

Philippine Fisheries Profile 2011



Department of Agriculture

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Department of Agriculture

BUREAU OF FISHERIES AND AQUATIC RESOURCES

FOREWORD

The Bureau of Fisheries and Aquatic Resources (BFAR) is pleased to provide you the 2011 Fisheries Profile, a handy publication of relevant fisheries information including the volume and value of production by region, commodity, culture environment; import and export data; the overall performance of the sector for that year, among others. Through this publication, we hope to contribute and provide solutions to your data needs and requirements.

This publication was made possible through our collaboration with the Bureau of Agricultural Statistics (BAS), the National Statistics Office (NSO), the National Statistical Coordination Board (NSCB), Food and Nutrition Research Institute (FNRI) and the Food and Agriculture Organization (FAO).



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Director

ENDNOTES

Sources of Data:

- ^{1/} NAMRIA (Wikipedia and CIA World Factbook 2009)
- ^{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 Statistical Coordination Board (NSCB)
(www.nscb.gov.ph)
- ^{4/} Preliminary data, 2002 Census of Fisheries
- ^{5/} National Statistics Office (NSO) (www.census.gov.ph)
- ^{6/} Bureau of Agricultural Statistics (BAS) (www.bas.gov.ph)
- ^{7/} Directory of Philippine Wetlands, Volume II, AWBPFI
- ^{8/} BFAR Regional Yearbook, 2000
- ^{9/} BFAR Regulatory and Quarantine Division
- ^{10/} Food and Nutrition Research Institute Website, (<http://www.fnri.dost.gov.ph>.)
- ^{11/} FAO Website (<http://www.fao.org>.)
- ^{12/} Agricultural Marketing Statistical Analysis Division (AMSAD, BAS)

**E. PRICES OF SELECTED FISH SPECIES,
PHILIPPINES, 2010- 2011 ^{12/}**

(pesos per kilogram)

Species	2010		2011	
	Wholesale	Retail	Wholesale	Retail
1. Indian mackerel (Alumahan)	84.83	104.70	89.13	111.94
2. Milkfish (Bangus)	90.69	112.56	92.32	112.86
3. Threadfin bream (Bisugo)	98.44	139.37	108.51	148.28
4. Blue crab (Alimasag)	120.48	171.86	127.41	183.44
5. Caesio (Dalagang Bukid, lapad)	104.88	136.22	113.81	146.57
5. Anchovies (Dilis)	44.45	74.21	47.83	79.65
6. Roundscad (Galunggong)	64.25	87.45	77.58	100.47
7. Slipmouth (Sapsap)	66.13	112.51	73.02	115.64
9. Endeavor prawn (Shrimp, Suaje)	242.30	266.28	250.12	282.01
10. Tilapia	67.89	87.57	73.51	90.8
11. Frigate tuna (Tulingan)	77.97	92.90	88.33	103.08
12. Shrimp, Tiger prawn (sugpo)	377.01	425.66	391.18	442.48

C O N T E N T S

FOREWORD

HIGHLIGHTS

► FISHERY RESOURCES

- A. Marine Resources 15
- B. Inland Resources 15

► FISHERIES CONTRIBUTION TO THE ECONOMY, 2011

- A. Fisheries Contribution to Total GDP 16
- B. Fisheries Contribution to GVA Agricultural Sector 16
- C. Employment 19
- D. Balance of Trade 17
- E. Total Fish Production, by Sector, 2011 18
- F. Fish Production, by Sector and Region, 2011 20
- F-a. Value of Fish Production, by Sector and Region, 2011 21
- G. Fish Production, by Sector, 2002 -2011 22
- H. Five Year Fish Production, Trend 2007 -2011 24

► AQUACULTURE PRODUCTION, 2011

- A. Summary of Aquaculture Production by Culture Environment and Region, 2011 26
- B. Aquaculture Production by Culture Environment, Region and Species, 2011 27
- C. Aquaculture Production of Major Commodities by Culture Environment and by Region, 2011 36
- D. Major Species Produced in Aquaculture Fisheries, 2011 39
- E. Area and Location of Major Lakes in the Philippines 40

▶	MUNICIPAL FISHERIES PRODUCTION, 2011	
	A. Municipal Fisheries Production, by Region, 2011	42
	B. Marine Municipal Fish Catch, by Major Fish Species, 2011	43
	C. Number of Municipal Fishing Bancas, By Region, 2000	44
▶	COMMERCIAL FISHERIES PRODUCTION, 2011	
	A. Commercial Fisheries Production, by Region and by Type of Landing Centers, 2011	46
	B. Commercial Fisheries Production, by Major Fish Species, 2011	47
	C. Number of Commercial Fishing Operators, and Vessels, by Region, as of 2007	48
▶	EXTERNAL TRADE	
	A. Exports	
	1. Exports of Fish and Fishery Products by Kind, Quantity and Value, 2011	50
	2. Major Fishery Exports in Terms of Value, 2011	51
	3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2011	52
	4. Fishery Exports, by Major Country of Destination in Terms of Value, 2011	55
	B. Imports	
	1. Imports of Fish and Fishery Products by Kind, Quantity and Value, 2011	57
	2. Major Fishery Imports in Terms of Value, 2011	58
	3. Fishery Imports, by Major Country of Origin in Terms of Value, 2011	60

D. WORLD AQUACULTURE PRODUCTION OF AQUATIC PLANTS BY PRINCIPAL PRODUCERS IN 2010 ^{11/}

Major Countries	Volume (MT)	% Share	Value (US\$' 000)	% Share
1. China	11,092,270	58.36	2,533,196	44.83
2. Indonesia	3,915,017	20.60	1,268,367	22.44
3. Philippines	1,801,272	9.48	256,715	4.54
4. Korea Rep.	901,672	4.74	327,823	5.80
5. Korea D P Rp.	444,300	2.34	66,645	1.18
6. Japan	432,796	2.28	1,138,184	20.14
7. Malaysia	207,892	1.09	17,444	0.31
8. Zanzibar	125,157	0.66	1,781	0.03
9. Vietnam	35,000	0.18	17,500	0.31
10. Chile	12,179	0.06	15,841	0.28
11. Other Countries	39,498	0.21	7,671	0.14
World Total	19,007,053	100	5,651,167	100

C. WORLD AQUACULTURE PRODUCTION OF FISH, CRUSTACEANS, MOLLUSCS, etc. BY PRINCIPAL PRODUCERS IN 2010^{11/}

Major Countries	Volume (MT)	% Share	Value (US\$ '000)	% Share
1. China	36,734,215	61.35	59,141,915	49.51
2. India	4,648,851	7.76	9,084,634	7.61
3. Vietnam	2,671,800	4.46	5,150,010	4.31
4. Indonesia	2,304,828	3.85	4,894,871	4.10
5. Bangladesh	1,308,515	2.19	2,840,058	2.38
6. Thailand	1,286,122	2.15	2,817,138	2.36
7. Norway	1,008,010	1.68	5,020,275	4.20
8. Egypt	919,585	1.54	1,546,090	1.29
9. Myanmar	850,697	1.42	955,904	0.80
10. Philippines	744,695	1.24	1,563,082	1.31
11. Japan	718,284	1.20	3,531,987	2.96
12. Chile	701,062	1.17	3,753,276	3.14
13. USA	495,499	0.83	1,016,072	0.85
14. Brazil	479,399	0.80	949,210	0.79
15. Other Countries	5,001,038	8.35	17,179,756	14.38
World Total	59,872,600	100.00	119,444,278	100.00

► **OTHER FISHERIES INFORMATION**

A. Food Consumption	
1. Mean One Day Per Capita Food Consumption, Philippines, 2003	62
2. Comparison of Mean One-Day Per Capita Food Consumption: 1987, 1993 and 2003	63
3. Per Capita Consumption of Fish and Fishery Products, 1993	64
B. World Fisheries Production of Fish, Crustaceans, Molluscs and Aquatic Plants (includes seaweeds), by Capture and Aquaculture, by Major Producers, 2010	65
C. World Aquaculture Production of Fish, Crustaceans, Molluscs, etc. by Principal Producers in 2010	66
D. World Aquaculture Production of Aquatic Plants by Principal Producers in 2010	67
E. Prices of Selected Fish Species, Philippines, 2010-2011	68

LIST OF FIGURES

1. Philippine Marine Jurisdictional Boundaries	14
2. Total Fish Production, by Sector, 2011	19
3. Volume of Fish Production, by Sector, 2002-2011	23
Value of Fish Production, by Sector, 2002-2011	23
4. Five-Year Fish Production, Trend 2007-2011	24
5. Major Fisheries Export in Terms of Value, 2011	56

ENDNOTES

HIGHLIGHTS

World Scenario: *Philippine Fisheries*

- In 2010, the Philippines ranked 5th among the top fish producing countries in the world with its total production of 5.16 million metric tons of fish, crustaceans, mollusks, and aquatic plants (including seaweeds). The production constitutes 3.06% of the total world production of 168.4 million metric tons (*FAO website*).
- The Philippines' 0.745 million metric tons aquaculture production of fish, crustaceans and mollusks in 2010 ranked 10th in the world and a 1.24% share to the total global aquaculture production of 59.87 million metric tons. In terms of value, the country's aquaculture production of fish, crustaceans and mollusks has amounted to over 1.56 billion dollars (*FAO website*).
- Similarly, the Philippines is the world's 3rd largest producer of aquatic plants (including seaweeds) having produced a total of 1.80 million metric tons or nearly 9.48% of the total world production of 19.01 million metric tons (*FAO website*).

