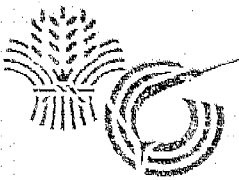
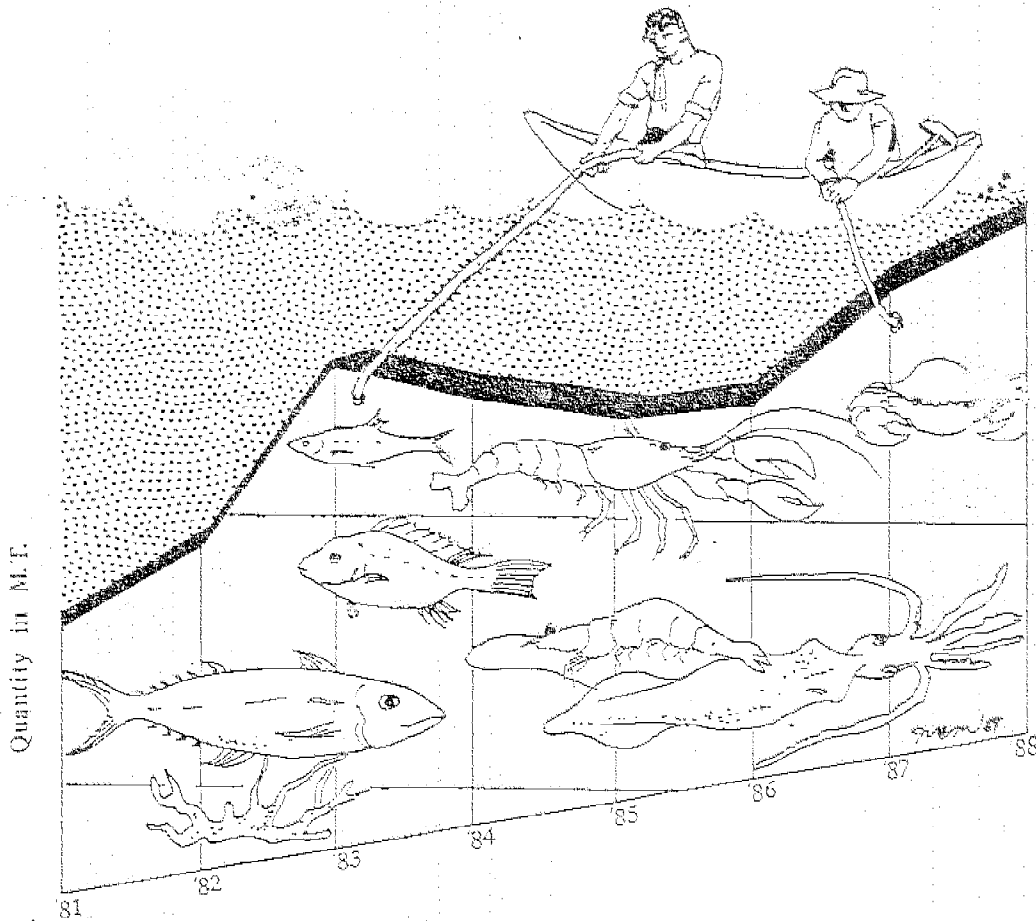


PHILIPPINE FISHERIES PROFILE 1988



DEPARTMENT OF AGRICULTURE
Bureau of Fisheries and Aquatic Resources
860 Quezon Ave., Quezon City, Metro Manila

HIGHLIGHTS

- Fisheries as an economic sector accounted for 4.5% of the Philippine Gross National Product (GNP) in 1988 and makes an important contribution to the economy in terms of income, employment, contribution and export earnings.
- The fishing industry directly employs an estimated 1 million fishermen and fishfarmers, out of which 250,000 are engaged in aquaculture operations, about 700,000 in municipal fisheries and 57,000 in commercial fishing.
- The annual growth rates achieved by the Philippine fisheries from 1979 to 1988 were registered at 4.1% and 16.7% in quantity and value, respectively.
- The total fish production for 1988 reached 3.27 million metric tons, largely contributed by municipal capture fisheries (47.2%), followed by commercial fisheries (26.4%) and the rest by the aquaculture sector (26.4%).
- The Philippines has had a positive balance of trade in fish and fishery products since 1975 and, currently, fish products constitute about 4.9% of the total value of national foreign exchange earnings. The value of fisheries exports increased steadily from P782 million (64,890 mt) in 1979 to P9.600 billion (126,903 mt) in 1988.
- Fish meal, a vital component of animal feeds, comprises the bulk of the country's fishery imports. For 1988, the major fishery imports were composed of fishmeal, 44% (P574 M), followed by frozen sardines/mackerels, 33% (P437 M) frozen tuna, 18% (P245) and canned sardines, cuttlefish and squid 4% (P51 M).

