

PHILIPPINE FISHERIES PROFILE 2010



Department of Agriculture

BUREAU OF FISHERIES AND AQUATIC RESOURCES

PCA Compound, Elliptical Road, Diliman, Q. C.

Tel Nos. 929-9597

Fax Nos. 929-8074

Website: www.bfar.da.gov.ph

E-mail: info@bfar.da.gov.ph



Republic of the Philippines
Department of Agriculture

BUREAU OF FISHERIES AND AQUATIC RESOURCES

FOREWORD

The Bureau of Fisheries and Aquatic Resources (BFAR), in 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), is once again pleased to produce the yearly Fisheries Profile.

The Profile summarizes the performance of the fishery industry—fisheries contribution to the economy; aquaculture, municipal and commercial productions; employment generation; trade (import and export); world fisheries production; and other fisheries information.

This publication hopes to address the fishery sector's need in searching for collected facts and ready-to-use data intended for all concerned users—the decision and policy makers, students, researchers, among others.

Kudos to those who made this publication possible, to the collective efforts of all agencies involved— all the partners, stakeholders, local government units (LGUs) and the private sector. We continually strive not only to improve the quality of our information but to enhance its usefulness to the clientele and community that the Bureau serves.


ATTY. ASIS G. PEREZ
Director



Department of Agriculture

BUREAU OF FISHERIES AND AQUATIC RESOURCES

PCA Compound, Elliptical Road, Diliman, Q. C.

Tel Nos. 929-9597

Fax Nos. 929-8074

Website: www.bfar.da.gov.ph

E-mail: info@bfar.da.gov.ph

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, 2009- 2010** ^{12/}

(pesos per kilogram)

Species	2009		2010	
	Wholesale	Retail	Wholesale	Retail
1. Indian mackerel (Alumahan)	88.50	107.59	84.83	104.70
2. Milkfish (Bangus)	93.58	114.37	90.69	112.56
3. Threadfin bream (Bisugo)	96.58	138.84	98.44	139.37
4. Blue crab (Alimasag)	128.78	168.57	120.48	171.86
5. Caesio (Dalagang Bukid)	85.48	138.46	82.80	136.22
5. Anchovies (Dilis)	47.91	73.85	44.45	74.21
6. Roundscad (Galunggong)	64.82	87.99	64.25	87.45
7. Slipmouth (Sapsap)	70.72	107.27	66.13	112.51
9. Endeavor prawn (Shrimp, Suaje)	245.67	271.72	242.30	266.28
10. Tilapia	68.99	86.49	67.89	87.57
11. Frigate tuna (Tulingan)	78.93	92.65	77.97	92.90
12. Shrimp, Tiger prawn (sugpo)	361.83	421.39	377.01	425.66

C O N T E N T S

FOREWORD

HIGHLIGHTS

8

► FISHERY RESOURCES

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

► FISHERIES CONTRIBUTION TO THE ECONOMY, 2010

- 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, 2010 18
- F. Fish Production, by Sector and Region, 2010 20
- F-a. Value of Fish Production, by Sector and Region, 2010 21
- G. Fish Production, by Sector, 2001 -2010 22
- H. Five Year Fish Production, Trend 2006 -2010 24

► AQUACULTURE PRODUCTION, 2010

- A. Summary of Aquaculture Production by Culture Environment and Region, 2010 26
- B. Aquaculture Production by Culture Environment, Region and Species, 2010 27
- C. Aquaculture Production of Major Commodities by Culture Environment and by Region, 2010 36
- D. Major Species Produced in Aquaculture Fisheries, 2010 39
- E. Area and Location of Major Lakes in the Philippines 40

▶	MUNICIPAL FISHERIES PRODUCTION, 2010	
	A. Municipal Fisheries Production, by Region, 2010	42
	B. Marine Municipal Fish Catch, by Major Fish Species, 2010	43
	C. Number of Municipal Fishing Bancas, by Region, 2000	44
▶	COMMERCIAL FISHERIES PRODUCTION, 2010	
	A. Commercial Fisheries Production, by Region and by Type of Landing Centers, 2010	46
	B. Commercial Fisheries Production, by Major Fish Species, 2010	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, 2010	50
	2. Major Fishery Exports in Terms of Value, 2010	51
	3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2010	52
	4. Fishery Exports, by Major Country of Destination in Terms of Value, 2010	55
	B. Imports	
	1. Imports of Fish and Fishery Products by Kind, Quantity and Value, 2010	57
	2. Major Fishery Imports in Terms of Value, 2010	58
	3. Fishery Imports, by Major Country of Origin in Terms of Value, 2010	60

D. WORLD AQUACULTURE PRODUCTION OF AQUATIC PLANTS BY PRINCIPAL PRODUCERS IN 2009 ^{11/}

Major Countries	Volume (MT)	% Share	Value (US\$' 000)	% Share
1. China	10,495,905	60.52	2,357,839	48.96
2. Indonesia	2,963,556	17.09	811,822	16.86
3. Philippines	1,739,995	10.03	201,154	4.18
4. Korea Rep.	858,659	4.95	252,112	5.24
5. Japan	456,426	2.63	977,082	20.29
6. Korea D P Rp.	444,300	2.56	66,645	1.38
7. Malaysia	138,857	0.80	7,884	0.16
8. Zanzibar	102,682	0.59	1,327	0.03
9. Chile	88,193	0.51	114,678	2.38
10. Vietnam	33,600	0.19	16,800	0.35
11. Other Countries	20,572	0.12	8,122	0.17
World Total	17,342,745	100	4,815,465	100

C. WORLD AQUACULTURE PRODUCTION OF FISH, CRUSTACEANS, MOLLUSCS, etc. BY PRINCIPAL PRODUCERS IN 2009^{11/}

Major Countries	Volume (MT)	% Share	Value (US\$ '000)	% Share
1. China	34,779,870	62.46	54,721,870	51.97
2. India	3,791,920	6.81	5,648,317	5.36
3. Vietnam	2,556,200	4.59	4,802,712	4.56
4. Indonesia	1,733,434	3.11	3,205,671	3.04
5. Thailand	1,396,020	2.51	2,427,440	2.31
6. Bangladesh	1,064,285	1.91	2,350,574	2.23
7. Norway	961,840	1.73	3,590,060	3.41
8. Chile	792,891	1.42	4,668,055	4.43
9. Japan	786,910	1.41	3,213,234	3.05
10. Myanmar	778,096	1.40	912,454	0.87
11. Philippines	737,397	1.32	1,485,706	1.41
12. Egypt	705,500	1.27	1,247,543	1.18
13. USA	480,073	0.86	937,176	0.89
14. Korea Rep	473,060	0.85	1,360,587	1.29
15. Other Countries	4,643,242	8.34	14,730,447	13.99
World Total	55,680,738	100.00	105,301,846	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, 2009	65
C. World Aquaculture Production of Fish, Crustaceans, Molluscs, etc. by Principal Producers in 2009	66
D. World Aquaculture Production of Aquatic Plants by Principal Producers in 2009	67
E. Prices of Selected Fish Species, Philippines, 2009-2010	68

