjack pole and line .....	142,208	224,037	175,036	166,550	178,330	200,814
Purse seine, one boat operation .....	3,952	3,452	5,945	5,333	7,380	4,673
Purse seine, two boat operation .....	4,209	9,241	7,185	3,243	4,884	5,144
Other anglings .....	5,459	5,650	3,271	5,569	8,596	8,613
Tuna long lines .....	1,312	1,555	6,786	1,133	1,362	1,645
Set nets .....	6,471	10,024	9,732	7,700	6,685	4,649
Others .....	3,191	4,857	3,247	1,911	2,141	6,363

### 4. Salmon, trouts

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>145,662</b>	<b>126,629</b>	<b>148,419</b>	<b>113,790</b>	<b>141,309</b>	<b>117,896</b>
By area						
Coastal and offshore waters ..	100,233	87,699	105,875	76,148	101,035	81,487
Distant waters .....	45,429	38,930	42,544	37,642	40,274	36,409
By type of fisheries						
Factory ship type salmon drift gill net .....	45,429	38,930	42,544	37,642	40,274	36,409
Salmon drift gill net .....	59,440	50,089	57,692	51,237	54,955	45,615
Other long lines .....	22,172	21,095	28,097	13,394	26,889	13,791
Large set nets .....	13,179	11,716	13,431	7,254	12,601	16,700
Small set nets .....	3,379	2,420	3,709	2,362	3,699	3,613
Others .....	2,063	2,379	2,946	1,901	2,891	1,768

## 5. Herring

Unit ; Metric tons.

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>50, 169</b>	<b>48, 617</b>	<b>63, 672</b>	<b>67, 920</b>	<b>82, 240</b>	<b>97, 374</b>
By area						
Coastal and offshore waters...	16, 442	22, 782	30, 822	34, 419	42, 545	64, 848
Distant waters .....	33, 727	25, 835	32, 850	33, 501	42, 695	32, 526
By type of fisheries						
Factory ship type large trawl .	33, 686	25, 576	31, 448	22, 773	11, 615	9, 392
Medium trawls .....	2, 703	2, 320	1, 867	16, 026	6, 105	9, 628
Large set nets .....	192	597	21	8	6	10
Small set nets .....	910	1, 930	7, 365	321	879	69
Other gill nets .....	12, 364	17, 663	21, 518	17, 731	35, 542	55, 128
Others .....	314	531	1, 453	11, 061	31, 093	23, 147

## 6. Anchovy

<b>Total catch</b>	<b>405, 906</b>	<b>407, 665</b>	<b>365, 240</b>	<b>357, 668</b>	<b>376, 801</b>	<b>365, 471</b>
By area						
Coastal and offshore waters...	405, 906	407, 665	365, 240	357, 668	376, 801	365, 471
Distant waters .....	-	0	-	-	-	-
By type of fisheries						
Purse seine of one-boat operation .....	37, 632	51, 168	49, 749	80, 826	77, 467	88, 729
Purse seine of two-boat operation .....	217, 398	216, 214	186, 081	148, 113	174, 444	153, 568
Other surrounding nets .....	14, 620	13, 035	11, 593	18, 788	4, 400	2, 453
Other lift nets .....	16, 701	14, 389	10, 609	15, 552	12, 223	10, 356
Set nets .....	18, 025	21, 629	25, 278	12, 431	21, 379	19, 483
Others .....	101, 530	91, 240	81, 930	81, 958	86, 878	90, 882

## 7. Jack mackerel, scads

<b>Total catch</b>	<b>560, 487</b>	<b>514, 388</b>	<b>423, 352</b>	<b>358, 092</b>	<b>340, 588</b>	<b>269, 311</b>
By area						
Coastal and offshore waters...	555, 377	514, 356	419, 516	349, 731	327, 318	249, 995
Distant waters .....	5, 110	32	3, 836	8, 361	13, 270	19, 316
By type of fisheries						
Purse seine of one-boat operation .....	435, 845	425, 562	300, 215	246, 049	231, 679	169, 406
Purse seine of two-boat operation .....	52, 614	44, 910	43, 098	35, 354	39, 179	33, 899
Other surrounding nets .....	7, 906	5, 227	10, 585	5, 899	6, 091	2, 317
Other lift nets .....	24, 298	12, 566	25, 366	23, 443	12, 584	11, 065
Other angling .....	5, 244	3, 920	5, 342	4, 689	4, 802	4, 482
Set nets .....	19, 822	15, 653	25, 028	25, 372	26, 611	22, 007
Trawls .....	3, 161	2, 552	2, 034	10, 937	15, 276	22, 494
Others .....	11, 597	3, 998	11, 684	6, 349	4, 366	3, 641

## 8. Mackerels

<b>Total catch</b>	<b>668, 574</b>	<b>624, 423</b>	<b>687, 474</b>	<b>1, 015, 279</b>	<b>1, 011, 406</b>	<b>1, 301, 918</b>
By area						
Coastal and offshore waters...	668, 399	624, 369	687, 014	1, 014, 652	1, 010, 951	1, 301, 020
Distant waters .....	175	54	460	627	455	898
By type of fisheries						
Mackerel pole and line .....	134, 716	138, 269	137, 752	132, 848	126, 213	96, 658
Purse seine of one-boat operation .....	272, 057	180, 013	215, 524	383, 773	545, 285	773, 146
Purse seine of two-boat operation .....	181, 516	219, 984	265, 854	428, 312	279, 411	344, 879
Other surrounding nets .....	2, 091	2, 483	2, 395	3, 035	2, 559	2, 879
Other lift nets .....	23, 178	24, 911	17, 632	17, 365	11, 370	19, 019
Others .....	55, 016	58, 763	48, 317	49, 946	46, 568	65, 337

## 9. Saury

Unit : Metric tons.

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>231,377</b>	<b>241,840</b>	<b>220,087</b>	<b>140,204</b>	<b>63,288</b>	<b>93,129</b>
By area						
Coastal and offshore waters...	231,377	241,840	320,087	140,204	63,288	93,119
Distant waters .....	-	-	-	-	-	10
By type of fisheries						
Saury stick-held dip net .....	226,683	234,623	216,100	126,821	51,259	83,683
Other gill nets .....	2,317	5,331	1,707	5,839	7,987	7,310
Surrounding nets .....	419	426	736	6,067	704	311
Set nets .....	1,612	538	1,495	1,380	3,204	1,671
Others .....	346	922	46	97	134	154

## 10. Yellow tails

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>43,819</b>	<b>38,950</b>	<b>48,623</b>	<b>48,363</b>	<b>51,125</b>	<b>54,875</b>
By area						
Coastal and offshore waters...	43,785	38,950	48,623	48,168	51,118	54,865
Distant waters .....	34	-	-	195	7	10
By type of fisheries						
Large set nets .....	18,377	16,530	18,285	14,456	17,824	16,473
Small set nets .....	2,304	2,137	2,791	3,061	3,525	4,328
Purse seines .....	4,481	5,324	10,065	8,550	9,729	8,758
Other anglings .....	12,562	9,802	12,144	14,956	13,396	17,567
Others .....	6,095	5,157	5,338	7,340	6,651	7,749

## 11. Flounders, halibut

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>216,266</b>	<b>272,969</b>	<b>299,708</b>	<b>261,017</b>	<b>296,367</b>	<b>295,410</b>
By area						
Coastal and offshore waters...	119,912	147,909	137,201	134,640	117,308	120,722
Distant waters .....	96,354	125,060	162,507	126,377	179,059	174,688
By type of fisheries						
Factory ship type large trawl ..	57,792	97,368	110,085	70,734	113,600	101,748
Large trawl, in Bering Sea ...	19,142	27,084	35,704	37,044	45,407	55,830
Large trawl, west of 130°E in East China Sea .....	19,031	18,664	16,112	16,052	18,312	15,545
Medium trawls .....	68,735	72,658	76,994	67,628	53,106	52,012
Small trawls .....	21,276	25,062	25,341	26,358	26,174	26,629
Other gillnets .....	19,513	21,149	25,250	29,247	28,172	31,768
Others .....	10,777	10,984	10,222	13,954	11,596	11,878