Contribution to National Economy, 2011

- The fishing industry's contribution to the country's Gross Domestic Products (GDP) were 1.9 % and 2.2% at current and constant 2000 prices, respectively. This translates to some P183.1 billion for current prices and P130.77 billion for constant prices of the country's GDP of P9,735.52 billion (current prices) and P5,924.4 billion (constant prices).
- The industry also accounted for 14.7% (P183.1 billion) and 19.2% (P130.77 billion) of the Gross Value Added (GVA) in Agriculture,

B. WORLD FISHERIES PRODUCTION OF FISH, CRUSTACEANS, MOLLUSCS AND AQUATIC PLANTS (includes seaweeds), BY CAPTURE AND AQUACULTURE, BY MAJOR PRODUCERS, 2010 ('000 MT)

Major Countries	TOTAL		Fish, Crustaceans & Molluscs		Aquatic Plants (includes seaweeds)		
	MT	% share	Capture	Aquaculture	Capture	Aquaculture	Total
1. China	63,492,072	37.71	15,418,967	36,734,215	246,620	11,092,270	11,338,890
2. Indonesia	11,602,808	6.89	5,380,266	2,304,828	2,697	3,915,017	3,917,714
3. India	9,348,063	5.55	4,694,968	4,648,851	2	4,242	4,244
4. Japan	5,291,865	3.14	4,044,185	718,284	96,600	432,796	529,396
5. Philippines	5,158,160	3.06	2,611,720	744,695	473	1,801,272	1,801,745
6. Viet Nam	5,127,600	3.05	2,420,800	2,671,800	-	35,000	35,000
7. USA	4,874,066	2.89	4,369,540	495,499	9,027	-	9,027
8. Peru	4,354,480	2.59	4,261,091	89,021	4,368	-	4,368
9. Russian Fed	4,196,539	2.49	4,069,624	120,384	5,917	614	6,531
10. Myanmar	3,914,169	2.32	3,063,210	850,697	-	262	262
11. Chile	3,761,557	2.23	2,679,736	701,062	368,580	12,179	380,759
12. Norway	3,683,302	2.19	2,675,292	1,008,010	-	-	-
13. Korea Rep.	3,123,204	1.85	1,732,928	475,561	13,043	901,672	914,715
14. Thailand	3,113,321	1.85	1,827,199	1,286,122	-	-	-
15. Other Countries	37,327,923	22.17	29,354,300	7,023,571	138,323	811,729	950,052
World Total	168,369,129	100.00	88,603,826	59,872,600	885,650	19,007,053	19,892,703

3. PER CAPITA FOOD CONSUMPTION OF FISH AND FISHERY PRODUCTS, 1993

Fish and Other Products	Total (Kg/Year)
1. FISH	38
1.1 Fresh Fish	25
Tulingan (Frigate Tuna)	2
Bangus (Milkfish)	4
Galunggong (Roundscad)	3
Dilis, Buo (Anchovy)	1
Alumahan (Indian Mackerel)	1
Tamban (Sardines)	1
Dalagang Bukid (Fusilier)	n
Sapsap (Slipmouth)	1
Bisugo (Threadfin Bream)	n
Tilapia (Cichlid)	3
Albakora/Tambakol	1
Balila/Espada	n
Hasa-hasa	1
Lapu-lapu	n
Matangbaka	1
Maya-Maya	n
Salay-salay	n
Silinyasi/Tunsoy	n
Tanigue	n
Others (fresh fish & cooked fish recipe)	5
1.2 Dried Fish (as fresh fish)	4
1.3 Processed Fish *	5
Bagoong (as fresh fish)	1
Patis	n
Canned Fish (sardines, mackerel, salmon, etc)	3
Smoked fish (all tinapa type)	1
1.4 Crustaceans and Mollusks	4
Shrimp (all type)	1
Crabs	n
Squid/Octopus	1
Tahong	1
Others (fresh)	1
Dried and Processed (as fresh)	n
Bagoong (as fresh)	n

Notes:

a) Raw as purchased weight or as available in the kitchen including inedible and edible wastage.

b) Breakdown don't add up to total due to roundings

c) N- negligible (less than 0.5 grams)

Hunting, Forestry and Fishing Group of P1,245 billion and P680 billion at current and constant prices, respectively, the largest share next to agricultural crops.

Employment in the Fishing Industry

The industry employed a total of 1,614,368 fishing operators nationwide (NSO 2002 Census for Fisheries) of which the municipal fisheries sector accounted for more than one million (1,371,676) operators while the commercial and aquaculture sectors added some 16,497 and 226,195 operators, respectively.

Performance of the Fishing Industry

- Total volume of fisheries production in the Philippines from January to December 2011 reached 4,973,588 metric tons. Fisheries production fell by 18.46% from 4.41 million metric tons in CY 2006 to 4.974 million metric tons in CY 2011. Average annual production growth rate within that period was registered at 3.08%. In terms of value, the 2011 fisheries production was valued at 224.7 billion pesos as compared with the 163.37 billion pesos in 2006, an average yearly increment of 7.62 billion pesos.
- The 2011 fisheries production also showed a 3.6% decrease from the previous year's production of 5.16 million metric tons. The 2011 production was valued at 224.7 billion pesos.
- The annual performance of the fishing industry was attributed to the production of the three (3) sectors. The aquaculture sector posted an increase with 52.4% (2.608 million MT) followed by the municipal sector with 26.8% (1.33 million MT), and the commercial sector with 20.8% (1.03 million MT). The growth in aquaculture, however, underscores the importance of the sector in maintaining the supply of fish.

- At the regional level, the Autonomous Region for Muslim Mindanao (ARMM) registered the highest production among all regions with its 18.3% or 909,370 metric tons share to the total fisheries production, where seaweed was the major commodity produced followed by Region IV-B (MIMAROPA) with a 14.7% share or 728,972 metric tons. Region IX recorded an output of 619,557 metric tons or 12.5% to the total fisheries production.
- In terms of value, the industry has contributed P224.7 billion in 2011 as compared to P221.05 billion in 2010. The top three (3) regions were Region VI with P27.61 billion, followed by Region III with P25.39 billion and Region IX with P21 billion.
- The Aquaculture fisheries sub-sector contributed the highest value of about P86 billion or 38.3 %. Next is municipal fisheries sub-sector with a total production of P 80.1 billion. Total fish caught by marine fishermen was valued at P72.03 billion while inland fisheries production was valued at P8.05 billion. The commercial sub-sector contributed P58.62 billion or 26% to the total fishery output.

Fisheries Export and Import Performance

Exports

- Foreign trade performance of the fishery industry in 2011 registered a net surplus of 654 million dollars – total export value of 871 million US dollars and import value of 217 million US dollars.
- Export volume declined by 3.14% from 220,992 MT in 2010 to 214,055 MT in 2011. The three major export commodities (tuna, seaweeds, shrimp/prawn,) combined for 61% (130,802 MT) of the total export volume (214,055 MT) and 65% (US\$566.7 million) of the total export value (US\$ 871million) in 2011.

2. Comparison of Mean One- Day per Capita Food Consumption: 1987, 1993, 2003

Food Group/Subgroup	Consumption, g		
	(Raw, "as Purchased")		
	1987	1993	2003
All Foods	869	803	886
Cereals and Cereal Products	345	340	364
Rice and Products	303	282	303
Corn and Products	24	36	31
Other Cereals and Products	18	22	30
Starchy Roots and Tubers	22	17	19
Sugar and Syrups	24	19	24
Fats and Oils	14	12	18
Fish, Meat and Poultry	157	147	185
Fish and Products	111	99	104
Meat and Products	37	34	61
Poultry	9	14	20
Eggs	10	12	13
Milk and Milk Products	43	44	49
Dried Beans, Nuts and Seeds	10	10	10
Vegetables	111	106	111
Green Leafy and Yellow Vegetables	29	30	31
Other Vegetables	82	76	80
Fruits	107	77	54
Vitamin C-Rich Fruits	24	21	12
Other Fruits	83	56	42
Miscellaneous	26	19	39

A. FOOD CONSUMPTION ^{10/}

1. Mean One Day Per Capita Food Consumption, Philippines, 2003

Food Group/Subgroup	Consumption		% of Total Food Intake
	(Raw, As Purchased) *		
	kg/yr	g/day	
Cereals and Cereal Products	133	364	41.1
Rice and Products	111	303	34.2
Corn and Products	11	31	3.5
Other Cereals and Products	11	30	3.4
Starchy Roots and Tubers	7	19	2.2
Sugar and Syrups	9	24	2.7
Fats and Oils	7	18	2
Fish, Meat and Poultry	67	185	20.9
Fish and Products	38	104	11.7
Meat and Products	22	61	6.9
Poultry	7	20	2.3
Eggs	5	13	1.5
Milk and Milk Products	18	49	5.6
Whole Milk	13	35	4
Milk Products	5	14	1.6
Dried Beans, Nuts and Seeds	4	10	1.1
Vegetables	40	111	12.5
Green Leafy and Yellow Vegetables	11	31	3.5
Other Vegetables	29	80	9
Fruits	20	54	6.1
Vitamin C-Rich Fruits	4	12	1.4
Other Fruits	16	42	4.7
Miscellaneous	14	39	4.4
Beverages	9	26	2.9
Condiments	4	10	1.2
Others	1	3	0.3
Total Food	<u>324</u>	<u>886</u>	<u>100</u>

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

- Tuna remained as the top export commodity with a collective volume of 76,888 MT for fresh/chilled/frozen, smoked/dried, and canned tuna products valued at US \$294.114 million. Canned tuna, though, constitutes bulk of tuna products being exported. In general, tuna export is down by (28%) in terms of volume and (26%) in terms of value. Major markets for this commodity include USA, Japan and Thailand.
- Seaweeds came 2nd on export value with 34% increase from US\$155.61 million in 2010 to US\$ 212.13 million in 2011 or 24% share to the total export earnings for that year. Carrageenan remains the major product being shipped abroad comprising 73% of the total seaweed export value. USA, China and Belgium are among the major markets for Philippine seaweed products.
- Shrimp/Prawn ranked 3rd with a total contribution of US\$60.5 million to the total export value, higher than last years export earnings of \$52 million. Most of the shrimps/prawns are exported in fresh/chilled/frozen form with a total value of US\$ 60.5 million or 98% of the total shrimp/prawn export revenue. The 2011 shrimp/prawn exports, however, fell by (12)% in volume (MT) but gained 16% in value (USD) from the previous year's export. Japan, USA and Taiwan are among the major destination of shrimp/prawn products.
- Other major fishery exports e.g. crabs/crab fats, octopus, lapu-lapu, cuttlefish/squid, ornamental fish, roundscad and sea cucumber constitute 83% or US\$ 723.5 million of the total US\$ 871 million export revenues. Other commodities accounted for the remaining 17% of the total export value/earnings.
- Among the major destination of Philippine fish and fishery product exports (in terms of value) with percentage share are USA, 27.8%; Japan, 11%; Germany , 6.5%; Hongkong 6.6%; UK,

4.5%; Spain, 2.9% ; France, 2.4% , Taiwan (ROC) 2.6%, Canada, 1.7%, and China, Rep Of 2.7%; . Other countries have a cumulative share of 31%.

