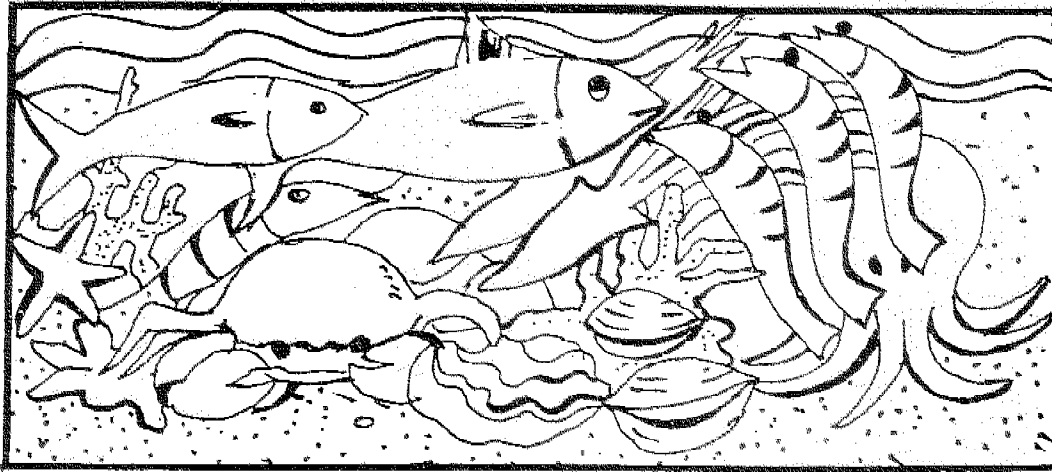


1996 PHILIPPINE FISHERIES PROFILE



Republic of the Philippines
Department of Agriculture

Bureau of Fisheries and Aquatic Resources

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FOREWORD

Yearly, the Fisheries Policy Research and Economics Division (FPRED) of the Bureau of Fisheries and Aquatic Resources (BFAR) publishes the Philippine Fisheries Profile (PFP) based on the latest available data gathered from the different concerned agencies. This report in general serves as a tool for providing information/data to planners, decision-makers, researchers and other users to guide them in the formulation of plans, programs and policies.

The PFP is regularly compiled by the FPRED of BFAR focusing 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). Corresponding summary tables and graphs for the above information were developed to further enhance the understanding of fisheries data and information indicated under the PFP.

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



DENNIS B. ARAULLO
Director

H I G H L I G H T S

WORLD SCENARIO: Philippine Fisheries

1. Twelfth (12th) among the largest fish producer in the world for 1994. Contributed 2.3 million metric tons of fish or 2.1 percent to the total world catch of 109.6 million metric tons (FAO Yearbook, 1994)
2. 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.
3. Third (3rd) biggest producer of seaweeds and other aquatic plants, contributing 5.2% (0.405 M MT) in the world production of 7.839 million metric tons in 1994. The highest was China, 4.900 million MT or 62% followed by Japan and Korea with a total share of 0.777 million metric tons each or 9.9% (FAO Yearbook, 1994).

FISHERIES CONTRIBUTION TO THE PHILIPPINE ECONOMY (1996)

1. The fishing industry's contribution to the country's Gross Domestic Products (GDP) of P2,189.8 billion at current prices and P846.9 billion at constant prices were 3.5% (P76.2B) and 3.9% (P32.9B) at current and constant prices respectively.
2. The industry also accounted for 16.2% (P76.2 B) of the Gross Value Added (GVA) of P470.3 B in Agriculture, Fishery and Forestry Sector at current prices, 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 engage 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 1987-1996 was 2.5%. Positive growths of 6.4% and 4.5% were experienced in aquaculture and commercial fisheries respectively but municipal fisheries has been declining at -1.7%.
2. Output of the fishing industry slightly decreased by 0.5% for 1996, in contrast to the 2.3% growth last year. Fishery sectors that posted decreases in output were commercial fisheries, 1.6% and municipal fisheries 6.5%. On the other hand, a 6.7% increased in production was realized in aquaculture fisheries.
3. Production was mainly contributed by aquaculture fisheries, 35% followed by municipal fisheries, 33% and commercial fisheries, 32%.
4. In terms of value, the highest share of 40% went to aquaculture, followed by municipal fisheries 31% and commercial fisheries, 29%.

FISHERIES EXPORT AND IMPORT PERFORMANCE

1. In 1996, fishery exports amounted to P15.110 billion (164,673 MT), a decrease of almost 3.5% and 3.0% in value and volume respectively as compared to 1995 of P15.656 billion (169,746 MT).

2. Shrimp export, which for quite some time has been occupying the number one slot, was replaced by tuna in 1996. Shrimp exports, dropped from a high of 18,257 MT (P5.653 B) in 1995 to 13,514 MT (P3.989 B) in 1996. Shrimp continue to suffer significant setbacks declining by 26% and 29% 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.
3. The ten major fishery exports accounted for 86% to the total export value of (P15.110 B) in 1996. Major exports in terms of value in descending order are the following: Tuna, (P4.534 B); Shrimp/prawn, (P3.989 B); Seaweeds, (P2.442 B). Other products that made it to the top ten are the following: Octopus, Cuttlefish/squid, Crabs/crab fats, Ornamental fish, Cultured pearls, Fish fillet and Worked capiz shells
4. Foreign buyers of Philippine fish and fishery products in descending orders are the following: Japan, (P5.260 B); U S A, (P2.366 B); China, (Taiwan) (P1.066 B); and the rest are: United Kingdom, Hongkong, Singapore, Germany, Korea, Canada and South Africa.
5. Imports of fish and fishery products likewise decreased by almost 3% in volume in 1996 over 1995 but increased by 8% in terms of value. Comprising the bulk of the 1996 fishery imports are: frozen sardines, mackerel and tuna which were used by the local canneries constitute 51% and fish meal, a vital component of animal feeds is equivalent to 40% of the total fishery imports.
6. Major sources of fishery imports in descending orders are the following: Peru, (P0.877 B); China (Taiwan), (P0.393 B); Korea, (P0.365 B); and the rest are : U S A, Papua New Guinea, Chile, Japan, Trust Territory of the Pacific Island, Indonesia and Singapore.

