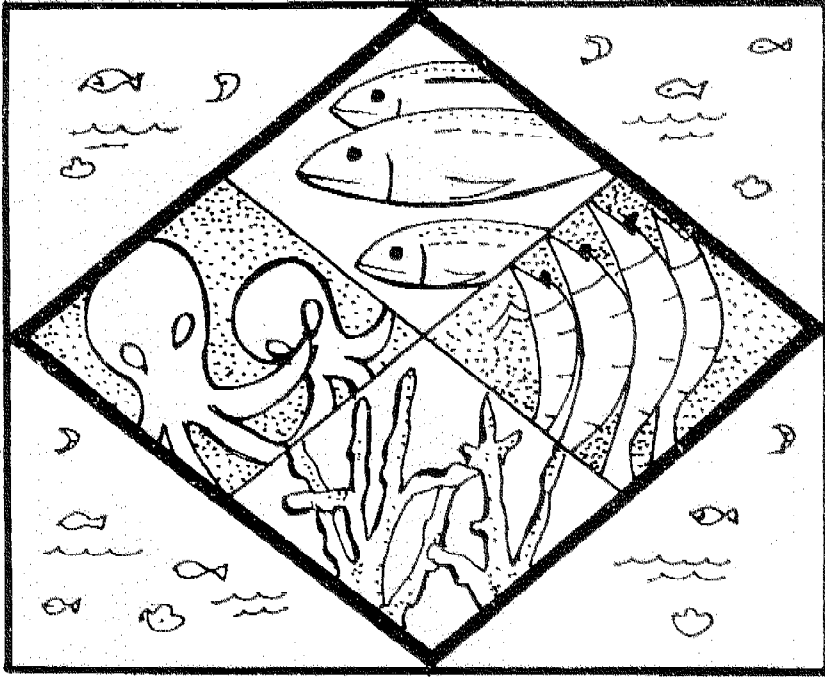


# 1997 PHILIPPINE FISHERIES PROFILE



Republic of the Philippines  
Department of Agriculture  
**BUREAU OF FISHERIES AND AQUATIC RESOURCES**  
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## F O R E W O R D

The Bureau of Fisheries and Aquatic Resources (BFAR) publishes yearly the Philippine Fisheries Profile (PFP) based on the latest available data gathered from the different concerned agencies. This report aims to provide planners, decision-makers, researchers and other users with handy and concise information on Philippine fisheries.

The PFP focuses on the information/data on the Fisheries Contribution to the Philippine Economy, Employment, Fish Production (sector, sub-sector, region, major species), Export and Import Performance and Other Fishery Industry Information (Per Capita Consumption and the Philippine Contribution to Total World Production of Fish and Seaweeds and Wholesale and Retail Prices of Major Commodities). Corresponding summary tables and graphs are also developed to further enhance the presentation of fisheries data and information.

We gratefully acknowledge the support and cooperation of the following agencies in making the data available to BFAR: Bureau of Agricultural Statistics (BAS), National Statistics Office (NSO), National Statistics and Coordination Board (NSCB), Food and Nutrition Research Institute (FNRI) and Food and Agricultural Organization (FAO).

It is hoped that this reference material will serve its purpose to the fullest.



**ARSENIO S. CAMACHO**

Director

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# H I G H L I G H T S

## WORLD SCENARIO: Philippine Fisheries

Twelfth (12th) among the largest fish producer in the world for 1995. Contributed 2.3 million metric tons of fish or 2.0 percent to the total world catch of 112.9 million metric tons (FAO Yearbook, 1995)

Second (2nd) biggest producer of tuna and tuna like fishes in Indian Ocean and South East Asian Region in 1991 with Indonesia and Thailand as the 1st and 3rd biggest producers, respectively.

Fourth (4th) biggest producer of seaweeds and other aquatic plants, contributing 6.0% (0.467 M MT) in the world production of 7.817 million metric tons in 1995. The highest was China, 4.807 million MT or 62% followed by Japan 9.2% 0.720 million metric tons and Korea with a total share of 0.671 million metric tons or 8.6% (FAO Yearbook, 1995).

## FISHERIES CONTRIBUTION TO THE PHILIPPINE ECONOMY (1997)

The fishing industry's contribution to the country's Gross Domestic Products (GDP) of P2,423.6 billion at current prices and P893.0 billion at constant prices were 2.8% (P67.8B) and 3.8% (P34.3B) at current and constant prices respectively.

The industry also accounted for 15.0% (P67.8 B) and 18.6% (34.3 B) of the Gross Value Added (GVA) of P452.5 B and P184.7 B in Agriculture, Fishery and Forestry Sector at current prices and constant respectively, the largest share next to agricultural crops.

## EMPLOYMENT IN THE FISHING INDUSTRY

1. The fishing industry provided employment to about one million or five percent of the country's labor force. In aquaculture, about 26% (258,480) fishfarmers are engaged in different culture methods; municipal contributes 68% (675,677) and commercial fisheries, 6% (56,715).

## PERFORMANCE OF THE FISHING INDUSTRY

1. The average annual growth rate achieved by Philippine fisheries from 1988-1997 was 2.2%. Positive growths of 5.3% and 4.4% were experienced in aquaculture and commercial fisheries respectively but municipal fisheries declined by 1.6%.
2. Output of the fishing industry decline by 0.10% from 2,769,150 mt. in 1996, to 2,766,507 mt. in 1997. Decreased output of -2.4% was recorded in aquaculture fisheries. The slowdown can be attributed to the warm temperature experience during the last quarter of the year. On the other hand, slight increases of 0.6% and 1.7% in commercial and municipal fisheries, respectively, were attained.
3. Production was mainly contributed by aquaculture fisheries, 35% followed by municipal fisheries, 33% and commercial fisheries, 32%.
4. Of the P80.7 billion total value of production in 1997, aquaculture fisheries and municipal fisheries had equal share of 34 % each and commercial fisheries, 32%.

## FISHERIES EXPORT AND IMPORT PERFORMANCE

1. In 1997, fishery exports amounted to P16.337 billion (173,887 MT), an increase of almost 8.1% and 5.6% in value and volume respectively as compared to 1996 of P15.110 billion (164,673 MT).

Shrimp export, which for quite some time has been occupying the number one slot, was replaced by tuna in 1997. Shrimp exports, dropped from a high of 13,514 MT (P3.989 B) in 1996 to 10,532 MT (P3.894 B) in 1997. Shrimp continue to suffer significant setbacks declining by 22% and 2.4% in volume and value respectively as a result of the shrimp disease outbreaks which affected the shrimp industry in the Philippines especially in Western Visayas.

The ten major fishery exports accounted for almost 90% of the total export value of P16.337 B in 1997. Major exports in terms of value in descending order were the following: Tuna, (P5.103 B); shrimp/prawn, (P3.894 B); seaweeds, (P2.762 B). Other products that made it to the top ten were the following: octopus, cuttlefish/squid, crabs/crab fats, cultured pearls, ornamental fish, abalone and trepang.