Imports

- 70% of the total import value for 2011 was contributed by three major commodities in chilled/frozen fish, 48% , prawn feeds, 5%; as well as flour, meals and pellets of fish, crustaceans, and mollusks fit and unfit for human consumption, 4 %. These commodities have an aggregated value of US\$ 99.4 million out of the US\$ 216.5 million total import value.
- Prawn feeds were mostly sourced from Thailand, 88.4%; Taiwan, (ROC) 6.7%; Japan, 0.8 %; China, 0.4%; Hongkong, 0.09%; and USA, 1.16%; with a total of \$ 9.48 million on import value.
- Chilled/frozen fish comprise of tuna, mackerel and sardines with a total of US\$ 102 million . Tuna has an import value of US \$59.6 million, the largest among the three major import with a share of 28%. These were mostly supplied by Papua New Guinea 5 %; Taiwan (ROC) 14%; Japan 3.5%; Marshall Island, 1.5% and Korea Rep, 1%. Other fishery imports include mackerel, 18% and sardines 1.7%.
- In terms of value, in general, the Philippine fishery imports originated from the following major countries: China, 24%; Indonesia, 7%; Taiwan (ROC), 16%; Papua New Guinea, 5%; Vietnam, 14%; Japan 9% ; ; Korea, 2%; USA, 5%; and Denmark, 1%. Other countries contributed 1% to the total import value of fish and fishery products

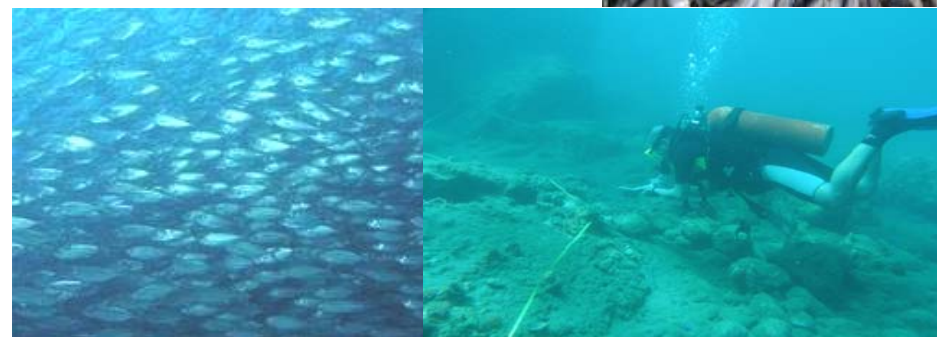
Other Fishery Information



3. Fishery Imports, by Major Country of Origin in Terms of Value, 2011

Major Countries	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
China, People'S Republic Of	83,861	49,875	2,173,566
Indonesia	10,115	14,673	639,469
Taiwan (Republic Of China)	25,450	32,981	1,437,308
Papua New Guinea	11,534	11,267	491,018
Vietnam	11,688	29,461	1,283,903
Japan (Excludes Okinawa)	16,856	17,941	781,861
Korea, Republic Of South	2,892	3,774	164,473
United States Of America	12,296	9,517	414,771
Denmark	464	1,947	84,849
Singapore	755	1,294	56,411
Chile	4,632	3,426	149,323
Norway	2,961	6,713	292,538
Peru	2,239	2,594	113,064
Thailand	11,467	11,840	515,973
New Zealand	1,985	3,475	151,459
Malaysia	391	444	19,336
Marshall Islands, Rep. Of	4,470	3,229	140,734
Germany	230	895	39,022
Italy	608	358	15,620
Hongkong	128	127	5,539
Total Major Countries	205,020	205,834	8,970,238
Other Countries	9,310	1,515	466,202
Total	214,330	207,349	9,436,440

Fishery Resources 2011 Fisheries Contribution To The Economy



Philippine Marine Jurisdictional Boundaries

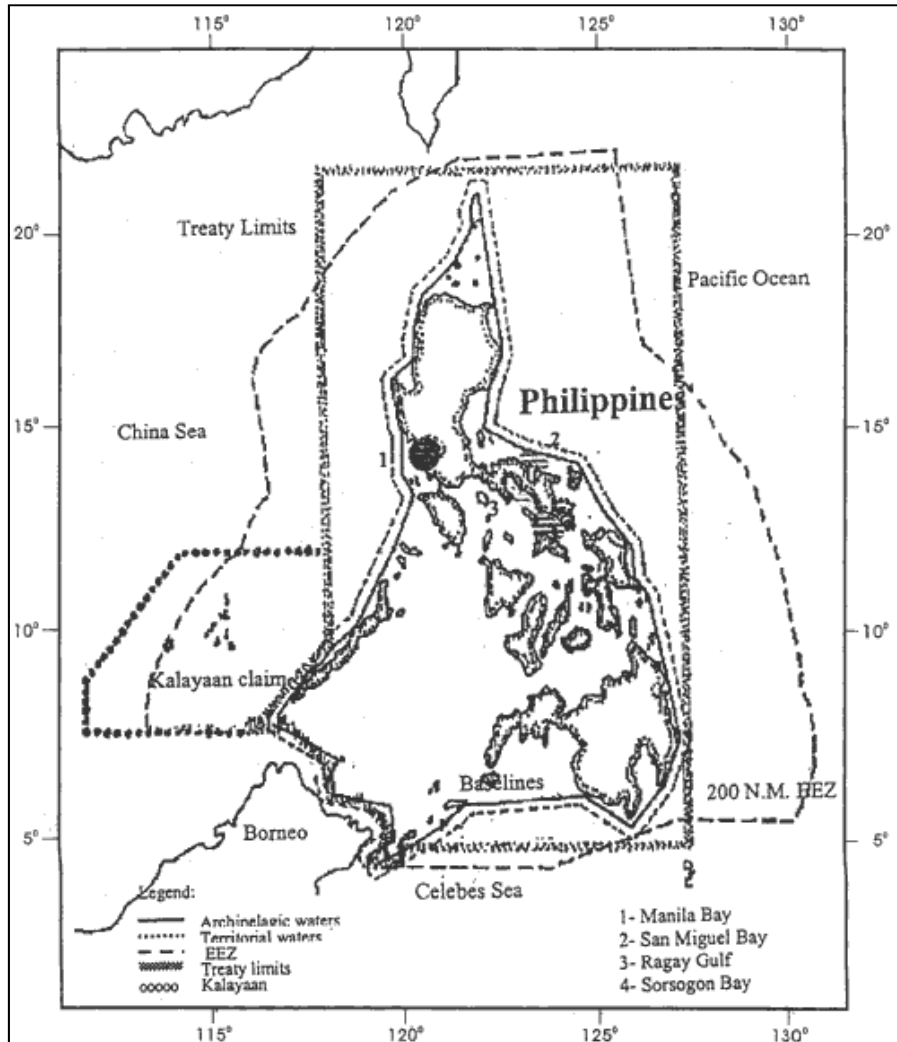


Figure 1. Map of the Philippines showing the limits of archipelagic, territorial waters, treaty limits, Exclusive Economic Zone (200 N. M. EEZ) and Kalayaan claim.

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
2. Prawn feeds	8,657	9,480	413,122
Taiwan	610	635	27,681
China, People'S Rep. Of	53	35	1,546
U S A	154	110	4,780
Thailand	7,591	8,377	365,076
Malaysia	7	2	82
Japan	7	75	3,279
Hongkong	48	8	368
Others	187	237	10,310
3. Flour, meals & pellets of fish, crustaceans & molluscs fit or unfit for human consumption	9,077	8,609	375,197
Peru	1,855	2,198	95,793
Chile	678	939	40,922
U S A	461	314	13,669
Thailand	2,723	2,157	94,016
Denmark	265	510	22,213
Malaysia	7	8	347
China, People's Rep. of	339	246	10,716
New Zealand	167	105	4,560
Taiwan	42	15	669
Mexico	26	22	972
Germany	171	329	14,332
Korea, Rep. of South	193	124	5,404
Italy	512	186	8,119
Singapore	343	44	1,901
Others	1,295	1,413	61,564
Total major imports	150,441	119,965	5,227,127
Other Commodities	63,889	96,588	4,209,313
Grand Total	214,330	216,531	9,436,440

2. Major Fishery Imports in Terms of Value, 2011

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
1. Chilled/Frozen Fish	132,707	101,876	4,438,808
A. Tuna	52,290	59,576	2,596,333
Indonesia	1,181	1,111	48,439
Taiwan	18,439	29,627	1,291,157
Papua New Guinea	11,534	11,267	491,018
Japan (Excludes Okinawa)	6,130	7,506	327,129
Korea,	1,271	1,835	79,965
Singapore	2	8	332
China, People'S Rep. Of	7,499	3,757	163,728
Marshall Islands	4,470	3,229	140,734
Vietnam	233	392	17,084
Others	1,532	843	36,747
B. Mackerel	73,028	38,597	1,682,037
China, People'S Rep. Of	53,183	23,666	1,031,348
Japan	10,389	9,088	396,065
Taiwan	5,915	2,280	99,365
Korea	1,062	803	35,003
Mexico	564	381	16,612
Indonesia	28	38	1,673
New Zealand	1,398	2,290	99,801
Others	490	50	2,170
C. Sardines	7,389	3,704	160,438
Mexico	445	287	12,494
Morocco	243	109	4,737
China, People'S Republic Of	6,555	3,215	140,110
Japan	117	74	3,221
Others	29	19	846