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PART I
FISHERY RESOURCES

PHILIPPINE FISHERIES PROFILE
AS OF DECEMBER 1988

I. FISHERY RESOURCES

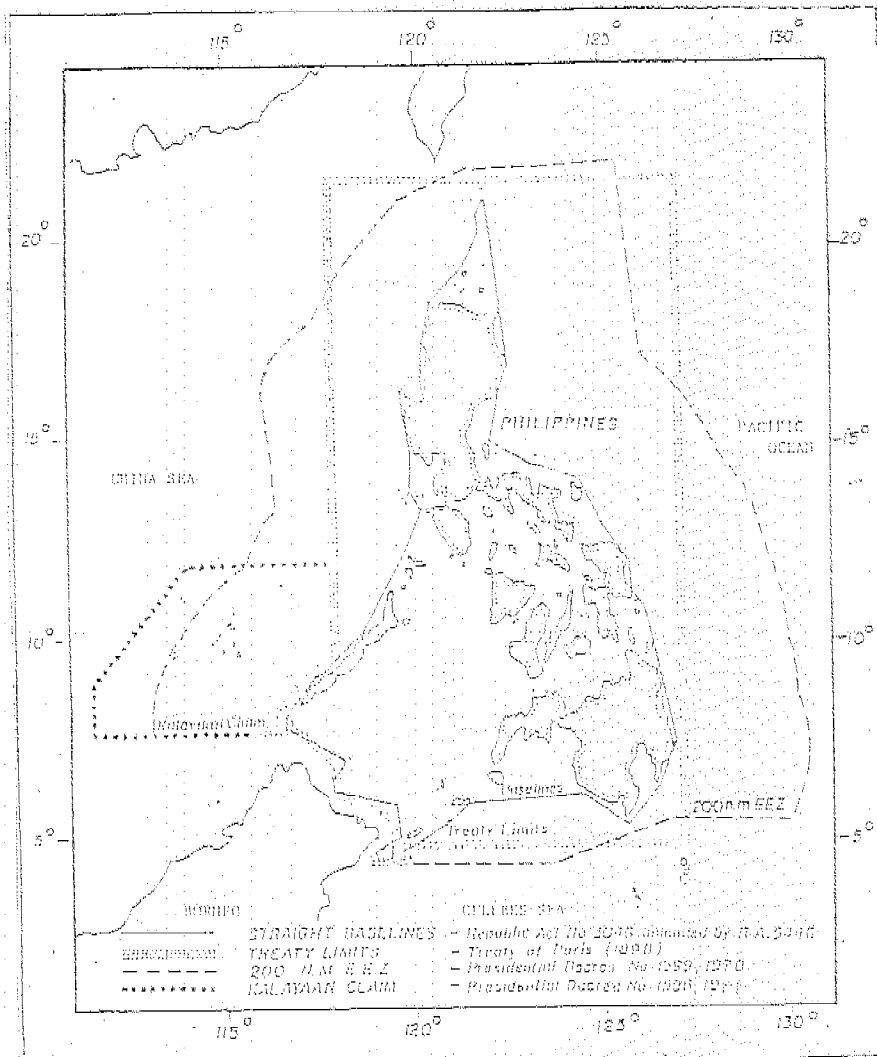
A. Marine Resources

1. Total Territorial Water Area (including the EEZ)	<u>220,000,000 ha.</u>
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.)	<u>18,460,000 ha.</u> (8% of the total)
3. Coral Reef Area	<u>27,000 sq. km.</u> (Within the 10-20 fathoms where reef fisheries occur)
4. Coastline (length)	<u>17,460 km.</u>

B. Inland Resources

1. Swamplands ^{1/}	<u>538,395 ha.</u>
a. Freshwater	106,328 ha.
b. Brackishwater	232,065 ha.
2. Existing Fishpond ^{2/}	<u>224,527 ha.</u>
a. Freshwater	15,847 ha.
b. Brackishwater	210,680 ha.
3. Other Inland Resources	<u>250,000 ha.</u>
a. Lakes	200,000 ha.
b. Rivers	31,000 ha.
c. Reservoirs	19,000 ha.

PHILIPPINE MARINE JURISDICTIONAL BOUNDARIES



PART II
FISHERIES CONTRIBUTION TO ECONOMY

II. FISHERIES CONTRIBUTION TO ECONOMY

A. Fisheries Contribution to total GNP^{3/}

1. At Current Prices - 4.50%
2. At Constant Prices - 4.78%

B. Fisheries Contribution to Agriculture Sector

	<u>At Current</u> <u>Prices</u> <u>(In MY)</u>	<u>At Constant</u> <u>Prices</u> <u>(In MY)</u>
1. Agricultural Crops (Palay, corn, coconut and etc.)	106,860	16,546
2. Livestock	13,792	2,647
3. Poultry	18,988	3,055
4. Fishery	37,227	4,854
5. Forestry	<u>15,121</u>	<u>689</u>
Total -----	189,988	27,771

C. Employment

1. Aquaculture	250,000 persons ^{4/}
2. Municipal Fisheries	675,677 persons ^{5/}
3. Commercial Fisheries	<u>56,715 persons^{4/}</u>
Total -----	982,392 persons

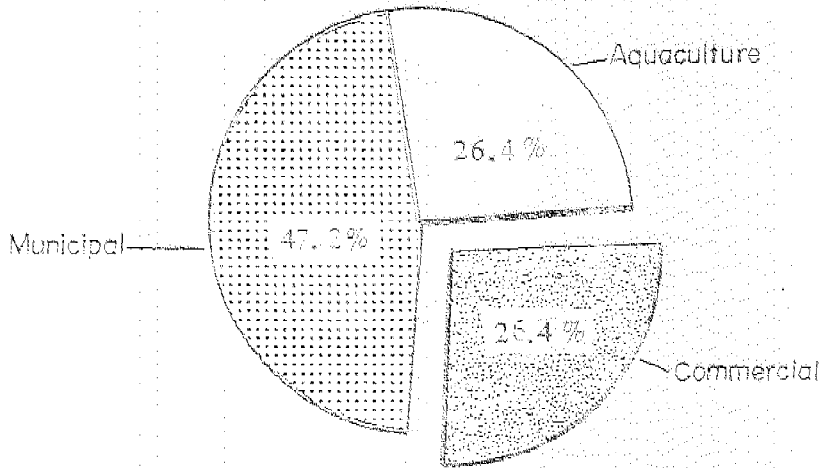
D. Balance of Trade

	1986		1987		1988 ^{6/}	
	Quantity (MT)	Value (P M)	Quantity (MT)	Value (P M)	Quantity (MT)	Value (P M)
Fishery Exports	101,453	4,863.0	111,830	6,441.8	128,903	9,599.4
Fishery Imports	69,084	385.6	104,936	637.4	164,575	1,312.5
Balance of Trade	32,369	4,477.4	6,894	5,804.4	(35,672)	8,286.9