LIST OF FIGURES

1 Philippine Marine Jurisdictional Boundaries	14
2 Total Fish Production, by Sector, 2010	19
3 Volume of Fish Production, by Sector, 2001-2010	23
Value of Fish Production, by Sector, 2001-2010	23
4 Five-Year Fish Production, Trend 2006-2010	24
5 Major Fisheries Export in Terms of Value, 2010	56

ENDNOTES

HIGHLIGHTS

World Scenario: *Philippine Fisheries*

- In 2009, the Philippines ranked 6th among the top fish producing countries in the world with its total production of 5.08 million metric tons of fish, crustaceans, mollusks, and aquatic plants (including seaweeds). The production constitutes 3.12% of the total world production of 162.8 million metric tons (*FAO website*).
- The Philippines' 0.737 million metric tons aquaculture production of fish, crustaceans and mollusks in 2009 ranked 11th in the world and a 1.32% share to the total global aquaculture production of 55.68 million metric tons. In terms of value, the country's aquaculture production of fish, crustaceans and mollusks has amounted to over 1.49 billion dollars (*FAO website*).
- Similarly, the Philippines is the world's 3rd largest producer of aquatic plants (including seaweeds) having produced a total of 1.74 million metric tons or nearly 10.03% of the total world production of 17.34 million metric tons (*FAO website*).

Contribution to National Economy, 2010

- The fishing industry's contribution to the country's Gross Domestic Products (GDP) were 2 % and 2.4% at current and constant prices, respectively. This translates to some P180 billion for current prices and P136.4 billion for constant prices of the country's GDP of P9,003.5 billion (current prices) and P5,702 billion (constant prices).
- The industry also accounted for 16.2% (P180 billion) and 20.6% (P136.4 billion) of the Gross Value Added (GVA) in Agriculture, Fishery and Forestry Group of P1,108.7 billion and P662.7 billion at current and constant prices, respectively, the largest share next to agricultural crops.

B. WORLD FISHERIES PRODUCTION OF FISH, CRUSTACEANS, MOLLUSCS AND AQUATIC PLANTS^{11/} (includes seaweeds), BY CAPTURE AND AQUACULTURE, BY MAJOR PRODUCERS, 2009 ('000 MT)

Major Countries	TOTAL		Fish, Crustaceans & Molluscs				Aquatic Plants (includes seaweeds)		
	MT	% share	Capture	Aquaculture	Total	Capture	Aquaculture	Total	
1. China	60,471,541	37.13	14,919,596	34,779,870	49,699,466	276,170	10,495,905	10,772,075	
2. Indonesia	9,798,685	6.02	5,099,355	1,733,434	6,832,789	2,340	2,963,556	2,965,896	
3. India	7,845,163	4.82	4,053,241	3,791,920	7,845,161	-	2	2	
4. Peru	6,964,446	4.28	6,914,452	44,317	6,958,769	5,677	-	5,677	
5. Japan	5,194,553	3.19	3,847,017	786,910	4,633,927	104,200	456,426	560,626	
6. Philippines	5,080,280	3.12	2,602,454	737,397	3,339,851	434	1,739,995	1,740,429	
7. Viet Nam	4,832,900	2.97	2,243,100	2,556,200	4,799,300	-	33,600	33,600	
8. USA	4,710,332	2.89	4,222,052	480,073	4,702,125	8,207	-	8,207	
9. Chile	4,702,902	2.89	3,453,786	792,891	4,246,677	368,032	88,193	456,225	
10. Russian Fed	3,949,267	2.43	3,826,129	116,571	3,942,700	5,828	739	6,567	
11. Myanmar	3,545,186	2.18	2,766,940	778,096	3,545,036	-	150	150	
12. Norway	3,486,277	2.14	2,524,437	961,840	3,486,277	-	-	-	
13. Korea Rep.	3,199,177	1.96	1,856,615	473,060	2,329,675	10,843	858,659	869,502	
14. Thailand	3,137,682	1.93	1,741,662	1,396,020	3,137,682	-	-	-	
15. Other Countries	35,928,187	22.06	28,847,204	6,252,139	35,099,343	123,324	705,520	828,844	
World Total	162,846,578	100.00	88,918,040	55,680,738	144,598,778	905,055	17,342,745	18,247,800	

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)

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 2010 reached 5,159,459 metric tons. Fisheries production grew remarkably by 28.06% from 4.16 million metric tons in CY 2005 to 5.159 million metric tons in CY 2010. Average annual production growth rate within that period was registered at 4.68%. In terms of value, the 2010 fisheries production was valued at 221.05 billion pesos as compared with the 146.39 billion pesos in 2005, an average yearly increment of 8.25 billion pesos.
- The 2010 fisheries production also showed a 1.56% increase from the previous year's production of 5.08 million metric tons. The 2010 production was valued at 221.05 billion pesos.
- The annual performance of the fishing industry was attributed to the growth in production of the three (3) sectors. The aquaculture sector posted the highest growth with 49.3% (2.546 million MT) followed by the municipal sector with 26.6% (1.37 million MT), and the commercial sector with 24.1 % (1.24 million MT). The tremendous 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 17.5% or 904,271 metric tons share to the total fisheries production, where seaweed was the major commodity produced followed by Region IX with a 14.7% share or 757,216 metric tons. Region IV-B (MIMAROPA) recorded output of 726,498 metric tons or 14.1% to the total fisheries production.

- In terms of value, the industry has contributed P221.05 billion in 2010 as compared to P215.58 billion in 2009. The top three (3) regions were Region III with P27.08 billion, followed by Region VI with P25.71 billion and Region IX with P22.77 billion.
- The Aquaculture fisheries sub-sector contributed the highest value of about P82.86 billion or 37.5 %. Next is municipal fisheries sub-sector with a total production of P 77.74 billion. Total fish caught by marine fishermen was valued at P70.2 billion while inland fisheries production was valued at P7.54 billion. The commercial sub-sector contributed P60.46 billion or 27.3% to the total fishery output.

Fisheries Export and Import Performance

Exports

- Foreign trade performance of the fishery industry in 2010 registered a net surplus of 616 million dollars – total export value of 803 million US dollars and import value of 187 million US dollars.
- Moreover, export volume registered a total of 12.45% or 220,992 MT in 2010 as compared to the 196,521 MT of fish and fishery products the country has exported in 2009. The three major export commodities (tuna, seaweeds, shrimp/prawn,) combined for 67% (148,615 MT) of the total export volume (220,992 MT) and 67% (US\$545.3 million) of the total export value (US\$ 803 million) in 2010.
- Tuna remained as the top export commodity with a collective volume of 106,449 MT for fresh/chilled/frozen, smoked/dried, and canned tuna products valued at US \$337.719 million. Canned tuna, though, constitutes bulk of tuna products being exported. In general, tuna export went up by 2% in terms of volume and 3% in terms of value. Major markets for this commodity include USA, UK and Germany.

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.

