



1986 PHILIPPINE FISHERIES PROFILE



Bureau of Fisheries and Aquatic Resources

860 Quezon Ave., Quezon City Metro Manila 3008

BUREAU OF FISHERIES AND AQUATIC RESOURCES

Historical Background - The Bureau of Fisheries and Aquatic Resources (BFAR) started as a Division of Fisheries in the Bureau of Science in 1907. On January 1, 1933, it was made a part of the Fish and Game Administration under the Ministry of Agriculture and Commerce. It was reorganized as the Bureau of Fisheries on July 1, 1947 under Republic Act No. 177. On March 20, 1963, R.A. 3512 reorganized it into the Philippine Fisheries Commission. On September 31, 1972, under the Integrated Reorganization Plan, the Philippine Fisheries Commission was reverted to the Bureau of Fisheries. By virtue of Presidential Decree No. 461 signed on May 17, 1974, which reorganized the Department of Agriculture and Natural Resources into the Department of Agriculture, and the Department of Natural Resources, the Philippine Fisheries Commission was renamed Bureau of Fisheries and Aquatic Resources and placed under the Ministry of Natural Resources.

On June 30, 1984, BFAR was transferred from the Ministry of Natural Resources to the Ministry of Agriculture and Food, in compliance with Executive Order 967 mandating the conversion of BFAR as a staff bureau and integrating its Regional Offices with the Regional Offices of the Department of Agriculture. The staff function of the Central Office and the integration of BFAR's Regional Offices into the Regional Offices of the Department of Agriculture was fully implemented with the issuance of Executive Order 116 signed by President Corazon C. Aquino on January 30, 1987.

PHILIPPINE FISHERIES PROFILE
As of December 1986

I. FISHERY RESOURCES

1. Marine Resources

a. Total Territorial Water Area (including EEZ)	-	220,000,000 ha.
b. Coastal	-	26,600,000 ha.
c. Oceanic	-	193,400,000 ha.
d. Shelf Area (depth 200 m)	-	18,460,000 ha.
e. Coastline (length)	-	17,460 km.
f. Coral Reef area	-	27,000 sq.km. (within the 10-20 fath where reef fisheries

2. Inland Resources

a. <u>Swamplands</u> ^{1/}	-	<u>338,393 ha.</u>
- Freshwater	-	106,328 ha.
- Brackishwater	-	232,065 ha.
b. <u>Existing Fishpond</u> ^{2/}	-	<u>223,717 ha.</u>
- Freshwater	-	13,398 ha.
- Brackishwater	-	210,319 ha.

3. Other Inland Resources - 250,000 ha.

a. Lakes	-	200,000 ha.
b. Rivers	-	31,000 ha.
c. Reservoirs	-	19,000 ha.

^{1/} Source of Data: 1984 Philippine Forestry Statistics

^{2/} Source of Data: Fisheries Statistics Section; refers to productive fishponds only.

FIVE-YEAR FISH PRODUCTION TREND (1981-1986)

<u>YEAR</u>	<u>QUANTITY (MT)</u>	<u>% INCREASE/ (DECREASE)</u>	<u>VALUE (000 ₱)</u>	<u>% INCREASE</u>
1986	2,089,484	1.82	37,351,483	19.28
1985	2,052,111	(1.36)	31,297,268	22.00
1984	2,080,439	(1.41)	25,649,933	35.13
1983	2,110,230	11.24	18,981,459	26.00
1982	1,896,983	7.00	15,063,966	7.96
1981	1,772,897	6.02	13,953,798	19.83

EMPLOYMENT

a. Aquaculture-----	250,000 persons	^{6/}
b. Municipal Fisheries-----	675,677 persons	^{7/}
c. Commercial Fisheries-----	<u>51,005 persons</u>	^{6/}
Total-----	<u>976,682 persons</u>	

^{6/} Preliminary Data - Source of Data: Fisheries Statistics Section.

^{7/} Census of Fisheries, CY 1980.