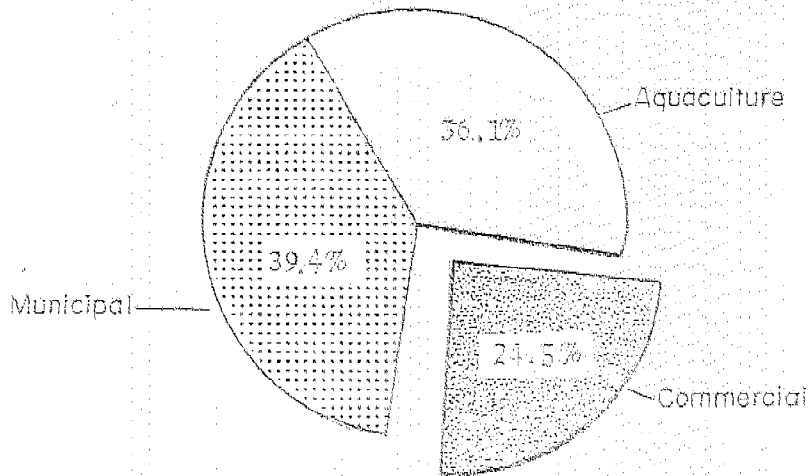
E. Total Fish Production by Sector for 1988 ^{7/}

	Quantity (000 MT)	%	Value (P B)	%
1. Aquaculture	600	26.4	15.2	36.1
2. Municipal Fisheries	1,070	47.2	16.6	39.4
3. Commercial Fisheries	600	26.4	10.5	24.5
Total -----	2,270	100.0	42.3	100.0

TOTAL FISH PRODUCTION
BY QUANTITY AND VALUE, 1998



QUANTITY: 2,369,744 MT



VALUE: 12,118,213 (P/M)

PART III
EXTERNAL TRADE

III. EXTERNAL TRADE

A. Export

1. Exports of Fish and Fishery Products^{6/}
By Kind, Quantity and Value, 1988

<u>Item</u>	<u>Quantity (MT)</u>	<u>% To Total Exports</u>	<u>Value (000.1)</u>	<u>% To Total Exports</u>
<u>Fish and Fish Preparation</u>	<u>91,304</u>	<u>70.83</u>	<u>8,545,045</u>	<u>89.00</u>
- Fish fresh (live or dead) chilled or frozen	18,050	14.00	712,561	7.42
- Fish dried, salted or in brine, smoked fish (whether or not cooked before or during smoking)	768	0.60	33,584	0.35
- Crustaceans, mollusks whether in shell or not, fresh (live or dead) chilled, frozen, salted or in brine or dried; Crustaceans in shells simply boiled in water	30,859	23.94	5,683,911	59.21
- Fish, Crustaceans and Mollusks prepared or preserved, n.e.s.	41,627	32.29	2,113,836	22.02
<u>Shells & By Products</u>	<u>10,137</u>	<u>7.86</u>	<u>463,383</u>	<u>4.83</u>
<u>Miscellaneous Fishery Products & By Products</u>	<u>27,462</u>	<u>21.31</u>	<u>592,158</u>	<u>6.17</u>
Grand Total -----	<u>128,903</u>	<u>100.00</u>	<u>9,599,433</u>	<u>100.00</u>

2. Major Fisheries Export in Terms of Value, 1988

	<u>Quantity</u> (MT)	<u>Value</u> (000 ₱)
1. <u>Shrimp/Prawn</u>	24,292	5,275,755
- Frozen/chilled	23,536	5,250,190
- Salted, dried, cooked	592	37,825
- Prepared whether or not in airtight containers	164	7,740
2. <u>Tuna</u>	47,452	2,375,243
- Frozen/chilled	10,515	462,129
- Prepared or preserved in airtight containers	37,137	1,911,114
3. <u>Seaweeds, dried</u>	26,651	563,813
4. <u>Shellcraft Articles</u>	2,228	275,557
- Lamp shades, lighting shells	2,225	275,229
- Handbags of shell	3	328
5. <u>Cuttlefish/Squid</u>	3,158	223,546
- Fresh/Frozen/chilled	2,790	202,722
- Salted/Dried/Smoked	333	18,672
- Prepared or preserved whether or not in airtight containers	35	2,152
6. <u>Fish Kept Alive for Transport</u>	5,036	128,612
7. <u>Capiz Shells (worked)</u>	5,393	99,975
8. <u>Clams (prepared or preserved whether or not in airtight containers)</u>	1,703	97,635
9. <u>Bangus (milkfish)</u>	1,613	75,857
- Frozen/chilled	1,512	69,509
- Smoked	11	682
- Prepared as preserved in airtight containers	90	5,666
10. <u>Seacucumber (Trepang)</u>	2,062	49,395
11. <u>Others</u>	9,315	436,047
Total -----	<u>128,903</u>	<u>9,599,435</u>

III. EXTERNAL TRADE (con't.)

A. Export ...

3. Major Country of Destination of Philippine Export of Fish and Fishery Products In Terms of Value, 1988

	<u>Quantity</u> (MT)	<u>% TO</u> <u>Total</u> <u>Exports</u>	<u>Value</u> (000 ₱)	<u>% To</u> <u>Total</u> <u>Exports</u>
1. Japan	55,505	26.00	5,038,184	52.48
2. U.S.A.	27,560	21.38	1,790,521	18.65
3. West Germany	14,263	11.07	686,818	7.15
4. United Kingdom	6,773	5.25	364,309	3.80
5. Canada	5,084	3.94	308,554	3.21
6. Hongkong	4,169	3.25	120,982	1.26
7. Denmark	7,749	6.01	112,153	1.17
8. Hawaii	1,223	0.95	102,487	1.07
9. France	5,260	4.08	95,345	1.00
10. Italy	1,079	0.84	46,748	0.49
11. Other Countries	22,238	17.25	935,352	9.71
Total	<u>128,903</u>	<u>100.00</u>	<u>9,599,433</u>	<u>100.00</u>