- Seaweeds came 2nd on export value with 42.6% increase from US\$99.438 million in 2009 to US\$ 155.61 million in 2010 or 19% share to the total export earnings for that year. Carrageenan remains the major product being shipped abroad comprising 75% of the total seaweed export value. USA, China and France are among the major markets for Philippine seaweed products.
- Shrimp/Prawn ranked 3rd with a total contribution of US\$52 million to the total export value, lower than last years export earnings of \$55.1 million. Most of the shrimps/prawns are exported in fresh/chilled/frozen form with a total value of US\$ 52 million or 98% of the total shrimp/prawn export revenue. The 2010 shrimp/prawn exports, however, fell by (7)% in volume (MT) and (6)% down 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 84% or US\$ 677.8 million of the total US\$ 803.2 million export revenues. Other commodities accounted for the remaining 16% 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, 25.1%; Japan, 10.8%; Germany, 7.7%; Hongkong 6.9%; UK, 5.7%; Spain, 4.9%; France, 3.2%, Taiwan (ROC) 2.6%, Canada, 2.4%, and China, Rep Of 2.3%;. Other countries have a cumulative share of 28%.

Imports

- 73% of the total import value for 2010 was contributed by three major commodities in chilled/frozen fish, 49%, prawn feeds, 4%; as well as flour, meals and pellets of fish, crustaceans, and mollusks fit and unfit for human consumption, 6%. These commodities have an aggregated value of US\$ 110.4 million out of the US\$ 187.2 million total import value.

- Prawn feeds were mostly sourced from Thailand, 90.7%; Taiwan, (ROC) 5.3%; Singapore, 1 %; China, 1.8%; Hongkong, 0.18%; and USA, 0.03%; with a total of \$ 7.53 million on import value.
- Chilled/frozen fish comprise of tuna, mackerel and sardines with a total of US\$ 92.3 million . Tuna has an import value of US \$59.1 million, the largest among the three major import with a share of 32%. These were mostly supplied by Papua New Guinea 8 %; Taiwan (ROC) 10%; Japan 4.3%; Singapore, 1% and Korea Rep, 6%. Other fishery imports include mackerel, 17% and sardines 1%.

In terms of value, in general, the Philippine fishery imports originated from the following major countries: China, 20%; Indonesia, 17%; Taiwan (ROC), 12%; Papua New Guinea, 10%; Vietnam, 8%; Japan 7% ; ; Korea, 7%; USA, 5%; and Denmark, 2%. 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, 2010

Major Countries	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
China, People'S Republic Of	66,048	37,078	1,687,408
Indonesia	18,143	31,042	1,412,712
Taiwan (Republic Of China)	23,794	23,255	1,058,358
Papua New Guinea	15,353	18,494	841,642
Vietnam	8,896	15,337	697,976
Japan (Excludes Okinawa)	17,684	13,980	636,234
Korea, Republic Of South	11,037	13,343	607,255
United States Of America	10,917	9,234	420,229
Denmark	737	3,719	169,251
Singapore	4,143	3,636	165,472
Chile	4,338	3,307	150,479
Norway	1,759	3,113	141,661
Peru	2,655	3,096	140,919
Thailand	4,353	3,008	136,892
New Zealand	1,193	1,072	48,789
Malaysia	512	1,029	46,811
Marshall Islands, Rep. Of	418	637	28,981
Germany	450	592	26,934
Italy	561	252	11,485
Hongkong	146	129	5,859
Total Major Countries	193,138	185,352	8,435,348
Other Countries	9,019	1,816	82,654
Total	202,157	187,168	8,518,002

Fishery Resources

2010 Fisheries Contribution To The Economy



Philippine Marine Jurisdictional Boundaries

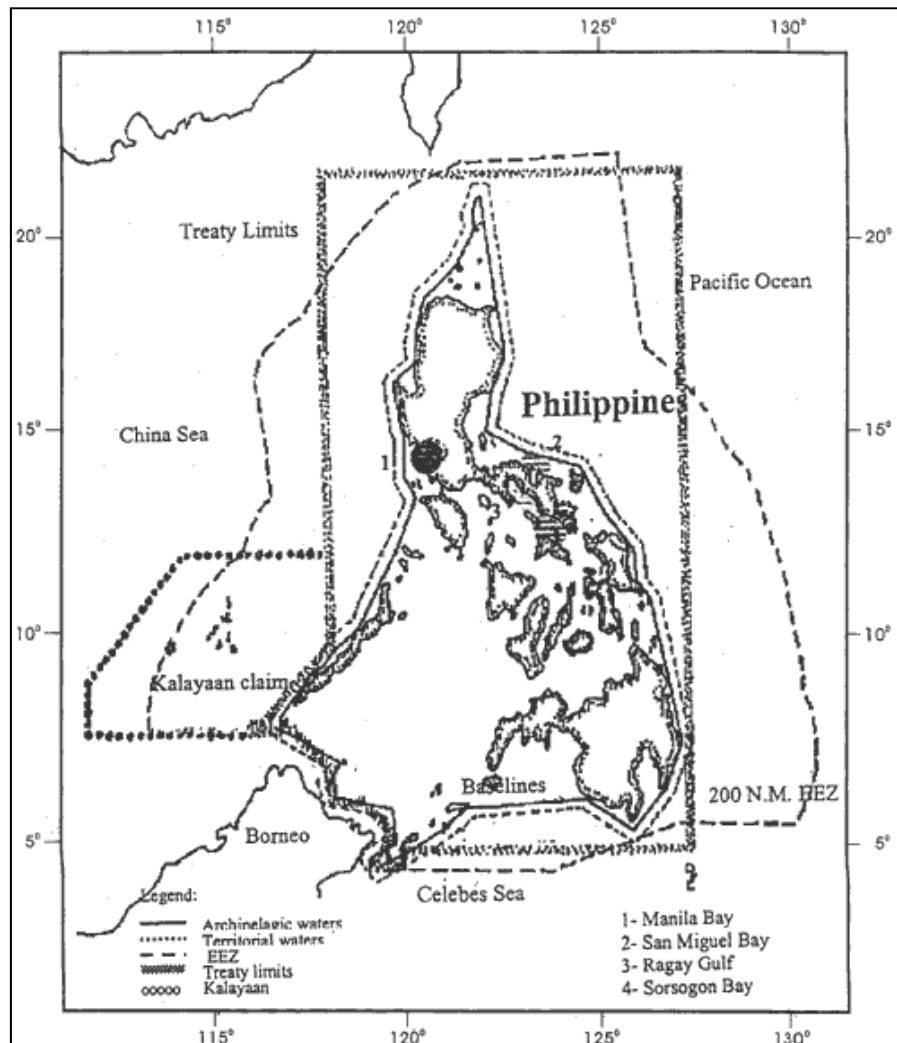


Figure 1. Map of the Philippines showing the limits of archipelagic, territorial waters treaty limits Exclusive Economic Zone (200 N. M. EEZ) and Kalayaan claim.