## 12. Cod

	1965	1966	1967	1968	1969	1970
<b>Total catch</b>	<b>90,088</b>	<b>85,849</b>	<b>96,070</b>	<b>109,470</b>	<b>103,780</b>	<b>117,119</b>
By area						
Coastal and offshore waters...	50,478	50,624	45,003	38,430	33,392	28,418
Distant waters .....	39,610	35,225	51,067	71,040	70,388	88,701
By type of fisheries						
Factory ship type large trawl ..	20,717	20,622	32,415	42,157	39,439	48,403
Large trawls .....	18,893	14,603	18,652	28,883	29,507	40,165
Medium trawls .....	13,167	17,388	18,252	15,773	14,379	10,558
Small trawls .....	1,102	1,923	1,901	1,176	1,353	1,003
Other gill nets .....	4,277	4,443	4,538	3,875	3,617	3,383
Other long lines .....	30,705	25,615	19,433	16,759	13,201	12,326
Others .....	1,227	1,255	879	847	2,284	1,281

## 13. Alaska pollack

Unit ; Metric tons.

	1965	1966	1967	1968	1969	1970
Total catch	<b>690,895</b>	<b>774,788</b>	<b>1,247,003</b>	<b>1,606,025</b>	<b>1,944,320</b>	<b>2,346,710</b>
By area						
Coastal and offshore waters...	373,300	346,221	432,512	372,631	396,198	417,358
Distant waters .....	317,595	428,567	814,491	1,233,394	1,548,122	1,929,352
By type of fisheries						
Factory ship type large trawl ..	230,082	273,891	561,779	686,235	677,730	1,030,825
Large trawls .....	87,513	154,676	252,712	547,159	870,379	898,133
Medium trawls .....	268,743	226,662	257,652	202,407	248,317	251,446
Small trawls .....	768	1,030	930	1,340	1,865	2,023
Other gill nets .....	67,524	89,926	140,480	147,735	131,967	146,167
Other long lines .....	35,357	28,241	32,220	20,914	13,687	17,158
Others .....	908	362	1,230	235	375	958

## 14. Croakers

	1965	1966	1967	1968	1969	1970
Total catch	<b>100,722</b>	<b>98,381</b>	<b>84,620</b>	<b>70,980</b>	<b>70,137</b>	<b>64,311</b>
By area						
Coastal and offshore waters...	3,282	3,294	3,801	3,217	3,136	4,369
Distant waters .....	97,440	95,087	80,819	67,763	63,001	59,942
By type of fisheries						
Large trawl, on distant waters	764	758	316	269	228	8
Large trawl, west of 130°E in East China Sea .....	96,676	94,349	80,502	67,494	62,773	59,934
Medium trawls .....	664	596	385	364	255	197
Small trawls .....	1,061	1,133	1,663	1,314	1,238	1,184
Others .....	1,557	1,545	1,754	1,539	1,643	2,988

## 15. Sea breams

	1965	1966	1967	1968	1969	1970
Total catch	<b>40,105</b>	<b>39,149</b>	<b>40,539</b>	<b>37,782</b>	<b>38,137</b>	<b>38,329</b>
By area						
Coastal and offshore waters...	32,471	29,963	33,081	32,249	27,254	26,123
Distant waters .....	7,634	9,186	7,458	5,533	10,883	12,206
By type of fisheries						
Large trawl, on distant waters	3,252	3,076	2,154	804	4,503	6,233
Large trawl, west of 130°E in East China Sea .....	4,382	6,110	5,299	4,727	3,921	3,883
Medium trawls .....	2,734	2,572	3,861	3,157	2,372	2,125
Small trawls .....	2,025	2,060	2,630	2,067	2,403	2,153
Other anglings and long lines ..	17,322	15,865	17,307	15,720	11,442	10,964
Set nets .....	2,344	1,842	1,810	2,419	2,044	2,242
Others .....	8,036	7,624	7,478	8,888	11,452	10,729

## 16. Shrimps, prawns, lobster

	1965	1966	1967	1968	1969	1970
Total catch	<b>67,863</b>	<b>70,385</b>	<b>62,181</b>	<b>67,703</b>	<b>59,485</b>	<b>55,637</b>
By area						
Coastal and offshore waters...	52,243	62,071	55,287	49,265	45,434	43,560
Distant waters .....	15,620	8,314	6,894	18,438	14,051	12,077
By type of fisheries						
Factory shiptype large trawl ..	8,860	3,127	3,287	8,754	4,412	1,950
Large trawl, in Bering sea ..	49	11	1,299	5,696	5,094	2,541
Large trawls, west of 130°E in East China Sea .....	6,126	4,710	1,869	3,003	3,496	2,955
Medium trawls .....	7,255	8,753	5,908	6,778	8,323	5,528
Small trawls .....	34,626	39,656	33,277	28,242	27,169	27,430
Other surrounding nets .....	4,138	5,858	9,374	7,659	3,398	3,966
Others	6,809	8,270	7,167	7,571	7,593	11,267

## 17. Crabs

Unit : Metric tons.

	1965	1966	1967	1968	1969	1970
Total catch	<b>63,568</b>	<b>71,580</b>	<b>86,115</b>	<b>117,737</b>	<b>93,268</b>	<b>89,872</b>
By area						
Coastal and offshore waters ...	38,442	46,613	60,699	58,253	47,843	47,033
Distant waters .....	25,126	24,967	25,416	59,484	45,425	42,839
By type of fisheries						
Factory ship type kingcrab						
gill net .....	24,678	24,851	23,821	59,392	43,465	40,160
Medium trawls .....	12,576	9,595	9,125	10,504	10,637	12,047
Small trawls .....	3,869	3,877	4,906	5,822	4,862	5,296
Other gill nets .....	4,251	7,113	9,143	8,696	6,098	3,763
Others .....	18,194	26,144	39,120	33,323	28,206	28,606

## 18. Squids, cuttlefishes

	1965	1966	1967	1968	1969	1970
Total catch	<b>499,367</b>	<b>485,027</b>	<b>596,848</b>	<b>773,777</b>	<b>589,798</b>	<b>518,917</b>
By area						
Coastal and offshore waters ...	441,589	430,311	532,443	716,217	531,519	464,363
Distant waters .....	57,778	54,716	64,405	57,560	58,279	54,554
By type of fisheries						
Squid anglings .....	386,463	377,918	471,464	648,859	467,156	403,292
Large trawls, on distant						
waters .....	38,637	33,089	44,191	37,466	40,825	35,086
Large trawls, west of 130°E in						
East China Sea .....	19,141	21,625	20,214	20,093	17,451	19,295
Medium trawls .....	10,099	8,736	11,405	13,635	13,198	14,888
Small trawls .....	7,008	7,411	7,416	6,360	7,766	8,461
Large set nets .....	16,295	14,462	16,101	13,929	11,931	13,941
Small set nets .....	12,191	11,734	13,698	19,162	17,021	11,799
Others .....	9,533	10,052	12,359	14,273	14,450	12,155

## 19. Octopuses

	1965	1966	1967	1968	1969	1970
Total catch	<b>78,057</b>	<b>65,551</b>	<b>98,130</b>	<b>12,718</b>	<b>92,418</b>	<b>96,127</b>
By area						
Coastal and offshore waters ...	44,661	42,953	42,911	37,899	40,118	45,212
Distant waters .....	33,396	22,598	55,219	64,819	52,300	50,915
By type of fisheries						
Large trawls .....	33,350	22,586	55,178	64,791	52,213	50,853
Medium trawls .....	4,922	3,870	3,692	3,973	4,111	4,112
Small trawls .....	6,821	6,394	8,295	7,560	8,618	9,122
Other anglings .....	4,334	3,867	3,859	2,939	2,910	2,471
Other long lines .....	11,375	10,260	9,030	7,529	6,568	9,335
Others .....	17,255	18,574	18,076	15,926	17,998	20,234

## 8. CATCH BY OCEAN, AND BY FISHERY TYPE, 1965~1970

Unit ; Metric tons.