III. EXTERNAL TRADE (con't.)

B. Import

1. Imports of Fish and Fishery Products
By Kind, Quantity and Value, 1988 6/

<u>Item</u>	<u>Quantity</u> <u>(MT)</u>	<u>% To Total</u> <u>Imports</u>	<u>Value</u> <u>(000 P)</u>	<u>% To Total</u> <u>Imports</u>
Canned	2,901	11.76	54,295	4.14
Fresh/Frozen/ Chilled	113,879	69.20	682,661	52.01
Fish Meal	47,784	29.05	574,271	43.76
Salted, Dried, Smoked, etc.	11	0.01	1,240	0.09
Grand Total	<u>164,575</u>	<u>100.00</u>	<u>1,312,467</u>	<u>100.00</u>

B. Import ...

2. Major Fishery Imports, 1988

	<u>Quantity</u> (MT)	<u>Value</u> (000 ₪)
1. <u>Tuna, Frozen</u>	<u>18,552</u>	<u>242,957</u>
- Indonesia	1,605	19,131
- Japan	12,907	173,806
- Papua New Guinea	2,681	38,648
- Others	1,359	11,352
2. <u>Frozen Sardines/Mackerels & Others</u>	<u>95,304</u>	<u>437,367</u>
- Japan	95,066	434,248
- Others	238	3,119
3. <u>Sardines, Prepared or Preserved</u> <u>in airtight containers</u>	<u>1,242</u>	<u>21,180</u>
- Hongkong	301	3,839
- Japan	300	4,975
- Korea	95	1,611
- Portugal	83	5,081
- Singapore	195	1,119
- U.S.A.	107	1,866
- Others	161	26,890
4. <u>Cuttlefish & Squid, Prepared or</u> <u>Preserved whether or not in</u> <u>airtight containers</u>	<u>1,492</u>	<u>30,184</u>
- Malaysia	50	1,115
- Thailand	45	1,249
- U.S.A.	1,371	26,867
- Others	26	953
5. <u>Fish Meal</u>	<u>47,785</u>	<u>574,270</u>
- Canada	377	4,578
- Chile	5,178	66,677
- Taiwan	4,334	37,191
- Japan	10,282	243,725
- Peru	25,803	208,079
- Thailand	1,079	6,995
- U.S.A.	358	4,723
- Others	374	2,304
6. <u>Others</u>	<u>200</u>	<u>6,529</u>
GRAND TOTAL -----	<u>164,575</u>	<u>1,312,467</u>

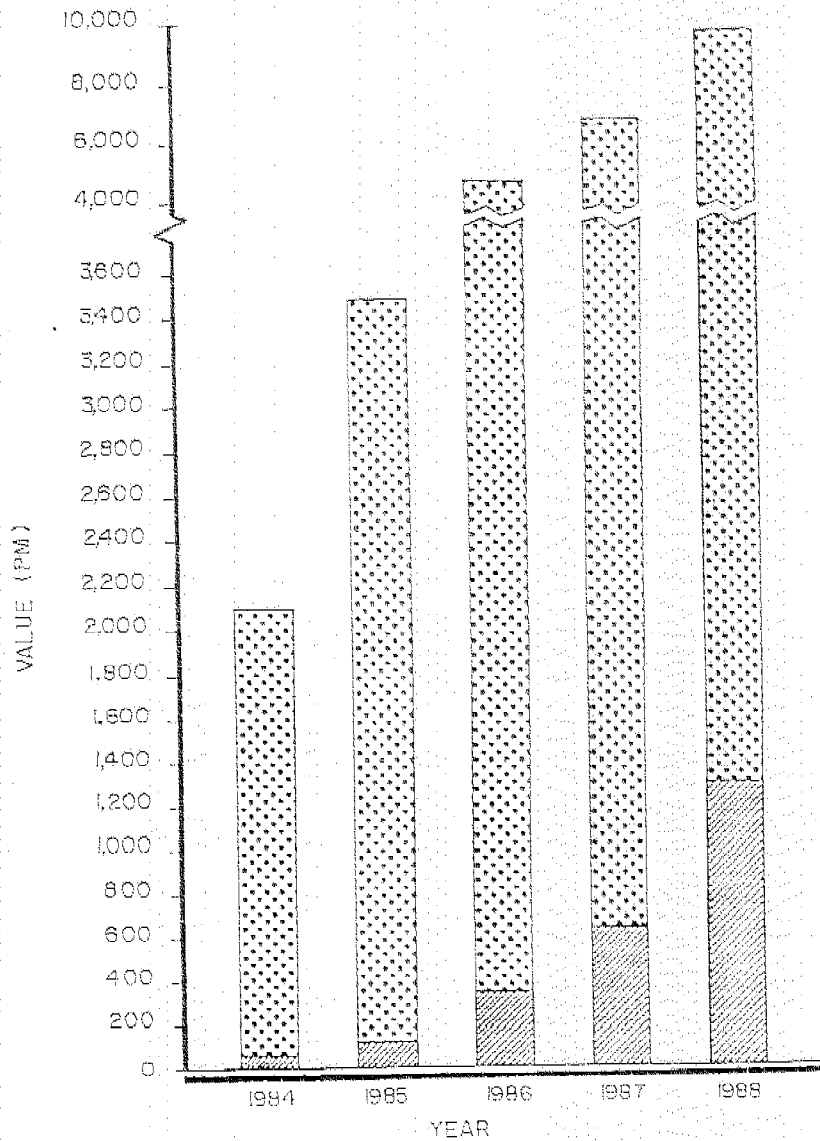
B. Imports ...