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
2. Prawn feeds	7,464	7,534	342,865
Taiwan	561	396	18,016
China, People'S Rep. Of	84	139	6,304
U S A	3	3	118
Thailand	6,430	6,832	310,905
Malaysia	16	2	107
Singapore	202	73	3,306
Hongkong	93	13	611
Others	75	77	3,498
3. Flour, meals & pellets of fish, crustaceans & molluscs fit or unfit for human consumption	15,670	10,609	482,802
Peru	1,861	2,716	123,615
Chile	26	83	3,767
U S A	1,512	941	42,822
Thailand	3,900	2,634	119,885
Denmark	944	699	31,810
Malaysia	9	6	260
China, People's Rep. of	40	32	1,436
New Zealand	98	55	2,524
Taiwan	806	138	6,267
Mexico	498	595	27,094
Germany	450	554	25,193
Korea, Rep. of South	352	201	9,150
Italy	2,317	828	37,695
Singapore	593	162	7,384
Others	2,264	965	43,900
Total major imports	148,104	110,410	5,024,754
Other Commodities	54,053	76,758	3,493,248
Grand Total	202,157	187,168	8,518,002

2. Major Fishery Imports in Terms of Value, 2010

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
1. Chilled/Frozen Fish	124,970	92,267	4,199,087
A. Tuna	51,850	59,084	2,688,908
Indonesia	209	207	9,422
Taiwan	14,587	17,841	811,963
Papua New Guinea	13,214	15,876	722,524
Japan (Excludes Okinawa)	7,792	7,988	363,555
Korea,	8,669	11,709	532,887
Singapore	2,250	2,013	91,606
China, People'S Rep. Of	2,999	1,394	63,463
Thailand	132	164	7,470
Marshall Islands	249	379	17,264
Others	1,749	1,511	68,754
B. Mackerel	69,213	31,331	1,425,883
China, People'S Rep. Of	51,434	22,633	1,030,042
Japan	9,389	4,984	226,836
Taiwan	5,356	1,849	84,162
Korea	997	447	20,351
U S A	22	11	490
Malaysia	50	41	1,867
Indonesia	136	51	2,300
Vietnam	436	397	18,076
New Zealand	971	767	34,899
Others	422	151	6,860
C. Sardines	3,907	1,852	84,296
Mexico	319	211	9,624
Morocco	2,290	1,001	45,559
U S A	658	323	14,686
Japan	174	100	4,535
Others	466	217	9,892

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, 2010

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

1. At Current Prices	2.0%
2. At Constant Prices	2.4%

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

Industry Group	At Current Prices (P M)	% to Agri-cultural Sector	At Constant Prices (P M)	% to Agri-cultural Sector
1. Agricultural crops (Palay, corn, coconut ,etc)	600,264	54.1	317,478	47.9
2. Livestock	150,329	13.6	90,478	13.7
3. Poultry	101,846	9.2	68,256	10.3
4. Agricultural activities	73,707	6.6	47,345	7.1
5 Forestry	2,435	0.2	2,676	0.4
6 Fishing	180,137	16.2	136,432	20.6
Total	1,108,718	100.0	662,665	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, 2010

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
● Fish Crustaceans, Mollusks, etc. and Preparation	167,330	135,781	6,179,416
a. Fish fresh (live or dead) chilled or frozen	145,503	118,535	5,394,546
b. Fish, dried, salted or in brine, smoked fish	55	177	8,049
c. Crustaceans, mollusks and aquatic invertebrates	19,638	14,310	651,265
d. Fish and other aquatic invertebrate, prepared/preserved	2,134	2,759	125,556
● Shells and By-Products	867	216	9,826
● Miscellaneous and Other Fishery Products	33,960	51,170	2,328,760
Grand Total	202,157	187,168	8,518,002

Note: Figures may not add up due to rounding off

Major Fisheries Export in Terms of Value, 2010

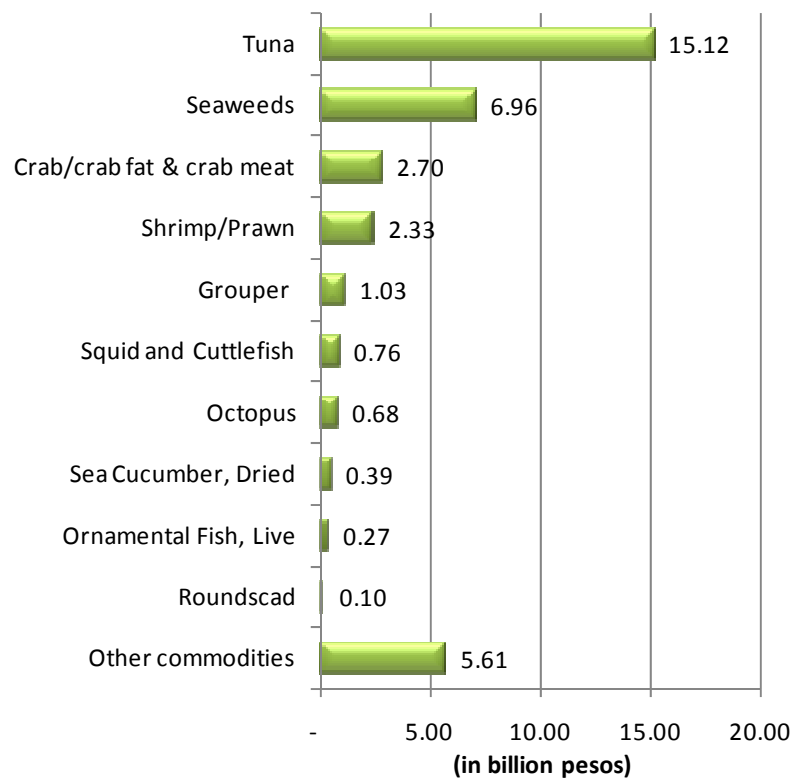


Figure 5

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/}

	2010			2009		
	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)
Fishery Exports	220,992	35,950	803	196,521	31,920	675
Fishery Imports	202,157	8,518	187	291,629	10,746	223
Trade Balance	18,835	27,432	616	(95,108)	21,174	452

E. Total Fish Production, by Sector, 2010

Sector	Quantity (MT)	%	Value Current Prices ('000 P)	%
1. Aquaculture	2,545,967.13	49.3	82,857,454.54	37.5
2. Municipal Fisheries	1,371,389.78	26.6	77,736,463.65	35.2
3. Commercial Fisheries	1,242,101.76	24.1	60,456,931	27.3
Total	5,159,458.67	100.0	221,050,849.51	100.0

4. Fishery Exports, by Major Country of Destination in Terms of Value, 2010

Country/Destination	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
United States Of America	50,531	201,234	9,007,234
Japan (Excludes Okinawa)	14,172	86,741	3,882,537
Germany	17,513	61,553	2,755,099
Hongkong	14,178	55,738	2,494,817
Uk Great Britain And N. Ireland	15,656	45,742	2,047,408
Spain	16,101	38,998	1,745,567
France	7,932	25,798	1,154,729
Taiwan (Republic Of China)	8,967	21,096	944,271
Canada	6,209	19,304	864,064
China, People'S Republic Of	9,023	18,575	831,434
Belgium	3,620	18,089	809,677
Israel	3,253	15,493	693,475
Italy	5,098	14,553	651,381
Singapore	3,517	13,522	605,253
Thailand	3,518	12,089	541,109
Korea, Republic Of South	3,274	10,564	472,844
Denmark	1,986	9,718	434,963
United Arab Emirates	2,766	9,665	432,614
Russian Federations	836	5,478	245,212
Vietnam	2,126	5,170	231,420
Total Major Countries	190,276	574,780	30,845,109
Other Countries	30,716	228,404	5,105,425
Grand Total	220,992	803,184	35,950,534