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FISHERY RESOURCES

**FISHERIES CONTRIBUTION
TO ECONOMY**

Philippine Marine Jurisdictional Boundaries

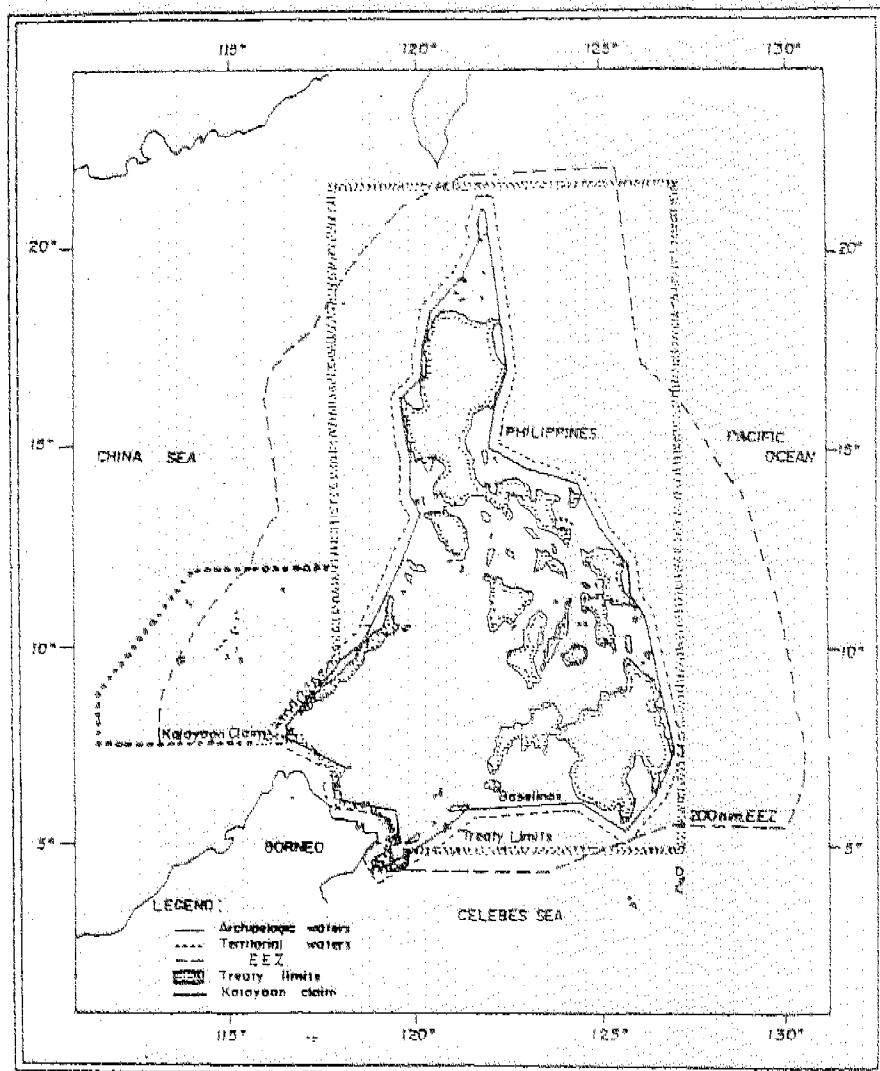


Figure 1

**PHILIPPINE FISHERIES PROFILE
AS OF DECEMBER 1996**

I. FISHERY RESOURCES

A. Marine Resources

1.	Total Territorial Water Area (including the EEZ)	220,000,000 ha.
a.	Coastal	26,600,000 ha. (12% of the total)
b.	Oceanic	193,400,000 ha. (88% of the Total)
2.	Shelf Area (Depth 200 m.)	18,460,000 ha. (8% of the total)
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 1/	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 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 ECONOMY (1996)

A. Fisheries Contribution to Total GDP 3/

1. At Current Prices 3.5 %
2. At Constant Prices 3.9 %

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

	At Current Prices (In M P)	% to Agri- cultural Sector	At Constant Prices (In M P)	% to Agri- cultural Sector
1. Agricultural crops (Palay, corn coconut, & etc.)	283,942	60.4	96,461	54.1
2. Livestock	55,488	11.8	21,146	11.9
3. Poultry	31,692	6.7	17,865	10.0
4. Agricultural activities & services	21,261	4.5	8,834	5.0
5. Fishery	76,265	16.2	32,937	18.5
6. Forestry	1,693	0.4	900	0.5
TOTAL	470,341	100.0	178,143	100.0

C. Employment

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

D. Balance of Trade 6/

	1996			1995		
	Quantity (mt)	FOB Value (P M) (\$ M)		Quantity (mt)	FOB Value (P M) (\$ M)	
Fishery Exports	164,673	15,110	549.3	169,746	15,656	606.0
Fishery Imports	262,785	3,178	121.0	270,213	2,923	112.1
Balance of Trade	(98,112)	11,932	428.3	(100,467)	12,733	493.9

E. Total Fish Production by Sector, 1996 ✓

	Sector	Quantity (000 MT)	%	Value (P B)	%
1.	Aquaculture	981	35.4	35.2	40.0
2.	Municipal Fisheries	909	32.8	25.4	30.6
3.	Commercial Fisheries	879	31.7	24.5	29.5
	TOTAL	2,769	100.0	83.1	100.0