Foreign buyers of Philippine fish and fishery products in descending orders were the following: Japan, (P5.093 B); U S A, (P3.285 B), Hongkong (P1.172 B); and the rest were: Germany, United Kingdom, Korea, Canada, Singapore, France and South Africa.

Imports of fish and fishery products increased by 12% and 26% in volume and value in 1997. Comprising the bulk of the 1997 fishery imports were: sardines, mackerel and tuna which were used by the local cannaries constitute 53% and fish meal, a vital component of animal feeds was equivalent to almost 41% of the total fishery imports.

Major sources of fishery imports in descending orders were the following: Peru, (P1.474 B); Japan (0.541) Taiwan (P0.469 B); and the rest were : U S A, Chile, Papua New Guinea, Trust Territory of the Pacific Island, Morocco and Korea.



## **I. FISHERY RESOURCES**

## **II. FISHERIES CONTRIBUTION TO THE ECONOMY, 1997**

# Philippine Marine Jurisdictional Boundaries

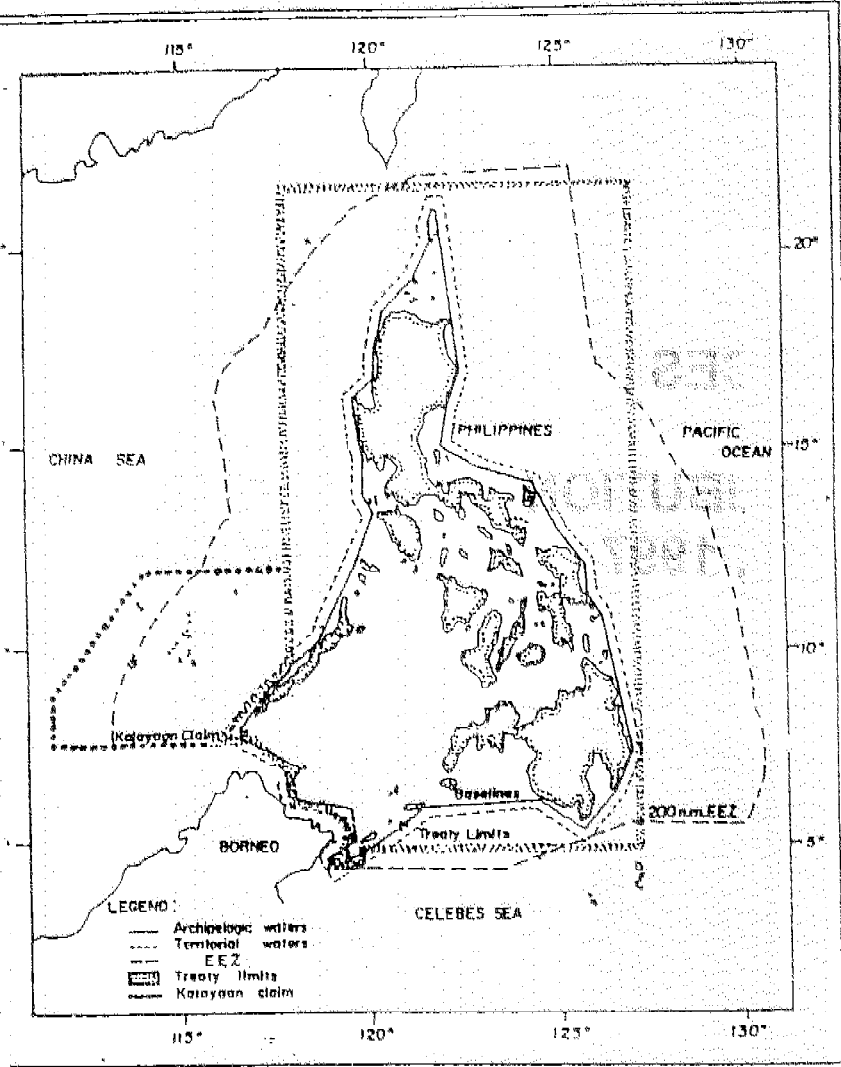


Figure 1

# 1997 PHILIPPINE FISHERIES PROFILE

## I. FISHERY RESOURCES

### A. Marine Resources

1. Total Territorial Water Area (including the EEZ)	220,000,000 ha
a. Coastal	26,600,000 ha
b. Oceanic	193,400,000 ha
2. Shelf Area (Depth 200 m)	18,460,000 ha
3. Coral Reef Area	27,000 sq km
	(Within the 10-20 fathoms where reef fisheries occur)
4. Coastline (length)	17,460 km

### B. Inland Resources

1. Swamplands <sup>1/</sup>	338,393 ha
a. Freshwater	106,328 ha
b. Brackishwater	232,065 ha
2. Existing Fishpond	253,854 ha
a. Freshwater	14,531 ha
b. Brackishwater <sup>2/</sup>	239,323 ha
3. Other Inland Resources	250,000 ha
a. Lakes	200,000 ha
b. Rivers	31,000 ha
c. Reservoirs	19,000 ha

## SHERIES CONTRIBUTION TO THE ECONOMY, 1997

### A. Fisheries Contribution to Total GDP <sup>3/</sup>

1. At Current Prices      2.8 %
2. At Constant Prices    3.8 %

### B. Fisheries Contribution to GVA in Agriculture, Fishery and Forestry by Industry Group <sup>3/</sup>

	At Current Prices (P M)	% to Agri- cultural Sector	At Constant Prices (P M)	% to Agri- cultural Sector
1. Agricultural crops (Palay, corn coconut, etc.)	263,560	58.2	99,973	54.1
2. Livestock	61,368	13.6	22,273	12.1
3. Poultry	36,194	8.0	19,088	10.3
4. Agricultural activities & services	20,907	4.6	7,992	4.3
5. Fishery	67,776	15.0	34,275	18.6
6. Forestry	2,741	0.6	1,112	0.6
TOTAL	452,546	100.0	184,713	100.0

### C. Employment

1. Aquaculture	258,480 persons	<sup>4/</sup>
2. Municipal	675,677 persons	<sup>5/</sup>
3. Commercial	56,715 persons	<sup>4/</sup>
TOTAL	990,872 persons	

### D. Balance of Trade <sup>6/</sup>

	1997			1996		
	Quantity (MT)	FOB Value (P M)	(\$ M)	Quantity (MT)	FOB Value (P M)	(\$ M)
Fishery Exports	173,887	16,337	549.8	164,673	15,110	549.2
Fishery Imports	295,016	4,020	138.1	262,785	3,178	121.0
Balance of Trade	(121,129)	12,317	411.7	(98,112)	11,932	428.2

### E. Total Fish Production, by Sector, 1997 <sup>71</sup>

Sector	Quantity		Value	
	(000 MT)	%	(P.B)	%
1. Aquaculture	957	34.6	27.4	34.0
2. Municipal Fisheries	924	33.4	27.4	34.0
3. Commercial Fisheries	885	32.0	25.9	32.0
TOTAL	2,766	100.0	80.7	100.0