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
3. Shrimps/Prawns	7,662	52,007	2,327,853
Frozen	7,339	48,989	2,192,770
Japan	3,984	32,598	1,459,071
U S A	1,144	6,813	304,930
Korea	209	1,170	52,370
Hongkong	432	1,292	57,834
Guam	152	1,086	48,599
Trust Territory of the Pacific Is.	145	800	35,799
Canada	96	273	12,234
Taiwan	919	3,101	138,810
France	130	1,158	51,848
Others	128	699	31,275
Fresh or chilled	180	1,830	81,908
Korea	41	265	11,864
Japan	9	86	3,834
Taiwan	14	30	1,353
USA	14	73	3,265
United Arab Emirates	88	1,275	57,091
Others	14	101	4,501
Other Than Fresh/Chilled or Frozen	139	1,170	52,349
Japan	130	1,160	51,929
Taiwan	9	6	282
Prepared and Preserved	4	18	826
Thailand	3	17	758
Singapore	1	1	63
Total (3) major commodities	148,615	545,333	24,409,114
Total other commodities	72,377	257,851	11,541,420
Grand Total	220,992	803,184	35,950,534

Total Fish Production, By Sector, 2010

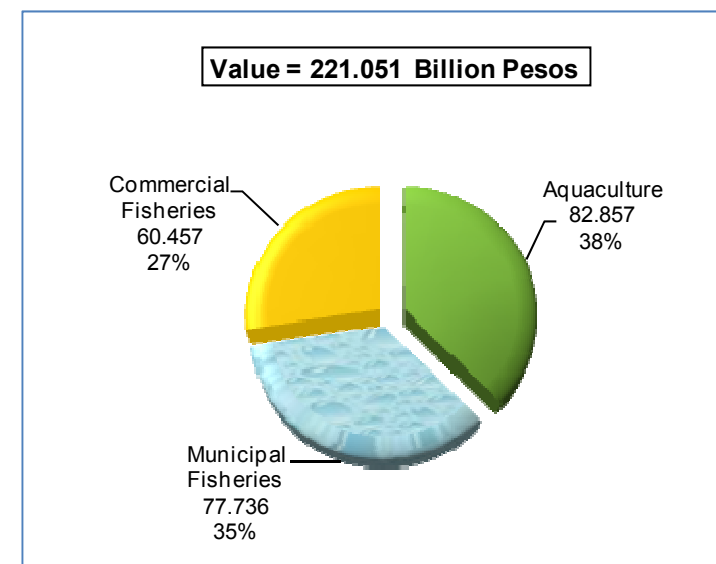
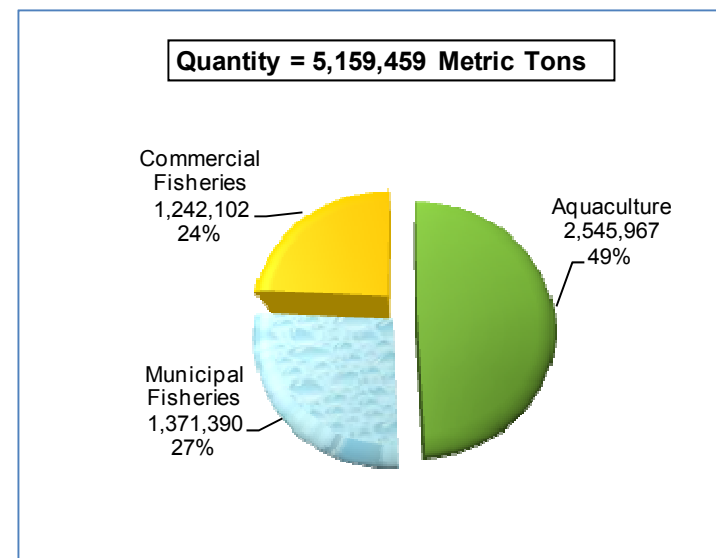


Figure 2

**F. Fish Production, by Sector and Region, 2010
in (MT)**

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	86,042.40	5,294.41	2,228.66	93,565.47	1.8
CAR	-	915.49	2,618.73	3,534.21	0.1
I	3,969.56	42,551.89	90,987.18	137,508.63	2.7
II	16,086.96	33,820.79	12,444.93	62,352.68	1.2
III	4,335.78	40,559.61	219,783.65	264,679.04	5.1
IV-A	85,089.22	127,395.80	200,910.42	413,395.44	8.0
IV-B	47,980.27	211,880.18	466,637.73	726,498.18	14.1
V	68,788.53	147,486.11	74,110.13	290,384.77	5.6
VI	105,000.13	170,911.90	165,645.84	441,557.87	8.6
VII	44,608.53	55,447.56	140,592.39	240,648.48	4.7
VIII	68,499.18	100,845.75	41,839.07	211,184.00	4.1
IX	339,750.97	136,066.81	281,398.42	757,216.20	14.7
X	43,564.72	43,338.77	73,697.59	160,601.08	3.1
XI	12,849.45	28,085.42	28,003.46	68,938.33	1.3
XII	211,231.61	46,249.24	24,452.87	281,933.72	5.5
CARAGA	7,221.67	69,069.02	24,899.01	101,189.70	2.0
ARMM	97,082.78	111,471.03	695,717.06	904,270.87	17.5
Total	1,242,101.76	1,371,389.78	2,545,967.13	5,159,458.66	100.00

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
2. Seaweeds	34,504	155,606	6,964,941
Seaweeds and Other Algae			
Eucheuma Chips	3,468	5,604	250,843
China, People'S Republic Of	1,138	1,750	78,320
France	1,340	2,086	93,360
Taiwan (Republic Of China)	11	22	996
Denmark	123	141	6,328
Spain	532	952	42,620
Others	324	653	29,219
Other Eucheuma	8,580	5,045	225,824
China, People'S Republic Of	2,916	1,640	73,425
Others	5,664	3,405	152,399
Seaweeds, Fresh, Chilled/Frozen or Dried	5,102	27,886	1,248,174
United States Of America	2,639	5,994	268,275
Japan	29	115	5,138
France	1,938	2,855	127,773
Hongkong	147	101	4,540
Others	349	18,821	842,448
Carrageenan	17,011	116,910	5,232,910
United States Of America	3,257	20,870	934,145
Uk Great Britain And N. Ireland	860	6,049	270,734
Belgium	1,418	10,578	473,487
Germany	1,694	13,650	610,971
France	1,286	8,348	373,649
Canada	128	903	40,414
Mexico	804	5,303	237,360
Australia	258	1,838	82,281
Denmark	1,195	8,699	389,371
China, People'S Republic Of	971	2,907	130,133
Others	5,140	37,765	1,690,365
Kelp Powder	343	161	7,190
Japan	317	149	6,686
United Kingdom	26	11	504