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) ^{1/}	36,289 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, 2011

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

1. At Current Prices	1.9%
2. At Constant Prices	2.2%

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

Industry Group	At Current Prices (P M)	% to Agricultural Sector	At Constant Prices (P M)	% to Agricultural Sector
1. Agricultural crops (Palay, corn, coconut ,etc)	716,344	57.5	333,059	48.9
2. Livestock	151,635	12.2	92,255	13.6
3. Poultry	106,906	8.6	71,262	10.5
4. Agricultural activities	83,319	6.7	48,860	7.2
6. Forestry	3,906	0.3	4,236	0.6
5. Fishing	183,086	14.7	130,772	19.2
Total	1,245,196	100	680,445	100.0

Note: GDP at current and constant 2000 prices

B. IMPORTS ^{5/}

1. Import of Fish and Fishery Products By Kind, Quantity and Value, 2011

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
● Fish Crustaceans, Mollusks, etc. and Preparation	185,936	171,225	7,461,983
a. Fish fresh (live or dead) chilled or frozen	160,738	145,548	6,342,996
b. Fish, dried, salted or in brine, smoked fish	118	265	11,541
c. Crustaceans, mollusks and aquatic invertebrates	21,017	22,046	960,755
d. Fish and other aquatic invertebrate, prepared/preserved	4,063	3,366	146,691
● Shells and By-Products	651	159	6,945
● Miscellaneous and Other Fishery Products	27,743	45,147	1,967,512
Grand Total	214,330	216,531	9,436,440

Note: Figures may not add up due to rounding off

Major Fisheries Export in Terms of Value, 2011

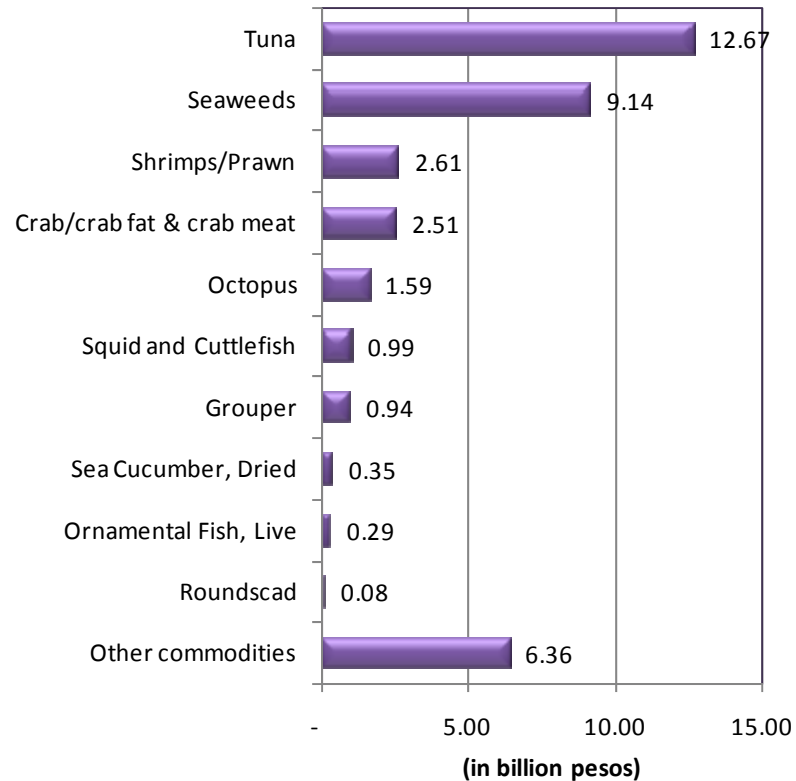


Figure 5

C. Employment ^{4/}

Preliminary Data on the Number of Fishing Operators by Sector, 2002 *

1. Aquaculture	226,195 operators
2. Municipal	1,371,676 operators
3. Commercial	16,497 operators
Total	1,614,368 operators

* Based on 2002 Census of Fisheries

D. Balance of Trade ^{5/}

	2011			2010		
	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)
Fishery Exports	214,055	37,522	871	220,992	35,950	803
Fishery Imports	214,330	9,436	217	202,157	8,518	187
Trade Balance	(275)	28,086	654	18,835	27,432	616

E. Total Fish Production, by Sector, 2011

Sector	Quantity (MT)	%	Value Current Prices ('000 P)	%
1. Aquaculture	2,608,119.84	52.4	85,996,428.04	38.3
2. Municipal Fisheries	1,332,647.79	26.8	80,075,629.84	35.6
3. Commercial Fisheries	1,032,820.12	20.8	58,623,021.01	26.1
Total	4,973,587.75	100.0	224,695,078.89	100.0

4. Fishery Exports, by Major Country of Destination in Terms of Value, 2011

Country/Destination	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
United States Of America	55,161	242,248	10,436,040
Japan (Excludes Okinawa)	12,457	96,015	4,136,347
Germany	13,828	56,417	2,430,441
Hongkong	13,886	57,368	2,471,408
Uk Great Britain And N. Ireland	10,566	39,219	1,689,556
Spain	7,649	25,423	1,095,217
France	6,834	20,679	890,871
Taiwan (Republic Of China)	7,997	22,996	990,655
Canada	4,055	15,224	655,834
China, People'S Republic Of	12,200	23,839	1,026,983
Belgium	3,457	22,148	954,140
Indonesia	1,296	8,011	345,106
Italy	5,575	18,426	793,785
Singapore	2,502	10,140	436,842
Thailand	4,289	19,678	847,746
Korea, Republic Of South	3,419	14,944	643,782
Denmark	1,762	14,222	612,679
United Arab Emirates	2,035	7,200	310,180
Russian Federations	662	5,921	255,085
Vietnam	2,981	7,806	336,285
Total Major Countries	172,611	599,428	31,358,981
Other Countries	41,444	271,565	6,163,387
Grand Total	214,055	870,993	37,522,368

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
3. Shrimps/Prawns	6,715	60,497	2,606,222
Frozen	6,486	57,684	2,485,014
Japan	3,878	39,463	1,700,069
U S A	1,101	7,902	340,433
Korea	242	1,825	78,612
Hongkong	169	887	38,231
Guam	145	1,274	54,872
Trust Territory of the Pacific Is.	94	709	30,561
Canada	120	1,070	46,109
Taiwan	438	1,645	70,886
France	210	2,107	90,767
Others	88	800	34,473
Fresh or chilled	98	1,364	58,751
Korea	2	30	1,273
Guam	1	7	280
United Arab Emirates	94	1,315	56,669
Others	1	12	528
Other Than Fresh/Chilled or Frozen	129	1,437	61,891
Japan	112	1,400	60,294
Taiwan	13	17	742
United States Of America	2	9	390
Prepared and Preserved	2	13	566
Thailand	2	12	524
Singapore	0	1	40
Total (3) major commodities	129,855	566,736	24,414,987
Total other commodities	84,200	304,257	13,107,381
Grand Total	214,055	870,993	37,522,368

Total Fish Production, By Sector, 2011

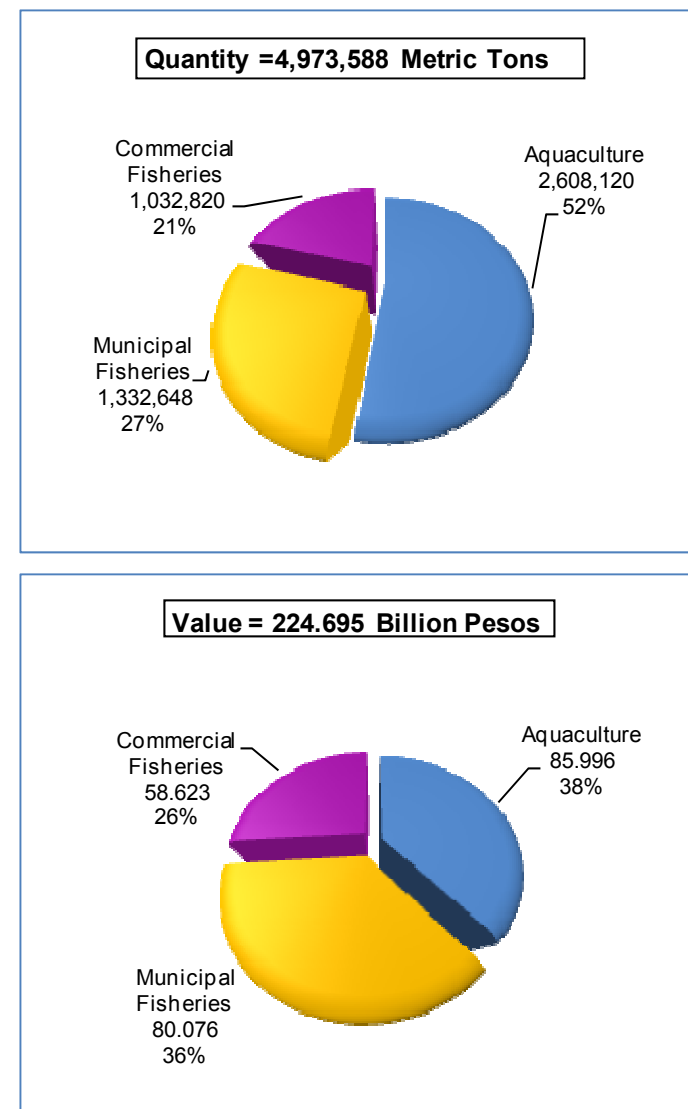


Figure 2

**F. Fish Production, by Sector and Region, 2011
in (MT)**

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	70,684.64	6,620.98	2,709.02	80,014.64	1.6
CAR	-	983.42	2,676.18	3,659.60	0.1
I	3,556.45	39,146.31	107,562.16	150,264.92	3.0
II	16,049.93	34,752.46	14,073.16	64,875.55	1.3
III	4,548.99	42,047.05	212,370.87	258,966.91	5.2
IV-A	73,103.10	124,549.17	205,242.71	402,894.98	8.1
IV-B	44,079.53	196,042.31	488,850.61	728,972.45	14.7
V	68,972.70	143,711.93	76,322.77	289,007.40	5.8
VI	103,808.69	167,227.67	179,849.81	450,886.17	9.1
VII	39,836.61	53,010.45	147,226.27	240,073.33	4.8
VIII	61,228.67	98,212.04	50,337.03	209,777.74	4.2
IX	214,436.45	129,037.87	276,082.66	619,556.98	12.5
X	39,853.61	43,128.28	73,403.82	156,385.71	3.1
XI	13,858.49	24,260.63	26,130.47	64,249.59	1.3
XII	174,840.33	47,668.61	26,020.44	248,529.38	5.0
CARAGA	6,064.74	66,600.69	23,487.05	96,152.48	1.9
ARMM	97,897.19	115,647.92	695,774.81	909,319.92	18.3
Total	1,032,820.12	1,332,647.79	2,608,119.84	4,973,587.75	100.00

Note: For Aquaculture, Figures may not add up to the totals due to rounding off.

