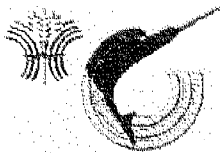
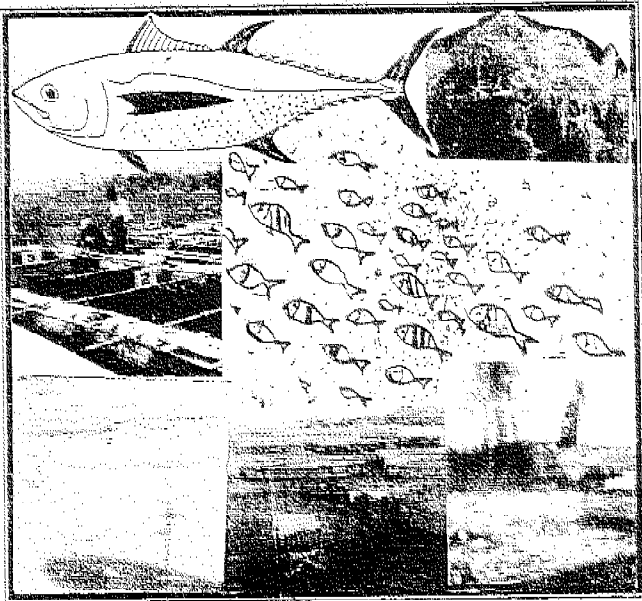


PHILIPPINE FISHERIES PROFILE, 2000



Republic of the Philippines
Department of Agriculture
BUREAU OF FISHERIES AND AQUATIC RESOURCES

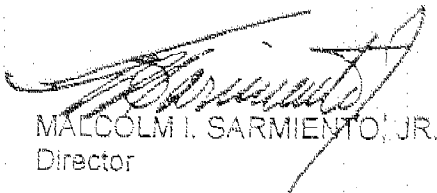
FOREWORD

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 such as per capita food consumption, the Philippine contribution to total world production of fish and seaweeds, and the 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.



MALCOLM I. SARMIENTO, JR.
Director

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HIGHLIGHTS

WORLD SCENARIO: Philippine Fisheries

1. The Philippines is twelfth (12th) among the fifty-four (54) top fish producing countries with production of 200,000 metric tons or more in 1998, contributing 1.8 million metric tons of fish or 2.1 percent to the total world catch of 86.3 million metric tons (FAO Yearbook, 1998);
2. Twelfth (12th) in the world aquaculture production of fish, crustaceans, mollusks, etc. by principal producers in 1998, contributing a total of 0.312 million metric tons valued at 0.598 million dollars or 1.0 percent and 1.3 percent to total world aquaculture production amounting to 30.863 million metric tons and 47.081 million dollars respectively (FAO Aquaculture Production Statistics, 1989-1998); and
3. Second (2nd) biggest producer in world aquaculture production of aquatic plants (including seaweeds) contributing 7.5% or 0.643 million metric tons of the world total production of 8.568 million metric tons in 1998. Leading was China, mainland 6.277 million metric tons or 73.3%. Other principal producers are the following: Japan 6.1%; Korea Rep., 5.5%; Korea D P Rp 4.8%; Indonesia 1.4%; and Chile 0.8% while other countries contributed 0.6% (FAO Aquaculture Production Statistics, 1989-1998).
4. The fishing industry's contribution to the country's Gross Domestic Products (GDP) of P3,323 billion at current prices and P954 billion at constant prices were 2.3% (P76.4 B) and 3.7% (P35.8 B) at current and constant prices respectively.
5. The industry also accounted for 14.5% (P76.4 B) and 18.8% (35.8 B) of the Gross Value Added (GVA) in Agriculture, Fishery and Forestry Group of P526.1 B and P190.6 B at current and constant prices respectively, the largest share next to agricultural crops.

EMPLOYMENT IN THE FISHING INDUSTRY

1. The 1990 Census of Population and Housing conducted by the National Statistics Office (NSO) indicated that the fishing industry provided employment to about one million or twelve percent of the agriculture, fishery and forestry sector labor force estimated at 6,589,176 persons. In aquaculture, about 9.2% (74,537) fishfarmers were engage in different culture methods; municipal contributed 46.4% (374,408) and commercial fisheries, 44.4% (357,984).

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2. Tuna as the top dollar earner since 1997 was replaced by shrimp/prawn in 2000. This was mainly due to the 13.4% increase in shrimp/prawn export while 6.6% decline in tuna export was recorded. Shrimp/prawn export contributed \$144.7 million or 28.6% to total export followed by tuna, \$128.3 million or 25.3% and seaweed, \$ 85.1 million or 16.8% or a total share of 70.7% to total export of fish and fishery products.
3. Major fishery exports in terms of value are the following: shrimp/prawn (\$144.7 M), tuna (\$128.3 M), seaweeds (\$85.1 M), octopus (\$24.5 M), crab/crab fat (\$19.1 M), lapu-lapu (\$13.6 M), cultured pearls, worked (\$12.0 M), cuttlefish/squid (\$7.8 M), ornamental fish (\$6.7 M), and lobster (\$4.3 M). These products amounted to \$446.1 million or a total share of 88% to total exports for 2000.
4. Major destinations of the Philippine fish and fishery products in descending order were the following: Japan, (31.3%); U S A, (21.6%); Hongkong, (11.6%); Singapore, (3.8%); Korea, (3.0%); United Kingdom, (2.9%); Denmark, (2.8%); Canada, (2.4%); France, (2.4%); Taiwan, (2.2%) and the rest or 16.0% was contributed by other countries.
5. Of the total \$93.8 M imports of fish and fishery products in 2000, 75.3% were accounted for by two products, chilled frozen fish, \$41.7 M (44.4%) and fish meal, \$29.0 M (30.9%).