3. Major Sources of Fishery Imports in Terms of Value, 1988

	<u>Quantity</u> (MT)	<u>Percent</u> <u>To Total</u> <u>Imports</u>	<u>Value</u> (000 Y)	<u>Percent</u> <u>To Total</u> <u>Imports</u>
1. Japan	118,563	72.04	856,886	65.29
2. Peru	25,803	15.68	208,079	15.85
3. Chile	5,178	3.15	66,677	5.08
4. New Guinea	2,851	1.73	39,533	3.00
5. Taiwan	4,429	2.69	58,740	2.95
6. U.S.A.	1,840	1.12	53,534	2.55
7. Indonesia	1,606	0.98	19,131	1.46
8. Singapore	846	0.51	12,354	0.94
9. Thailand	1,153	0.70	8,379	0.64
10. Hongkong	481	0.29	7,752	0.59
11. Other Countries	1,825	1.11	21,502	1.65
Total -----	<u>164,575</u>	<u>100.00</u>	<u>1,312,467</u>	<u>100.00</u>

COMPARISON OF FISHERY EXPORTS & IMPORTS

(in P-VALUE, 1984-1988)



Legend:
- EXPORT
- IMPORT

IV. PHILIPPINE FISH PRODUCTION

A. Five-Year Fish Production Trend (1984-1988)

<u>Year</u>	<u>Quantity (MT)</u>	<u>% Increase/ (Decrease)</u>	<u>Value (000 P)</u>	<u>% Increase (Decrease)</u>
1988 ^{7/}	2,269,744	2.56	42,118,215	12.77
1987	2,213,040	5.91	37,349,479	0.05
1986	2,089,484	1.82	37,351,483	19.28
1985	2,052,111	(1.36)	31,297,268	22.02
1984	2,080,439	(1.41)	25,649,953	35.13

B. Fish Production by Sector (1979-1988)
(In Metric Tons)

<u>Year</u>	<u>Aquaculture^{8/}</u>	<u>Municipal^{9/}</u>	<u>Commercial</u>	<u>Total</u>
1988 ^{7/}	599,534	1,070,195	599,995	2,269,744
1987	560,970	1,060,878	591,192	2,213,040
1986	470,895	1,072,361	546,230	2,089,484
1985	494,742	1,045,382	511,987	2,052,111
1984	477,887	1,089,046	513,535	2,080,268
1983	445,073	1,145,841	519,516	2,110,250
1982	392,348	978,562	526,273	1,896,983
1981	339,501	938,628	494,768	1,772,897
1980	289,166	894,610	488,478	1,672,254
1979	241,198	839,558	500,747	1,581,503

PART IV

PHILIPPINE FISH PRODUCTION

C. Fish Production, By Sector, By Region, 19881. Aquaculture Fish Productiona. Freshwater Fishponds in Operation

<u>Region</u>	<u>Total Area (ha)</u>	<u>Production (MT)</u>			
		<u>Total</u>	<u>Tilapia</u>	<u>Carp</u>	<u>Others*</u>
NCR	-	-	-	-	-
CAR	135	304	304	-	-
I	1,342	1,891	1,298	303	290
II	875	1,204	1,204	-	-
III	9,114	27,311	25,548	1,965	-
IV	378	510	510	-	-
V	217	158	158	-	-
VI	554	498	465	35	-
VII	-	-	-	-	-
VIII	257	115	80	35	-
IX-A	-	-	-	-	-
IX-B	137	166	134	11	21
X	385	440	326	91	23
XI	254	216	216	-	-
XII	119	109	106	2	1
TOTAL--	<u>15,847</u>	<u>32,922</u>	<u>50,149</u>	<u>2,438</u>	<u>335</u>

* Dalag, hito and guorami

b. Brackishwater Fishponds in Operation

Region	Total Area (ha)	Total	Production (MT)*		
			Kangas	Sugpo	Others**
NCR	703	631	553	64	12
CAR	-	-	-	-	-
I	16,658	25,507	16,744	3,585	5,178
II	1,469	854	691	12	151
III	53,465	69,945	48,118	10,673	11,154
IV	23,281	18,183	9,312	7,652	1,219
V	11,028	5,675	3,971	800	904
VI	59,074	80,456	63,296	16,669	491
VII	7,110	6,652	6,589	263	-
VIII	5,977	2,721	2,265	384	74
IX-A	1,540	1,241	1,183	12	46
IX-B	14,861	13,501	11,564	190	1,747
X	4,526	2,921	2,784	110	27
XI	7,248	8,046	5,835	544	1,667
XII	5,940	3,873	3,230	590	53
TOTAL-----	<u>210,680</u>	<u>240,206</u>	<u>175,935</u>	<u>41,548</u>	<u>22,725</u>

* National Average Yield - 1.1402 MT/ha/yr

** Tilapia, white shrimps, endeavor prawns and mudcrab.

c. Production of Fishpen

<u>Region</u>	<u>Production (MT)</u>			
	<u>Total</u>	<u>Bangus</u>	<u>Tilapia</u>	<u>Carp</u>
NCR	3,776	1,775	1,586	415
CAR	-	-	-	-
I	14	10	3	1
II	-	-	-	-
III	39	29	6	4
IV	19,648	9,884	7,819	1,945
V	-	-	-	-
VI	-	-	-	-
VII	-	-	-	-
VIII	35	25	6	4
IX	260	189	45	28
X	-	-	-	-
XI	42	30	7	5
XII	-	-	-	-
TOTAL-----	<u>25,814</u>	<u>11,942</u>	<u>9,470</u>	<u>2,402</u>

d. Production of Fish Cages (MT)