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
2. Seaweeds	46,252	212,125	9,138,326
Seaweeds and Other Algae			
Eucheuma Chips	3,089	5,674	244,449
China, People'S Republic Of	965	1,300	56,008
France	706	1,226	52,833
Taiwan (Republic Of China)	14	25	1,098
Korea, Republic Of South	496	363	15,642
Spain	393	1,465	63,124
Others	515	1,294	55,743
Other Eucheuma	14,108	7,511	323,592
China, People'S Republic Of	5,161	2,144	92,366
Others	8,948	5,367	240,243
Seaweeds, Fresh, Chilled/Frozen or Dried	9,085	42,964	1,860,619
United States Of America	1,669	6,607	284,627
Japan	57	406	17,491
Spain	1,040	6,524	281,048
China, People'S Republic Of	1,992	2,344	100,989
Others	4,326	27,083	1,176,465
Carrageenan	19,877	155,699	6,707,504
United States Of America	4,234	31,748	1,367,690
Uk Great Britain And N. Ireland	1,016	7,167	308,762
Belgium	2,147	16,019	690,092
Germany	1,274	10,796	465,089
France	1,087	7,618	328,166
Canada	183	1,424	61,336
Mexico	740	5,135	221,216
Australia	683	5,023	216,391
Denmark	1,404	12,794	551,183
China, People'S Republic Of	474	2,811	121,096
Others	6,635	55,164	2,376,483
Kelp Powder	85	43	1,858
Japan	85	43	1,858

3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2011

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
1. Tuna	76,888	294,114	12,670,439
Fresh/chilled/frozen	18,800	83,080	3,579,070
Japan	2,224	18,952	816,448
U S A	2,400	23,922	1,030,551
Indonesia	110	303	13,039
Thailand	2,495	4,883	210,351
China, People'S Republic Of	446	1,387	59,735
France	685	1,745	75,165
Taiwan	41	541	23,291
Uk Great Britain And N. Ireland	124	416	17,939
Germany	82	710	30,601
Vietnam	1,097	3,263	140,550
Others	9,095	26,959	1,161,402
Prepared/Preserved	58,071	210,866	9,084,115
U S A	19,742	73,946	3,185,593
Canada	981	3,856	166,106
Japan	1,248	6,867	295,809
South Africa	164	629	27,080
Germany	11,977	42,149	1,815,777
Taiwan	112	291	12,541
United Kingdom	8,992	30,220	1,301,867
Netherlands	2,351	7,777	335,036
Kuwait	917	3,167	136,418
Others	11,587	41,966	1,807,889
Dried/Smoked	17	162	7,254
Australia	12	111	4,773
New Zealand	5	51	2,197

F.a. Value of Fish Production, by Sector and Region, 2011 (in '000 P)

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	4,843,743.11	609,039.40	142,802.94	5,595,585.45	2.5
CAR	-	93,614.54	243,444.87	337,059.41	0.2
I	256,041.81	3,300,972.11	9,273,320.00	12,830,333.92	5.7
II	1,094,538.13	2,575,681.35	982,469.72	4,652,689.20	2.1
III	290,772.46	3,068,022.72	24,031,605.94	27,390,401.12	12.2
IV-A	5,498,447.78	4,695,318.33	10,095,672.32	20,289,438.43	9.0
IV-B	1,900,070.02	9,451,955.65	4,717,902.57	16,069,928.24	7.2
V	3,191,283.71	8,719,099.79	2,319,483.01	14,229,866.51	6.3
VI	7,167,746.97	11,728,547.81	8,709,769.50	27,606,064.28	12.3
VII	2,385,352.76	3,770,435.28	1,529,868.53	7,685,656.57	3.4
VIII	3,995,970.33	7,142,452.61	2,395,842.63	13,534,265.57	6.0
IX	8,948,174.27	7,000,624.98	5,053,855.31	21,002,654.56	9.3
X	2,360,018.34	3,067,380.72	6,528,697.23	11,956,096.29	5.3
XI	1,115,298.27	1,808,780.86	2,036,993.40	4,961,072.53	2.2
XII	11,747,485.10	2,672,763.00	1,977,765.73	16,398,013.83	7.3
CARAGA	405,405.66	4,570,093.01	601,281.65	5,576,780.32	2.5
ARMM	3,422,672.29	5,800,847.68	5,355,652.69	14,579,172.66	6.5
Total	58,623,021.01	80,075,629.84	85,996,428.04	224,695,078.89	100.00

G. Fish Production, by Sector 2002-2011

1. Volume of Fish Production (in MT)

Year	Aquaculture	Municipal	Commercial	Total
2011	2,608,119.84	1,332,647.79	1,032,820.12	4,973,587.8
2010	2,545,967.13	1,371,389.78	1,242,101.76	5,159,458.7
2009	2,477,392.03	1,348,643.97	1,253,940.98	5,079,977.0
2008	2,407,697.92	1,332,986.38	1,226,204.88	4,966,889.2
2007	2,214,826.18	1,304,356.47	1,192,069.78	4,711,252.4
2006	2,092,275.8	1,235,528.8	1,080,667.7	4,408,472.3
2005	1,895,847.3	1,132,046.3	1,133,976.2	4,161,869.8
2004	1,717,026.7	1,080,764.3	1,128,382.4	3,926,173.4
2003	1,454,503.4	1,055,143.0	1,109,636.0	3,619,282.4
2002	1,338,393.0	988,938.0	1,042,193.0	3,369,524.0

2. Value of Fish Production (in '000 P)

Year	Aquaculture	Municipal	Commercial	Total
2011	85,996,428.0	80,075,629.84	58,623,021.01	224,695,078.9
2010	82,857,454.5	77,736,463.7	60,456,931.3	221,050,849.5
2009	81,493,357.5	75,383,741.5	58,704,969.4	215,582,068.3
2008	81,669,480.6	70,973,918.9	63,170,103.2	215,813,502.7
2007	61,597,274.2	64,210,385.6	54,737,468.3	180,545,128.2
2006	55,671,892.8	59,146,569.7	48,555,921.0	163,374,383.5
2005	49,169,787.9	49,950,423.5	47,272,737.5	146,392,948.9
2004	44,822,257.0	45,674,851.6	48,349,268.7	138,846,377.3
2003	37,199,123.0	40,664,303.0	42,002,900.0	119,866,326.0
2002	35,418,183.0	38,158,871.0	39,681,164.0	113,258,218.0
2001	36,634,345.0	34,221,731.0	36,088,640.0	106,944,716.0

2. Major Fishery Exports in Terms of Value, 2011

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
1. Tuna	76,888	294,114	12,670,439
Fresh/chilled/frozen (excludes fillet)	18,800	83,080	3,579,070
Smoked	17	168	7,254
Prepared/preserved	58,071	210,866	9,084,115
2. Seaweeds	46,252	212,125	9,138,326
Seaweeds and other Algae, nes.	23,286	50,751	2,186,373
Seaweeds for human consumption	3,089	5,674	244,449
Carrageenan	19,877	155,699	6,707,504
3. Shrimps/Prawns	6,715	60,497	2,606,222
Fresh/ chilled or frozen, nes	6,584	59,047	2,543,765
Dried	129	1,437	61,891
Prepared and preserved	2	13	566
4. Crabs/crabs fat & crab meat	6,164	58,228	2,508,479
Live, Frozen/Fresh or Chilled	4,240	27,350	1,178,244
Crab fat (Prepared/presrd)	181	1,774	76,410
Crab meat (Prepared/presrd)	1,743	29,105	1,253,825
5. Octopus	9,577	36,902	1,589,756
Live, Fresh or chilled	68	221	9,519
Dried, salted or in brine	25	180	7,753
Frozen	9,484	36,501	1,572,484
6. Grouper	6,023	21,751	937,052
Live (other than fry)	-	-	-
For breeding, live	-	-	-
Breeder	6,019	21,745	936,772
Other than for breeding	4	6	280
7. Squid and Cuttlefish	5,704	23,016	991,542
Live	1	1	63
Fresh/chilled/frozen/dried	5,489	22,363	963,408
Prepared/preserved	214	652	28,071
8. Ornamental Fish, Live	5,503	6,650	286,476
9. Roundscad	753	1,954	84,174
Frozen	635	1,597	68,780
Smoked	114	340	14,649
Dried	4	17	745
10. Sea Cucumber, Dried	730	8,228	354,471
Total major commodities	164,309	723,467	31,166,937
Total of other commodities	49,746	147,526	6,355,431
Grand Total	214,055	870,993	37,522,368