Chilled/frozen fish was comprised of frozen tuna for canning and export, and sardines and mackerel for canning and domestic consumption. Major suppliers of these commodities were, for chilled/frozen tuna: Indonesia (47.3%); Taiwan (22.8%); for sardines: Canary Island (28.9%); Spain (25.3%); and, for mackerel; Korea (44.7%), U S A (21%).

Fishmeal, a vital component of animal feeds, was mainly supplied by Peru (79.1%) and Chile (8.9%).

6. In terms of total fishery import value, the major sources in descending order were the following: Peru, (25.6%); U S A, (14.2%); Indonesia, (9.45%); Taiwan, (7.5%); Korea, (7.0%); Chile, (4.0%); Canary Island, (3.6%); Spain, (3.3%); Denmark, (2.6%); and Singapore, (2.3%), and the rest or 20.5% was supplied by other countries.

I. FISHERY RESOURCES

II. FISHERIES CONTRIBUTION
TO THE ECONOMY, 2000

Philippine Marine Jurisdictional Boundaries

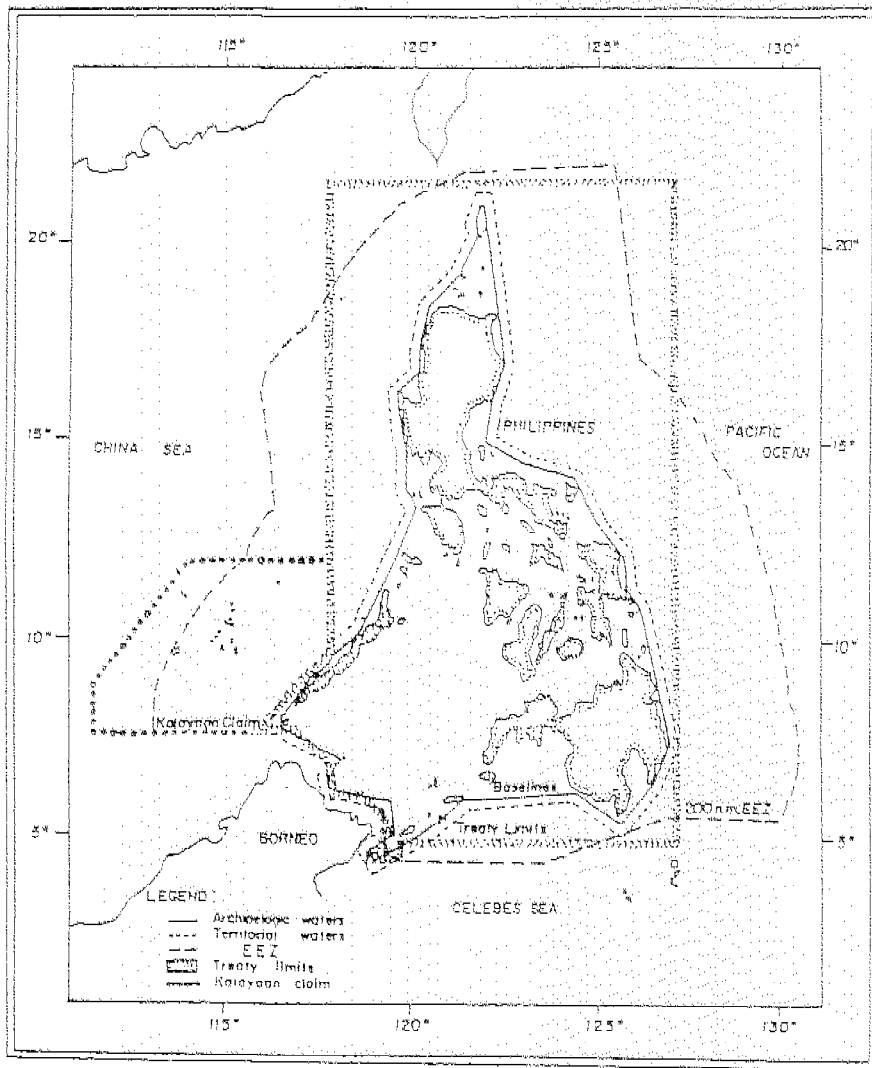


Figure 1.

2000 PHILIPPINE FISHERIES PROFILE

I. FISHERY RESOURCES

A. Marine Resources

1. Total Territorial Water Area (including the EEZ)	2,200,000 sq. km.
a. Coastal	266,000 sq. km.
b. Oceanic	1,934,000 sq. km.
2. Shelf Area (Depth 200 m)	184,600 sq. km.
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	246,063 ha
a. Freshwater	106,328 ha
b. Brackishwater ¹⁾	139,735 ha
2. Existing Fishpond	253,854 ha
a. Freshwater	14,531 ha
b. Brackishwater ²⁾	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

II. FISHERIES CONTRIBUTION TO THE ECONOMY, 2000

A. Fisheries Contribution to Total GDP ^{3/}

1. At Current Prices	2.3%
2. At Constant Prices	3.7%

B. Fisheries Contribution to GVA in Agriculture, Fishery and Forestry by Industry Group ^{3/}

Industry Group	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.)	309,746	58.9	100,202	52.6
2. Livestock	72,114	13.7	24,783	13.0
3. Poultry	40,434	7.7	20,504	10.8
4. Agricultural activities	24,028	4.6	8,006	4.2
5. Fishery	76,382	14.5	35,760	18.8
6. Forestry	3,383	0.6	1,372	0.7
TOTAL	526,087	100.0	190,627	100.0

E. Total Fish Production, by Sector, 2000 ^{B/}

Sector	Quantity (000 MT)	%	Value (P B)	%
1. Aquaculture	978	34.1	29.1	30.5
2. Municipal Fisheries	944	32.9	32.5	34.0
3. Commercial Fisheries	946	33	33.9	35.5
TOTAL	2,868	100.0	95.5	100.0