III. EXTERNAL TRADE

	1984		1985		1986	
	QUAN- TITY (MT)	VALUE (P M)	QUAN- TITY (MT)	VALUE (P M)	QUAN- TITY (MT)	VALUE (P M)
Fishery Exports	63,055	2,179.0	95,077	3,496.0	101,449	4,863.0
Fishery Imports ^{8/}	6,097	50.3	28,755	118.1	69,084	385.6
Balance of Trade	<u>56,958</u>	<u>2,128.7</u>	<u>66,322</u>	<u>3,377.9</u>	<u>32,365</u>	<u>4,477.4</u>

MAJOR FISHERIES EXPORT IN TERMS OF VALUE, 1986

	QUANTITY (MT)	VALUE (000 P)
1. SHRIMP/PRAWN-----	<u>11,793</u>	<u>2,145,164</u>
Frozen/Chilled	11,211	2,105,780
Salted dried/cooked	442	32,921
Prepared whether or not in airtight containers	140	6,463
2. TUNA-----	<u>35,571</u>	<u>1,278,326</u>
Frozen/Chilled	9,169	273,280
Prepared or preserved in airtight containers	26,402	1,005,046

^{8/} Source of Data: National Census and Statistics Office (NCSO).

MAJOR FISHERIES EXPORT IN TERMS OF VALUE,
1986 ...

	QUANTITY (MT)	VALUE (000 ₱)
3. SEaweEDS -----	<u>32,292</u>	<u>466,733</u>
Dried/Treated	29,183	455,572
Fresh	166	3,186
Salted	77	388
Kelp Meal Powder	2,866	7,587
4. SHELLCRAFT ARTICLES -----	<u>3,012</u>	<u>237,902</u>
5. CUTTLEFISH/SQUID -----	<u>2,130</u>	<u>125,086</u>
Fresh/Frozen/Chilled	1,974	115,697
Salted/Dried/Smoked	153	8,937
Prepared whether or not in airtight containers	3	452
6. BANGUS (milkfish) -----	<u>1,863</u>	<u>88,457</u>
Frozen/Chilled	1,810	85,169
Dried/Salted or in brine	1	86
Smoked	15	834
Prepared or preserved in airtight containers	37	2,368
7. FISH KEPT ALIVE FOR TRANSPORT -----	<u>2,908</u>	<u>84,226</u>
8. SHARK LIVER OIL -----	<u>484</u>	<u>71,039</u>
9. ORNAMENTAL SHELLS -----	<u>1,591</u>	<u>39,564</u>
10. SEA CUCUMBER (Trepang) -----	<u>1,659</u>	<u>35,745</u>
11. OTHERS -----	<u>8,136</u>	<u>290,497</u>
T O T A L -----	<u>101,449</u>	<u>4,862,739</u>

MAJOR IMPORTS FOR 1986

	<u>QUANTITY</u> <u>(MT)</u>	<u>VALUE</u> <u>(000 P)</u>
A. <u>Frozen Sardines/Mackerels</u> <u>and Others</u>	<u>28,769</u>	<u>112,588</u>
Sweden	0.17	60
Hongkong	24	368
Japan	28,744	112,108
U.S.A.	0.50	52
B. <u>Tuna</u>	<u>3,432</u>	<u>46,134</u>
U.S.A.	1,000	13,571
Japan	332	4,272
Guam	1,000	12,421
Trust Territory of the Pacific Islands	1,100	15,870
C. <u>Fish Meal</u>	<u>36,175</u>	<u>206,418</u>
Japan	1,429	28,992
Peru	28,706	144,642
Taiwan	495	5,300
Thailand	701	2,841
U.S.A.	807	3,244
Canada	68	802
Chile	3,849	20,249
Australia	120	348