Type	1965	1966	1967	1968	1969	1970
<b>GRAND TOTAL</b>	<b>6, 907, 569</b>	<b>7, 102, 482</b>	<b>7, 850, 780</b>	<b>8, 670, 133</b>	<b>8, 613, 422</b>	<b>9, 314, 662</b>
Inland waters .....	146, 244	139, 641	139, 273	155, 144	164, 201	167, 819
Fisheries .....	113, 148	103, 266	97, 421	103, 212	112, 157	119, 364
Inland water cultures .....	33, 096	36, 375	41, 852	51, 932	52, 044	48, 455
Pacific Ocean .....	6, 364, 724	6, 603, 770	7, 264, 988	8, 071, 146	8, 050, 414	8, 808, 750
Fisheries						
Mother ship type large trawl ..	432, 096	539, 202	778, 411	843, 606	862, 442	1, 199, 121
Large trawl .....	520, 848	559, 247	781, 131	1, 154, 609	1, 476, 616	1, 457, 493
Medium trawl .....	574, 290	528, 531	583, 417	572, 391	607, 918	765, 490
Small trawl .....	252, 995	268, 839	276, 112	258, 888	264, 674	243, 145
Purse seine .....	1, 275, 835	1, 234, 729	1, 152, 833	1, 479, 408	1, 484, 453	1, 697, 241
Mother ship type salmon drift gill net .....	45, 430	38, 930	42, 544	37, 642	40, 274	36, 409
Salmon drift gill net .....	59, 730	50, 476	58, 043	51, 596	55, 381	45, 615
Mother ship type king crab gill net .....	24, 678	24, 851	23, 821	59, 392	43, 465	40, 160
Other gill nets .....	210, 650	252, 758	304, 412	313, 818	302, 872	365, 216
Saury stick-held dip net .....	226, 700	234, 739	216, 124	126, 893	51, 364	83, 730
Set nets .....	221, 546	212, 746	246, 134	220, 278	240, 694	257, 532
Mother ship type tuna long line Tuna long line .....	5, 014	503	2, 402	1, 818	3, 019	5, 380
Skipjack pole-and-line .....	263, 240	307, 673	267, 836	253, 118	246, 045	247, 165
Squid angling .....	194, 848	252, 073	213, 110	184, 539	192, 965	225, 002
Other anglings .....	386, 955	378, 502	471, 958	649, 056	467, 491	403, 692
Shellfish collecting .....	236, 517	230, 402	230, 818	224, 157	238, 415	189, 061
Seaweed collecting .....	192, 437	217, 975	182, 400	174, 104	190, 680	231, 777
Others .....	248, 118	265, 670	313, 351	277, 955	246, 553	208, 905
Others .....	613, 101	600, 729	649, 994	664, 937	561, 800	557, 534
Sea Cultures .....	379, 696	405, 195	470, 137	521, 941	473, 293	549, 082
Indian Ocean .....	91, 051	87, 405	131, 354	130, 129	109, 155	71, 605
Large trawl .....	395	11	13, 153	11, 959	13, 453	11, 893
Mother ship type tuna long line	11, 807	15, 482	21, 252	26, 231	14, 241	8, 794
Tuna long line .....	78, 846	71, 912	96, 940	91, 940	81, 461	50, 918
Others .....	3	-	10	-	-	-
Atlantic Ocean .....	305, 652	271, 766	315, 262	313, 714	289, 652	266, 488
Large trawl .....	164, 772	178, 445	266, 835	256, 115	241, 678	214, 551
Mother ship type tuna long line	54, 850	38, 309	18, 257	23, 348	20, 411	10, 542
Tuna long line .....	86, 030	48, 432	22, 654	22, 551	18, 173	29, 771
Others .....	-	6, 579	7, 515	11, 700	9, 390	11, 624



## 9. NUMBER OF FISHING ESTABLISHMENTS, 1965~1970

Strata	Unit : Number.					
	1965	1966	1967	1968	1969	1970
<b>GRAND TOTAL</b>	<b>223,664</b>	<b>224,043</b>	<b>227,547</b>	<b>228,758</b>	<b>232,219</b>	<b>228,215</b>
Fisheries using non-powered vessels	32,372	26,275	22,576	20,083	15,512	12,877
Fisheries using powered vessels						
Less than 3 tons	91,363	93,791	96,463	99,220	103,705	102,051
3 - 5 tons	14,827	15,865	16,952	20,739	20,601	20,816
5 - 10 tons	5,616	5,881	6,129	6,173	7,007	7,051
10 - 30 tons	4,811	4,939	5,078	4,970	5,216	5,186
30 - 100 tons	2,603	2,674	2,747	2,629	2,729	2,717
100 - 200 tons	613	620	646	620	663	691
200 - 500 tons	525	528	538	541	563	587
500 - 1,000 tons	219	220	248	243	267	263
1,000 tons and over	123	140	141	154	156	169
Large set nets	911	889	872	711	827	847
Small set nets	6,605	6,494	6,377	5,074	5,577	5,701
Beach seine	1,120	1,001	919	1,069	904	811
Laver culture	44,908	45,091	46,932	47,767	48,487	48,585
Oyster culture	4,168	3,893	3,699	3,299	3,658	3,484
Pearl culture	4,049	4,282	4,277	3,642	3,675	3,380
Other culture	8,831	11,460	12,953	11,824	12,672	12,999

Note: 1. Excluding fishing establishments without fishing vessel.

2. Excluding fishing establishments which engaged less than 30 days in a year.

## 10. NUMBER OF FISHING VESSELS, 1965~1970

Size	1965	1966	1967	1968	1969	1970
<b>Marine</b>						
Non-powered	163,988	153,025	139,283	126,709	116,945	104,957
Powered	217,156	226,045	239,083	248,791	253,573	265,652
Less than 5 G.T.	191,463	200,278	213,029	222,956	227,599	239,412
5 - 9 G.T.	8,181	8,204	8,448	8,464	8,632	8,923
10 - 49 G.T.	12,183	12,084	12,013	11,598	11,358	11,085
50 - 99 G.T.	3,510	3,447	3,353	3,292	3,339	3,444
100 - 199 G.T.	742	891	971	1,091	1,149	1,212
200 - 499 G.T.	824	867	953	1,063	1,172	1,251
500 - 999 G.T.	97	106	128	126	119	117
1,000 G.T. and over	156	168	188	201	205	208
<b>Fresh Water</b>						
Non-powered	16,143	17,887	14,933	17,026	15,658	15,643
Powered	4,348	4,219	4,703	4,753	5,214	5,537
Less than 5 G.T.	4,342	4,212	4,700	4,750	5,211	5,532
5 G.T. and over	6	7	3	3	3	5

## 11. GROSS TONNAGES OF FISHING VESSELS, 1965~1970

Size	1965	1966	1967	1968	1969	1970
<b>Marine</b>						
Non-powered .....	136,652	121,440	106,831	92,118	80,781	72,520
Powered .....	2,054,127	2,128,738	2,255,279	2,308,973	2,362,389	2,443,725
Less than 5 G. T. ....	336,870	350,808	370,666	384,660	391,305	409,216
5 - 9 G. T. ....	61,023	61,604	63,699	64,131	65,517	68,082
10 - 49 G. T. ....	284,761	286,436	282,145	271,044	261,403	252,433
50 - 99 G. T. ....	286,258	282,462	276,337	268,909	272,671	278,707
100 - 199 G. T. ....	110,368	134,265	148,667	166,354	174,593	182,826
200 - 499 G. T. ....	258,624	273,184	304,473	340,242	373,464	403,768
500 - 999 G. T. ....	71,165	78,613	95,519	95,012	90,549	89,542
1,000 G. T. and over .....	645,058	661,366	713,772	718,621	732,887	759,152
<b>Fresh water</b>						
Non-powered .....	8,023	8,927	7,354	8,172	7,882	8,202
Powered .....	5,543	5,519	6,048	6,157	6,646	6,870
Less than 5 G. T. ....	5,491	5,461	6,020	6,129	6,618	6,822
5 G. T. and over .....	52	58	28	28	28	48

## 12. MARINE FISHERY WORKERS, 1965~1970

Unit : 1,000 persons.