C. Employment ^{4/}

1. Aquaculture	74,537 persons
2. Municipal	374,408 persons
3. Commercial	357,984 persons
TOTAL	806,929 persons

D. Balance of Trade ^{5/}

	2000			1999		
	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)
Fishery Exports	199,719	20,422.8	506.8	173,051	19,345	480.0
Fishery Imports	242,464	3,847.5	93.8	255,066	4,399	107.3
Trade Balance	(42,745)	16,575.3	413.0	(82,015)	14,946	372.7

F. Fish Production, by Sector and Region, 2000
(in MT)

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	142,849	3,982	1,050	147,881	5.16
CAR	0	1,075	1,581	2,656	0.09
I	2,250	23,392	30,258	55,900	1.95
II	14,130	17,037	3,380	34,547	1.20
III	12,286	11,176	112,922	136,384	4.75
IV	134,849	257,835	216,742	609,426	21.24
V	21,732	73,803	18,281	113,816	3.97
VI	130,486	134,227	91,574	356,287	12.42
VII	64,109	47,482	19,179	130,770	4.56
VIII	32,497	37,203	4,408	74,109	2.58
IX	186,224	122,479	117,240	406,943	14.15
X	21,207	17,079	2,384	40,650	1.42
XI	147,592	48,119	16,271	211,982	7.39
XII	10,883	19,673	10,152	40,688	1.42
XIII	4,925	66,599	5,014	76,538	2.66
ARMM	40,586	62,790	327,752	431,128	15.03
Total	946,485	943,951	978,159	2,868,605	100.00

G. Fish Production, by Sector 1991-2000 ⁷⁷

1. Volume of Fish Production (in MT)

Year	Aquaculture	Municipal	Commercial	Total	
2000	978,169	943,951	946,485	2,868,605	P
1999	948,995	924,693 R	948,754	2,822,442	R
1998	954,656	891,146	940,533	2,786,335	
1997	957,390	942,466	884,651	2,766,507	
1996	980,829	909,248	879,073	2,769,150	
1995	919,810	972,043	893,232	2,785,085	
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	

P - Preliminary

R - Revised

2. Value of Fish Production (in million pesos)

Year	Aquaculture	Municipal	Commercial	Total
2000	29,078	32,515	33,878	95,471 P
1999	26,810	30,977 R	32,242	90,029 R
1998	26,161	28,966	29,737	84,864
1997	27,383	27,393	25,935	80,711
1996	33,206	25,373	24,555	83,134
1995	33,556	26,464	23,065	83,084
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

P - Preliminary R - Revised

H. Five -Year Fish Production Trend, 1996-2000

Year	Quantity (M T)	% Increase/ (Decrease)	Value (000 P)	% Increase (Decrease)
2000	2,868,605 P	1.64	95,470,969 P	6.04
1999	2,822,442 R	1.30	90,029,033 R	6.09
1998	2,786,335	0.72	84,864,572	5.15
1997	2,766,507	0.09	80,710,968	-2.91
1996	2,769,150	-0.57	83,134,758	0.06

TOTAL FISH PRODUCTION, BY SECTOR, 2000

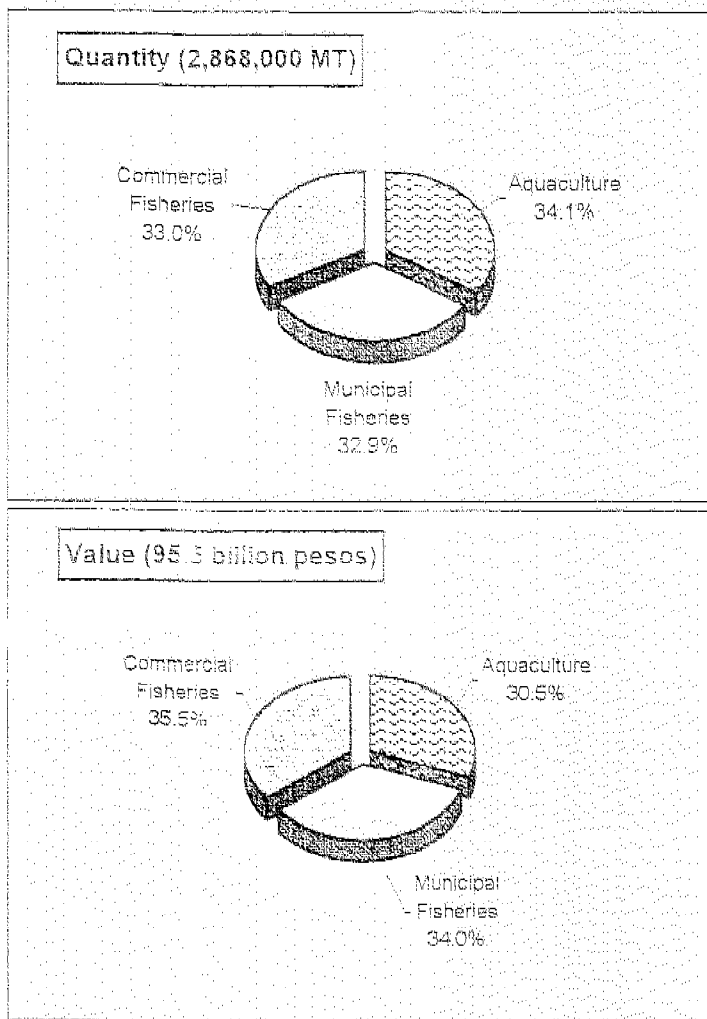
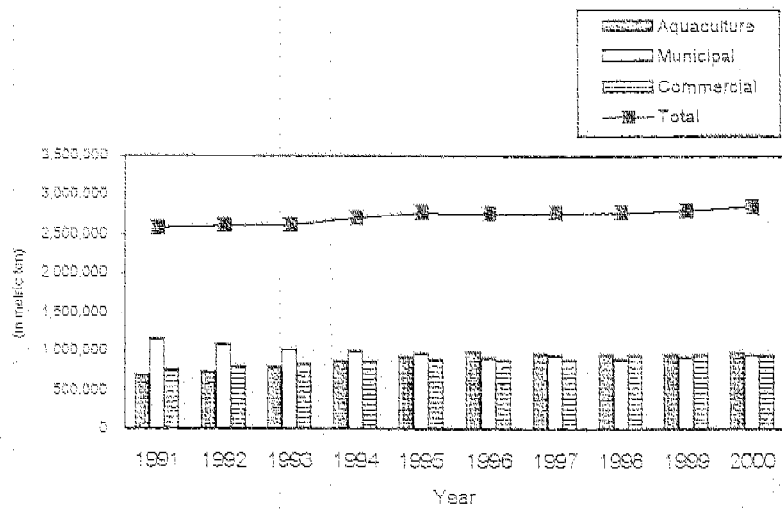