Source: Bureau of Agricultural Statistics

## Fish Production, by Sector 1988-1997 <sup>71</sup>

### 1. Volume of Fish Production (in MT)

Year	Aquaculture	Municipal	Commercial	Total
1997	957,390	924,466	884,651	2,766,507
1996	980,829 R	909,248	879,073	2,769,150 R
1995	919,810 R	972,043	893,232	2,785,085 R
1994	869,083	992,578	859,328	2,720,989
1993	793,620	1,013,969	824,356	2,631,945
1992	736,381	1,084,360	804,866	2,625,607
1991	692,401	1,146,765	759,815	2,598,981
1990	671,116	1,131,866	700,564	2,503,546
1989	629,345	1,104,626	637,138	2,371,109
1988	599,554	1,070,195	599,995	2,269,744

R - revised

**F. Fish Production, by Sector and Region, 1997**  
**(in MT)**

Region	Total	Commercial	Municipal	quaculture	% share to total
NCR	216,130	208,353	3,529	4,248	7.81
CAR	1,417	0	254	1,163	0.05
I	41,308	1,899	18,811	20,598	1.49
II	21,447	6,920	12,171	2,356	0.78
III	121,765	9,432	10,760	101,573	4.40
IV	586,054	109,723	266,418	209,913	21.18
V	119,352	25,708	73,373	20,271	4.31
VI	320,961	121,984	136,535	62,441	11.60
VII	147,989	60,599	44,881	42,509	5.35
VIII	70,842	29,465	37,282	4,095	2.56
IX	414,127	182,759	129,211	102,157	14.97
X	37,440	19,189	16,273	1,978	1.35
XI	135,823	68,272	51,021	16,530	4.91
XII	29,171	9,506	12,140	7,525	1.05
ARMM	433,052	26,717	49,552	356,783	15.65
CARAGA	69,629	4,125	62,254	3,250	2.52
<b>Total</b>	<b>2,766,507</b>	<b>884,651</b>	<b>924,466</b>	<b>957,390</b>	<b>100.00</b>

Source: Bureau of Agricultural Statistics



## 2. Value of Fish Production (in million pesos)

Year	Aquaculture	Municipal	Commercial	Total
1997	27,383	27,393	25,935	80,711
1996	33,206 R	25,373	24,555	83,134 R
1995	33,555 R	26,464	23,065	83,084 R
1994	35,003	24,475	20,714	80,192
1993	30,163	22,031	18,021	70,215
1992	25,986	22,656	16,801	65,443
1991	22,656	22,133	15,245	60,034
1990	20,466	19,300	12,411	52,177
1989	15,673	18,388	11,033	45,094
1988	15,213	16,633	10,272	42,118

## H. Fish Production Trend, 1993-1997

Year	Quantity (M T)	% Increase (Decrease)	Value (000 P)	% Increase (Decrease)
1997	2,766,507	-0.10	80,710,968	-2.92
1996	2,769,150 R	-0.57	83,134,756 R	0.06
1995	2,785,085 R	2.36	83,084,128 R	3.61
1994	2,720,989	3.38	80,192,118	14.21
1993	2,631,945	0.24	70,215,748	7.29

# TOTAL FISH PRODUCTION, BY SECTOR, 1997

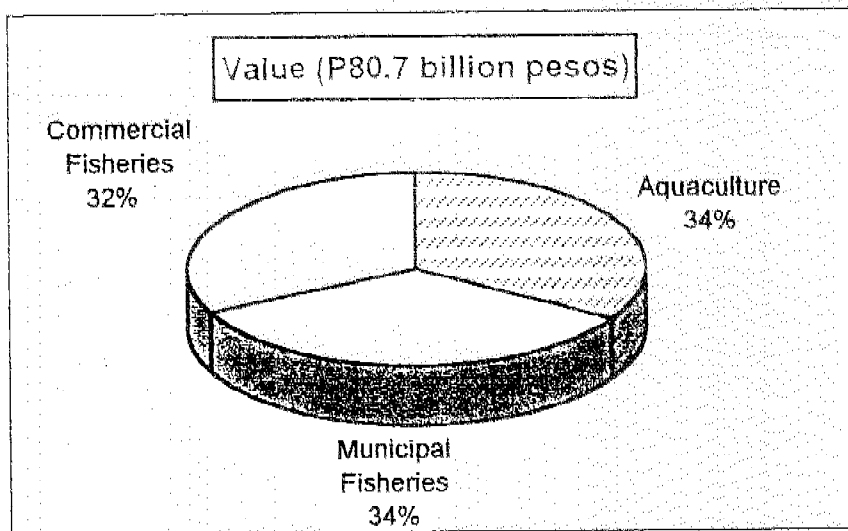
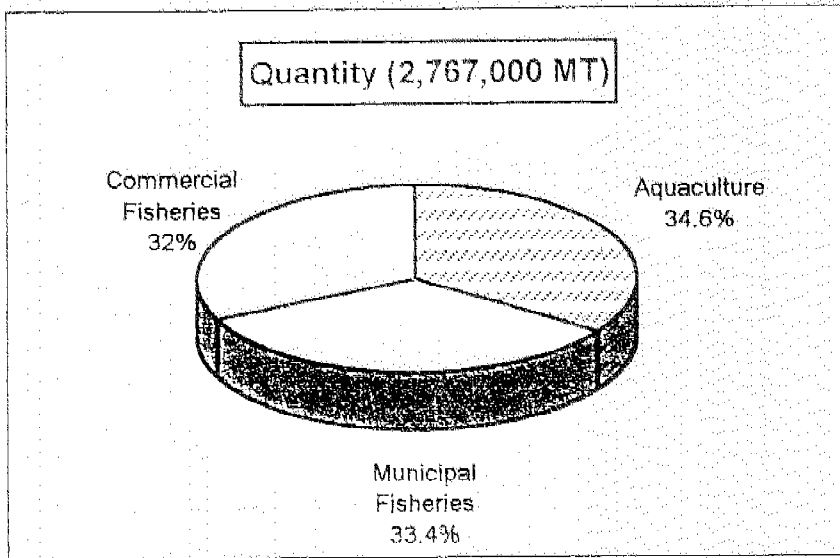
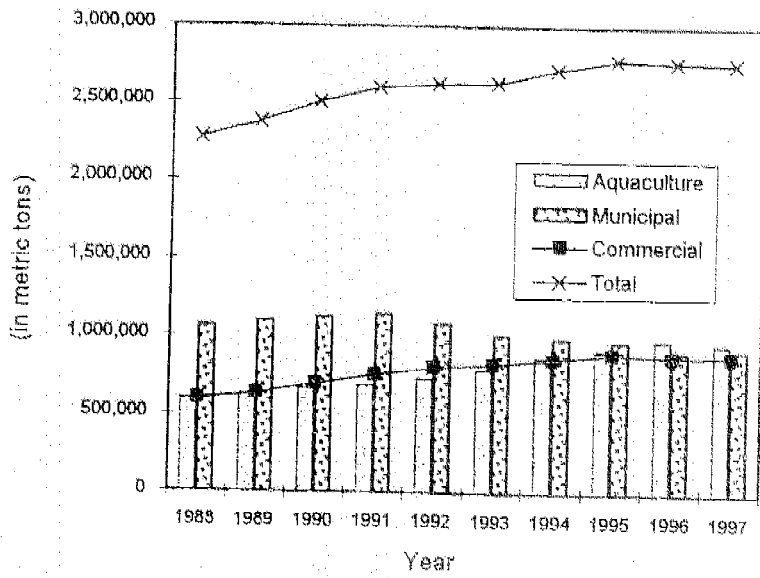