3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2010

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
1. Tuna	106,449	337,719	15,116,320
Fresh/chilled/frozen	29,644	104,863	4,693,683
Japan	3,112	24,423	1,093,168
U S A	3,007	21,923	981,290
Indonesia	116	189	8,458
Thailand	2,287	4,721	211,298
Hongkong	93	396	17,741
Taiwan	3	16	722
Switzerland	190	1,470	65,779
Germany	101	898	40,183
United Arab Emirates	44	209	9,360
Hawaii	130	971	43,476
Others	20,561	49,647	2,222,208
Prepared/Preserved	76,801	232,835	10,421,692
U S A	20,378	63,467	2,840,800
Singapore	1,008	3,343	149,645
Japan	404	1,684	75,356
South Africa	207	651	29,140
Canada	3,483	11,202	501,406
Germany	14,973	44,048	1,971,607
Taiwan	408	1,134	50,753
United Kingdom	13,996	38,519	1,724,124
Netherlands	2,387	6,741	301,708
Kuwait	1,482	5,228	234,022
Others	18,075	56,817	2,543,131
Dried/Smoked	4	21	945
Australia	1	4	159
New Zealand	2	15	683
Korea, Rep. of South	1	2	102

F.a. Value of Fish Production, by Sector and Region, 2010 (in '000 P)

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	5,111,168.81	430,878.53	110,690.26	5,652,737.60	2.6
CAR		82,331.72	229,304.53	311,636.25	0.1
I	278,301.41	3,298,178.34	7,425,878.43	11,002,358.18	5.0
II	1,095,197.40	2,425,773.07	802,251.32	4,323,221.79	2.0
III	245,673.70	2,919,604.99	23,915,524.22	27,080,802.91	12.3
IV-A	5,824,918.94	4,396,895.67	10,099,236.44	20,321,051.05	9.2
IV-B	1,835,808.40	8,978,005.57	5,327,531.92	16,141,345.89	7.3
V	2,996,368.98	8,440,419.54	2,185,747.76	13,622,536.28	6.2
VI	6,322,416.03	12,001,590.04	7,389,731.89	25,713,737.96	11.6
VII	2,747,444.68	3,811,075.82	1,681,341.06	8,239,861.56	3.7
VIII	4,098,388.30	6,755,967.56	2,155,083.04	13,009,438.90	5.9
IX	10,418,403.71	7,009,125.70	5,340,764.89	22,768,294.30	10.3
X	2,250,855.71	2,886,307.63	6,151,168.38	11,288,331.72	5.1
XI	1,049,195.46	1,891,995.54	2,168,731.21	5,109,922.21	2.3
XII	12,407,936.73	2,419,438.33	1,742,348.05	16,569,723.11	7.5
CARAGA	426,570.33	4,493,203.02	647,480.34	5,567,253.69	2.5
ARMM	3,348,282.73	5,495,672.58	5,484,640.80	14,328,596.11	6.5
Total	60,456,931.32	77,736,463.65	82,857,454.54	221,050,849.51	100.00

G. Fish Production, by Sector 2001-2010

1. Volume of Fish Production (in MT)

Year	Aquaculture	Municipal	Commercial	Total
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
2001	1,220,456.0	969,535.0	976,539.0	3,166,530.0

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

Year	Aquaculture	Municipal	Commercial	Total
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, 2010

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
1. Tuna	106,449	337,719	15,116,320
Fresh/chilled/frozen (excludes fillet)	29,644	104,863	4,693,683
Smoked	4	21	945
Prepared/preserved	76,801	232,835	10,421,692
2. Seaweeds	34,504	155,606	6,964,941
Seaweeds and other Algae, nes.	14,025	33,092	1,481,188
Seaweeds for human consumption	3,468	5,604	250,843
Carrageenan	17,011	116,910	5,232,910
3. Shrimps/Prawns	7,662	52,007	2,327,853
Fresh/ chilled or frozen, nes	7,519	50,819	2,274,678
Dried	139	1,170	52,349
Prepared and preserved	4	18	826
4. Crabs/crabs fat & crab meat	5,795	60,422	2,704,504
Live, Frozen/Fresh or Chilled	3,368	22,529	1,008,392
Crab fat (Prepared/presrd)	303	4,909	219,735
Crab meat (Prepared/presrd)	2,124	32,984	1,476,377
5. Octopus	5,584	15,150	678,092
Live, Fresh or chilled	2	10	449
Dried, salted or in brine		-	
Frozen	5,582	15,139	677,643
6. Grouper	6,472	22,998	1,029,381
Live (other than fry)		-	
For breeding, live	1	5	239
Breeder	6,469	22,980	1,028,601
Other than for breeding	2	12	541
7. Squid and Cuttlefish	4,649	16,875	755,313
Live	2	7	301
Fresh/chilled/frozen/dried	4,439	16,286	728,959
Prepared/preserved	208	582	26,053
8. Ornamental Fish, Live	5,166	6,037	270,238
9. Roundscad	909	2,221	99,399
Frozen	790	1,779	79,646
Smoked	95	360	16,135
Dried	24	81	3,618
10. Sea Cucumber, Dried	805	8,766	392,351
Total major commodities	177,995	677,801	30,338,392
Total of other commodities	42,997	125,383	5,612,142
Grand Total	220,992	803,184	35,950,534

a/ - volume less than 1 metric ton

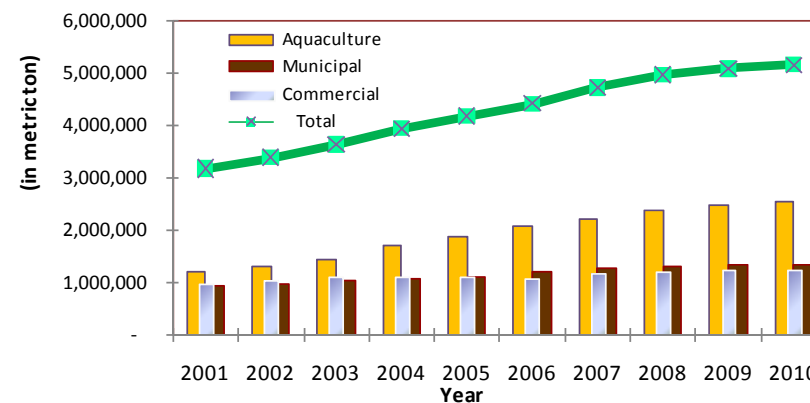
External Trade

A. EXPORTS ^{5/}

1. Export of Fish and Fishery Products by Kind, Quantity and Value, 2010

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
A. Fish, Crustaceans, Molluscs, etc. and Preparation	179,017	640,414	28,664,951
A.1 Fish, fresh (live/dead), Chilled/Frozen	54,089	186,584	8,351,519
A.2 Fish, dried, salted/in brine; smoked fish	3,326	11,818	528,976
A.3 Crustaceans, molluscs and aquatic invertebrates, chilled/frozen	28,438	142,312	6,369,868
A.4 Fish and other aquatic invertebrate, prepared/ preserved	93,164	299,700	13,414,588
B. Shells and by-products	3,449	2,239	100,228
C. Miscellaneous fishery products and other by-products	38,526	160,531	7,185,355
Grand Total	220,992	803,184	35,950,534