Figure 2

VOLUME OF FISH PRODUCTION, BY SECTOR 1991-2000



VALUE OF FISH PRODUCTION, BY SECTOR 1991-2000

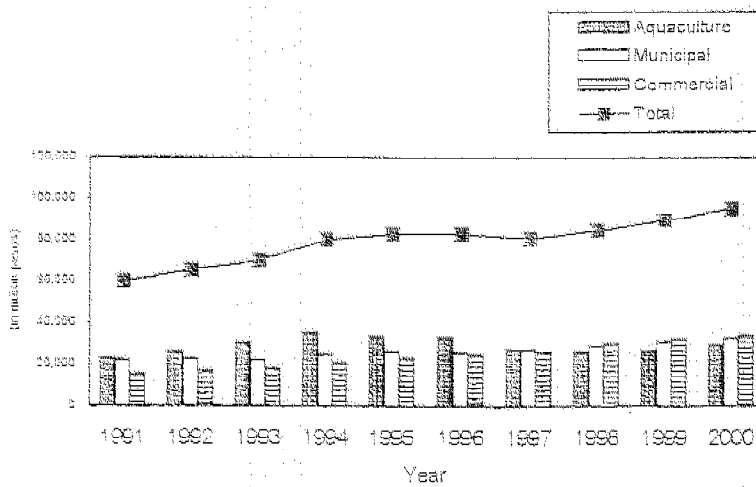


Figure 3

III. AQUACULTURE PRODUCTION, 2000

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, 2000

Region	Total Aqua- culture	Brackish- water Fishpond	Fresh- water Fishpond	Fresh and Marine water		
				Fishpen	Fishcage	Mariculture
NCR	1,050	372	0	622	56	0
CAR	1,581	0	470	0	1,111	0
I	30,256	17,530	1,610	5,549	2,308	3,261
II	3,380	872	1,721	0	779	8
III	112,922	71,987	37,873	101	51	2,910
IV	216,742	15,404	1,096	26,762	21,403	152,077
V	18,281	2,614	86	0	4,191	11,390
VI	91,574	62,162	205	0	15	29,192
VII	19,179	8,409	4	0	5	10,761
VIII	4,409	1,812	50	0	23	2,524
IX	117,240	10,417	56	43	63	106,659
X	2,364	2,099	203	2	23	37
XI	16,271	12,211	937	369	2,184	570
XII	10,152	8,651	589	0	805	107
XIII	5,014	2,984	39	26	37	1,928
ARMM	327,752	1,884	36	17	13	325,602
TOTAL	978,169	219,408	44,977	33,491	33,067	647,226

B. AQUACULTURE PRODUCTION, BY CULTURE SYSTEM,
SPECIES AND REGION, 2000

1. Production from Brackishwater Fishpond (in MT)

Region	Total	Bangus	Sugpo	Other	
				Shrimp/Prawn	Others *
NCR	372	360	4	0	8
CAR	0	0	0	0	0
I	17,530	16,278	164	89	999
II	872	243	181	79	369
III	71,987	45,950	19,061	24	6,952
IV	15,404	13,460	1,639	174	131
V	2,614	1,234	346	42	992
VI	62,162	60,458	1,139	97	468
VII	8,409	6,316	2,063	0	30
VIII	1,812	1,573	212	0	27
IX	10,417	5,727	3,472	522	696
X	2,099	1,592	433	0	74
XI	12,211	11,391	453	34	333
XII	3,651	3,527	4,942	62	120
XIII	2,984	1,537	1,177	133	137
ARMM	1,884	1,313	178	29	364
TOTAL	219,408	170,959	35,464	1,285	11,700

Others :

Tilapia (7,187)

Mudorab (4,455)

Grouper 16

Siganid 2

2. Production from Freshwater Fishpond, 2000
(in MT)

Region	Total	Tilapia	Mudfish	Catfish	Carp	Others *
CAR	470	463	0	a/	7	0
I	1,610	1,561	19	17	9	4
II	1,721	1,401	47	215	17	41
III	37,873	36,174	1,053	385	203	58
IV	1,096	1,082	2	0	8	4
V	86	65	2	17	2	0
VI	205	123	1	80	0	1
VII	4	4	0	0	0	0
VIII	50	50	0	0	0	0
IX	58	58	0	0	0	0
X	203	186	0	5	12	0
XI	937	778	48	92	19	0
XII	589	405	106	27	51	0
XIII	39	34	a/	0	5	0
ARMM	36	34	0	1	1	0
TOTAL	44,977	42,418	1,278	839	334	108

a/ less than one metric ton.