Figure 2

### FISH PRODUCTION, BY SECTOR, 1988-1997



### VALUE OF FISH PRODUCTION, BY SECTOR, 1988-1997

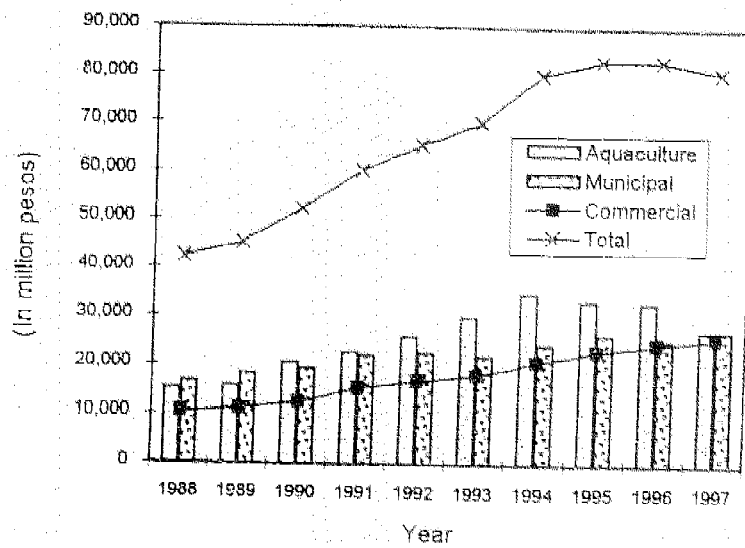


Figure 3



### **III. AQUACULTURE PRODUCTION, 1997**

This includes production from the following:

- Brackishwater fishpond
- Freshwater fishpond
- Fishpen and fishcage in fresh and marine waters
- Mariculture of oyster, mussel and seaweeds

**A. SUMMARY OF AQUACULTURE PRODUCTION,  
BY CULTURE SYSTEM AND REGION, 1997**

Region	Total Aqua- culture	Brackish- water Fishpond	Fresh- water Fishpond	Fresh and Marine water		
				Fishpen	Fishcage	Mariculture
NCR	4,248	3,908	0	177	162	1
CAR	1,163	0	314	0	849	0
I	20,598	15,012	1,831	14	3	3,738
II	2,356	599	1,222	0	530	5
III	101,573	62,429	36,444	80	129	2,491
IV	209,913	13,553	916	19,745	25,715	149,984
V	20,271	2,695	35	0	13,188	4,363
VI	62,441	50,882	174	0	14	11,371
VII	42,509	11,385	1	0	0	31,123
VIII	4,095	1,527	65	0	10	2,493
IX	102,157	11,322	62	11	32	90,730
X	1,978	1,747	191	0	b/	40
XI	16,530	12,421	1,125	84	2,339	561
XII	7,525	7,133	375	0	0	17
XIII	3,250	2,575	22	2	16	635
ARMM	356,783	1,686	16	4	13	355,064
<b>TOTAL</b>	<b>957,390</b>	<b>198,864</b>	<b>42,793</b>	<b>20,117</b>	<b>43,000</b>	<b>652,616</b>

**B. AQUACULTURE PRODUCTION, BY CULTURE SYSTEM,  
SPECIES AND REGION, 1997**

**1. Production from Brackishwater Fishpond (in MT)**

Region	Total	Bangus	Endeavor		
			Sugpo	Prawn	Others *
NCR	3,908	3,830	63	0	15
CAR	0	0	0	0	0
I	15,012	13,536	336	2	1,138
II	599	192	151	2	254
III	62,429	37,476	18,421	2	6,530
IV	13,553	11,673	1,828	10	42
V	2,685	1,323	412	46	904
VI	50,882	47,007	3,381	117	377
VII	11,385	7,479	3,436	455	15
VIII	1,527	1,299	218	0	10
IX	11,322	6,152	4,244	0	926
X	1,747	363	1,382	0	2
XI	12,421	11,355	862	3	201
XII	7,133	2,994	4,107	28	4
XIII	2,575	1,223	1,062	0	290
ARMM	1,686	1,349	199	0	138
<b>TOTAL</b>	<b>198,864</b>	<b>147,251</b>	<b>40,102</b>	<b>665</b>	<b>10,846</b>

Others :

Tilapia (5,939)

White Shrimp (687)

Grouper (496)

Mudcrab (3,710)

Grunt (12)

Siganid (2)

**2. Production from Freshwater Fishpond, 1997  
(in MT)**

Region	Total	Tilapia	Carp	Others *
CAR	314	292	10	12
I	1,831	1,765	2	64
II	1,222	943	18	261
III	36,444	33,338	213	2,893
IV	916	898	11	7
V	35	35	0	0
VI	174	58	2	114
VII	1	1	0	0
VIII	65	60	1	4
IX	62	56	0	6
X	191	183	8	0
XI	1,125	1,063	6	56
XII	375	290	13	72
XIII	22	10	6	6
ARMM	16	13	1	2
<b>TOTAL</b>	<b>42,793</b>	<b>39,005</b>	<b>291</b>	<b>3,497</b>

\* Others

Catfish (1,052)

Mudfish (2,144)

Gourami (132)

Bangus (7)

Not Specified (162)



**3. Production from Fishpen in  
Fresh and Marine Waters, 1997  
(in MT)**

Region	Total	Bangus	Tilapia	Others
NCR	177	170	7	0
CAR	0	0	0	0
I	14	0	3	11
II	0	0	0	0
III	80	16	5	59
IV	19,745	13,981	4,254	1,510
V	0	0	0	0
VI	0	0	0	0
VII	0	0	0	0
VIII	0	0	0	0
IX	11	0	0	11
X	0	0	0	0
XI	84	0	0	84
XII	0	0	0	0
XIII	2	0	0	2
ARMM	4	1	3	0
<b>TOTAL</b>	<b>20,117</b>	<b>14,168</b>	<b>4,272</b>	<b>1,677</b>

**4. Production from Fish Cage in  
Fresh and Marine Waters, 1997  
(in MT)**

Region	Total	Tilapia	Grouper	Others
NCR	162	148	0	14
CAR	849	849	0	0
I	3	1	1	1
II	530	530	0	0
III	129	89	0	40
IV	25,715	25,665	0	50
V	13,188	13,188	0	0
VI	14	0	14	0
VII	0	0	0	0
VIII	10	0	10	0
IX	32	0	12	20
X	0	0	0	0
XI	2,339	2,132	71	136
XII	0	0	0	0
XIII	16	0	1	15
ARMM	13	13	0	0
<b>TOTAL</b>	<b>43,000</b>	<b>42,615</b>	<b>109</b>	<b>276</b>