Region	Production (MT)		
	Total	Tilapia	Carp
NCR	305	305	-
CAR	75	71	4
I	8	8	-
II	518	503	15
III	526	499	27
IV	11,171	10,498	673
V	5,483	5,209	274
VI	-	-	-
VII	-	-	-
VIII	64	61	3
IX	18	17	1
X	-	-	-
XI	286	272	14
XII	6	6	-
TOTAL	<u>18,260</u>	<u>17,249</u>	<u>1,011</u>

e. Mariculture Production
(In Metric Tons)

Region	Total	Type of Culture		
		Oysters	Mussels	Seaweeds
NCR	2,463	-	2,463	-
CAR	-	-	-	-
I	7,893	7,888	-	5
II	34	8	-	26
III	796	667	129	-
IV	11,850	1,196	6,098	4,556
V	187	126	44	17
VI	3,235	2,543	692	-
VII	16,573	-	-	16,573
VIII	8,784	-	6,076	2,708
IX	232,133	-	-	232,133
X	102	-	-	102
XI	302	17	-	285
XII	-	-	-	-
TOTAL-----	<u>284,352</u>	<u>12,445</u>	<u>15,502</u>	<u>256,405</u>

2. Municipal Fisheries Production, By Region, 1988
(In Metric Tons)

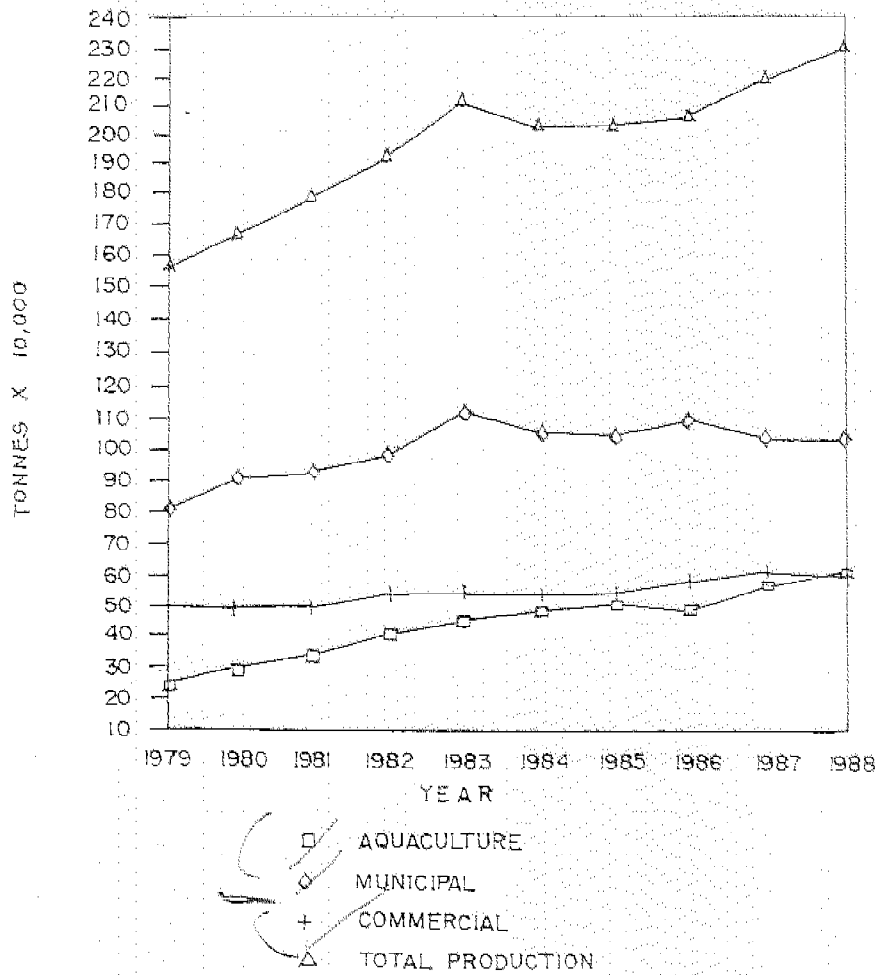
<u>Region</u>	<u>Marine</u>	<u>Inland</u>	<u>Total</u>
NCR	8,095	7	8,102
CAR	-	303	303
I	19,937	653	20,570
II	7,618	3,566	11,184
III	21,441	5,795	27,236
IV	145,255	194,161	337,394
V	85,621	5,376	88,997
VI	148,894	2,497	151,391
VII	22,962	23	22,985
VIII	34,888	614	35,502
IX	195,227	1,235	196,462
X	72,688	2,646	75,334
XI	55,638	646	56,284
XII	22,124	16,327	38,451
TOTAL-----	<u>858,366</u>	<u>251,829</u>	<u>1,070,195</u>

C. Fish Production, By Sector, By Region, 1988...

3. Commercial Fisheries Production, By Region, 1988
(In Metric Tons)

<u>Region</u>	<u>Marine Commercial</u>
NCR	185,272
CAR	-
I	5,300
II	7,677
III	9,930
IV	53,615
V	40,422
VI	124,715
VII	30,452
VIII	14,926
IX	82,510
X	6,295
XI	42,663
XII	420
TOTAL-----	<u><u>399,995</u></u>

PHILIPPINE FISH PRODUCTION BY SECTOR 1979-1988



PART V
OTHER FISHERY INDUSTRY INFORMATION

V. OTHER FISHERY INDUSTRY INFORMATION

A. Area of Freshwater and Brackishwater Fishponds
in Operations, By Region, 1988 (in hectares)

<u>Region</u>	<u>Freshwater</u> <u>Fishponds</u>	<u>Brackishwater</u> <u>Fishponds</u>
NCR	-	703
CAR	235	-
I	1,542	16,658
II	875	1,469
III	9,114	53,465
IV	378	25,281
V	217	11,028
VI	554	59,074
VII	-	7,110
VIII	257	5,977
IX-A	-	1,540
IX-B	137	14,861
X	385	4,326
XI	234	7,248
XII	119	5,940
TOTAL-----	<u>13,847</u>	<u>210,680</u>