* Others:

Gourami (77)

Not Specified (31)

3. Production from Fishpen, in
Fresh and Marine Waters, 2000
(in MT)

Region	Total	Bangus	Tilapia	Others
NCR	622	622	0	0
CAR	0	0	0	0
I	5,549	5,482	49	18
II	0	0	0	0
III	101	80	20	1
IV	26,762	12,983	3,543	10,236
V	0	0	0	0
VI	a/	0	0	a/
VII	a/	0	0	a/
VIII	0	0	0	0
IX	43	0	0	43
X	2	0	0	2
XI	369	366	0	3
XII	0	0	0	0
XIII	26	1	1	24
ARMM	17	0	17	0
TOTAL	33,491	19,534	3,630	10,327

a/ less than one metric ton

Others:

Carp (10,236)

Misc. Species (91)

4. Production from Fish Cage in
Fresh and Marine Waters, 2000
(in MT)

Region	Total	Tilapia	Bangus	Others
NCR	56	53	0	3
CAR	1,111	1,111	0	0
I	2,308	10	2,295	3
II	779	779	0	0
III	51	51	0	0
IV	21,403	21,351	0	52
V	4,191	4,189	0	2
VI	15	0	2	13
VII	a/	0	1	4
VIII	23	0	0	23
IX	63	4	28	31
X	23	0	16	7
XI	2,184	1,782	390	12
XII	805	8	797	0
XIII	37	15	1	21
ARMM	13	13	0	0
TOTAL	33,067	29,366	3,530	171

a/ less than one metric ton

Others:

Carp (55)

Grouper (64)

Misc. Species (52)

5. Production from Mariculture, 2000
(in MT)

Region	TOTAL	Oyster	Mussels	Seaweeds
NCR	0	0	0	0
CAR	0	0	0	0
I	3,261	3,261	0	0
II	8	8	0	0
III	2,910	2,910	0	0
IV	152,077	2,737	6,628	142,712
V	11,390	32	611	10,747
VI	29,192	3,050	7,054	19,088
VII	10,761	127	0	10,634
VIII	2,524	0	2,462	62
IX	106,659	238	13	106,408
X	37	0	0	37
XI	570	57	0	513
XII	107	0	0	107
XIII	1,928	0	0	1,928
ARMM	325,802	0	0	325,802
TOTAL	647,226	12,420	16,768	618,038

C. MAJOR SPECIES PRODUCED IN AQUACULTURE FISHERIES, 2000

Species	Quantity (MT)	Percent (%)
Seaweeds	618,038	63.2
Bangus (milkfish)	194,023	19.8
Tilapia (cichlid)	82,601	8.4
Shrimps/Prawns	36,749	3.8
Others	46,758	4.8
TOTAL	978,169	100.0

D. TEN MAJOR LAKES OF THE PHILIPPINES ^{13/}

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
TOTAL		189,046

IV. MUNICIPAL FISHERIES PRODUCTION, 2000

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

A. MUNICIPAL FISHERIES PRODUCTION,
 BY REGION, 2000
 (in MT)

Region	Marine	Inland	Total
NCR	3,982	0	3,982
CAR	0	1,075	1,075
I	22,844	548	23,392
II	13,809	3,228	17,037
III	8,867	2,309	11,176
IV	153,004	104,831	257,835
V	73,247	556	73,803
VI	132,838	1,389	134,227
VII	47,424	58	47,482
VIII	37,199	4	37,203
IX	122,225	254	122,479
X	16,840	239	17,079
XI	47,197	922	48,119
XII	6,295	13,378	19,673
XIII	63,709	2,890	66,599
ARMM	44,344	18,446	62,790
Total	793,824	150,127	943,951

**B. MARINE MUNICIPAL FISH CATCH,
BY MAJOR FISH SPECIES, 1997**

	Major Species	Total	% to Total
1.	Frigate Tuna (Tullingan)	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 (Tambar)	38,639	5.1
6.	Yellowfin & Big-Eyed Tuna (Albacore, 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)	27,416	3.6
11.	Others	390,198	51.0
	Total	764,727	100.0

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

Major Species	Total (MT)	% to Total
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 & Big-eyed Tuna (Albacore, 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

C. COMMERCIAL FISHERY PRODUCTION BY
 MAJOR FISHING GROUNDS, 1995
 (IN MT)

Fishing Ground	Total	% to Total
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

D. NUMBER OF COMMERCIAL FISHING VESSEL
 BY REGION, 1999 ^{9/}

Region	Number	Gross Tonnage
NCR	1,351	158,510
I	113	1,833
II	64	718
III	40	1,081
IV	221	3,857
V	160	4,386
VI	404	25,674
VII	94	2,054
VIII	124	1,740
IX	392	22,759
X	43	1,215
XI	555	45,894
XII	7	85
XIII	26	294
ARMM	7	182
Total	3,601	270,281

D. NUMBER OF MUNICIPAL FISHING BANCAS,
BY REGION, 2000 ^{8/}

Region	Total	Motorized	Non-Motorized
CAR	660	49	611
I	17,678	11,641	6,037
II	3,304	1,502	1,802
III	27,038	18,375	8,663
IV	69,927	26,569	43,358
V	54,715	19,453	35,262
VI	41,808	16,234	25,574
VII	56,142	19,100	37,042
VIII	58,068	16,255	41,813
IX	45,650	13,280	32,370
X	9,041	2,472	6,569
XI	24,099	11,382	12,717
XII	10,759	2,671	8,088
XIII	31,283	11,202	20,081
ARMM	19,635	7,442	12,193
TOTAL	469,807	177,627	292,180
PERCENT			
%	100	38	62

V. COMMERCIAL FISHERIES PRODUCTION, 2000

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

A. COMMERCIAL FISH PRODUCTION BY REGION
AND BY TYPE OF LANDING CENTERS, 2000

Region	Total	Private	PFDA	Traditional
NCR	142,849		135,739	7,110
CAR				
I	2,250		795	1,455
II	14,130			14,130
III	12,286			12,286
IV	134,849		9,162	125,687
V	21,732	655		21,077
VI	130,486	5,938	10,584	113,964
VII	64,109			64,109
VIII	32,497			32,497
IX	166,224	52,026	8,454	105,744
X	21,207			21,207
XI	147,592	100,323	40,271	6,998
XII	10,863			10,863
XIII	4,825			4,825
ARMM	40,586	2,065		38,521
TOTAL	946,485	161,007	205,005	580,473