F. Fish Production, by Sector and by Region, 1996
(in MT)

Region	Total	Commercial	Municipal	Aqua- culture	% share to total
NCR	247,599	239,004	3,665	4,930	8.94
CAR	1,190	0	198	992	0.04
I	46,468	1,923	18,677	25,868	1.58
II	19,323	5,643	11,854	1,826	0.70
III	121,291	8,291	10,925	102,075	4.38
IV	594,767	103,456	275,418	215,893	21.48
V	108,760	21,013	65,395	22,352	3.93
VI	348,315	119,922	141,387	87,006	12.58
VII	139,920	58,817	40,530	40,573	5.05
VIII	68,256	28,476	35,411	4,369	2.46
IX	414,529	173,382	134,724	106,423	14.97
X	34,879	17,729	14,898	2,252	1.26
XI	127,369	68,589	39,537	19,243	4.60
XII	20,930	4,483	9,092	7,355	0.76
ARMM	403,529	24,760	42,718	336,051	14.57
CARAGA	72,114	3,585	64,819	3,710	2.60
Total	2,769,239	879,073	909,248	980,918	100.00

G. Fish Production, by Sector 1987-1996

1. Volume of Fish Production (in metric tons)

Year	Aquaculture	Municipal	Commercial	Total
1996	980,918	909,248	879,073	2,769,239
1995	919,041	972,043 R	893,232 R	2,784,316
1994	869,083	992,578 R	859,328 R	2,720,989
1993	793,620	1,013,969 R	824,356 R	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
1987	560,970	1,060,878	591,192	2,213,040

R- Revised

2. Value of Fish Production (in million pesos)

Year	Aqua-culture	Municipal	Commercial	Total
1996	33,212	25,373	24,555	83,140
1995	33,527	26,464 R	23,065 R	83,056
1994	35,023	24,475 R	20,714 R	80,212
1993	30,160	22,031 R	18,021 R	70,212
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
1987	11,421	16,108	9,821	37,350

HL Five Year Fish Production, Trend 1992-1996

Year	Quantity (M T)	% Increase/ (Decrease)	Value (000 P)	% Increase (Decrease)
1996	2,769,239	-0.54	83,140,854	0.10
1995	2,784,316	2.33	83,056,620	3.55
1994	2,720,989	3.38	80,212,118	14.24
1993	2,631,945	0.24	70,212,299	7.29
1992	2,625,607	1.02	65,443,532	9.01

TOTAL FISH PRODUCTION BY SECTOR, 1996

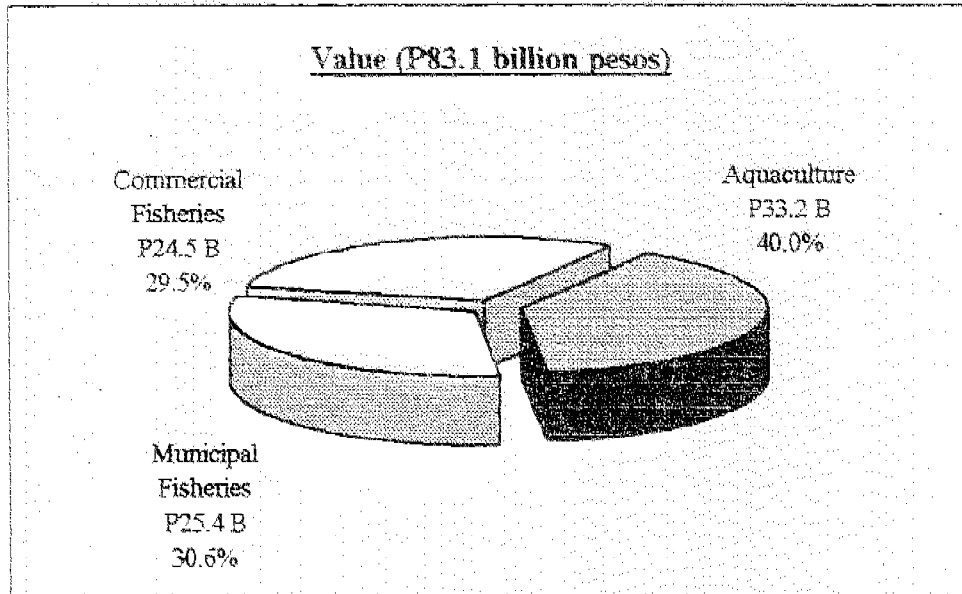
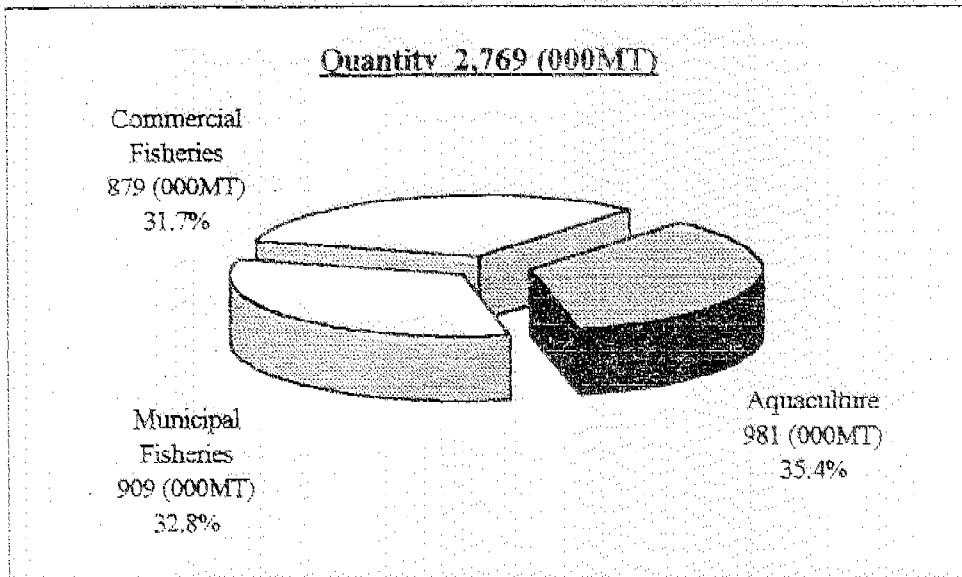