**C. MAJOR SPECIES PRODUCED IN AQUACULTURE FISHERIES, 1997**

Species	Quantity (MT)	Percent (%)
Seaweeds	627,105	65.5
Bangus (milkfish)	161,419	16.9
Tilapia (cichlid)	91,831	9.6
Shrimps/Prawns	41,454	4.3
Others	35,581	3.7
<b>TOTAL</b>	<b>957,390</b>	<b>100.0</b>

**D. TEN MAJOR LAKES OF THE PHILIPPINES <sup>8/</sup>**

Name of Lakes	Location	Area (ha)
1. Laguna de Bay	Laguna and Rizal	89,076
2. Lake Lanao	Lanao del Sur	34,000
3. Taal Lake	Batangas	24,356
4. Lake Mainit	Surigao del Norte- Agusan	17,430
5. Naujan Lake	Oriental Mindoro	7,899
6. Lake Buluan	Maguindanao	6,134
7. Lake Bato	Camarines Sur	3,792
8. Lake Pagusi	Agusan	2,532
9. Lake Labas	South Cotabato	2,141
10. Lake Lumao	Agusan	1,686
<b>TOTAL</b>		<b>189,046</b>

**5. Production from Mariculture, 1997  
(in MT)**

Region	TOTAL	Oyster	Mussels	Seaweeds
NCR	1	0	1	0
CAR	0	0	0	0
I	3,738	3,738	0	0
II	5	5	0	0
III	2,491	2,491	0	0
IV	149,984	4,096	2,021	143,867
V	4,363	57	1,072	3,234
VI	11,371	3,147	6,137	2,087
VII	31,123	63	0	31,060
VIII	2,493	0	2,423	70
IX	90,730	142	4	90,584
X	40	0	0	40
XI	561	102	0	459
XII	17	0	0	17
XIII	635	12	0	623
ARMM	355,064	0	0	355,064
<b>TOTAL</b>	<b>652,616</b>	<b>13,853</b>	<b>11,658</b>	<b>627,105</b>

#### **IV. MUNICIPAL FISHERIES PRODUCTION, 1997**

This includes fishing done in coastal and inland waters with or without the use of boats of 3 gross tons or less.

**MUNICIPAL FISHERIES PRODUCTION, BY REGION, 1997**  
**(in MT)**

Region	Marine	Inland	Total
NCR	3,529	0	3,529
CAR	0	254	254
I	17,731	1,080	18,811
II	7,409	4,762	12,171
III	6,765	3,995	10,760
IV	146,333	120,085	266,418
V	72,991	382	73,373
VI	134,248	2,288	136,536
VII	44,822	59	44,881
VIII	37,278	4	37,282
IX	128,925	286	129,211
X	16,142	131	16,273
XI	50,034	987	51,021
XII	5,427	6,713	12,140
XIII	57,027	5,227	62,254
ARMM	36,066	13,486	49,552
Total	764,727	159,739	924,466

**D. NUMBER OF MUNICIPAL FISHING BANCAS, BY REGION**

Region	1980 <sup>5/</sup>			1985 <sup>9/</sup>		
	Total	Moto- rized	Non-Moto- rized	Total	Moto- rized	Non-Moto- rized
NCR	3,223	2,463	760	3,553	3,046	507
I	10,894	5,258	5,636	12,720	7,519	5,201
II	6,479	999	5,480	3,085	1,138	1,947
III	16,365	9,378	6,987	21,433	13,685	7,748
IV	53,323	22,290	31,033	54,617	32,232	22,385
V	39,739	10,727	29,012	49,303	18,563	30,740
VI	27,524	8,788	18,736	28,327	12,882	15,445
VII	48,263	9,203	39,060	64,740	21,286	43,454
VIII	43,416	7,598	35,818	40,702	10,782	29,920
IX	44,489	10,088	34,401	113,459	37,208	76,251
X	26,775	7,028	19,747	20,370	9,288	11,082
XI	24,387	7,868	16,519	35,174	18,883	16,291
XII	22,961	3,402	19,559	16,912	7,464	9,448
TOTAL	367,838	105,090	262,748	464,395	193,976	270,419
PERCENT						
%	100%	29%	71%	100%	42%	58%

**C. MARINE MUNICIPAL FISHERIES PRODUCTION,  
BY MAJOR FISHING GROUNDS, 1995  
(in MT)**

Fishing Ground	Total	% to Total
1. Visayan Sea	88,616	11.28
2. Moro Gulf	73,938	9.41
3. East Sulu Sea	71,486	9.10
4. Bohol Sea	70,756	9.01
5. Guimaras Strait	51,332	6.54
6. Leyte Gulf	49,901	6.35
7. West Palawan Waters	46,948	5.98
8. South Sulu Sea	42,019	5.35
9. Lamon Bay	41,862	5.33
10. Samar Sea	40,236	5.12
11. Davao Gulf	33,743	4.30
12. Cuyo Pass	25,587	3.26
13. Tayabas Bay	17,498	2.23
14. Others	131,447	16.74
Total	785,369	100.00



**B. MARINE MUNICIPAL FISH CATCH,  
BY MAJOR FISH SPECIES, 1997  
(in MT)**

Major Species	Total	% to Total
1. Frigate Tuna (Tulingan)	51,899	6.8
2. Fimbrated Sardines (Tunsoy)	45,978	6.0
3. Anchovies (Dilis)	43,160	5.6
4. Pusit (Squid)	41,207	5.4
5. Indian Sardines (Tamban)	38,639	5.1
6. Yellowfin Tuna (Tambakol)	36,387	4.8
7. Roundscad (Galunggong)	32,290	4.2
8. Blue Crabs (Alimasag)	28,786	3.8
9. Big-Eyed Scad (Matangbaka)	28,765	3.8
10. Indian Mackerel (Alumahan)	27,418	3.6
11. Others	390,198	51.0
Total	764,727	100.0

## **V. COMMERCIAL FISHERIES PRODUCTION, 1997**

Fishing with the use of fishing vessels  
more than 3 gross tons.