VI. EXTERNAL TRADE

A. EXPORTS

1. Export of Fish and Fishery Products By Kind, Quantity and Value, 2000

Commodity/Kind	Quantity (MT)	FOB Value	
		(000 P)	(000 \$)
1. Fish Crustaceans, Mollusks, etc. and Preparation	139,600	16,169,195	401,248
a. Fish fresh (live or dead) chilled or frozen	65,665	4,470,746	110,944
b. Fish, dried, salted or in brine, smoked fish	1,322	161,012	3,996
c. Crustaceans, mollusks and aquatic invertebrates	32,408	8,570,537	212,683
d. Fish and other aquatic invertebrate, prepared/ preserved	40,205	2,966,900	73,625
2. Shells and By-Products	1,654	736,090	18,266
3. Miscellaneous and Other Fishery Products	58,465	3,517,506	87,288
GRAND TOTAL	199,719	20,422,791	506,802

Commodity/Kind	Quantity (MT)	FOB Value (P 000)	FOB Value (\$ 000)
6. Lapu-lapu, live	6,645	548,996	13,624
7. Cultured Pearls, Worked	1.5	482,993	11,986
8. Cuttlefish/squid	1,624	352,925	7,757
Fresh/chilled	6	783	19
Frozen/dried/salted	1,598	349,197	7,665
Prepared/preserved	20	2,945	73
9. Ornamental fish, live	5,749	271,580	6,739
10. Lobster	705	173,703	4,310
Frozen	187	63,026	1,564
Other than frozen	518	110,677	2,746
Total major commodities	178,552	18,018,483	445,136
Total of other commodities	21,167	2,404,308	60,666
Grand Total	199,719	20,422,791	506,802

2. Major Fishery Exports in Terms of Value, 2000

Commodity/Kind	Quantity (MT)	FOB Value (P 000)	FOB Value (\$ 000)
1. Shrimp/Prawn	12,061	5,830,710	144,692
Fresh/chilled/frozen	12,058	5,829,067	144,651
Prepared/preserved	3	1,643	41
2. Tuna	80,108	5,170,552	128,309
Fresh/chilled/frozen	43,060	2,494,275	61,696
Smoked/dried	590	77,403	1,921
Canned	36,458	2,598,874	64,492
3. Seaweeds	56,841	3,430,108	85,120
Seaweeds & other Algae, nes	48,383	1,874,409	46,514
Carrageenan	7,703	1,545,560	38,354
Kelp powder	755	10,139	252
4. Octopus	10,239	985,706	24,461
Frozen/dried/salted	10,239	985,706	24,461
5. Crabs/crabs fat	4,578	771,210	19,138
Frozen	353	43,609	1,082
Other than frozen	4,140	675,622	16,766
Prepared/preserved	85	51,979	1,290

3. Major Destinations of Top Three Fishery Exports
by Kind, Quantity and Value, 2000

Commodity/Kind	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
1. Shrimp/Prawn	12,061	5,830,710	144,692
Fresh/chilled/frozen	12,058	5,829,067	144,651
Japan	8,168	4,171,745	103,524
U S A	1,993	869,935	21,588
Korea	686	308,370	7,652
Others	1,211	479,017	11,887
Prepared/prepared	3	1,643	41
Japan	3	1,643	41
2. Tuna	80,108	5,170,552	128,309
Fresh/chilled/frozen	43,060	2,494,275	61,896
U S A	4,572	1,049,015	26,032
Japan	13,132	702,901	17,443
Thailand	11,017	191,248	4,745
Others	14,239	551,111	13,676
Smoked/dried	590	77,403	1,921
Japan	490	58,497	1,452
Belgium	30	10,739	266
U S A	23	6,109	152
Others	47	2,058	51
Canned	36,458	2,598,874	64,492
U S A	12,313	668,188	16,581
Singapore	6,562	612,688	15,204
Canada	3,838	261,146	6,480
Others	13,745	1,056,852	26,227

Commodity/Kind	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
3. Seaweeds	56,841	3,430,108	85,120
Seaweeds & other Algae, nes	48,383	1,874,409	46,514
U S A	3,866	254,707	6,321
France	16,707	211,996	5,261
United Kingdom	1,364	200,761	4,982
Others	26,446	1,206,945	29,950
Carrageenan	7,703	1,545,560	38,354
Denmark	1,009	370,064	9,184
France	1,183	235,952	5,855
United Kingdom	1,437	227,521	5,646
Others	4,074	712,023	17,669
Kelp powder	755	10,139	252
Japan	755	10,139	252
Total (3) major commodities	149,010	14,431,370	358,121
Total other commodities	50,709	5,991,421	148,681
Grand Total	199,719	20,422,791	506,802

4. Fishery Exports, by Major Country of Destination
 in Terms of Value, 2000

Country/Destination	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
Japan	33,497	6,382,362	158,382
U S A	37,043	4,415,437	109,571
Hongkong	24,061	2,368,752	58,782
Singapore	8,047	770,930	19,131
Korea	5,577	619,945	15,384
United Kingdom	4,783	590,644	14,657
Denmark	4,586	566,683	14,062
Canada	5,242	499,491	12,395
France	18,060	496,456	12,320
Taiwan	6,918	456,274	11,318
Total Major Countries	147,814	17,166,974	426,002
Other Countries	51,905	3,255,817	80,800
Grand Total	199,719	20,422,791	506,802