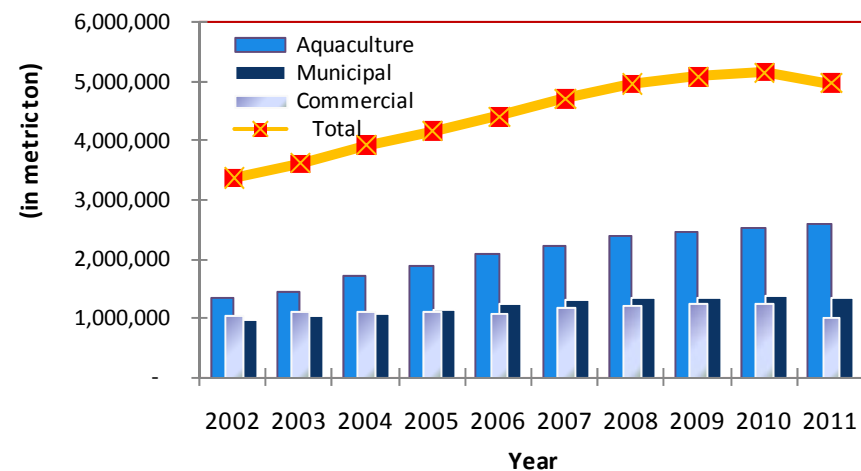
a/ - volume less than 1 metric ton

A. EXPORTS ^{5/}

1. Export of Fish and Fishery Products by Kind, Quantity and Value, 2011

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
A. Fish, Crustaceans, Molluscs, etc. and Preparation	159,647	651,491	28,066,250
A.1 Fish, fresh (live/dead), Chilled/Frozen	44,106	166,488	7,172,303
A.2 Fish, dried, salted/in brine; smoked fish	3,250	14,767	636,165
A.3 Crustaceans, molluscs and aquatic invertebrates, chilled/frozen	33,967	188,631	8,126,210
A.4 Fish and other aquatic invertebrate, prepared/ preserved	78,324	281,606	12,131,572
B. Shells and by-products	5,587	3,964	170,763
C. Miscellaneous fishery products and other by-products	48,821	215,537	9,285,355
Grand Total	214,055	870,993	37,522,368

Volume of Fish Production, By Sector 2002-2011



Value of Fish Production, By Sector 2002-2011

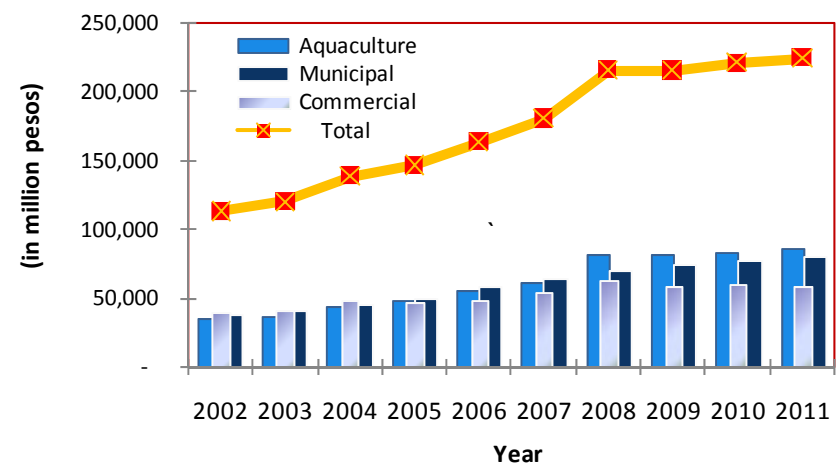


Figure 3

H. Five Year Fish Production, Trend 2007-2011

Year	Quantity (MT)	% Increase/ (Decrease)	Value ('000 P)	% Increase/ (Decrease)
2011	4,973,588	(3.6)	224,695,079	1.6
2010	5,159,459	1.6	221,050,850	2.5
2009	5,079,977	2.3	215,582,068	(0.1)
2008	4,966,889	5.4	215,813,503	19.5
2007	4,711,252	6.9	180,545,128	10.5

Five Year Fish Production, Trend 2007-2011

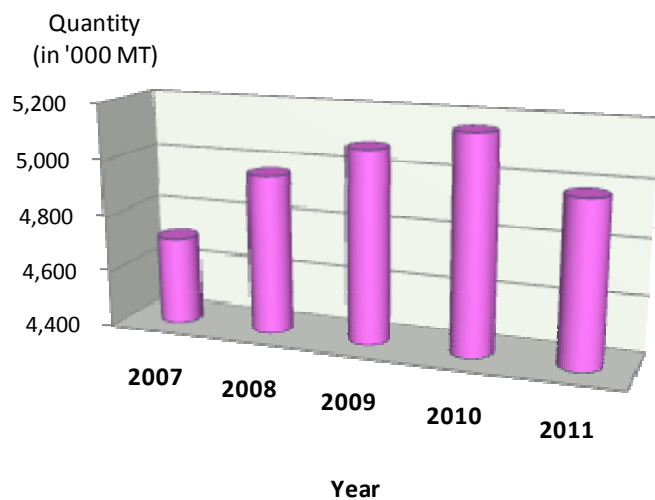


Figure 4

External Trade



**NUMBER OF COMMERCIAL FISHING OPERATORS
AND VESSELS, BY REGION, AS OF 2007 ^{9/}**

Region	No. of Operators	No. of Vessels
NCR	138	758
CAR	4	6
I	36	74
II	68	111
III	50	137
IV-A	153	226
IV-B	259	455
V	248	387
VI	238	667
VII	278	565
VIII	240	350
IX	100	454
X	93	136
XI	89	269
XII	323	1717
CARAGA	31	41
ARMM	10	18
TOTAL	2,358	6,371

Aquaculture Production, 2011

This includes production from the following:

- Brackishwater fishpond
- Freshwater fishpond
- Fish pen and fish cage in fresh and marine waters
- Mariculture of oyster, mussel and seaweeds



A. SUMMARY OF AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT AND REGION, 2011
(In Metric Tons)

Region	Total Aquaculture		Brackishwater			Freshwater			Marine Waters			Oyster Mussel and Seaweed	S F R	Rice Fish	
	Fish- pond	Total	Fish cage	Fish pen	Total	Fish cage	Fish pen	Total	Fish cage	Fish pen	Total				
NCR	2,709	801.9	..	..	802	..	474.9	1176.21	1,651	..	..	0	256.0	..	..
CAR	2,676	..	..	..	0	1765.17	911.01	..	2,676	..	..	0	-	..	..
I	107,562	19865.31	230.06	787.05	20,882	9237.64	24.76	0.08	9,262	60838.56	11305.7	72,144	5,254.9	15.42	2.72
II	14,073	3167.48	108.59	..	3,276	7985.34	266.58	..	8,252	0.28	..	0	2,416.5	128.35	..
III	212,371	88625.28	0.25	..	88,626	113530.44	0.93	..	113,531	3366.37	..	3,366	6,736.3	64.72	46.6
IV-A	205,243	15072.01	..	..	15,072	1344.33	87244.31	47317.9	135,907	0.67	..	1	54,263.5	..	..
IV-B	488,851	4588.91	..	..	4,589	628.09	..	..	628	442.81	..	443	483,190.8	..	..
V	76,323	8007.46	..	..	8,007	1655.05	7579.98	..	9,235	22.78	199.31	222	58,858.2	..	..
VI	179,850	85676.16	7.18	29.22	85,713	1511.39	..	0.3	1,512	205.78	921.93	1,128	91,489.2	5.04	3.6
VII	147,226	7969.86	9.22	..	7,979	163.52	6	..	170	438.87	35.71	475	138,591.7	11.35	..
VIII	50,337	8577.42	48.18	12.23	8,638	297.08	44.7	11.36	353	4807.5	42.46	4,850	36,496.1	..	..
IX	276,083	20898.15	0.57	..	20,899	160.15	..	4.72	165	115.78	..	116	254,903.3	..	..
X	73,404	27481.11	..	..	27,481	950.99	16.3	..	967	2333.34	..	2,333	42,620.6	1.52	..
XI	26,130	4227.81	56.48	0.93	4,285	2117.81	1.55	16.49	2,136	8306.3	9043.84	17,350	2,359.3	..	..
XII	26,020	8657.1	..	..	8,657	935.53	1537.77	11968.1	14,441	2454.34	..	2,454	449.0	18.65	..
CARAGA	23,487	2142.2	343.71	2.32	2,488	144.94	89.39	..	234	341.01	21.89	363	20,401.6	..	..
ARMM	695,775	3703.86	..	..	3,704	217.61	253.39	5042.49	5,513	105.11	1.81	107	686,450.5	..	..
TOTAL	2,608,120	309,462.02	804.23	832	311,098	142,645	98,452	65,538	306,634	83,779.5	21,573	105,352	1,884,737	245.1	52.9

Note: Figures may not add up to the totals due to rounding off.

B. COMMERCIAL FISHERIES PRODUCTION, BY MAJOR FISH SPECIES, 2011

Major Species	Total (MT)	% to Total
1. Roundscad (Galunggong)	172,498.52	16.7
2. Indian Sardines (Tamban)	167,014.31	16.2
3. Frigate Tuna (Tulingan)	70,462.12	6.8
4. Skipjack (Gulyasan)	147,979.44	14.3
5. Yellowfin Tuna (Tambakol/Bariles)	68,625.29	6.6
6. Big-eyed Scad (Matang-baka)	42,692.83	4.1
7. Fimbriated Sardines (Tunsoy)	51,670.01	5.0
8. Slipmouth (Sapsap)	19,533.84	1.9
9. Eastern Little Tuna (Bonito)	21,494.62	2.1
10. Indian Mackerel (Alumahan)	37,028.71	3.6
11. Indo-pacific Mackerel (Hasa-hasa)	22,208.27	2.2
12. Other Species	211,612.16	20.5
Total	1,032,820.12	100.0