**A. COMMERCIAL FISHERIES PRODUCTION,  
BY REGION, 1997**

Region	Total (MT)
NCR	208,353
CAR	0
I	1,899
II	6,920
III	9,432
IV	109,723
V	25,708
VI	121,984
VII	60,599
VIII	29,465
IX	182,759
X	19,189
XI	68,272
XII	9,506
XIII	4,125
ARMM	26,717
TOTAL	884,651

**C. COMMERCIAL FISHERIES PRODUCTION,  
BY MAJOR FISHING GROUNDS, 1995**

Fishing Ground	Total (MT)	%
1. West Palawan Waters	187,728	21.02
2. South Sulu Sea	180,532	20.21
3. Visayan Sea	120,267	13.46
4. Moro Gulf	83,352	9.33
5. Lamon Bay	55,325	6.19
6. International Waters	44,140	4.94
7. Bohol Sea	36,161	4.05
8. Samar Sea	25,602	2.87
9. Manila Bay	25,046	2.80
10. Guimaras Strait	24,163	2.71
11. Sibuyan Sea	20,065	2.25
12. East Sulu Sea	18,994	2.13
13. Tayabas Bay	17,140	1.92
14. Others	54,717	6.13
Total	893,232	100.00

**B. COMMERCIAL FISHERIES PRODUCTION,  
BY MAJOR FISH SPECIES, 1997**

Major Species	Total (MT)	%
1. Roundscad (Galunggong)	196,588	22.2
2. Indian Sardines (Tamban)	153,523	17.4
3. Skipjack (Gulyasan)	85,359	9.6
4. Fimbrated Sardines (Tunsoy)	58,610	6.6
5. Frigate Tuna (Tulingan)	56,595	6.4
6. Anchovies (Dilis)	35,518	4.0
7. Slipmouth (Sapsap)	35,410	4.0
8. Yellowfin Tuna (Tambakol)	30,955	3.5
9. Indian Mackerel (Alumahan)	25,765	2.9
10. Big-eyed scad (Matangbaka)	25,402	2.9
11. Other Species	180,926	20.5
Total	884,651	100.0

**D. NUMBER OF COMMERCIAL FISHING VESSEL  
BY REGION, 1997** <sup>10/</sup>

Region	Number	Gross Tonnage
NCR	1,193	136,068.71
I	73	1,286.88
II	62	1,301.11
III	35	980.78
IV	158	2,761.65
V	118	3,567.23
VI	445	30,573.23
VII	92	2,329.98
VIII	97	1,409.87
IX	302	17,794.88
X	46	1,215.91
XI	553	33,533.83
XII	5	84.01
XIII	21	272.03
ARMM	11	316.52
Total	3,211	233,496.62

## **VI. EXTERNAL TRADE**

## A. EXPORTS

### I. Exports of Fish and Fishery Products, by Kind, Quantity and Value, 1997

Kind	Quantity (MT)	FOB Value	
		(P 000)	(\$ 000)
Fish Crustaceans, Mollusks, Etc. and Preparation	130,368	13,027,518	436,835
a. Fish fresh (live or dead) chilled or frozen	38,355	2,006,088	66,454
b. Fish, dried, salted or in brine, smoked fish	754	113,695	3,845
c. Crustaceans, mollusks and aquatic invertebrates	30,817	6,614,592	220,974
d. Fish and other aquatic invertebrate, prepared/ preserved	60,442	4,293,143	145,562
Shells and By-Products	2,226	514,298	16,744
Miscellaneous and Other Fishery Products	41,293	2,795,533	96,252
GRAND TOTAL	173,887	16,337,349	549,831



## 2. Major Fishery Exports in Terms of Value, 1997

Commodity/Kind	Quantity (MT)	FOB Value (P 000)	FOB Value (\$ 000)
1. Tuna	79,114	5,103,104	171,716
Fresh/chilled/frozen	22,755	1,094,074	35,639
Smoked	196	53,608	1,745
Canned	56,163	3,955,422	134,332
2. Shrimp/Prawn	10,532	3,894,376	129,036
Fresh/chilled/frozen	10,273	3,818,046	126,427
Other than frozen	259	76,330	2,609
3. Seaweeds	40,848	2,761,647	95,098
Seaweeds & other Algae, nes	27,662	958,478	33,393
Seaweeds & algae for food	111	6,806	238
Carrageenan	12,575	1,791,687	61,306
Kelp powder	500	4,676	161
4. Octopus	10,416	1,160,905	39,655
Fresh/chilled	n	48	1
Frozen/dried/salted	10416	1160857	39654
5. Cuttlefish/squid	2,494	511,117	16,901
Fresh/chilled	24	1,619	56
Frozen/dried/salted	2,442	505,992	16,738
Prepared/preserved	28	3,506	107

Commodity/Kind	Quantity (MT)	FOB Value (P 000)	FOB Value (\$ 000)
6. Crabs/crabs fat	3,450	421,004	14,016
Frozen	3,376	392,704	13,123
Other than frozen	1	319	12
Prepared/preserved	73	27,981	881
7. Cultured pearls, worked	n*	308,731	9,794
8. Ornamental fish, live	5,842	214,261	7,315
9. Abalone	452	168,010	5,665
Frozen/dried/salted	346	137,819	4,640
Prepared/preserved	106	30,191	1,025
10. Trepang, frozen, dried, salted in brine	1,297	134,735	4,504
Total major commodities	154,445	14,677,890	493,700
Total of other commodities	19,442	1,659,459	56,131
Grand Total	173,887	16,337,349	549,831

Source of data: National Statistics office (NSO)

\* 369 gross kilos

### 3. Major Destinations of Top Three Fishery Exports, by Kind, Quantity and Value, 1997

Commodity/Kind	Quantity (MT)	FOB Value (P 000)	FOB Value (\$ 000)
1. Tuna	79,114	5,103,104	171,716
Fresh/chilled/frozen	22,755	1,094,074	35,639
Japan	13,269	611,635	20,100
Thailand	5,841	170,907	5,045
U S A	1,018	148,369	5,047
Others	2,627	163,163	5,447
Smoked	196	53,608	1,745
U S A	145	44,234	1,408
Japan	39	7,525	273
South Africa	9	1,180	43
Others	3	669	21
Canned	56,163	3,955,422	134,332
U S A	17,370	1,154,088	39,403
Germany	10,528	726,925	24,594
Canada	5,146	371,119	12,858
Others	23,119	1,703,290	57,477
2. Shrimp/Prawn	10,532	3,894,376	129,036
Fresh/chilled/frozen	10,273	3,818,046	126,427
Japan	7,205	2,843,789	93,319
U S A	952	381,485	12,618
Korea	1,059	290,874	10,480
Others	1,057	301,898	10,010
Other than frozen	259	76,330	2,609
Japan	258	76,225	2,605
Others	1	105	4

Commodity/Kind	Quantity (MT)	FOB Value (P 000)	FOB Value (\$ 000)
3. Seaweeds	40,848	2,761,647	95,098
Seaweeds & other Algae	27,662	958,478	33,393
Denmark	3,377	159,543	5,622
U S A	3,066	122,721	4,241
France	4,974	114,544	4,133
Others	16,245	561,670	19,397
Seaweeds & algae for fo	111	6,806	238
Japan	54	3,908	134
Okinawa	27	2,186	77
U S A	30	695	26
Others	n	17	1
Carrageenan	12,575	1,791,687	61,306
U S A	1,982	340,214	11,513
United Kingdom	3,056	300,101	10,491
France	1,024	207,331	6,782
	6,513	944,041	32,520
Kelp powder	500	4,676	161
Japan	500	4,676	161
Total major commodities	130,494	11,759,127	395,850
Total other commodities	43,393	4,578,222	153,981
Grand Total	173,887	16,337,349	549,831

Source of data: National Statistics Office (NSO)