MAJOR SOURCES OF FISHERY IMPORTS
IN TERMS OF VALUE

<u>COUNTRY</u>	<u>QUANTITY (MT)</u>	<u>PERCENT TO TOTAL IMPORTS</u>	<u>VALUE (000P)</u>	<u>PERCENT TO TOTAL IMPORTS</u>
1. Japan	30,505	43.87	145,372	37.69
2. Peru	28,706	41.55	144,642	37.51
3. U.S.A.	2,291	3.32	29,149	7.58
4. Chile	3,849	5.57	20,249	5.25
5. Trust Territory of Pacific Island	1,100	1.59	15,870	4.12
6. Taiwan	515	.75	5,796	1.50
7. Thailand	792	1.15	4,892	1.27
8. Australia	139	0.20	2,749	0.71
9. Hongkong	108	0.16	1,710	0.44
10. Singapore	8	-	1,414	0.37
11. Other Countries (8)	<u>1,071</u>	<u>1.84</u>	<u>13,814</u>	<u>3.56</u>
Total-----	<u>69,084</u>	<u>100.00</u>	<u>385,657</u>	<u>100.00</u>

IV. FISH PRODUCTION

A. FISH PRODUCTION, BY SECTOR (1973-1986) ^{9/}
(In Metric Tons)

<u>YEAR</u>	<u>AQUACULTURE</u> ^{10/}	<u>MUNICIPAL</u> ^{11/}	<u>COMMERCIAL</u>	<u>TOTAL</u>
1986 ^{12/}	470,893	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	513,335	2,080,268
1983	445,073	1,145,841	519,316	2,110,230
1982	392,348	978,362	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	839,358	500,747	1,581,303
1978	216,655	857,909	505,840	1,580,404
1977	163,590	827,100	518,165	1,508,855
1976	159,292	725,994	508,197	1,393,483
1975	106,461	731,725	498,617	1,336,803
1974	113,195	684,498	470,675	1,268,368
1973	99,600	639,795	465,442	1,204,837

^{9/}Source: Fisheries Statistics Section, Information Division, Adjustments/revisions were made from 1976-1986 based on the new classification of Fisheries Sector.

^{10/}Aquaculture includes its three sub-sectors namely mariculture for oyster, mussel and seaweeds; brackish-water culture for fishpond; and freshwater culture for fishpen, fish cage and fishpond.

^{11/}Municipal includes fishing done in coastal and inland waters with or without boat of 3 gross tonnage or less.

^{12/}Preliminary data.

B. FISH PRODUCTION, BY SECTOR, BY REGION, 1986

I. AQUACULTURE FISH PRODUCTION

a) FRESHWATER FISH PONDS

<u>REGION</u>	<u>TOTAL AREA (HA)</u>	<u>PRODUCTION (MT)</u>
NCR	-	-
I	1,453	1,761
II	1,238	1,290
III	9,105	10,949
IV	372	223
V	131	93
VI	118	381
VII	-	-
VIII	93	54
IX-A	-	-
IX-B	148	96
X	385	396
XI	241	147
XII	<u>114</u>	<u>113</u>
Total-----	<u>13,398</u>	<u>15,503</u>

B. FISH PRODUCTION, BY SECTOR, BY REGION 1986...

1. AQUACULTURE FISH PRODUCTION...

b) BRACKISHWATER FISHPONDS

<u>REGION</u>	<u>TOTAL AREA (HA)</u>	<u>PRODUCTION</u> ^{13/} <u>(MT)</u>
NCR	703	633
I	16,651	22,943
II	1,469	850
III	53,492	66,525
IV	23,281	17,514
V	11,028	7,413
VI	58,974	61,919
VII	7,110	6,721
VIII	5,740	2,517
IX-A	1,562	818
IX-B	14,813	8,070
X	4,289	2,210
XI	7,241	5,524
XII	<u>3,986</u>	<u>3,617</u>
Total	<u>210,319</u>	<u>207,274</u>

^{13/} National Average Yield - 986 kgs/ha/yr.