MAJOR FISHERIES EXPORT IN TERMS OF VALUE, 2000

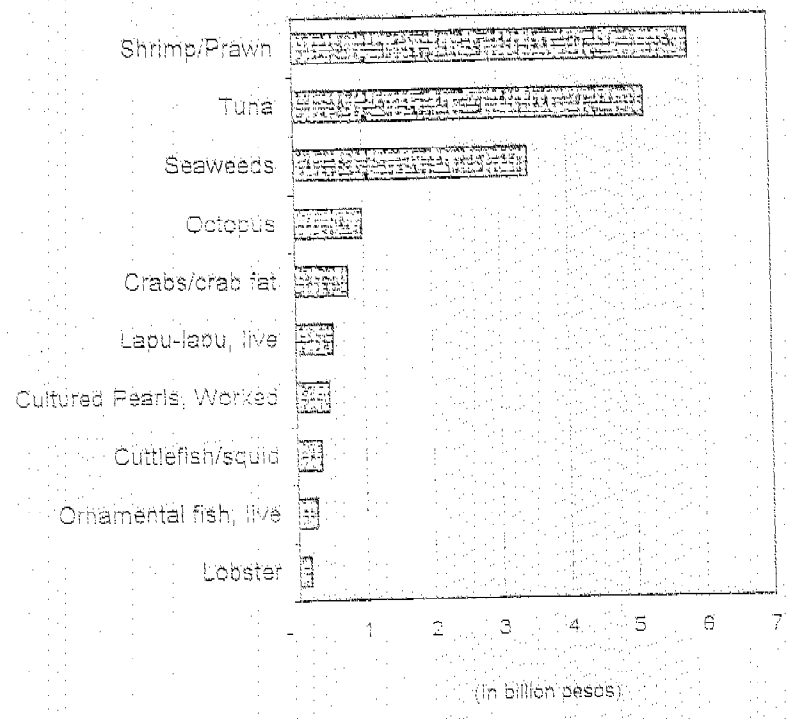


Figure 4

B. IMPORTS

1. Imports of Fish and Fishery Products By Kind, Quantity and Value, 2000

Commodity	Quantity (MT)	FOB Value	
		(000 P)	(000 \$)
Fresh/Frozen/Chilled	135,609	1,925,191	46,947
Flour, Meals & Pellets of Fish Crustaceans and Mollusks Unfit for Human Consumption	81,236	1,190,494	29,031
Canned	1,054	55,453	1,352
Salted, Dried, Smoked, etc.	18,000	347,076	8,464
Other Commodities	6,565	329,246	8,028
GRAND TOTAL	242,464	3,847,460	93,822

2. Major Fishery Imports in Terms of Value, 2000

Commodity/Kind	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
1. Chilled Frozen Fish	126,458	1,708,965	41,674
a) Tuna	34,481	711,166	17,342
Indonesia	14,483	336,088	8,196
Taiwan	9,098	162,275	3,957
Others	10,900	212,803	5,189
b) Sardines	47,557	473,398	11,544
Canary Is.	14,328	136,903	3,338
Spain	12,557	119,978	2,926
Others	20,672	216,517	5,280
c) Mackerel	44,420	524,401	12,788
Korea	19,888	234,607	5,721
U S A	8,636	110,029	2,683
Others	15,896	179,765	4,384
2. Flour, meals & pellets of fish crustaceans & mollusks unfit for human consumption	81,237	1,190,494	29,031
Peru	64,292	942,092	22,974
Chile	6,257	105,681	2,577
Others	10,688	142,721	3,480
Total major imports	207,695	2,899,459	70,705
Other Commodities	34,769	948,440	23,109
Grand Total	242,464	3,847,899	93,814

3. Fishery Imports, By Major Country Of Origin
In Terms of Value, 2000

Major Countries	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
1. Peru	67,281	986,553	24,058
2. U S A	33,259	546,526	13,327
3. Indonesia	15,632	363,726	8,869
4. Taiwan	17,415	287,663	7,015
5. Korea	21,500	268,495	6,547
6. Chile	6,883	154,804	3,775
7. Canary Island	14,328	136,903	3,338
8. Spain	13,053	126,972	3,096
9. Denmark	1,030	100,362	2,447
10. Singapore	4,305	88,258	2,152
Total major countries	194,666	3,060,262	74,624
Other Countries	47,778	787,198	19,198
Grand Total	242,464	3,847,460	93,822

VII. OTHER FISHERIES INFORMATION

A. PER CAPITA FOOD CONSUMPTION, PHILIPPINES, 1993 ^{10/}

Food Group/Subgroup	Consumption (Raw, As Purchased) *		% of Total Food Intake
	kg/yr	g/day	
Cereals and Cereal Products	124	340	42.3
Rice and Products	103	282	35.1
Corn and Products	13	36	4.5
Other Cereals and Products	8	22	2.7
Starchy Roots and Tubers	6	17	2.1
Sugar and Syrups	7	19	2.4
Fats and Oils	4	12	1.5
Fish, Meat and Poultry	54	147	18.3
Fish and Products	36	99	12.3
Meat and Products	12	34	4.2
Poultry	6	14	1.7
Eggs	4	12	1.5
Milk and Milk Products	16	44	5.5
Whole Milk	13	35	4.4
Milk Products	3	9	1.1
Dried Beans, Nuts and Seeds	4	10	1.2
Vegetables	39	106	13.2
Green Leafy and Yellow Vegetables	11	30	3.7
Other Vegetables	28	76	9.5
Fruits	28	77	9.6
Vitamin C-Rich Fruits	8	21	2.6
Other Fruits	20	56	7
Miscellaneous	7	19	2.4
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 ¹⁰⁷

Fish and Other Products	Total (Kg/Year)
1. FISH	36
1.1 Fresh Fish	24
Tulingan (Frigate Tuna)	4
Bangus (Milkfish)	1
Galunggong (Roundscad)	4
Dilis, Buo (Anchovy)	1
Alumahan (Indian Mackerel)	1
Tamban (Sardines)	2
Dalagang Bukid (Fusilier)	
Sapsap (Slipmouth)	1
Bisugo (Threadfin Bream)	1
Tilapia (Cichlid)	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 recipe)	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, salmon, etc)	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 (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 wastage.
2. Breakdown don't add up to total due to roundings
3. N- negligible (less than 0.5 grams)