**4. Fishery Exports, by Major Country of Destination  
in Terms of Value, 1997**

Country/Destination	Quantity (MT)	FOB Value (P 000)	FOB Value (\$ 000)
Japan	32,786	5,093,505	168,718
U S A	37,324	3,285,437	111,366
Hongkong	13,029	1,172,188	39,069
Germany	12,498	930,260	31,623
United Kingdom	8,968	767,875	26,212
Korea	5,629	505,242	17,955
Canada	6,295	503,286	17,414
Singapore	5,238	400,104	13,766
France	6,374	342,901	11,574
South Africa	4,330	328,032	11,123
Total Major Countries	132,471	13,328,830	448,820
Other Countries	41,416	3,008,519	101,011
Grand Total	173,887	16,337,349	549,831

Source of data: National Statistics Office (NSO)

### MAJOR FISHERIES EXPORT IN TERMS OF VALUE, 1997

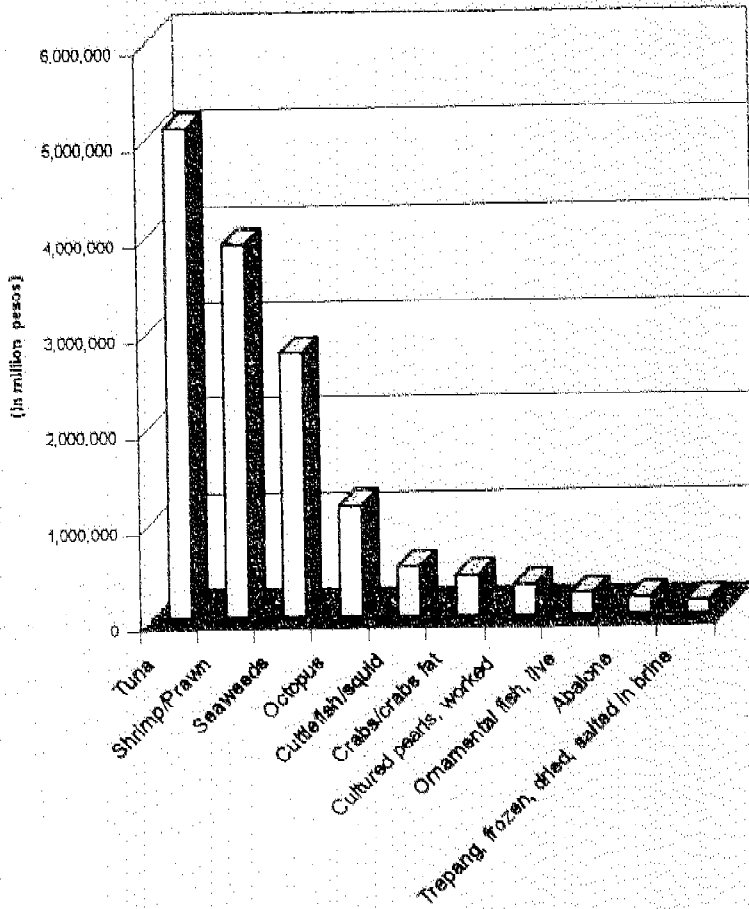


Figure 4

## 2. Major Fishery Imports in Terms of Value, 1997

COMMODITY/KIND	QUANTITY (MT)	FOB VALUE (P 000)	FOB VALUE (\$ 000)
1. Chilled frozen fish	157,639	1,761,533	60,223
a) Tuna	53,767	884,719	31,498
Japan	12,732	237,641	8,031
Papua New Guinea	10,890	165,330	6,115
Others	30,145	481,748	17,352
b) Sardines	9,454	70,706	2,345
Hongkong	2,554	20,048	598
Morocco	3,100	19,047	722
Others	3,800	31,611	1,025
c) Mackerel	94,418	806,108	26,380
China, (Taiwan)	37,301	300,496	10,402
Japan	28,682	253,718	8,125
Others	28,435	251,894	7,853
2. Fish Meal	120,056	1,864,472	64,257
Peru	95,241	1,471,443	50,787
Chile	12,130	183,405	6,520
Others	12,685	209,624	6,950
Total major imports	277,695	3,626,005	124,480
Other Commodities	17,321	394,371	13,640
Grand Total	295,016	4,020,376	138,120

## B. IMPORTS

### 1. Imports of Fish and Fishery Products, by Kind, Quantity and Value, 1997

Commodity	Quantity (MT)	FOB Value	
		(P 000)	(\$ 000)
Fresh/Frozen/Chilled	161,297	1,884,266	64,499
Flour, Meals & Pellets of Fish Crustaceans and Mollusks Unfit for Human Consumption	120,056	1,864,472	64,257
Canned	1,932	69,135	2,406
Salted, Dried, Smoked, etc.	8,656	95,203	3,295
Other Commodities	3,075	107,300	3,970
GRAND TOTAL	295,016	4,020,376	138,120



**3. Fishery Imports, by Major Country Of Origin  
in Terms of Value, 1997**

Major Countries	QUANTITY (MT)	FOB VALUE (P 000)	FOB VALUE (\$ 000)
Peru	95,368	1,473,751	50,865
Japan	45,353	541,594	17,867
China (Taiwan)	46,727	468,868	16,993
U S A	17,110	277,185	9,391
Chile	12,613	198,724	7,085
Papua New Guinea	10,890	165,330	6,115
Trust Territory . .	9,987	159,094	5,580
Morocco	14,042	124,634	3,819
Korea	9,784	93,508	3,392
Total major countries	261,874	3,502,688	121,107
Other Countries	33,142	517,688	17,013
Grand Total	295,016	4,020,376	138,120

## **VII. OTHER FISHERIES INFORMATION**

**A. PER CAPITA FOOD CONSUMPTION, PHILIPPINES,  
1993 <sup>11/</sup>**

Food Group/Subgroup	Consumption (Raw, As Purchased) *		% of Total Food Intake
	kg/yea	g/day	
<u>Cereals and Cereal Products</u>	<u>124</u>	<u>340</u>	<u>42.3</u>
Rice and Products	103	282	35.1
Corn and Products	13	36	4.5
Other Cereals and Products	8	22	2.7
<u>Starchy Roots and Tubers</u>	<u>6</u>	<u>17</u>	<u>2.1</u>
<u>Sugar and Syrups</u>	<u>7</u>	<u>19</u>	<u>2.4</u>
<u>Fats and Oils</u>	<u>4</u>	<u>12</u>	<u>1.5</u>
<u>Fish, Meat and Poultry</u>	<u>54</u>	<u>147</u>	<u>18.3</u>
Fish and Products	36	99	12.3
Meat and Products	12	34	4.2
Poultry	5	14	1.7
<u>Eggs</u>	<u>4</u>	<u>12</u>	<u>1.5</u>
<u>Milk and Milk Products</u>	<u>16</u>	<u>44</u>	<u>5.5</u>
Whole Milk	13	35	4.4
Milk Products	3	9	1.1
<u>Dried Beans, Nuts and Seeds</u>	<u>4</u>	<u>10</u>	<u>1.2</u>
<u>Vegetables</u>	<u>39</u>	<u>106</u>	<u>13.2</u>
Green Leafy and Yellow Vegetables	11	30	3.7
Other Vegetables	28	76	9.5
<u>Fruits</u>	<u>28</u>	<u>77</u>	<u>9.6</u>
Vitamin C-Rich Fruits	8	21	2.6
Other Fruits	20	56	7
<u>Miscellaneous</u>	<u>7</u>	<u>19</u>	<u>2.4</u>
Beverages	3	9	1.1
Condiments and Others	4	11	1.4

\* As available in the kitchen including inedible and edible wastage.