	1965	1966	1967	1968	1969	1970
Grand total .....	612.0	607.4	592.8	593.8	572.1	549.4
Men .....	502.5	495.7	485.5	486.2	458.8	437.9
15 - 39 years old .....	254.2	246.1	236.1	236.7	215.7	202.7
40 - 59 years old .....	175.8	176.5	177.6	178.7	172.8	167.3
60 years old and over .....	72.2	72.8	71.6	70.7	70.4	67.9
Women .....	109.5	111.6	107.3	107.7	113.3	111.5

## 13. PROCESSED FISHERY PRODUCTS, 1965~1970

Processed products 1)	Unit: Thousand metric tons. Canned: Thousand cases.					
	1965	1966	1967	1968	1969	1970
Boiled and dried .....	100.8	82.7	88.9	101.6	80.8	83.3
Anchovies .....	69.9	56.3	58.8	68.8	58.1	58.0
Jack mackerel .....	-	-	6.5	8.4	6.2	6.4
Sand lance .....	9.3	4.5	6.3	8.3	4.4	4.4
Others .....	21.5	21.9	17.2	16.1	12.1	14.5
Cured .....	79.9	83.4	82.0	89.2	93.5	98.4
Mackerels .....	11.7	11.0	9.5	13.9	14.5	20.8
Skipjack .....	20.3	22.3	20.0	20.5	21.3	21.8
Others .....	47.9	50.1	52.4	54.8	57.7	55.8
Dried .....	40.9	38.5	45.2	48.6	38.0	41.9
Herring .....	3.9	5.3	9.6	10.8	13.4	17.5
Squids .....	27.4	21.3	25.1	27.0	14.5	11.1
Others .....	9.6	11.9	10.5	10.8	10.1	13.2
Frozen .....	1,799.3	1,825.7	2,021.5	2,355.7	2,207.4	2,434.2
Albacore, tuna .....	305.0	379.3	253.0	267.8	250.0	196.2
Cod, Alaska pollack .....	26.3	22.0	23.1	46.2	69.1	42.4
Halibut, flounders .....	39.0	60.8	60.3	50.1	63.7	88.5
Mackerels .....	194.2	173.4	176.4	299.9	242.1	386.9
Marlins .....	66.6	59.0	52.9	53.8	52.2	52.8
Sardines, anchovies .....	58.1	87.5	87.1	92.2	108.3	89.7
Saury .....	163.5	168.4	156.6	102.9	50.4	76.6
Skipjack .....	18.8	34.0	27.9	24.7	35.8	45.2
Squids, cuttlefishes .....	212.6	197.5	296.3	386.1	285.9	254.4
Whales .....	199.9	167.4	156.7	139.5	120.3	118.7
Minced fish meat .....	30.5	47.6	99.1	153.8	220.4	268.4
Others .....	484.8	428.8	632.1	738.7	708.6	814.4
Kneaded .....	797.2	895.1	911.9	999.4	1,077.2	1,081.3
"Chikuwa" 2) .....	121.8	157.6	171.7	194.0	204.3	221.5
Fish sausage .....	188.1	176.0	164.4	161.8	168.8	169.5
"Kamaboko" 3) .....	245.1	270.2	294.8	336.4	368.0	356.4
Others .....	242.2	291.3	280.9	307.2	336.1	333.9
Manure and feed .....	432.8	450.9	511.7	639.5	740.1	802.0
Fish meal .....	225.5	225.9	265.2	309.7	368.8	404.4
Dried press cake .....	112.5	130.3	140.6	171.7	209.4	250.7
Others .....	94.8	94.7	106.0	158.0	162.0	146.9
Oil and fat .....	175.4	124.8	124.3	134.7	145.0	176.9
Fish oil .....	23.4	22.6	24.1	37.8	50.8	86.5
Fish visceral oil .....	13.7	13.7	18.3	15.6	21.7	17.9
Whale oil .....	138.4	88.5	81.9	80.9	72.2	72.3
Others .....	0.0	0.0	0.0	0.4	0.3	0.2
Salted .....	153.9	167.3	156.9	184.0	206.2	180.2
Alaska pollack roe, cod roe ...	11.6	14.3	18.6	24.7	28.9	33.2
Cod, Alaska pollack .....	16.4	11.6	14.6	12.8	12.9	11.1
Herring roe, salmon roe .....	1.0	1.6	3.9	2.4	3.3	5.0
Mackerels .....	42.0	53.2	43.5	71.8	52.9	53.8
Salmons .....	25.0	31.0	24.4	30.4	30.1	42.0
Trouts .....	28.6	22.5	26.6	25.5	49.9	14.9
Others .....	29.3	33.1	25.3	16.4	28.2	20.2

Processed products	Unit : Thousand metric tons. Canned; Thousand cases.					
	1965	1966	1967	1968	1969	1970
Salted and dried .....	122.1	121.1	125.2	134.8	159.6	144.5
Jack mackerel .....	29.6	29.0	34.9	37.5	43.3	39.2
Mackerels .....	17.6	14.2	13.3	21.1	24.7	25.9
Sardines, anchovies .....	24.5	29.6	26.8	26.8	42.6	22.6
Saury .....	18.4	15.9	13.8	10.1	4.3	4.6
Others .....	32.0	32.4	36.4	39.4	44.8	52.2
Smoked .....	8.5	6.4	9.0	12.3	9.2	7.6
Salmons, trouts .....	0.6	0.5	0.3	0.4	0.6	0.7
Squids, cuttlefishes .....	2.0	1.3	2.5	4.9	0.7	0.5
Whale meat .....	-	-	3.6	4.9	5.4	3.8
Others .....	5.9	4.6	2.5	2.1	2.6	2.6
Others .....	159.0	197.1	233.2	230.2	246.5	251.3
Canned 4) Standard cases 5)	12,173	12,755	14,470	14,706	14,116	16,210
Actual cases	26,252	27,333	31,243	30,743	30,864	32,192
Shellfishes .....	656	842	1,022	915	817	836
Crabs .....	285	318	369	362	314	319
Jack mackerel .....	682	821	462	233	14	0
Mackerel .....	2,904	3,793	4,999	7,663	6,473	8,358
Prawns, shrimps .....	54	31	29	48	6	9
Salmons, trouts .....	1,728	1,491	1,709	814	1,151	1,077
Sardines, anchovies .....	183	251	169	54	150	47
Saury .....	1,050	578	501	508	284	235
Squids, cuttlefishes .....	418	194	453	307	327	274
Tunas, skipjack .....	2,410	2,944	3,264	2,634	3,358	4,150
Whale .....	1,193	950	986	761	655	622
Others .....	610	542	502	407	567	283

- Note :
- 1) Excluding Dried seaweeds.
  - 2) Baked products of kneaded fish meat with seasonings.
  - 3) Steamed products of kneaded fish meat with seasonings.
  - 4) Surveyed by the Cannery Association of Japan.
  - 5) Converted to 450 g x 48 cans in net weight for one case.