V. OTHER FISHERY INDUSTRY ...

B. Number of Municipal Fishing Bancas, By Region

Region	Total	1980 ^{5/}		Total	1985 ^{10/}	
		Moto-Rized	Non-Moto-Rized		Moto-Rized	Non-Moto-Rized
NCR	3,223	2,465	760	3,555	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	21,453	13,685	7,748
IV	53,523	22,290	31,033	54,617	32,232	22,585
V	39,739	10,727	29,012	49,305	18,563	30,740
VI	27,524	8,788	18,736	28,327	12,882	15,445
VII	48,265	9,203	39,060	64,740	21,286	43,454
VIII	45,416	7,598	35,818	40,702	10,782	29,920
IX-A)	44,489	10,088	34,401	113,459	37,208	76,251
IX-B)						
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
GRAND TOTAL	<u>567,838</u>	<u>105,090</u>	<u>262,748</u>	<u>464,595</u>	<u>193,975</u>	<u>270,419</u>
% TO TOTAL	100%	29%	71%	100%	43%	58%

C. Number of Commercial Fishing Vessels by Region, 1988 11/

<u>Region</u>	<u>Number</u>	<u>Total Gross Tonnage</u>
NCR	1,154	88,441.01
I	40	799.65
II	64	408.61
III	59	932.57
IV	391	9,272.21
V	115	3,966.76
VI	293	16,458.86
VII	217	4,167.40
VIII	172	2,348.18
IX	258	10,471.94
X	42	1,199.02
XI	472	11,577.17
XII	8	216.18
TOTAL-----	<u>3,265</u>	<u>150,259.56</u>

D. Production of Commercial Fishing Vessels,
By Gear, 1988

<u>Type of Gear</u>	<u>Quantity</u> <u>(MT)</u>	<u>Percentage of Commercial</u> <u>Catch Accounted For</u>
Purse Seine	263,439	43.91
Otter Trawl	117,932	19.66
Bagnet	95,474	15.91
Others	<u>123,150</u>	<u>20.52</u>
TOTAL-----	<u>599,995</u>	<u>100.00</u>

VI. OTHER FISHERY INDUSTRY ...

E. Per Capita Consumption of Fish and Other Products ^{13/}
As of 1987 (Kg/Year)

<u>Food Group/Subgroup</u>	<u>Total</u> <u>(Kg/Year)</u>
1. <u>Fish</u>	<u>40.5</u>
a. <u>Fresh Fish</u>	<u>25.2</u>
- Tulingan (Frigate Tuna)	3.7
- Bangus (Milkfish)	1.8
- Galunggong (Roundscad)	4.4
- Dilis, Buo (Anchovy)	0.7
- Alumahan (Indian Mackerel)	1.1
- Tamban (Sardines)	1.1
- Dalagang Bukid (Fusilier)	0.7
- Sapsap (Slipmouth)	0.4
- Bisugo (Threadfin Bream)	0.7
- Tilapia (Cichlid)	1.1
- Others	9.5
b. <u>Dried Fish (as fresh fish)</u>	<u>4.4</u>
c. <u>Processed Fish</u>	<u>4.0*</u>
- Bagoong (as fresh fish)	1.5
- Patis	0.4
- Canned Fish (sardines, mackerel, salmon etc.)	1.1
- Smoked fish (all tinapa type)	1.1
- Others (as fresh fish)	
d. <u>Crustaceans and Mollusks</u>	<u>6.9</u>
- Shrimp (all type)	1.1
- Others (fresh)	5.1
- Dried and Processed (as fresh)	
- Bagoong (as fresh)	0.7

V. OTHER FISHERY INDUSTRY

2. Per Capita Consumption of Other Food as of 1987

	<u>Total</u> <u>(Kg/Year)</u>
1. Dairy	15.7
2. Poultry Meat	3.3
3. Eggs	3.7
4. Fresh Meat	<u>9.9</u>
- Pork	7.5
- Beef	1.8
- Carabeef	0.4
- Others	0.4
5. Organ Meat	<u>1.5</u>
- Pig	0.7
- Chicken and Other Poultry	0.4
- Processed organ meat	0.4
6. Processed Meat	<u>2.2</u>
- Popular processed meat (as fresh meat)	1.5
- Other cooked/canned (as fresh meat)	0.7

V. OTHER FISHERY INDUSTRY...

B. Major Species of Fish and Fishery Products Caught/
Produced/Gaugered in Philippine Waters, 1988

	<u>Quantity (MT)</u>	<u>% to Total Catch</u>
a. Marine Commercial and Marine Municipal Fisheries		
1. Tuna and tuna-like species	274,702	19.10
Frigate tunas (tulingan)	105,456	
Yellowfin and big-eyed tuna (tambakol)	57,060	
Skipjack (guliasan)	55,940	
Eastern little tuna (oceanic bonito katchorita)	56,266	
2. Roundscad (galonggong)	178,687	12.42
3. Anchovies (dilis)	126,373	8.79
4. Sardines (tunsoy, tamban)	96,405	6.70
5. Slipmouth (sapsap)	65,724	4.57
6. Indian mackerel (altmahan)	51,758	3.60
7. Thread fin bream (bisugo)	43,551	3.01
8. Big-eyed scad (matangbaka)	36,550	2.54
9. Round herring (tulis)	35,624	2.48
10. Squid (Pusit)	28,855	2.00
11. Others	500,582	34.79
TOTAL-----	<u>1,458,561</u>	<u>100.00</u>