Volume of Fish Production, By Sector 2001-2010



Value of Fish Production, By Sector 2001-2010

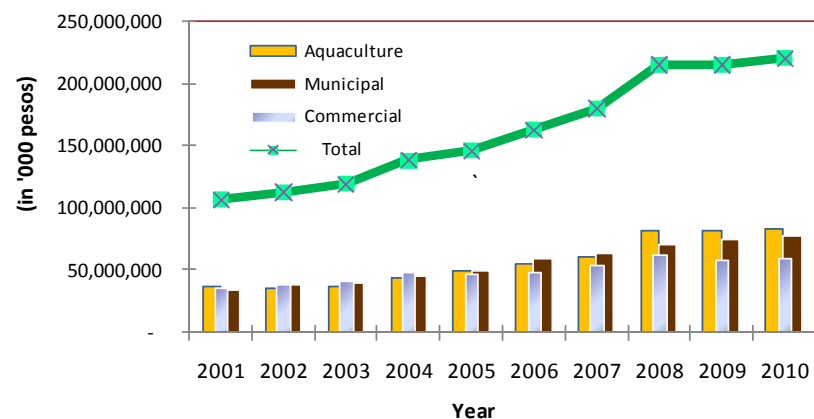


Figure 3

H. Five Year Fish Production, Trend 2006-2010

Year	Quantity (MT)	% Increase/ (Decrease)	Value ('000 P)	% Increase/ (Decrease)
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	215,813,530	19.5
2007	4,711,252	6.9	180,545,128	10.5
2006	4,408,472	5.9	163,374,384	11.6

External Trade

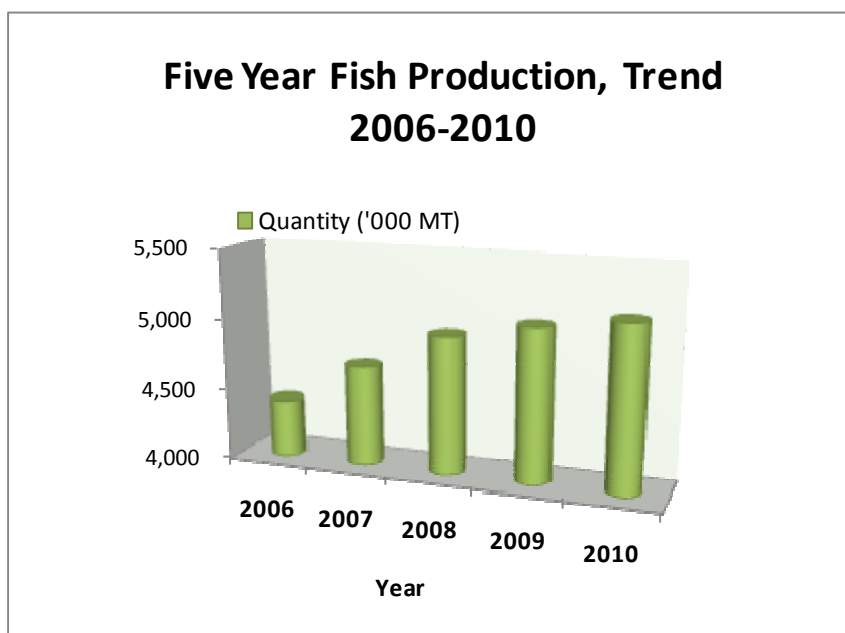


Figure 4



**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, 2010

This includes production from the following:

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



A. SUMMARY OF AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT AND REGION, 2010
(In Metric Tons)

Region	Total Aquaculture		Brackishwater			Freshwater			Marine Waters			Oyster Mussel and Seaweed		Rice Fish	
	Fish-pond	Fish pen	Fish cage	Fish pond	Total	Fish cage	Fish pen	Total	Fish cage	Fish pen	Total	Mussel and Seaweed	S	F R	Fish
NCR	2,229	593		593	593	445	1,054	1,499			0	136			
CAR	2,619	0		0	2,619	972		2,619			0	0			
I	90,987	18,848	318	655	19,822	37	0.2	8,572	40,825	14,025	54,849	7,700	14.8	28.9	
II	12,445	3,071	87		3,158	390		6,496	0.02		0	2,721	70.6		
III	219,784	94,321	0.87		94,322	116,659		116,659	2,543		2,543	6,150	63.3	45.7	
IV-A	200,910	12,591			12,591	1,756	44,740	137,410	0.55		1	50,909			
IV-B	466,638	4,377			4,377	560		560	541		541	461,160			
V	74,110	7,733			7,733	1,624	7,721	9,345	21	150	171	56,861			
VI	165,646	78,131	8.8	27	78,167	1,060	0.75	1,061	175	900	1,075	85,338	4.5	0.8	
VII	140,592	8,950	6.7		8,957	163	0.1	173	581	146	726	130,727	9.1		
VIII	41,839	7,148	51	14	7,213	385	8.19	446	5,715	63	5,778	28,402			
IX	281,398	22,298	0.4		22,299	181	1.36	182	72		72	258,845			
X	73,698	26,182			26,182	1,241		1,243	1,992		1,992	44,280	1.4		
XI	28,003	4,578	56.8	1	4,636	1,747	47.5	1,797	6,879	11,429	18,308	3,262			
XII	24,453	7,809			7,809	845	1,732	11,585	2,147		2,147	330	4.6		
CARAGA	24,899	2,385	383.6	6	2,775	188		278	352	39	392	21,455			
ARMM	695,717	3,646			3,646	217	5,079	5,547	124	1.7	126	686,397			
TOTAL	2,545,967	302,659	913.6	703	304,276	142,913	62,516	308,051	61,969	26,754	88,723	1,844,674	168.5	75.3	

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

B. COMMERCIAL FISHERIES PRODUCTION, BY MAJOR FISH SPECIES, 2010

Major Species	Total (MT)	% to Total
1. Roundscad (Galunggong)	194,671.16	15.7
2. Indian Sardines (Tamban)	265,810.92	21.4
3. Frigate Tuna (Tulingan)	80,621.65	6.5
4. Skipjack (Gulyasan)	177,698.05	14.3
5. Yellowfin Tuna (Tambakol/Bariles)	85,351.55	6.9
6. Big-eyed Scad (Matang-baka)	44,643.44	3.6
7. Fimbriated Sardines (Tunsoy)	55,176.04	4.4
8. Slipmouth (Sapsap)	20,308.54	1.6
9. Eastern Little Tuna (Kachorita)	23,102.83	1.9
10. Indian Mackerel (Alumahan)	43,152.33	3.5
11. Indo-pacific Mackerel (Hasa-hasa)	23,392.07	1.9
12. Other Species	228,173.18	18.4
Total	1,242,101.76	100.0