B. FISH PRODUCTION, BY SECTOR, BY REGION, 1986 ...

1. AQUACULTURE FISH PRODUCTION ...

c) PRODUCTION OF FISHPIN AND FISH CAGES

<u>REGION</u>	<u>FISHPIN</u>	<u>FISH CAGES</u>
NCR	7,001	339
I	8	2
II	-	206
III	-	306
IV	31,005	4,368
V	-	3,871
VI	-	-
VII	-	-
VIII	40	53
IX-A	-	-
IX-B	200	-
X	-	-
XI	42	223
XII	-	5
Total	<u>41,296</u>	<u>9,373</u>

C. MARINE FISHERY PRODUCTION BY STATISTICAL FISHING AREA, 1936 (in MT)

<u>STATISTICAL FISHING AREA</u>	<u>TOTAL</u>	<u>COMMERCIAL</u>	<u>MUNICIPAL</u>
1. Babuyan Channel	17,189	7,946	9,243
2. Batangas Coast	25,068	3,887	21,181
3. Bohol Sea	48,305	13,438	34,867
4. Camotes Sea	19,836	4,622	15,214
5. Casiguran Sound	3,306	-	3,306
6. Cuyo Pass	40,773	19,073	21,700
7. Davao Gulf	17,472	2,127	15,345
8. Guimaras Strait	78,682	6,969	71,713
9. Lagonoy Gulf	14,680	296	14,384
10. Lamon Bay	80,059	34,767	45,292
11. Leyte Gulf	54,475	1,136	53,339
12. Lingayen Gulf	20,882	4,713	16,169
13. Manila Bay	50,378	21,167	29,211
14. Moro Gulf	157,014	56,399	100,615
15. Pampanga Gulf	24,189	10,646	13,543
16. Samar Sea	48,139	5,461	42,678
17. Sibuayan Sea	27,514	4,432	23,082
18. Sulu Sea, East	113,475	25,479	87,996
19. Sulu Sea, South	99,221	45,001	54,220
20. Sulu Sea, West	159,517	133,635	25,882
21. Tayabas Bay	31,813	13,565	18,248
22. Visayan Sea	175,439	126,181	49,258
23. West Palawan Waters	16,376	5,290	11,086
24. Northeastern Mindanao Waters	27,198	-	27,198
25. Southeastern Mindanao Waters	2,505	-	2,505
Total	<u>1,353,505</u>	<u>546,230</u>	<u>807,275</u>

3. Major Sources of Fishery Imports in Terms of Value, 1990

Country	Quantity	Percent to Total Imports	FOB Value			
			000 P	% of Total	000 \$	% of Total
1. Japan	57,938	49.94	669,904	36.14	27,671	36.33
2. Peru	43,055	21.95	363,159	19.59	15,007	19.98
3. Papua New Guinea	16,807	8.57	343,972	18.56	13,520	18.00
4. Taiwan	6,750	3.45	120,226	6.49	4,555	6.06
5. Union of Soviet Socialist Republic (USSR)	14,652	7.47	99,752	5.38	3,786	5.04
6. USA	4,219	2.15	79,125	4.27	3,326	4.43
7. Indonesia	1,695	.86	25,973	1.40	1,108	1.47
8. Trust Terri- tory of the Pacific Is.	901	0.46	17,717	0.95	700	0.93
9. Singapore	815	0.42	14,567	0.79	613	0.82
10. Hongkong	842	0.43	9,838	0.53	394	0.52
11. Others	8,441	4.30	109,510	5.90	4,448	5.92
TOTAL-----	<u>196,115</u>	<u>100.00</u>	<u>1,853,743</u>	<u>100.00</u>	<u>75,128</u>	<u>100.00</u>

VII. OTHER FISHERY INDUSTRY INFORMATION

B. PER CAPITA CONSUMPTION OF OTHER FOOD AS OF 1987

	Total (Kg/Year)
1. Dairy	15.7
2. Poultry Meat	3.3
3. Eggs	3.7
4. Fresh Meat	<u>9.9</u>
- Pork	7.3
- 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