A. COMMERCIAL FISH PRODUCTION, BY REGION AND BY TYPE OF LANDING CENTERS, 2011 (in MT)

Region	Total	Private	PFDA	LGU	Traditional
NCR	70,684.64	-	67,673.18		3,011.46
CAR	-				
I	3,556.45	-	879.27		2,677.18
II	16,049.93	-			16,049.93
III	4,548.99	3,684.09		104.35	760.55
IV-A	73,103.10	-	11,665.43	7,911.31	53,526.36
IV-B	44,079.53	-			44,079.53
V	68,972.70	11,269.00		19,332.07	38,371.63
VI	103,808.69	4,865.00	5,374.28	24,604.65	68,964.76
VII	39,836.61	-		2,992.89	36,843.72
VIII	61,228.67	1,209.17		19.90	59,999.60
IX	214,436.45	139,606.65	8,170.82	16,392.33	50,266.65
X	39,853.61	-		8,431.26	31,422.35
XI	13,858.49	1,097.80	3,255.89	5,942.18	3,562.62
XII	174,840.33	56,694.22	113,051.48		5,094.63
CARAGA	6,064.74	-			6,064.74
ARMM	97,897.19	-			97,897.19
TOTAL	1,032,820.12	218,425.93	210,070.35	85,730.94	518,592.90

B. AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT, BY REGION AND SPECIES, 2011

1. Production from Brackishwater (in MT)

a) Fishpond

Region	Total	Milkfish	Tiger Prawn	W. Shrimp & Endeavor Prawn	Tilapia	Mudcrab	Grouper	Siganid	Others
NCR	801.90	488.01			313.89				
CAR									
I	19,865.30	17,389.76	925.82	59.79	1,205.47	9.03		39.29	236.14
II	3,167.48	512.22	54.01	158.33	2,355.32	58.61	0.59	18.78	9.62
III	88,625.28	51,772.47	24,998.53	492.22	6,176.62	4,156.12	7.24		1,022.08
IV-A	15,072.00	14,180.46	80.89	211.92		36.00	7.80		554.93
IV-B	4,588.91	3,888.23	654.23			2.40			44.05
V	8,007.45	4,619.84	1,277.25	313.63	217.13	1,577.95			1.65
VI	85,676.17	80,853.87	1,918.95	183.60	838.31	1,683.37	3.18		194.89
VII	7,969.85	5,807.04	1,056.38	21.16	191.25	3.55			890.47
VIII	8,577.42	7,680.70	318.08	-	62.59	409.05			107.00
IX	20,898.15	11,405.51	6,661.89	889.64	1,694.32	246.79			
X	27,481.11	10,786.79	8,678.91	41.73	580.89	7,280.41			112.38
XI	4,227.82	3,844.73	34.26	49.54	161.61	3.78	0.13		133.77
XII	8,657.10	7,494.58	24.81	0.05	237.23	0.30			900.13
CARAGA	2,142.19	1,108.50	537.14	118.72	37.10	180.63			160.10
ARMM	3,703.87	3,101.36	273.52	123.54	122.54	82.91			
TOTAL	309,462.02	224,934.08	47,494.69	2,663.87	14,194.26	15,730.91	18.94	58.07	4,367.20

b) Fish cage

Region	Total	Milkfish	Tilapia	Grouper	Siganid	Others
NCR						
CAR						
I	230.06	179.31	19.4	0.86	30	0.49
II	108.58	26.38	69.98	1.64	9.15	1.43
III	0.25					0.25
IV-A						
IV-B						
V						
VI	7.17			6.44		0.73
VII	9.22	8.97		0.25		
VIII	48.18	38.06				10.12
IX	0.56			0.21		0.35
X						
XI	56.48	56.48				
XII						
CARAGA	343.71	343.71				
ARMM						
TOTAL	804.23	652.91	89.37	9.41	39.15	13.38

a/ - Volume less than .01 metric ton

Commercial Fisheries Production, 2011

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



**C. 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

c) Fish pen

Region	Total	Milkfish	Siganid	Grouper	Tilapia	Others
NCR						
CAR						
I	787.04	739.45	1.3	0.3	44.73	1.26
II						
III						
IV-A						
IV-B						
V						
VI	29.22	29.02				0.2
VII						
VIII	12.23	12.23				
IX						
X						
XI	0.93	0.79	0.09	0.01		0.04
XII						
CARAGA	2.32	1.85	0.05		0.42	
ARMM						
TOTAL	831.74	783.35	1.43	0.32	45.15	1.49

2. Production from Freshwater (in MT)

a) Fishpond

Region	Total	Tilapia	Milkfish	Carp	Catfish	Mudfish	Gourami	Fresh-water Shrimp (Ulang)	Others
NCR									
CAR	1,765.16	1,761.75		0.19					3.22
I	9,237.63	9,142.46	2.11	29.9	5.09	56.78	1.29		
II	7,985.33	7,880.95		11.05	43.78	33.34	1.34	0.57	14.3
III	113,530.44	111,574.14		198.6	1011.37	567.85	160.35	0.14	17.99
IV-A	1,344.33	1,180.12		31.66	129.5	0.23		0.19	2.63
IV-B	628.09	627.01						1.08	
V	1,655.05	1,552.97			102.08				
VI	1,511.39	494.02			1006.6	0.12			10.65
VII	163.51	157.47		0.04	5.74	0.26			
VIII	297.09	290.71	0.3		5.2			0.88	
IX	160.15	104.37			5.94	49.84			
X	950.99	801.57		92.36	1.62	55.36	0.06		0.02
XI	2,117.81	1,599.58		14.93	435.39	61.55	2.12		4.242
XII	935.54	624.70		1.31	232.25	48.24	1.72		27.323
CARAGA	144.95	133.97		5.37	0.19	1.99			3.43
ARMM	217.61	84.43			133.18				
TOTAL	142,645.08	138,010.22	2.41	385.41	3,117.93	875.56	166.88	2.86	83.81

B. MARINE MUNICIPAL FISH CATCH, BY MAJOR FISH SPECIES, 2011

Major Species	Total (MT)	% to Total
Frigate Tuna (Tulingan)	62,167.10	5.5
Big-eyed Scad (Matang-baka)	76,516.78	6.7
Roundscad (Galunggong)	67,072.43	5.9
Indian Sardines (Tamban)	65,893.11	5.8
Indian Mackerel (Alumahan)	47,282.50	4.2
Anchovies (Dilis)	48,826.95	4.3
Yellowfin tuna (Tambakol)	54,389.17	4.8
Squid (Pusit)	43,508.27	3.8
Fimbriated Sardines (Tunsoy)	47,124.11	4.1
Slipmouth (Sapsap)	41,608.70	3.7
Others	584,560.34	51.3
Total	1,138,949.46	100.0

**A. MUNICIPAL FISHERIES PRODUCTION, BY REGION, 2011
(in MT)**

Region	Marine	Inland	Total
NCR	6,620.98	.	6,620.98
CAR	.	983.42	983.42
I	36,246.43	2,899.88	39,146.31
II	22,157.14	12,595.32	34,752.46
III	29,672.78	12,374.27	42,047.05
IV-A	36,595.38	87,953.79	124,549.17
IV-B	195,128.77	913.54	196,042.31
V	137,716.63	5,995.30	143,711.93
VI	158,937.88	8,289.79	167,227.67
VII	52,816.90	193.55	53,010.45
VIII	96,869.40	1,342.64	98,212.04
IX	128,110.96	926.91	129,037.87
X	39,013.49	4,114.79	43,128.28
XI	24,067.39	193.24	24,260.63
XII	21,468.38	26,200.23	47,668.61
CARAGA	62,337.76	4,262.93	66,600.69
ARMM	91,189.19	24,458.73	115,647.92
TOTAL	1,138,949.46	193,698.33	1,332,647.79

b) Fish cage

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	474.89	390.05		84.84		
CAR	911.01	911.01				
I	24.76	24.76				
II	266.58	266.58				
III	0.93	0.93				
IV-A	87,244.31	71,478.02	14,104.82	1661.47		
IV-B	0.00					
V	7,579.98	7,567.99		11.99		
VI	0.00					
VII	6.00	6.00				
VIII	44.70	44.70				
IX	0.00					
X	16.30	16.30				
XI	1.55	1.54				0.01
XII	1,537.78	1,537.24		0.20		0.33
CARAGA	89.39	89.14				0.25
ARMM	253.39	192.92	60.47			
TOTAL	98,451.58	82,527.20	14,165.29	1,758.51	0.00	0.59

c) Fish pen

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	1,176.21		1,176.21			
CAR	-					
I	0.08	0.08				
II	-					
III	-					
IV-A	47,317.90	12,283.90	19,852.28	15,181.72		
IV-B	-					
V	-					
VI	0.30	0.30				
VII	-					
VIII	11.36	11.36				
IX	4.72	1.57				3.15
X	-					
XI	16.49	16.49				
XII	11,968.10	6,197.20	5,770.90			
CARAGA	-					
ARMM	5,042.49	3,757.33	1,285.16			
TOTAL	65,537.65	22,268.23	28,084.55	15,181.72	-	3.15

d) Small-farm Reservoir

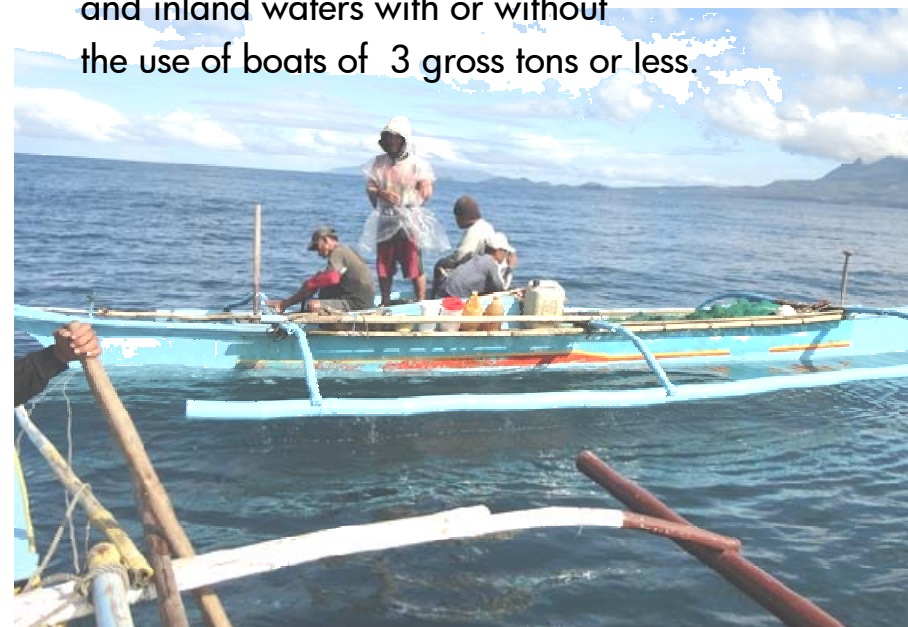
Region	Total	Tilapia	Milkfish	Carp	Catfish	Gourami	Mudfish	F. Shrimp (Ulang)	White Shrimps	Others
I	15.41	9.07		1.14	0.33	0.01	4.86			0
II	128.36	106.06		8.56	4.42	2.25	5.46	1.56		0.05
III	64.72	63.11			0.94	0.67				
VI	5.05	2.69			2.36					
VII	11.34	10.88		0.15	0.11		0.20			
X	1.52	1.05				0.2	0.27			
XII	18.66	12.66		0.98	1.4	0.69	2.93			
TOTAL	245.06	205.53	0.00	10.83	9.56	3.82	13.71	1.56	0.00	0.05