Figure 2

FISH PRODUCTION BY SECTOR, 1987-1996

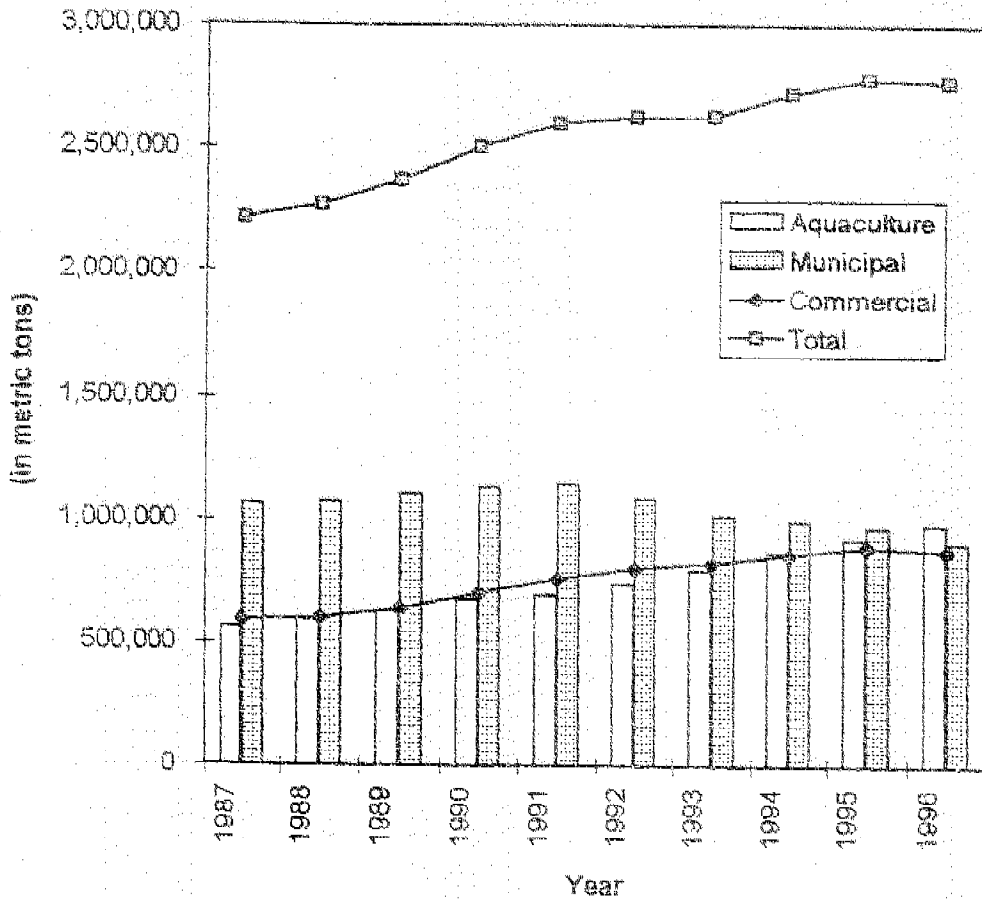


Figure 3

VALUE OF FISH PRODUCTION, 1987-1996

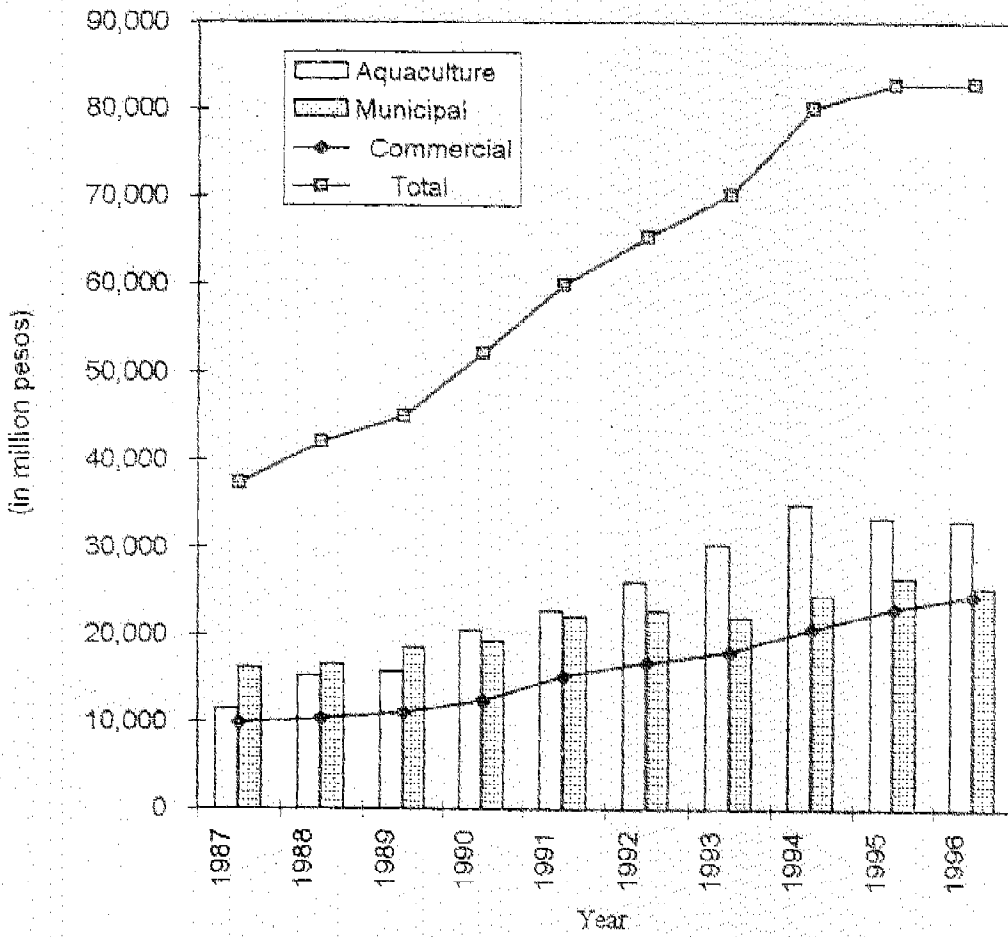


Figure 4

AQUACULTURE FISH PRODUCTION, 1995-1996

This includes production from the following:

- Brackishwater culture for fishponds
- Freshwater culture for fishponds
- Fishpen and fishcage culture in fresh and marine waters
- Mariculture for oyster, mussel and seaweeds

**A. SUMMARY OF AQUACULTURE PRODUCTION
BY TYPE OF CULTURE, BY REGION, 1996**

Region	Total Aqua- culture	Brackish- water Fishpond	Fresh- water Fishpond	(Fresh and Marine water)		
				Fishpen	Fishcage	Mariculture
NCR	4,930	4,722	0	51	152	5
CAR	992	0	287	0	705	0
I	25,868	19,043	2,060	9	9	4,747
II	1,826	507	1,128	0	185	6
III	102,075	63,449	36,277	30	157	2,162
IV	215,893	13,691	1,015	16,184	16,598	168,405
V	22,352	2,493	50	3	10,390	9,416
VI	87,006	65,638	929	0	6	20,433
VII	40,573	14,100	7	0	0	26,466
VIII	4,369	1,906	45	0	5	2,413
IX	106,423	12,286	65	23	2	94,047
X	2,252	2,027	180	0	2	43
XI	19,243	14,239	1,223	2	3,258	521
XII	7,355	6,961	378	0	0	16
XIII	3,710	3,237	13	1	9	450
ARMM	336,051	952	19	5	15	335,060
TOTAL	980,918	225,251	43,676	16,308	31,493	664,190

**B. AQUACULTURE PRODUCTION BY SUB SECTORS,
BY SPECIES AND BY REGION, 1996**

1. Production from Brackishwater Fishpond (in mt)

Region	Total	Bangus	Sugpo	Endeavor Prawn	Others *
NCR	4,722	4,625	73	0	24
CAR	0	0	0	0	0
I	19,043	17,099	573	2	1,369
II	507	176	123	1	207
III	63,449	34,076	24,693	0	4,680
IV	13,691	12,074	1,590	12	15
V	2,493	1,401	567	24	501
VI	65,638	43,460	21,715	240	223
VII	14,100	7,597	5,857	630	16
VIII	1,906	1,574	316	0	16
IX	12,286	5,726	5,614	0	946
X	2,027	155	1,872	0	0
XI	14,239	6,145	7,772	199	123
XII	6,961	2,902	4,030	27	2
XIII	3,237	1,485	1,354	0	398
ARMM	952	877	71	0	4
TOTAL	225,251	139,372	76,220	1,135	8,524

Others :

Tilapia (4,816)

White Shrimp (709)

Grouper (559)

Mudcrab (2,440)

2. Production from Freshwater Fishponds, 1996 (in mt)

Region	Total	Tilapia	Carp	Others *
CAR	287	276	9	2
I	2,060	1,999	1	60
II	1,128	881	20	227
III	36,277	33,186	167	2,924
IV	1,015	1,008	4	3
V	50	49	1	0
VI	929	817	2	110
VII	7	7	0	0
VIII	45	44	0	1
IX	65	65	0	0
X	180	175	4	1
XI	1,223	1,223	a/	0
XII	413	341	a/	72
XIII	13	12	1	0
ARMM	19	14	a/	5
TOTAL	43,711	40,097	209	3,405

a/ Less than one metric ton

* Others

Catfish (1,075)

Mudfish (2,076)

Gurami (199)

Not Specified (55)

3. Production from Fishpen, 1996
 Fresh and Marine Waters (in mt)

Region	Total	Bangus	Tilapia	Others
NCR	51	50	1	0
CAR	0	0	0	0
I	9	0	0	9
II	0	0	0	0
III	30	0	n/	30
IV	16,184	10,729	3,708	1,747
V	3	0	0	3
VI	0	0	0	0
VII	0	0	0	0
VIII	0	0	0	0
IX	23	0	0	23
X	0	0	0	0
XI	2	0	0	2
XII	0	0	0	0
XIII	1	0	0	1
ARMM	5	0	5	0
TOTAL	16,308	10,779	3,714	1,815

n/ less than one metric ton

4. Production from Fish Cages, 1996
 Fresh and Marine Waters (in mt)

Region	Total	Tilapia	Carp	Others
NCR	152	138	14	0
CAR	705	705	0	0
I	9	0	0	9
II	185	185	0	0
III	157	120	0	37
IV	16,598	16,563	34	1
V	10,390	9,941	0	449
VI	6	0	0	6
VII	0	0	0	0
VIII	5	0	0	5
IX	2	0	0	2
X	2	0	0	2
XI	3,258	3,245	0	13
XII	0	0	0	0
XIII	9	0	0	9
ARMM	15	15	0	0
TOTAL	31,493	30,912	48	533

**C. MAJOR SPECIES PRODUCED IN
AQUACULTURE FISHERIES, 1996**

Species	Quantity (MT)	Percent (%)
Seaweeds	631,387	64.4
Bangus (milkfish)	150,151	15.3
Shrimps/Prawns	73,067	8.0
Tilapia (cichlid)	79,509	8.1
Others	41,804	4.3
TOTAL	980,918	100.0

D. TEN MAJOR LAKES OF THE PHILIPPINES ^{8/}

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 Mairit	Surigao del Norte- Agusan	17,430
5. Naujan Lake	Oriental Mindoro	7,899
6. Lake Buluan	South Cotabato	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

5. Production from Mariculture, 1996 (in mt)

Region	TOTAL	Oyster	Mussels	Seaweeds
NCR	5	0	5	0
CAR	0	0	0	0
I	4,747	4,746	1	0
II	6	6	0	0
III	2,162	2,162	0	0
IV	168,405	2,398	1,049	164,958
V	9,416	19	552	8,845
VI	20,433	2,052	17,070	1,311
VII	26,466	92	2	26,372
VIII	2,413	0	2,348	65
IX	94,047	202	0	93,845
X	43	0	0	43
XI	521	89	0	432
XII	16	0	0	16
XIII	450	10	0	440
ARMM	335,060	0	0	335,060
TOTAL	664,190	11,776	21,027	631,387

a/ Quantity less than 1 metric ton

**A. MUNICIPAL FISHERIES PRODUCTION, BY REGION, 1996
(IN METRIC TONS)**

Region	Marine	Inland	Total
NCR	3,665	0	3,665
CAR	0	198	198
I	17,403	1,274	18,677
II	7,025	4,829	11,854
III	6,437	4,488	10,925
IV	135,687	139,731	275,418
V	65,166	229	65,395
VI	138,608	2,779	141,387
VII	40,498	32	40,530
VIII	35,407	4	35,411
IX	134,183	541	134,724
X	14,704	194	14,898
XI	38,589	948	39,537
XII	5,660	3,432	9,092
XIII	58,264	6,555	64,819
ARMM	30,012	12,706	42,718
Total	731,308	177,940	909,248