**C. PRODUCTIVE AREA IN AQUACULTURE FISHERIES,
BY CULTURE SYSTEM AND REGION, 1995* 7/**
(in ha)

Region	Total Aquaculture	Fishpond		Fishpen in Fresh & Marine Water	Fishcage in Fresh & Marine Water	Mariculture		
		Brackish Water	Fresh Water			Oyster	Mussel	Seaweed
NCR	4,395.30	4182	0.00	196.58	3.53		12.89	
CAR	112.22	0	65.03		47.19			
I	9,819.00	8726	797.46	1.35	2.00	92.19		
II	1,874.68	1367	460.32		12.87	4.49		
III	38,684.44	34368	4,427.44	5.06	32.28	51.86		
IV	14,668.48	10168	73.39	3,992.38	365.23	5.13	24.91	36.54
V	6,312.69	5433	25.37		541.04	0.24	30.92	282.02
VI	29,862.23	29393	84.03		0.37	58.20	283.26	43.37
VII	6,083.15	5689	10.59			2.15	0.10	361.31
VIII	2,469.42	2433	5.29				28.22	2.91
IX	29,285.66	27304	15.04	5.66		9.84	0.78	1,951.15
X	932.92	919	11.91		0.01			2.00
XI	6,002.04	5299	316.91	4.15	354.92	1.09		25.97
XII	3,518.23	3338	176.23				0.25	3.75
XIII	3,524.56	3501	20.03		0.15			3.38
ARMM	4,688.62	1077	3.67	0.15	9.36			3,598.44
TOTAL	182,234.54	143,197	6,522.71	4,205.63	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, 1998 ^{11/}

Country	Production (000 MT)	% Share to Total
1. China, Main	17,230	20.0
2. Japan	5,259	6.1
3. U S A	4,709	5.5
4. Russian Fed.	4,455	5.2
5. Peru	4,338	5.0
6. Indonesia	3,699	4.3
7. Chile	3,265	3.8
8. India	3,215	3.7
9. Thailand	2,900	3.4
10. Norway	2,850	3.3
11. Korea Rep.	2,027	2.3
12. Philippines	1,828	2.1
13. Iceland	1,682	1.9
14. Denmark	1,557	1.8
15. Other Countries	27,285	31.5
World Total	86,299	100.0

E. WORLD AQUACULTURE PRODUCTION OF FISH,
CRUSTACEANS, MOLLUSCS, ETC. BY PRINCIPAL
PRODUCERS, 1998 ^{12/}

Country	Production (000 MT)	% Share to Total	Value (US\$' 000)	% Share to Total
1. China	20,795	67.4	21,716	46.1
2. India	2,030	6.6	2,223	4.7
3. Japan	767	2.5	3,062	6.5
4. Indonesia	697	2.3	2,138	4.5
5. Bangladesh	584	1.9	1,494	3.2
6. Thailand	570	1.8	1,807	3.8
7. Vietnam	522	1.7	1,349	2.9
8. U S A	445	1.4	781	1.7
9. Norway	409	1.3	1,134	2.4
10. Korea Rep.	327	1.1	544	1.2
11. Spain	313	1.0	282	0.6
12. Philippines	312	1.0	598	1.3
13. Chile	293	0.9	971	2.1
14. France	274	0.9	614	1.3
15. Other Countries	2,525	8.2	8,368	17.8
World Total	30,863	100.0	47,081	100.0

F. WORLD AQUACULTURE PRODUCTION
 OF AQUATIC PLANTS (Includes Seaweeds)
 BY PRINCIPAL PRODUCERS, 1998 ^{12/}

Country	Production (000 MT)	% Share to Total
1. China, Main	6,277	73.3
2. Philippines	643	7.5
3. Japan	524	6.1
4. Korea Rep.	469	5.5
5. Korea D P Rp	413	4.8
6. Indonesia	117	1.4
7. Chile	68	0.8
8. Other Countries	57	0.6
World Total	8,588	100.0

G. PRICES OF SELECTED FISH SPECIES,
PHILIPPINES, 2000 ⁷¹

Species	Wholesale	Retail
1. Alimasag	61.46	88.75
2. Alumahan	56.79	67.46
3. Bangos	67.36	81.45
4. Bisugo	62.73	85.78
5. Dalagang-bukid (lapad)	64.83	87.9
6. Dills	35.75	47.96
7. Galunggong	41.49	54.9
8. Hipon (Suathe)	208.16	-
9. Hipon (Sugpo)	306.26	330.75
10. Sapsap	34.87	68.39
11. Tambakol	51.37	-
12. Tilapia	46.75	58.58
13. Tulingan	43.37	52.65

FOOTNOTES

Sources of Data:

- 1/ NAMRIA, 1990
- 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 2001, National Statistical Coordination Board (NSCB)
- 4/ NSO, 1990 Census of Population & Housing
(Figures are estimates based on a 10% sampling)
- 5/ Source of basic data: National Statistic Office (NSO)
- 6/ Preliminary data of the Bureau of Agricultural Statistics (BAS)
- 7/ Bureau of Agricultural Statistics (BAS)
- 8/ BFAR Regional Yearbook, 2000
- 9/ BFAR Regulatory and Quarantine Division
- 10/ Department of Science & Technology (DOST)
Fourth National Nutrition Survey, Phil., 1993
- 11/ Fishery Statistics on Catches & Landings
FAO Yearbook, 1998
- 12/ FAO Aquaculture Production Statistics, 1969-1998
- 13/ Lakes and Reservoirs, State of the Art Series,
report no. 1, PCARRD