## 14. VALUE OF IMPORTS AND EXPORTS BY COMMODITY, 1960~1970

### Imports

Year	Living animals	Fresh and frozen			Salted, dried and smoked	Raw agar-agar	Fish meals
		Shrimps	Whale meats	Others			
1960	---	235	-	706	501	406	800
1961	---	2,509	-	523	579	679	963
1962	---	2,221	907	1,517	826	590	1,812
1963	---	8,449	760	2,143	1,427	643	3,984
1964	1,027	11,317	1,644	5,163	2,638	502	4,919
1965	535	12,938	1,332	7,244	3,592	562	5,897
1966	931	21,631	1,691	9,765	5,143	1,923	6,657
1967	1,305	28,704	2,688	11,060	6,155	2,562	4,867
1968	1,752	28,108	758	14,023	7,690	816	7,278
1969	2,745	43,829	880	19,005	7,033	896	5,919
1970	5,851	49,329	1,374	26,394	12,478	772	6,689

### Exports

Year	Frozen			Salted and dried	Canned		
	Tunas	Marlins	Others		Jack mackerel, mackerel	Salmons	Saury
1960	14,526		4,066	2,099	---	20,653	2,083
1961	16,481		4,004	2,021	---	13,354	787
1962	22,289		6,791	2,036	---	32,843	2,026
1963	16,907	1,731	7,507	2,039	3,696	16,322	3,059
1964	20,425	1,895	9,025	2,302	5,746	15,309	3,289
1965	18,853	2,420	10,707	2,202	4,951	21,945	1,202
1966	29,402	2,416	10,724	2,892	8,495	13,766	1,817
1967	16,331	1,700	11,820	2,880	10,180	16,680	688
1968	14,783	2,976	14,895	3,212	14,502	21,000	312
1969	9,887	2,732	18,342	4,354	15,294	13,713	112
1970	11,433	2,550	21,573	4,248	19,605	16,181	407

Unit ; Million yens.

Pearls	Oil and fat	Prepared	Dried seaweeds	Shells	Others	Total
---	---	---	562	1,229	---	<b>5,523</b>
---	---	---	293	750	---	<b>8,173</b>
457	114	218	428	691	910	<b>10,693</b>
419	64	388	432	1,055	1,623	<b>21,386</b>
621	64	373	1,889	767	1,342	<b>32,266</b>
905	69	1,281	0	1,589	1,478	<b>37,422</b>
1,248	400	2,240	3,474	3,531	1,698	<b>60,332</b>
794	297	2,184	3,924	1,893	2,534	<b>68,966</b>
1,448	424	1,532	5,953	837	1,515	<b>72,135</b>
1,496	558	1,808	6,441	1,172	2,060	<b>93,843</b>
1,474	229	3,561	3,099	1,401	1,977	<b>114,628</b>

Unit ; Million yens.

Tuna	Crabs	Others	Oil and fat		Pearls	Others	Total
			Whale Oil	Others			
9,136	4,198	5,785	6,912	1,607	10,973	2,179	<b>84,216</b>
10,704	4,268	6,536	7,697	1,214	12,883	2,352	<b>82,301</b>
11,912	3,891	5,934	5,423	978	15,063	3,479	<b>112,666</b>
12,674	3,948	4,338	9,111	472	17,024	2,926	<b>101,755</b>
13,536	4,635	3,717	7,970	466	19,828	3,843	<b>111,987</b>
12,859	4,531	3,647	7,296	234	23,118	5,030	<b>118,997</b>
17,121	3,876	4,687	4,406	250	23,291	7,193	<b>130,338</b>
18,544	3,716	4,894	2,942	356	19,813	6,866	<b>117,411</b>
19,776	5,446	4,410	1,027	343	16,849	6,685	<b>126,217</b>
23,683	5,534	4,977	1,497	328	17,510	6,919	<b>124,881</b>
28,862	2,929	5,557	2,597	1,307	14,725	8,744	<b>140,718</b>

## 15. VALUE OF IMPORTS AND EXPORTS BY COUNTRY, 1960~1970

### Imports

Year	Australia	Canada	Chile	China (Mainland)	Hong Kong	Mexico	Peru
1960	87	44	103	278	128	35	636
1961	126	70	215	495	386	1,730	911
1962	255	139	147	1,158	566	728	1,266
1963	779	223	102	2,597	1,909	2,792	2,895
1964	1,126	286	180	5,778	1,383	3,464	4,005
1965	1,192	411	759	6,559	2,101	3,734	2,959
1966	1,781	715	823	11,501	2,800	4,333	4,265
1967	2,069	985	1,178	7,029	3,112	7,326	1,850
1968	2,486	1,466	283	5,664	3,959	5,437	4,803
1969	5,225	1,224	594	6,842	5,349	5,786	3,858
1970	5,779	2,158	372	11,309	3,819	7,355	4,911

### Exports

Year	Australia	Canada	Hong Kong	Italy	Nether- lands	Philip- pines	Puerto Rico
1960	1,776	1,420	1,644	2,201	3,143	1,991	719
1961	2,188	1,493	1,787	3,179	6,326	857	84
1962	1,948	1,956	2,007	4,829	2,887	770	1,699
1963	1,949	1,695	2,373	5,970	5,836	2,941	2,900
1964	2,676	1,851	4,112	5,124	3,930	4,197	5,300
1965	3,393	2,207	2,313	6,064	4,166	3,348	4,890
1966	3,123	2,512	3,313	9,692	4,006	4,753	7,199
1967	3,068	2,456	2,606	6,212	4,482	7,064	4,060
1968	3,341	2,152	2,852	5,385	2,603	7,108	3,189
1969	4,009	2,721	4,048	4,452	3,145	5,752	2,326
1970	3,522	3,932	4,123	5,851	4,982	5,800	3,116

Unit ; Million yens.

Republic of Korea	Ryukyu Island	Spain	Thailand	U. S. A.	U. S. S. R.	Others	Total
1,651	435	-	6	1,259	-	861	<b>5,523</b>
1,330	289	0	14	699	-	1,908	<b>8,173</b>
2,678	319	5	34	529	53	2,855	<b>10,693</b>
2,998	701	428	427	1,243	237	4,055	<b>21,386</b>
5,729	443	1,004	1,098	2,136	979	4,658	<b>32,266</b>
5,758	464	2,074	1,404	2,573	1,544	5,891	<b>37,422</b>
10,049	1,270	2,562	2,703	6,263	2,260	9,006	<b>60,332</b>
11,669	2,016	1,812	3,844	5,286	2,839	17,950	<b>68,966</b>
11,550	2,794	1,111	4,195	6,235	2,278	19,875	<b>72,135</b>
12,262	2,842	1,049	5,825	9,180	2,791	31,016	<b>93,843</b>
14,203	4,400	2,519	5,651	8,699	2,158	41,295	<b>114,628</b>

Unit ; Million yens.

Republic of Germany	Ryukyu Island	Spain	Switzerland	United Kingdom	U. S. A.	Others	Total
4,372	1,172	---	2,127	19,753	27,022	16,876	<b>84,216</b>
3,822	1,314	---	2,448	10,984	30,976	16,843	<b>82,301</b>
4,350	1,184	103	3,399	33,379	38,507	15,648	<b>112,666</b>
4,839	1,365	521	3,985	17,618	31,662	18,102	<b>101,755</b>
6,764	1,708	288	3,856	16,548	32,479	23,155	<b>111,987</b>
9,770	2,175	1,197	4,508	22,660	32,140	20,169	<b>118,997</b>
8,209	2,569	1,496	4,909	14,840	42,349	21,727	<b>130,338</b>
7,068	2,760	1,027	4,849	17,550	33,094	21,109	<b>117,411</b>
7,575	2,841	1,397	3,896	21,372	37,166	29,374	<b>126,217</b>
8,215	3,731	1,322	4,320	13,323	37,390	30,127	<b>124,881</b>
9,082	4,027	1,832	3,736	16,835	41,952	31,929	<b>140,718</b>