MUNICIPAL FISHERIES FISH PRODUCTION, 1996

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

**C. MARINE MUNICIPAL FISHERY PRODUCTION
BY MAJOR FISHING GROUNDS, 1995 (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, CY 1996 (IN MT)**

Major Species	Total	% to Total
1. Fimbriated Sardines (Tunsoy)	41,798	5.7
2. Pusit (Squid)	39,618	5.4
3. Anchovies (Dilis)	39,236	5.4
4. Frigate Tuna (Tulingan)	38,681	5.3
5. Indian Sardines (Tamban)	29,722	4.1
6. Yellowfin Tuna (Tambakol)	27,990	3.8
7. Blue Crabs (Alimasaq)	26,248	3.6
8. Indian Mackerel (Alumaban)	26,287	3.6
9. Roundscad (Galunggong)	23,506	3.2
10 Big-Eyed Scad (Matangbaka)	22,520	3.1
11 Others	415,702	56.8
Total	731,308	100.0

B. COMMERCIAL FISH CATCH BY MAJOR FISH SPECIES CY 1996, (IN MT)

Major Species	Total	% to Total
1. Roundscad (Galunggong)	200,418	22.8
2. Indian Sardines (Tamban)	111,722	12.7
3. Skipjack (Gulyasan)	90,971	10.3
4. Finbrated Sardines (Tunsoy)	69,710	7.9
5. Frigate Tuna (Tulingan)	50,288	5.7
6. Slipmouth (Sapsap)	36,191	4.1
7. Yellowfin Tuna (Tambakol)	33,290	3.8
8. Anchovies (Dilis)	32,220	3.7
9. Big-eyed scad (Matangbaka)	21,140	2.4
10. Indian Mackerel (Ahumahan)	19,085	2.2
11. Other Species	214,038	24.3
Total	879,073	100.0

**A. COMMERCIAL FISHERIES PRODUCTION,
BY REGION, 1996 (IN MT)**

Region	Marine Commercial
NCR	239,004
CAR	0
I	1,923
II	5,643
III	8,291
IV	103,456
V	21,013
VI	119,922
VII	58,817
VIII	28,476
IX	173,382
X	17,729
XI	68,589
XII	4,483
XIII	3,585
ARMM	24,760
TOTAL	879,073

COMMERCIAL FISHERIES FISH PRODUCTION, 1996

(Fishing in the offshore waters with the use of
fishing vessels more than 3 gross tons.)

D. NUMBER OF MUNICIPAL FISHING BANCAS,
BY REGION

Region	1980 ^{5/}			1985 ^{9/}		
	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%

D. NUMBER OF COMMERCIAL FISHING VESSEL
BY REGION, 1994 10/

Region	Number	Gross Tonnage
I	59	1,227
II	168	1,327
III	298	4,815
IV *	1,224	139,003
V	145	4,251
VI	759	33,890
VII	116	3,068
VIII	260	3,236
IX	296	3,923
X	49	1,150
XI	602	19,449
XII	3	122
ARMM	35	529
Total	4,014	216,090

* Includes Commercial Fishing Boat License by BFAR

**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

A. EXPORT

1. Export of Fish and Fishery Products By Kind, Quantity and Value, 1996

Kind	Quantity (MT)	FOB Value	
		(000 P)	(000 \$)
1. Fish Crustaceans, Mollusks, Etc. and Preparation	124,375	12,229,034	438,241
a. Fish fresh (live or dead) chilled or frozen	32,039	1,890,815	72,759
b. Fish, dried, salted or in brine, smoked fish	575	66,552	2,556
c. Crustaceans, mollusks and aquatic invertebrates	28,568	6,543,652	219,621
d. Fish and other aquatic invertebrate, prepared/ preserved	63,193	3,728,015	143,305
2. Shells and By-Products	2,329	400,282	15,377
3. Miscellaneous and Other Fishery Products	37,969	2,481,232	95,693
GRAND TOTAL	164,673	15,110,548	549,311

EXTERNAL TRADE

Commodity/Kind	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
5. Cuttlefish/squid	2,271	412,984	15,933
Fresh/chilled	18	1,249	48
Frozen/dried/salted	2,241	410,172	15,825
Prepared/preserved	12	1,563	60
6. Crabs/crabs fat	2,174	252,426	9,693
Frozen	2,082	222,142	8,531
Other than frozen	1	319	12
Prepared/preserved	91	29,965	1,150
7. Ornamental fish, live	6,006	200,257	7,705
8. Cultured pearls, worked, (GK)	n	157,073	6,030
9. Fish fillet	734	134,927	5,190
Fresh/chilled	600	112,068	4,312
Frozen	134	22,859	878
10. Worked capiz shells and articles(includg articles obtained by molding), (GK)	498	115,845	4,450
Total major commodities	144,783	12,830,804	493,673
Total of other commodities	19,890	2,279,744	55,638
Grand Total	164,673	15,110,548	549,311

2. Major Fishery Exports in Terms of Value, CY 1996

Commodity/Kind	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
1. Tuna	75,494	4,534,336	174,392
Fresh/chilled/frozen	17,071	1,118,538	43,099
Smoked	49	12,018	461
Canned	58,374	3,403,780	130,832
2. Shrimp/Prawn	13,514	3,988,915	153,354
Fresh/chilled/frozen	13,149	3,900,957	149,959
Other than frozen	365	87,958	3,395
3. Seaweeds	37,148	2,442,411	94,198
Seaweeds & other Algae, nes	26,408	1,083,713	41,974
Seaweeds & algae for food	25	2,150	83
Carrageenan	10,347	1,352,735	51,995
Keip powder	363	3,301	127
Seaweeds & other algae for dyeing, tanning in perfummary, pharmacy	5	512	19
4. Octopus	6,944	591,630	22,728
Frozen/dried/salted	6,944	591,630	22,728