1,000,000

V. OTHER FISHERY INDUSTRY...

F. Major Species Caught...

b. Inland Municipal Fisheries

<u>Species</u>	<u>Quantity</u>	<u>% To Total Catch</u>
Suso (snails)	134,119	57.85
Tilapia (cichlid)	19,960	8.61
Carp	12,055	5.20
Tulya (freshwater clams)	11,659	5.02
Biya (freshwater goby)	8,006	3.45
Others	46,030	19.87
TOTAL-----	<u>231,829</u>	<u>100.00</u>

c. Aquaculture Fisheries

<u>Species</u>	<u>Quantity</u>	<u>% To Total Catch</u>
Seaweeds	256,405	42.76
Bangos (milkfish)	187,877	31.34
Tilapia (cichlid)	74,046	12.52
Shrimps/Prawns	44,957	7.50
- Tiger Prawn	41,548	
- White shrimps	2,727	
- Endeavor Prawns	682	
Mussel	15,502	2.58
Others	19,767	3.30
TOTAL-----	<u>599,554</u>	<u>100.00</u>

V. OTHER FISHERY INDUSTRY...

G. Commercial Fishery Production by Statistical Fishing Areas 1988 (NT)

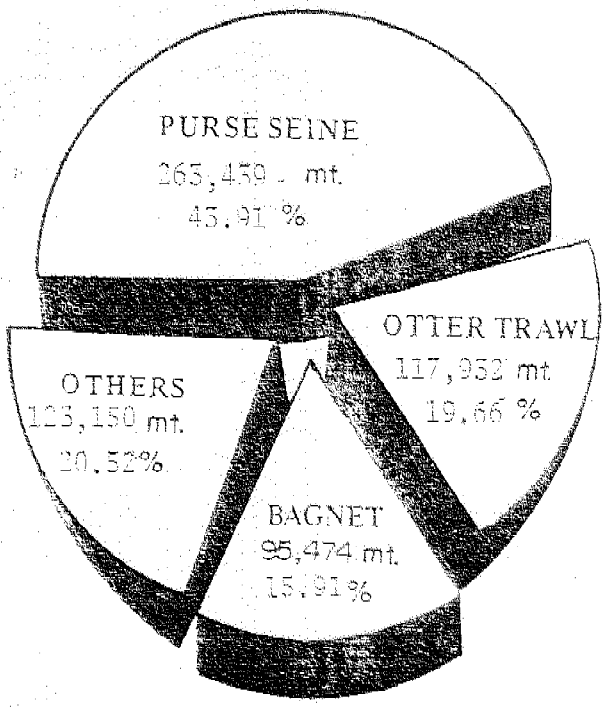
<u>Statistical Fishing Area</u>	<u>Total</u>
1. Sulu Sea, West	135,290
2. Visayan Sea	129,198
3. Moro Gulf	71,964
4. Sulu Sea, East	49,424
5. Sulu Sea, South	37,799
6. Lamon Bay	51,158
7. Cuyo Pass	30,545
8. Manila Bay	18,174
9. Bohol Sea	13,985
10. Ragay Gulf	13,444
11. Guimaras Strait	11,815
12. Sibuyan Sea	10,685
13. Tavares Bay	10,600
14. Babuyan Charnel	7,677
15. Lingayen Gulf	6,046
16. Samar Sea	4,749
17. Camotes Sea	4,576
18. Batangas Coast	3,877
19. West Palawan Waters	3,832
20. Davao Gulf	2,492
21. Leyte Gulf	3,146
22. Lagonoy Gulf	541
TOTAL-----	<u>599,995</u>

V. OTHER FISHERY INDUSTRY ...

H. Ten Major Lakes of the Philippines ^{15/}

<u>Name of Lakes</u>	<u>Location</u>	<u>Area (Ha)</u>
1. Laguna de Bay	Laguna and Rizal	90,000
2. Lake Lanao	Lanao del Sur	34,000
3. Taal Lake	Batangas	33,452
4. Naujan Lake	Oriental Mindoro	8,000
5. Lake Mainit	Surigao del Sur & Agusan del Norte	7,340
6. Lake Buluan	Maguindanao and Sultan Kudarat	6,500
7. Lake Bato	Camarines Sur and Albay Provinces	3,800
8. Lake Buhi	Camarines Sur	1,800
9. Lake Wood	Zamboanga del Sur	720
10. Lake Danao	Camotes Island, Cebu	480

PRODUCTION OF COMMERCIAL FISHING VESSELS
BY GEAR, 1988



TOTAL PRODUCTION : 589,995 M.T.

FOOTNOTES:

1. Source of Data: 1984 Philippine Forestry Statistics.
2. Source of Data: 1988 Fisheries Statistics, Bureau of Agricultural Statistics (BAS); this refers to productive fishponds only as of 1988.
3. Source of Data: Revised estimates of the National Income Accounts of the Philippines, April 1989 Economics and Social Statistics Office, National Statistical Coordination Board.
4. Source of Data: Fisheries Statistics Section.
5. Source of Data: Census of Fisheries, CY 1980.
6. Preliminary data, National Statistics Office (NSO).
7. 1988 Fishery Statistics
Bureau of Agricultural Statistics (BAS)
8. Aquaculture includes its three sub-sectors namely mariculture for oyster, mussel and seaweeds; brackishwater culture for fishpond; and freshwater culture for fishpen, fish cage and fishpond.
9. Municipal includes fishing done in coastal and inland waters with or without boat of 3 gross tonnage or less.
10. Sources of data: Regional Expanded Fish Production Program and Provincial Fisheries data.
11. Source of data: BFAR International Licenses Division.
12. Based on the Third National Nutrition Survey conducted by the Food and Nutrition Research Institute (FNRI) in 1987.
13. Source of data: Lakes and Reservoirs, State of the Art Series, Report No. 1, PCARRD.