## 16. VALUE OF IMPORTS AND EXPORTS OF (by Country, and by Commodity)

### A. Imports

Origin	Living animals	Frozen		Salted, dried and smoked	Oil and fat
		Shrimps	Others		
<b>Total</b>	<b>5, 851</b>	<b>49, 329</b>	<b>27, 768</b>	<b>12, 478</b>	<b>229</b>
Ryukyu Islands .....	114	42	3, 788	39	1
Republic of Korea .....	1, 274	258	5, 710	1, 746	18
North Korea .....	-	92	304	70	-
China (Main land) .....	165	6, 941	1, 188	2, 460	-
China (Taiwan) .....	3, 170	1, 698	3, 283	71	5
Hong Kong .....	385	3, 327	72	1	1
Thailand .....	98	5, 048	288	85	-
Malaysia .....	0	2, 326	349	44	-
Indonesia .....	51	3, 168	3	354	-
Philippines .....	38	315	9	-	1
India .....	-	5, 288	1	3	-
Pakistan .....	-	1, 950	0	-	-
Iceland .....	-	-	83	-	6
Norway .....	-	-	44	41	50
Denmark .....	-	0	0	3	-
Spain .....	-	-	2, 493	1	23
U. S. S. R. ....	-	303	1, 013	548	29
Canada .....	4	-	410	1, 427	-
U. S. A. ....	132	632	1, 731	5, 521	67
Mexico .....	-	7, 186	0	-	-
Peru .....	1	-	244	-	0
Chile .....	-	-	-	-	-
Argentina .....	-	-	40	-	-
Canary Island (Spain) .....	-	-	1, 747	-	-
South West Africa .....	-	-	-	-	-
South Africa .....	-	-	170	-	-
Australia .....	-	4, 054	428	-	-
New Hebrides (U.K., France) ..	-	-	241	0	-
Samoa (U. S. A.) .....	-	-	81	24	-
The Mariana, The Marshall, The Caroline Isls. ....	-	-	174	-	-
Others .....	419	6, 701	3, 874	41	29

## FISHERY PRODUCTS, 1970

Unit ; Million yens

Prepared	Pearls	Fish meals	Shells	Dried sea weeds (Laver)	Raw agar-agar	Others	Total
<b>3,561</b>	<b>1,474</b>	<b>6,689</b>	<b>1,401</b>	<b>3,099</b>	<b>772</b>	<b>1,977</b>	<b>114,628</b>
126	14	1	10	-	4	261	4,400
1,411	-	-	4	3,099	-	683	14,203
5	-	-	-	-	-	-	471
547	-	-	-	-	-	8	11,309
366	-	7	13	-	-	80	8,693
17	10	4	1	-	-	1	3,819
50	75	-	6	-	-	1	5,651
6	11	-	27	-	-	3	2,766
1	4	-	192	-	13	5	3,791
7	86	-	359	-	3	27	845
12	6	-	6	-	-	2	5,318
-	-	-	-	-	-	-	1,950
0	-	-	-	-	-	-	89
72	-	-	-	-	-	25	232
32	0	-	-	-	-	-	35
1	-	-	-	-	-	-	2,519
291	-	692	-	-	-	2	2,878
6	-	-	-	-	-	-	1,846
125	3	-	468	-	-	20	8,699
78	-	-	84	-	1	6	7,355
-	-	4,666	-	-	-	-	4,911
1	-	-	-	-	370	2	372
-	-	-	-	-	267	87	394
-	-	-	-	-	-	-	1,747
54	-	833	-	-	-	1	888
1	-	89	0	-	81	18	359
201	1,050	-	36	-	-	10	5,779
-	-	-	-	-	-	1	242
-	-	-	-	-	-	-	105
-	-	-	15	-	-	-	188
151	215	397	180	-	34	734	12,774

## B. Export

Destination	Frozen			Salted, dried and smoked	Canned		
	Tunas	Marlins	Others		Jack Mackerel Mackerels	Salmons	Saury
<b>Total</b>	<b>11,433</b>	<b>2,550</b>	<b>21,573</b>	<b>4,248</b>	<b>19,605</b>	<b>16,181</b>	<b>41</b>
Ryukyu Islands . . . .	-	53	1,349	966	172	5	20
Republic of Korea ..	-	-	-	3	13	-	-
Hong Kong . . . . .	14	0	12	1,786	89	2	3
South Vietnam . . . .	-	-	25	30	225	-	-
Malaysia . . . . .	32	-	280	15	565	-	-
Singapore . . . . .	-	-	116	432	740	4	-
Philippines . . . . .	-	-	1	1	5,517	9	-
India . . . . .	-	-	-	-	-	1	-
Lebanon . . . . .	-	-	57	1	57	1	-
Sweden . . . . .	7	-	44	0	13	21	-
United Kingdom . . . .	0	0	1,724	6	195	11,807	-
Netherland . . . . .	5	-	601	1	195	973	-
Belgium . . . . .	-	-	123	1	338	499	-
France . . . . .	-	-	139	3	44	498	-
Republic of Germany	0	1	834	9	793	22	-
Switzerland . . . . .	-	-	0	0	8	22	-
Spain . . . . .	155	-	761	0	-	-	-
Italy . . . . .	2,234	1	2,724	0	26	61	-
U.S.S.R. . . . .	-	-	-	0	-	-	-
Greece . . . . .	-	-	154	-	264	11	-
Canada . . . . .	-	22	181	24	33	4	-
U.S.A. . . . .	5,070	2,438	4,548	680	2,236	32	-
Puerto Rico . . . . .	3,105	-	-	-	-	-	-
Liberia . . . . .	-	-	193	-	42	-	-
Ghana . . . . .	153	5	424	0	1,930	35	-
Australia . . . . .	3	-	1,269	5	46	1,544	-
Territory of New Guinea . . . . .	-	-	-	-	968	1	-
Canary Islands (Spain) . . . . .	44	-	1,310	0	3	0	-
Fiji Islands (U.K.)..	374	5	172	0	278	-	-
Samoa (U.S.A.) . . . .	195	9	652	-	41	-	-
Others . . . . .	40	20	3,880	284	4,776	627	17

Unit ; Million yens.

Tunas	Crabs	Oil and fat				Others	Total
		Others	Whale oil	Others	Pearls		
<b>28,862</b>	<b>2,929</b>	<b>5,557</b>	<b>2,597</b>	<b>1,307</b>	<b>14,725</b>	<b>9,110</b>	<b>140,718</b>
507	24	429	-	3	64	435	4,027
-	-	-	435	235	2	199	887
9	10	172	-	2	1,912	112	4,123
-	-	-	-	-	0	100	380
-	0	124	-	-	-	60	1,076
1	21	190	-	-	142	233	1,879
14	-	153	-	1	-	104	5,800
4	1	0	-	-	426	10	442
243	9	2	-	-	424	0	795
132	113	2	-	-	53	38	423
1,594	178	33	-	18	145	1,135	16,835
660	135	11	1,890	339	81	91	4,982
702	188	31	-	-	96	92	2,070
327	510	21	7	6	332	126	2,013
3,862	28	68	-	40	3,260	165	9,082
1,162	1	28	-	-	2,496	19	3,736
-	-	378	-	1	535	2	1,832
96	10	138	-	0	194	367	5,851
-	-	-	-	-	-	336	336
44	39	5	-	-	5	4	526
2,384	17	856	-	29	144	238	3,932
15,476	1,372	2,532	264	581	3,376	3,347	41,952
2	-	-	-	-	4	5	3,116
2	-	-	-	-	-	-	237
8	0	-	-	-	-	-	2,556
36	135	195	-	1	189	99	3,522
-	1	3	-	-	0	-	972
-	3	5	-	-	32	-	1,398
-	4	-	-	-	3	0	836
-	-	1	-	-	-	-	900
1,600	130	177	2	50	812	1,790	14,205

## 17. FOOD BALANCE SHEET ON FISHERY PRODUCTS, 1965~1970

Unit ; Thousand metric tons.