Commodity/Country	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
5. Cuttlefish/Squid	2,271	412,984	15,933
Japan	1,501	319,574	12,338
Hongkong	591	72,638	2,796
U S A	60	10,326	396
Others	119	10,446	403
6. Crabs/crab fats	2,174	252,426	9,693
Hongkong	1,588	167,506	6,433
U S A	86	28,656	1,100
Singapore	257	26,857	1,032
Others	243	29,407	1,128
7. Ornamental Fish	6,006	200,257	7,705
U S A	2,698	97,312	3,744
Japan	1,372	44,711	1,720
China, (Taiwan)	513	17,840	687
Others	1,423	40,394	1,554
8. Cultured Pearls	n	157,073	6,030
Japan	n	82,495	3,171
Hongkong	n	71,386	2,736
Switzerland	n	3,114	120
Others	n	78	3

3. Major Fishery Exports by Country of Destination, 1996

Commodity/Country	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
1. Tuna	75,494	4,534,336	174,392
U S A	18,239	1,103,004	42,453
Japan	16,315	1,089,145	41,970
Singapore	8,243	453,369	17,435
Others	32,697	1,888,818	72,534
2. Shrimp/Prawn	13,514	3,988,915	153,354
Japan	9,982	3,140,532	120,732
Korea	1,593	361,804	13,913
U S A	1,052	297,114	11,423
Others	887	189,465	7,286
3. Seaweeds	37,148	2,442,411	94,198
United Kingdom	4,471	466,403	17,925
France	6,738	344,918	13,441
U S A	3,030	288,857	11,106
Others	22,909	1,342,233	51,726
4. Octopus	6,944	591,630	22,728
U S A	3,816	329,282	12,667
Portugal	1,138	91,070	3,496
Puerto Rico	730	61,969	2,379
Others	1,260	109,309	4,186

Commodity/Country	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
9. Fish Fillet	734	134,927	5,190
Japan	436	81,495	3,134
Hongkong	156	23,110	1,080
U S A	83	15,611	603
Others	59	9,711	373
10. Worked Capiz Shells and Articles	498	115,845	4,450
U S A	116	39,307	1,510
Germany	66	20,532	791
United Kingdom	102	13,282	512
Others	214	42,724	1,637
Total Major Commodities	144,783	12,830,804	493,673
Total Other Commodities	19,890	2,279,744	55,638
Grand Total	164,673	15,110,548	549,311

4. FISHERY EXPORTS, BY MAJOR COUNTRY OF DESTINATION, IN TERMS OF VALUE

Country/Destination	Quantity (MT)	FOB Value (000 P)	FOB Value (000 \$)
Japan	34,336	5,260,637	202,360
U S A	32,205	2,366,080	91,022
China, (Taiwan)	3,218	1,066,560	9,054
United Kingdom	11,103	841,702	32,340
Hongkong	11,514	836,305	32,128
Singapore	9,908	597,866	23,109
Germany	9,001	573,905	22,058
Korea	6,349	562,831	21,650
Canada	7,660	561,761	21,552
South Africa	5,700	359,145	13,804
Total Major Countries	130,994	13,026,792	469,077
Other Countries	33,679	2,083,756	80,235
Grand Total	164,673	15,110,548	549,312

Source of data: National Statistics Office (NSO)

B. IMPORT

1. Imports of Fish and Fishery Products By Kind, Quantity and Value, 1996

Commodity	Quantity (MT)	FOB Value (000 P)	(000 \$)
Fresh/Frozen/Chilled	163,390	1,702,452	64,563
Flour, Meals & Pellets of Fish Crustaceans and Mollusks Unfit for Human Consumption	87,888	1,286,401	49,222
Canned	1,689	64,326	2,448
Salted, Dried, Smoked, etc.	5,067	49,393	1,880
Other Commodities	4,552	75,558	2,883
GRAND TOTAL	262,586	3,178,130	120,996