e) Rice Fish

Region	Total	Tilapia	Carp	Catfish	Gourami	Mudfish	Others
I	2.72	1.51	0.24	0.16	0.13	0.41	0.27
III	46.60	38.35	4.16	1.42	1.85	0.82	
VI	3.60	3.6					
VIII							
XI							
TOTAL	52.92	43.46	4.40	1.58	1.98	1.23	0.27

Municipal Fisheries Production, 2011

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



E. AREA AND LOCATION OF MAJOR LAKES IN THE PHILIPPINES ^{7/}

Rank	Name of Lakes	Area (HA)	Location
1	Laguna de Bay	90,000	Laguna & Rizal
2	Lanao	34,700	Marawi City, Lanao del Sur
3	Taal	23,400	Batangas
4	Mainit	14,000	Agusan del Norte & Surigao del Norte
5	Naujan	11,000	Mindoro Oriental
6	Buluan	6,500	Sultan Kudarat & Maguindanao
7	Bato	3,800	Iriga City, Camarines Sur
8	Buhi	1,800	Iriga City, Camarines Sur
9	Dapao	1,000	Ganassi, Lanao del Sur
10	Sebu	964	South Cotabato
11	Wood	792	Pagadian City, Zamboanga del Sur
12	Manguao	643	Taytay, Palawan
13	Baao	600	Baao, Camarines Sur
14	Paoay	420	Ilocos Norte
15	Maughan	314	Gen. Santos City, South Cotabato
16	Danao	260	Camotes Island, Cebu
17	Pagusi	253	Santiago, Agusan del Norte
18	Pinamaloy	252	Maramag, Bukidnon
19	Balut	206	Parang, Maguindanao
20	Imelda/Danao	197	Ormoc City, Leyte
21	Bito	150	Tacloban City, Leyte
22	Nunungan	148	Ganassi, Lanao del Norte
23	Sampaloc	102	San Pablo City, Laguna

**Only those with an area greater than 100 hectares are listed.*

Source: *Directory of Philippine Wetlands, Volume II*
Published by Asian Wetland Bureau Philippines Foundation Inc. (DENR Library)

3. Production from Marine Waters (in MT)

a) Fish cage

Region	Total	Milkfish	Grouper	Siganid	Snapper	Cavalla	Mud crab	Spiny lobster	Tiger Prawn	Tilapia	Others
NCR											
CAR											
I	60,838.56	60,829.19									9.37
II	0.28			0.28							
III	3,366.37	3,356.13									10.24
IV-A	0.67		0.67								
IV-B	442.81	1.25	440.07	0.17	0.26	1.06					
V	22.78	0.73	11.50	0.11		10.42		0.02			
VI	205.78	145.14	50.80		7.94	0.63					1.27
VII	438.86	428.71	2.77	3.15	0.16					1.32	2.75
VIII	4,807.50	4,435.51	371.99								
IX	115.78	0.32	111.04	4.42							
X	2,333.34	2,330.90		2.44							
XI	8,306.30	8,288.51	0.85	15.15						0.70	1.09
XII	2,454.33	2,274.65		0.54		0.56					
CARAGA	341.02	315.92	7.81	8.53				8.76			
ARMM	105.11	15.40	24.59			10.83		54.29			
TOTAL	83,779.49	82,422.36	1,022.09	34.79	8.36	23.49	0.00	63.07	0.00	2.02	203.30

b) Fish pen

Region	Total	Milkfish	Grouper	Siganid	Snapper	Cavalla	Spiny Lobster	Tiger Prawn	Tilapia	Others
NCR										
CAR										
I	11,305.72	11,305.72								
II	0.00									
III	0.00									
IV-A	0.00									
IV-B	0.00									
V	199.31	197.91	1.41							
VI	921.93	921.93								
VII	35.72	35.24	0.14	0.23	0.04					0.07
VIII	42.46	31.76		10.7						
IX	0.00									
X	0.00									
XI	9,043.83	9,043.29	0.06	0.44		0.06				
XII	0.00									
CARAGA	21.89		11.9	5.59			4.40			
ARMM	1.81					1.38	0.43			
TOTAL	21,572.67	21,535.84	13.50	16.95	0.04	1.43	4.84	0.00	0.00	0.07

**D. MAJOR SPECIES PRODUCED IN
AQUACULTURE FISHERIES, 2011**

Species	Quantity (MT)	Percent (%)
Seaweeds	1,840,832.86	70.58
Milkfish	372,580.80	14.29
Tilapia	257,385.44	9.87
Shrimps/Prawns	50,158.55	1.92
Others	87,162.19	3.34
Total	2,608,119.84	100.00

Seaweeds

Region	Total
NCR	
CAR	
I	195.74
II	1,798.71
III	789.34
IV-A	46,832.17
IV-B	483,190.81
V	58,841.98
VI	72,865.00
VII	137,871.47
VIII	31,939.63
IX	254,521.10
X	42,618.67
XI	2,067.17
XII	448.95
CARAGA	20,401.58
ARMM	686,450.54
TOTAL	1,840,832.86

4. Production from Mariculture (in MT)

Region	Total	Oyster	Mussels	Seaweeds
NCR	256.01		256.01	
CAR	-			
I	5,254.85	4,268.04	791.07	195.74
II	2,416.54	617.83		1,798.71
III	6,736.27	4,508.65	1,438.28	789.34
IV-A	54,263.49	995.78	6,435.54	46,832.17
IV-B	483,190.81			483,190.81
V	58,858.20	4.05	12.17	58,841.98
VI	91,489.21	9,623.50	9,000.71	72,865.00
VII	138,591.74	720.27		137,871.47
VIII	36,496.08	48.35	4,508.10	31,939.63
IX	254,903.30	382.20		254,521.10
X	42,620.56	1.06	0.83	42,618.67
XI	2,359.27	292.10		2,067.17
XII	448.95			448.95
CARAGA	20,401.58			20,401.58
ARMM	686,450.54			686,450.54
TOTAL	1,884,737.39	21,461.82	22,442.71	1,840,832.86

C. AQUACULTURE PRODUCTION OF MAJOR COMMODITIES BY CULTURE ENVIRONMENT AND BY REGION, 2011
(In Metric Tons)

Milkfish

Region	Total	Brackishwater		Freshwater		Marine		Small Farm Reservoir	
		Fishpond	Fish cage	Fish pond	Fish cage	Fish cage	Fish pen		
NCR	1,664.22	488.01			1,176.21				
CAR	0.00								
I	90,445.54	17,389.76	179.31	2.11		60,829.19	11,305.72		
II	538.60	512.22	26.38			3,356.13			
III	55,128.60	51,772.47			14,104.82				
IV-A	48,137.56	14,180.46				1.25			
IV-B	3,889.48	3,888.23				0.73	197.91		
V	4,818.48	4,619.84				145.14	921.93		
VI	81,949.96	80,853.87	29.02			4,435.51	31.76		
VII	6,279.96	5,807.04	8.97			0.32			
VIII	12,198.56	7,680.70	38.06	0.30		2,330.90			
IX	11,405.83	11,405.51				8,288.51	9,043.29		
X	13,117.69	10,786.79				2,274.65			
XI	21,233.80	3,844.73	56.48	0.79		315.92			
XII	15,540.13	7,494.58				15.40			
CARAGA	1,769.98	1,108.50	343.71	1.85					
ARMM	4,462.39	3,101.36			60.47				
TOTAL	372,580.80	224,934.08	652.92	783.35	2.41	14,165.29	28,084.55	82,422.36	21,535.84

Tilapia

Region	Total	Brackishwater		Freshwater		Small-farm Reservoir		Marine		
		Fishpond	Fish cage	Fish pond	Fish cage	Fish pond	Fish pen	Rice Fish	Fish pen	
NCR	703.94	313.89			390.05					
CAR	2,672.76									
I	10,447.47	1,205.47	19.40	44.73	1,761.75	911.01	9.07	1.51		
II	10,678.89	2,355.32	69.98		7,880.95	266.58	106.06			
III	117,853.16	6,176.62			111,574.14	0.93	63.11	38.36		
IV-A	84,942.04				1,180.12	71,478.02				
IV-B	627.01				627.01					
V	9,338.09	217.13			1,552.97	7,567.99				
VI	1,338.92	838.31			494.02		2.69			
VII	366.92	191.25			157.47	6.00	10.88		1.32	
VIII	409.36	62.59			290.71	44.70				
IX	1,800.26	1,694.32			104.37					
X	1,399.82	580.89			801.57	16.30	1.05			
XI	1,779.92	161.61			1,599.58	1.54			0.70	
XII	8,609.03	237.23			624.70	1,537.24	12.66			
CARAGA	260.63	37.10		0.42	133.97	89.14				
ARMM	4,157.22	122.54			84.43	192.92				
TOTAL	257,385.44	14,194.26	89.37	45.15	138,010.22	82,527.20	22,268.23	205.53	43.46	2.02