**B. PER CAPITA FOOD CONSUMPTION OF FISH AND FISHERY PRODUCTS, 1993 <sup>11/</sup>**

Fish and Other Products		Total (Kg/Year)
1.	FISH	36
1.1	Fresh Fish	24
	Tulingan	4
	Bangus	1
	Galunggong	4
	Dilis, Buo	1
	Alumahan	1
	Tamban	2
	Dalagang Bukid	n
	Sapsap	1
	Bisugo	1
	Tilapia	1
	Albakora/Tambakol	1
	Balila/Espada	n
	Hasa-hasa	n
	Lapu-lapu	n
	Matangbaka	1
	Maya-Maya	n
	Salay-salay	n
	Silinyasi/Tunsoy	n
	Tanigue	n
	Others (fresh fish & cooked fish recip	4
1.2	Dried Fish (as fresh fish)	4
1.3	Processed Fish *	4
	Bagoong (as fresh fish)	1
	Patis	n
	Canned Fish (sardines, mackerel, sa	2
	Smoked Fish (all tinapa type)	1
1.4	Crustaceans and Mollusks	4
	Shrimp (all type)	n
	Crabs	1
	Squid/Octopus	1
	Tahong	1
	Others ( as fresh)	1
	Dried and Processed (as fresh)	n
	Bagoong (as fresh)	n

**Notes:**

1. Raw as purchased weight or as available in the kitchen including inedible and edible waste.
2. Breakdown don't add up to total due to roundings
3. N - negligible (less than 0.5 grams)

2. PRODUCTIVE AREA IN AQUACULTURE FISHERIES,  
 BY CULTURE SYSTEM AND REGION, 1995\* <sup>71</sup>  
 (in ha)

Region	Total Aquaculture	Fishpond		Fishpen in Fresh & Marine Water	Fishcage in Fresh & Marine Water	Mariculture		
		Brackish Water	Fresh Water			Oyster	Mussel	Seaweed
ICR	4,395.30	4182	0.00	196.88	3.53		12.89	
VAR	112.22	0	65.03		47.19			
	9,619.00	8726	797.46	1.35	2.00	92.19		
	1,874.68	1367	490.32		12.87	4.49		
I	38,884.44	34368	4,427.44	5.06	32.28	51.86		
V	14,668.48	10168	73.39	3,992.38	365.23	8.13	24.81	36.54
	6,312.59	5433	25.37		541.04	0.24	30.92	282.02
T	29,862.23	29393	84.03		0.37	58.20	283.26	43.37
II	6,083.15	5689	10.59			2.15	0.10	381.31
III	2,469.42	2433	5.29				28.22	2.91
<	29,286.66	27304	15.04	5.86		9.84	0.78	1,951.15
	932.92	919	11.91		0.01			2.00
I	6,002.04	5299	316.91	4.15	354.92	1.09		25.97
II	3,518.23	3338	176.23				0.25	3.75
III	3,524.56	3501	20.03		0.15			3.38
RMM	4,688.62	1077	3.67	0.15	9.36			3,598.44
TOTAL	162,234.54	143,197	6,522.71	4,205.83	1,368.95	227.98	381.22	6,330.84

This refers to the area being utilized during the reference period.

**D. NOMINAL CATCHES OF FISH, CRUSTACEANS AND MOLLUSCS, BY MAJOR PRODUCERS, 1995** <sup>12/</sup>

Country	Production (000 MT)	% Share to Total
1. China	24,433	21.6
2. Peru	8,943	7.9
3. Chile	7,591	6.7
4. Japan	6,758	6.0
5. U S A	5,634	5.0
6. India	4,904	4.3
7. Indonesia	4,374	3.9
8. Russian Fed.	4,118	3.6
9. Thailand	3,502	3.1
10. Korea D P Rp	2,808	2.5
11. Norway	2,688	2.4
12. Philippines	2,269	2.0
13. Others	34,888	30.9
World Total	112,910	100.0

Source of data: FAO Yearbook, 1995.

**E. PRODUCTION OF SEAWEEDS AND OTHER AQUATIC PLANTS, BY PRINCIPAL PRODUCERS, 1995 <sup>12/</sup>**

Country	Production (000 MT)	% Share to Total
1. China	4,807	61.5
2. Japan	720	9.2
3. Korea Rep	671	8.6
4. Philippines	467	6.0
5. Chile	299	3.8
6. Norway	185	2.4
7. Korea D P Rp	130	1.7
8. Indonesia	117	1.5
9. Others	421	5.4
World Total	7,817	100.0

Source of data: FAO Yearbook, 1995

**F. PRICES OF SELECTED FISH SPECIES,  
PHILIPPINES, 1997 <sup>71</sup>**

Species	Wholesale	Retail
1. Alumahan	47.9	60.88
2. Bangos	59.55	74.55
3. Bisugo	53.25	75.66
4. Dalagang-bukid	54.7	76.43
5. Dilis	28.12	44.14
6. Espada	54.79	-
7. Galunggong	31.93	44.97
8. Kalaso	33.57	-
9. Hipon	153.24	-
10. Lapu-lapu	119.96	-
11. Sapsap	28.3	58.93
12. Sugpo	233.06	274.04
13. Talakitok	79.47	-
14. Tamban	14.33	-
15. Tilapia	41.37	58.62
16. Tulingan	35.27	46.29



## FOOTNOTES

### Sources of Data:

- 1/ 1984 Philippine Forestry Statistics
- 2/ 1992 Fishery Statistics, Bureau of Agricultural Statistics (BAS)  
This refers to fishpond area acquired by the operator whether utilized or not during the reference period. This includes nursery and transition ponds and undeveloped areas.
- 3/ National Accounts of the Philippines as of May, 1996  
National Statistical Coordination Board (NSCB)
- 4/ 1987 Fisheries Statistics, Bureau of Fisheries and Aquatic Resources (BFAR)
- 5/ 1980 Census of Fisheries  
National Statistics Office (NSO)
- 6/ Fisheries Statistics Section, BAS
- 7/ Lakes and Reservoirs, State of the Art Series, report no. 1, PCARRD.
- 8/ Regional Fish Expanded Program and Provincial Fisheries Data  
Regulatory and Quarantine Division
- 9/ Department of Science & Technology (DOST)  
Fourth National Nutrition Survey, Phil. 1993
- 10/
- 11/
- 12/ FAO Yearbook, 1995

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