MAJOR FISHERIES EXPORT IN TERMS OF VALUE, 1996

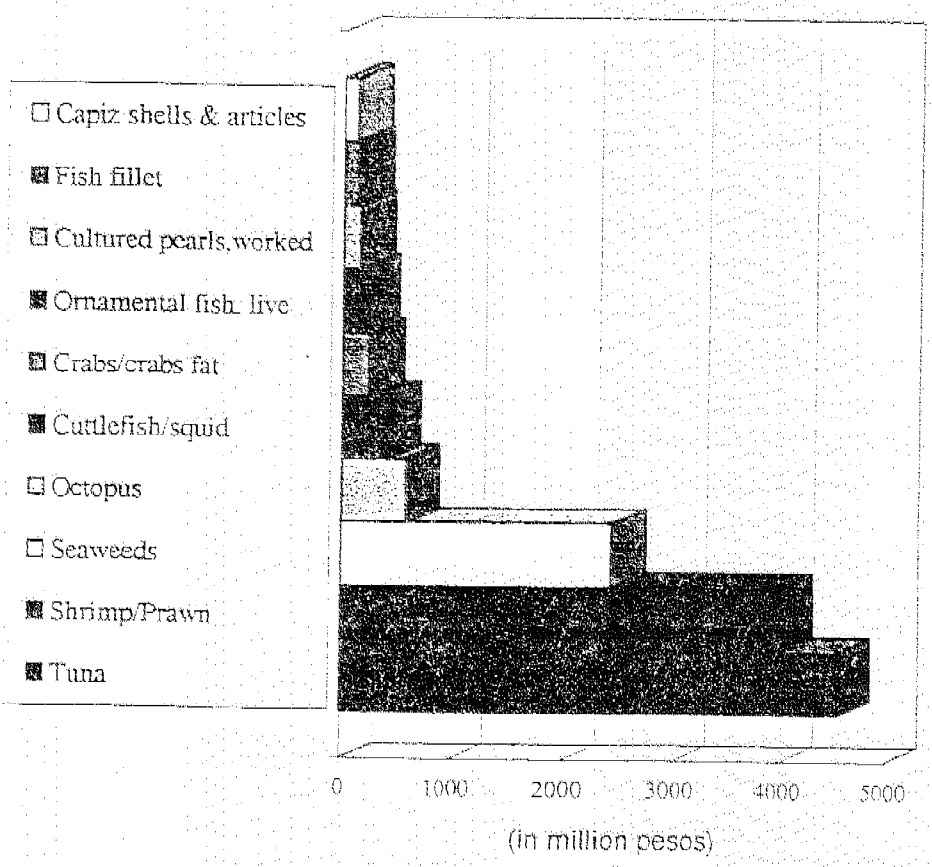


Figure 5

2. Major Fishery Imports in Terms of Value, 1996

COMMODITY/KIND	QUANTITY (MT)	FOB VALUE (000 P)	FOB VALUE (000 \$)
1. Chilled frozen fish	159,940	1,618,231	61,351
a) Tuna	52,398	843,524	31,787
Papua New Guinea	17,003	289,773	10,965
Trust Territory . . .	12,121	187,010	7,052
Others	23,274	366,741	13,770
b) Sardines	6,296	39,244	1,496
U S A	4,568	28,280	1,080
Others	1,728	10,964	416
c) Mackerel	101,246	735,463	28,068
Korea	46,613	344,961	13,184
China, (Taiwan)	32,763	233,223	8,901
Others	21,870	157,279	5,983
2. Fish Meal	90,478	1,286,401	49,222
Peru	62,608	874,050	33,503
Chile	12,639	199,168	7,593
Others	15,231	213,183	8,126
Total major imports	250,418	2,904,632	110,573
Other Commodities	12,168	273,498	10,423
Grand Total	262,586	3,178,130	120,996

3. Fishery Imports, By Major Country Of Origin
In Terms of Value, 1996

Major Countries	QUANTITY (MT)	FOB VALUE (000 P)	FOB VALUE (000 \$)
Peru	62,795	876,914	33,612
China, (Taiwan)	41,906	392,828	14,831
Korea	47,785	364,251	13,918
U S A	21,929	296,488	11,307
Papua New Guinea	17,003	289,773	10,965
Chile	12,850	205,234	7,825
Japan	18,250	190,193	7,224
Trust Territory ...	12,122	187,010	7,052
Indonesia	6,649	103,500	3,911
Singapore	5,886	85,133	3,240
Total major countries	247,175	2,991,324	113,885
Other Countries	15,411	186,806	7,111
Grand Total	262,586	3,178,130	120,996

fn:imp963

**OTHER FISHERY INDUSTRY
INFORMATION**

FOOD CONSUMPTION 11/

A. Per Capita Food Consumption, Kilogram/
Year and Gram/Day, Philippines, 1953

Food Group/Subgroup	Consumption (Raw, As Purchased) *		% of Total Food Intake	
	kg/year	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	5		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

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

**B. Per Capita Food Consumption (As Purchased Form)
of Fish and Fishery Products, as of 1993 (Kg/Year)**

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
	Dahagang Sukid	n
	Sapaso	1
	Burage	1
	Tilapia	1
	Albakors/Tambakol	1
	Bahila 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 recipes)	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 (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 & 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 Type of Culture,
By Region, 1995 ***

Area: Hectares

Region	Total Aqua- culture	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	196.88	3.53		12.89	
CAR	112.22	0	65.03		47.19			
I	9,619.00	8726	797.46	1.35	2.00	92.19		
II	1,874.68	1367	490.32		12.87	4.49		
III	38,884.44	34368	4,427.44	5.06	32.28	51.66		
IV	14,668.48	10168	73.39	3,992.38	365.23	8.13	24.81	36.54
V	6,312.59	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	381.31
VIII	2,469.42	2433	5.29				28.22	2.91
IX	29,286.66	27304	15.04	5.86		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	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, 1994

Country	Production (000 MT)	% Share to Total
1. China	20,718	18.9
2. Peru	11,587	10.6
3. Chile	7,841	7.2
4. Japan	7,363	6.7
5. U S A	5,940	5.4
6. India	4,540	4.1
7. Indonesia	3,954	3.6
8. Russian Fed.	3,780	3.4
9. Thailand	3,432	3.1
10. Korea D P Rp	2,700	2.5
11. Norway	2,551	2.3
12. Philippines	2,276	2.1
13. Others	32,903	30.0
World Total	109,585	100.0

Source of data: FAO Yearbook, 1994

E. PRODUCTION OF SEAWEEDS AND OTHER AQUATIC PLANTS BY PRINCIPAL PRODUCERS, 1994

Country	Production (000 MT)	% Share to Total
1. China	4,916	62.7
2a. Japan	777	9.9
2b. Korea Rep	777	9.9
3. Philippines	405	5.2
4. Norway	185	2.4
5. Chile	182	2.3
6a. Indonesia	126	1.6
6b. Korea D P Rp	123	1.6
7. Others	348	4.4
World Total	7,839	100.0

Source of data: FAO Yearbook, 1994

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, 1997
National Statistical Coordination Board (NSCB)
- 4/ 1987 Fisheries Statistics, Bureau of Fisheries and Aquatic Resources (BFAR)
- 5/ 1980 Census of Fisheries
- 6/ National Statistics Office (NSO)
- 7/ Fisheries Statistics Section, BAS
- 8/ Lakes and Reservoirs, State of the Art Series, report no. 1, PCARRD.
- 9/ Regional Fish Expanded Program and Provincial Fisheries Data
- 10/ International Licenses Division, BFAR
- 11/ Department of Science & Technology (DOST)
Fourth National Nutrition Survey, Phil. 1993

Prepared by Fisheries Policy Research and Economics Division
August 1997