Description	1965	1966	1967	1968	1969	1970
<b>(FISH AND SHELLFISH) (live weight base)</b>						
Domestic production						
For domestic consumption	5,822	5,899	6,588	7,353	7,385	7,879
Fresh and frozen .....	1,870	1,756	1,922	2,083	1,920	2,015
Dried, salted and smoked ..	1,316	1,264	1,298	1,417	1,489	1,400
Kneaded .....	1,364	1,604	1,733	1,877	1,935	2,320
Fish sausage .....	269	252	235	231	241	242
Canned .....	110	118	164	96	94	78
Feeds .....	893	906	1,236	1,649	1,706	1,824
For exports .....	680	767	729	811	783	908
Fresh and frozen .....	260	266	208	208	162	190
Canned .....	339	401	443	519	504	588
Others for food use .....	19	25	22	20	21	13
Feeds .....	62	75	56	64	96	117
<b>Total .....</b>	<b>6,502</b>	<b>6,666</b>	<b>7,317</b>	<b>8,164</b>	<b>8,168</b>	<b>8,787</b>
Imports						
For food use .....	119	170	191	212	236	294
For feeds .....	536	455	413	715	514	451
<b>Total .....</b>	<b>655</b>	<b>625</b>	<b>604</b>	<b>927</b>	<b>750</b>	<b>745</b>
Domestic supply						
For food use .....	5,048	5,163	5,543	5,916	5,915	6,349
Domestic production .....	4,929	4,993	5,352	5,704	5,679	6,055
Imports .....	119	170	191	212	236	294
For feeds .....	1,429	1,361	1,649	2,364	2,220	2,275
Domestic production .....	893	906	1,236	1,649	1,706	1,824
Imports .....	536	455	413	715	514	451
<b>Total .....</b>	<b>6,477</b>	<b>6,524</b>	<b>7,192</b>	<b>8,280</b>	<b>8,135</b>	<b>8,624</b>
<b>(WHALE)</b>						
Domestic production						
For domestic consumption .....	184	176	150	136	136	138
For exports .....	34	9	21	20	20	15
<b>Total .....</b>	<b>218</b>	<b>185</b>	<b>171</b>	<b>156</b>	<b>156</b>	<b>153</b>
Imports						
<b>Total .....</b>	<b>19</b>	<b>21</b>	<b>29</b>	<b>11</b>	<b>13</b>	<b>15</b>
Domestic supply						
For food use .....	203	176	150	136	136	138
For feeds .....	-	21	29	11	13	15
<b>Total .....</b>	<b>203</b>	<b>197</b>	<b>179</b>	<b>147</b>	<b>149</b>	<b>153</b>

(Continued)

Unit ; Thousand metric tons.

Description	1965	1966	1967	1968	1969	1970
<b>(SEAWEED) (dried weight base)</b>						
Domestic production						
For domestic consumption .....	80	92	103	97	86	99
For exports .....	1	2	2	3	3	5
<b>Total</b> .....	<b>81</b>	<b>94</b>	<b>105</b>	<b>101</b>	<b>89</b>	<b>104</b>
Imports						
<b>Total</b> .....	<b>12</b>	<b>21</b>	<b>18</b>	<b>14</b>	<b>15</b>	<b>15</b>
Domestic supply						
For food use .....	70	81	105	90	77	96
For feeds .....	22	32	16	22	24	18
<b>Total</b> .....	<b>92</b>	<b>113</b>	<b>121</b>	<b>112</b>	<b>101</b>	<b>114</b>
Per capita food supply (Unit; Kgs)						
Fish and shellfishes .....	51.4	52.1	55.3	58.3	57.6	61.2
Whales .....	2.1	1.8	1.5	1.3	1.1	1.3
Seaweeds .....	0.7	0.8	1.0	0.9	0.8	0.9

## 18. AVERAGE CONSUMPTION IN QUANTITY OF FISHERY PRODUCTS PER HOUSEHOLD, 1965~1970

### A). Workers household (Cities With population of 50,000 or over)

Unit ; grams

Item	1965	1966	1967	1968	1969	1970
Net income .....	-	-	-	-	-	-
Food expense .....	---	---	---	---	---	---
Fishery products .....	---	---	---	---	---	---
Fresh and frozen .....	---	---	---	---	---	---
Cod, Alaska pollack .....	1,258	1,231	1,211	1,248	1,208	1,208
Flounders, halibuts .....	3,228	3,220	3,569	3,427	3,827	2,817
Jack mackerel .....	7,697	6,879	5,591	5,196	4,957	4,177
Mackerel .....	6,096	5,577	5,613	5,243	4,879	4,431
Salmons, trouts .....	2,088	2,087	1,999	1,452	1,257	1,625
Sardines, anchovies .....	1,564	1,547	1,344	1,436	1,425	1,268
Saury .....	1,786	2,767	1,730	1,336	604	1,044
Sea breams .....	1,857	1,751	1,841	1,657	1,393	1,425
Shellfishes .....	5,331	5,581	5,008	5,092	5,080	4,935
Skipjack .....	736	1,096	943	808	771	775
Squids, cuttlefishes .....	7,388	8,190	8,343	8,245	7,581	7,646
Tunas, marlins .....	2,895	2,720	3,038	3,265	3,204	3,199
Yellowtail .....	1,501	1,495	1,659	1,829	1,835	1,978
Others .....	---	---	---	---	---	---
Processed fishery products .....	---	---	---	---	---	---
Boiled and dried .....	1,240	1,074	977	946	931	897
Canned (case) .....	12.54	11.43	11.64	12.14	11.08	8.89
Cured .....	845	821	778	769	742	716
Dried laver .....	---	---	---	---	---	---
Dried "Kombu" and "Wakame" kelp ..	1,548	1,615	1,637	1,671	1,586	1,724
Dried squids .....	290	279	280	293	303	274
Fish sausage .....	3,981	3,682	3,131	2,949	2,892	2,469
Kneaded .....	---	---	---	---	---	---
Salted salmons and trouts .....	1,698	1,783	1,814	2,312	2,447	3,019
Others .....	---	---	---	---	---	---
Whale meat .....	2,866	2,455	2,199	2,051	1,794	1,557
Beef .....	9,631	7,736	6,844	6,438	7,012	7,551
Pork .....	9,834	12,538	14,435	13,938	13,309	14,754
Chicken .....	5,160	6,072	6,928	7,324	8,265	9,040
Ham, sausage .....	5,844	6,285	6,520	6,863	7,154	7,552
Milk, eggs .....	---	---	---	---	---	---
Seasonings .....	672	730	782	853	840	873
Expence for dining out .....	---	---	---	---	---	---
Number of family member .....	4.24	4.17	4.13	4.05	3.97	3.95

## B). Farm Household

Unit ; grams

Item	1965	1966	1967	1968	1969	1970
Net income .....	-	-	-	-	-	-
Food expense .....	---	---	---	---	---	---
Fishery products .....	---	---	---	---	---	---
Fresh and frozen .....	---	---	---	---	---	---
Cod, Alaska pollack .....	2,120	2,260	2,740	2,660	2,320	3,330
Flounders, halibuts .....	2,940	3,180	3,450	3,510	3,180	3,650
Jack mackerel .....	12,160	10,410	7,590	7,330	7,410	6,460
Mackerel .....	14,810	14,290	15,820	14,800	15,920	14,700
Salmons, trouts .....	---	---	---	---	---	---
Sardines, anchovies .....	2,390	2,390	2,160	2,480	2,580	2,510
Saury .....	4,390	5,960	3,910	2,690	1,450	2,090
Sea breams .....	820	900	1,040	990	1,150	1,270
Shellfishes .....	2,340	2,170	3,270	3,830	3,990	5,150
Skipjack .....	2,220	3,350	3,410	3,210	3,560	3,280
Squids, cuttlefishes .....	8,280	8,580	10,760	10,920	10,110	8,910
Tunas, marlins .....	2,380	2,300	2,650	2,680	3,300	3,860
Yellow tail .....	620	700	930	1,000	1,260	1,880
Others .....	---	---	---	---	---	---
Processed fishery products .....	---	---	---	---	---	---
Boiled and dried .....	3,910	3,500	3,420	3,240	3,100	3,450
Canned .....	5,880	5,240	5,570	5,540	5,010	4,890
Cured .....	270	240	300	260	260	310
Dried laver .....	---	---	---	---	---	---
Dried "Kombu" and "Wakame" kelp ..	1,440	1,490	1,780	2,350	2,630	2,370
Dried squids .....	490	450	530	520	540	500
Fish sausage .....	5,710	5,900	6,010	5,970	5,740	5,390
Kneaded .....	7,930	8,960	9,610	10,290	12,530	13,220
Salted salmons and trouts .....	2,260	2,270	2,670	2,590	2,700	3,590
Others .....	---	---	---	---	---	---
Whale meat .....	3,600	3,010	2,870	2,750	2,650	2,170
Beef .....	2,510	2,070	2,060	2,260	2,780	3,160
Pork .....	3,550	5,520	6,950	6,550	7,490	9,660
Chicken .....	4,000	4,120	4,930	5,740	7,080	7,960
Ham, sausage .....	1,540	2,010	2,360	2,560	3,020	3,500
Milk, eggs .....	---	---	---	---	---	---
Seasonings .....	520	630	780	970	1,030	1,040
Expense for dining out .....	---	---	---	---	---	---
Number of family member .....	5.19	5.06	4.97	5.01	4.92	4.84



## 19. AVERAGE CONSUMPTION IN VALUE OF FISHERY PRODUCTS PER HOUSEHOLD, 1965~1970

A). Workers household (Cities With population of 50,000 or over)

Unit ; yens

Item	1965	1966	1967	1968	1969	1970
Net income .....	821,028	904,464	991,800	1,081,584	1,206,396	1,384,548
Food expense .....	248,484	262,807	282,835	300,451	323,899	361,499
<b>Fishery products .....</b>	<b>34,112</b>	<b>36,247</b>	<b>39,521</b>	<b>42,949</b>	<b>45,863</b>	<b>53,207</b>
<b>Fresh and frozen .....</b>	<b>17,230</b>	<b>18,425</b>	<b>20,062</b>	<b>21,270</b>	<b>22,940</b>	<b>27,485</b>
Cod, Alaska pollack .....	225	265	275	306	328	375
Flounders, halibuts .....	822	895	929	969	1,096	1,281
Jack mackerel .....	1,076	1,026	1,111	1,186	1,309	1,439
Mackerel .....	912	860	928	918	870	915
Salmons, trouts .....	1,082	1,141	1,182	853	779	1,047
Sardines, anchovies .....	235	244	244	301	345	379
Saury .....	339	479	383	391	266	555
Sea beams .....	837	856	904	933	933	1,079
Shellfishes .....	948	1,012	1,003	1,192	1,355	1,528
Skipjack .....	275	385	394	392	438	525
Squids, cuttlefishes .....	1,435	1,619	1,811	1,937	2,028	2,530
Tunas, marlins .....	1,747	1,786	2,161	2,543	2,750	3,158
Yellowtail .....	809	893	1,031	1,216	1,395	1,754
Others .....	6,458	6,964	7,706	8,133	9,048	10,920
<b>Processed fishery products .....</b>	<b>16,169</b>	<b>17,120</b>	<b>18,759</b>	<b>20,989</b>	<b>22,211</b>	<b>24,936</b>
Boiled and dried .....	451	399	405	417	417	481
Canned .....	943	926	1,027	1,014	1,084	1,021
Cured .....	623	531	531	583	611	681
Dried laner .....	2,103	2,262	2,436	2,636	2,784	3,325
Dried "Kombu" and "Wakame" kelp ..	775	880	961	1,012	1,051	1,300
Dried squids .....	159	165	187	195	220	260
Fish sausage .....	1,041	981	836	788	785	679
Kneaded .....	1,622	1,619	1,724	1,866	1,984	2,183
Salted salmons and trouts .....	934	1,033	1,202	1,707	2,025	2,525
Others .....	7,518	8,324	9,450	10,771	11,250	12,481
<b>Whale meat .....</b>	<b>713</b>	<b>702</b>	<b>700</b>	<b>690</b>	<b>712</b>	<b>786</b>
<b>Beef .....</b>	<b>7,222</b>	<b>7,009</b>	<b>7,053</b>	<b>7,289</b>	<b>8,274</b>	<b>9,275</b>
<b>Pork .....</b>	<b>6,502</b>	<b>8,003</b>	<b>9,423</b>	<b>10,355</b>	<b>11,196</b>	<b>12,203</b>
<b>Chicken .....</b>	<b>3,100</b>	<b>3,754</b>	<b>4,255</b>	<b>4,664</b>	<b>5,341</b>	<b>5,909</b>
<b>Ham, sausage .....</b>	<b>3,506</b>	<b>3,834</b>	<b>4,075</b>	<b>4,416</b>	<b>4,801</b>	<b>5,531</b>
<b>Milk, eggs .....</b>	<b>20,333</b>	<b>21,872</b>	<b>23,157</b>	<b>24,242</b>	<b>25,589</b>	<b>26,413</b>
<b>Seasonings .....</b>	<b>1,116</b>	<b>1,175</b>	<b>1,255</b>	<b>1,350</b>	<b>1,303</b>	<b>1,323</b>
<b>Expence for dining out .....</b>	<b>19,805</b>	<b>21,565</b>	<b>25,054</b>	<b>28,895</b>	<b>34,084</b>	<b>39,115</b>
<b>Number of family member .....</b>	<b>4.24</b>	<b>4.17</b>	<b>4.13</b>	<b>4.05</b>	<b>3.97</b>	<b>3.95</b>

## B) . Farm household

Unit ; yens

Item	1965	1966	1967	1968	1969	1970
Net income .....	760,800	861,400	1,029,700	1,125,700	1,250,000	1,393,200
Food expense .....	234,200	252,700	282,600	302,000	326,600	353,500
Fishery products .....	27,225	29,880	34,210	37,996	41,727	47,211
Fresh and frozen .....	12,819	14,497	16,840	19,324	20,779	23,289
Cod, Alaska pollack .....	322	345	428	446	429	599
Flounders, halibuts .....	568	651	721	794	837	1,154
Jack mackerel .....	1,360	1,306	1,123	1,274	1,347	1,478
Mackerel .....	1,843	1,870	2,152	2,163	2,204	2,395
Salmons, trouts .....	---	---	---	---	---	---
Sardines, anchovies .....	305	318	313	417	469	557
Saury .....	562	792	580	489	347	576
Sea beams .....	321	361	462	466	592	742
Shellfishes .....	243	257	324	375	487	629
Skipjack .....	500	712	799	821	1,041	1,082
Squids, cuttlefishes .....	1,234	1,359	1,726	1,879	2,061	2,397
Tunas, marlins .....	1,187	1,297	1,605	1,865	2,469	2,878
Yellowtail .....	283	362	479	554	776	1,289
Others .....	4,091	4,867	6,128	7,781	7,720	7,513
Processed fishery products .....	13,647	14,670	16,627	17,919	20,206	23,127
Boiled and dried .....	1,118	1,060	1,088	1,102	1,223	1,458
Canned .....	1,119	1,073	1,145	1,210	1,102	1,080
Cured .....	212	214	239	252	323	345
Dried lanver .....	1,075	1,253	1,424	1,556	1,953	2,322
Dried "Kombu" and "Wakame" kelp .	482	543	606	594	683	1,507
Dried squids .....	221	236	286	312	344	379
Fish sausage .....	1,381	1,476	1,504	1,501	1,526	1,509
Kneaded .....	1,534	1,793	2,017	2,293	2,733	3,224
Salted salmons and trouts .....	1,009	1,068	1,340	1,455	1,637	2,239
Others .....	5,496	5,954	6,978	7,896	8,682	9,064
Whale meat .....	759	713	743	753	742	795
Beef .....	1,882	1,785	1,952	2,297	2,842	3,467
Pork .....	2,062	3,046	4,021	4,362	5,142	6,260
Chicken .....	1,376	1,611	1,959	2,452	3,137	3,675
Ham, sausage .....	844	990	1,242	1,504	1,784	2,221
Milk, eggs .....	14,004	15,341	17,773	18,890	22,960	24,038
Seasonings .....	715	835	1,033	1,274	1,308	1,430
Expence for dining out .....	9,739	11,300	12,897	14,773	16,873	19,515
Number of family member .....	5.19	5.06	4.97	5.01	4.92	4.84