A. COMMERCIAL FISH PRODUCTION, BY REGION AND BY TYPE OF LANDING CENTERS, 2010

Region	Total	Private	PFDA	LGU	Traditional
NCR	86,042.40		83,046.73		2,995.67
CAR					
I	3,969.56		782.95		3,186.61
II	16,086.96				16,086.96
III	4,335.78	3,491.40		114.24	730.14
IV-A	85,089.22		17,933.33	8,031.54	59,124.35
IV-B	47,980.27				47,980.27
V	68,788.53	11,371.50		19,372.13	38,044.90
VI	105,000.13	5,122.32	3,239.72	23,461.01	73,177.08
VII	44,608.53			2,582.23	42,026.30
VIII	68,499.18	737.45		10.75	67,750.98
IX	339,750.97	236,974.33	9,233.35	14,324.29	79,219.00
X	43,564.72			9,115.43	34,449.29
XI	12,849.45	836.71	4,045.58	5,359.15	2,608.01
XII	211,231.61	61,518.74	144,812.05		4,900.82
CARAGA	7,221.67	-	-		7,221.67
ARMM	97,082.78	-	-		97,082.78
TOTAL	1,242,101.76	320,052.45	263,093.71	82,370.77	576,584.83

B. AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT, REGION AND SPECIES, 2010

1. Production from Brackishwater (in MT)

a) Fishpond

Region	Total	Milkfish	Tiger Prawn	W. Shrimp & Endeavor Prawn	Tilapia	Mudcrab	Groupers	Siganid	Others
NCR	593.48	464.27	2.80		124.35	2.06			
CAR									
I	18,848.47	16,487.90	834.88	58.38	1,237.60	7.98		36.81	184.92
II	3,071.07	487.14	54.81	148.85	2,300.38	55.66	0.73	16.29	7.21
III	94,320.68	56,704.10	24,763.55	477.61	6,352.48	4,133.72	16.71		1,872.51
IV-A	12,590.71	11,492.95	237.59	260.97		34.40	13.01		551.79
IV-B	4,376.56	3,708.90	603.86	0.00		1.80			62.00
V	7,732.61	4,194.60	1,156.23	295.70	184.36	1,899.58			2.14
VI	78,130.68	73,745.76	2,006.55	145.10	729.16	1,200.46	5.02		298.63
VII	8,950.04	6,333.76	1,351.14	15.19	179.92	8.09			1,061.94
VIII	7,147.56	6,268.94	392.27	0.00	67.25	412.30		6.80	
IX	22,298.33	11,966.49	7,280.89	1,019.68	1,775.94	255.33			
X	26,181.69	10,885.99	8,530.33	47.87	467.99	6,150.02			99.49
XI	4,577.99	4,060.94	35.00	56.63	190.42	3.61			231.39
XII	7,808.94	7,059.95	12.75	0.00	187.80	0.31			548.13
CARAGA	2,384.59	1,183.69	647.40	120.85	29.77	189.07			213.81
ARMM	3,645.97	3,021.14	251.79	119.11	171.88	82.06			
TOTAL	302,659.35	218,066.51	48,161.83	2,765.94	13,999.29	14,436.45	35.47	59.90	5,133.97

b) Fish cage

Region	Total	Milkfish	Tilapia	Grouper	Siganid	Others
NCR						
CAR						
I	318.22	234.26	19.57	24.78	38.81	0.8
II	86.70	23.30	57.11	1.45	3.29	1.55
III	0.87					0.87
IV-A						
IV-B						
V						
VI	8.82			8.14		0.68
VII	6.65	6.47		0.18		
VIII	51.49	36.10				15.39
IX	0.44			0.18		0.26
X						
XI	56.80	56.80				
XII						
CARAGA	383.63	383.63				
ARMM						
TOTAL	913.60	740.56	76.67	34.73	42.10	19.55

a/ - Volume less than .01 metric ton

Commercial Fisheries

Production, 2010

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	655.22	592.50	0.98	0.14	58.68	2.92
II						
III						
IV-A						
IV-B						
V						
VI	27.21	26.91				0.30
VII						
VIII	13.53	10.70				2.83
IX						
X						
XI	0.82	0.72	0.06	0.01		0.03
XII						
CARAGA	6.31	6.08	0.08		0.15	
ARMM						
TOTAL	703.08	636.90	1.12	0.15	58.83	6.08

2. Production from Freshwater (in MT)

a) Fishpond

Region	Total	Tilapia	Milkfish	Carp	Catfish	Mudfish	Gourami	Fresh-water Shrimp (Ulang)	Others
NCR									
CAR	1,646.78	1,644.60		0.26	0.03	0.16			1.73
I	8,534.80	8,434.74	2.12	28.81	15.26	48.61	4.34		0.92
II	6,105.49	5,994.72		10.86	46.68	26.60	1.15	0.18	25.30
III	116,658.81	114,723.25		181.04	1,057.82	509.67	166.29		20.74
IV-A	1,755.87	1,587.38		37.71	125.61	3.98		0.59	0.60
IV-B	559.98	559.00						0.98	
V	1,624.49	1,510.52			113.97				
VI	1,059.74	369.53			684.74	0.11			5.36
VII	162.62	153.83		0.03	8.60	0.16			
VIII	385.27	373.32			2.90			1.05	8.00
IX	180.65	112.72			2.75	59.18			6.00
X	1,240.83	1,001.77		172.95	1.29	64.72	0.10		
XI	1,746.86	1,138.29		5.35	562.97	38.11	1.65		0.49
XII	845.11	544.94		0.17	204.40	62.69	1.48		31.43
CARAGA	188.01	171.96	0.07	9.41	1.17	3.10			2.30
ARMM	217.39	85.54			131.85				
TOTAL	142,912.71	138,406.12	2.19	446.59	2,960.04	817.09	175.01	2.80	102.87

B. MARINE MUNICIPAL FISH CATCH, BY MAJOR FISH SPECIES, 2010

Major Species	Total	% to Total
Frigate Tuna (Tulingan)	68,945.09	5.8
Big-eyed Scad (Matang-baka)	76,879.43	6.5
Roundscad (Galunggong)	73,556.03	6.2
Indian Sardines (Tamban)	68,219.34	5.8
Indian Mackerel (Alumahan)	48,705.24	4.1
Anchovies (Dilis)	52,604.78	4.4
Yellowfin tuna (Tambakol)	61,924.35	5.2
Squid (Pusit)	41,554.19	3.5
Fimbriated Sardines (Tunsoy)	52,839.42	4.5
Slipmouth (Sapsap)	43,829.03	3.7
Others	595,080.25	50.3
Total	1,184,137.15	100.0

**A. MUNICIPAL FISHERIES PRODUCTION, BY REGION, 2010
(in MT)**

Region	Marine	Inland	Total
NCR	5,294.41		5,294.41
CAR		915.49	915.49
I	37,084.77	5,467.12	42,551.89
II	21,994.43	11,826.36	33,820.79
III	28,319.65	12,239.96	40,559.61
IV-A	41,545.40	85,850.40	127,395.80
IV-B	210,977.32	902.86	211,880.18
V	141,777.71	5,708.40	147,486.11
VI	163,801.91	7,109.99	170,911.90
VII	55,259.49	188.07	55,447.56
VIII	99,329.00	1,516.75	100,845.75
IX	134,992.99	1,073.82	136,066.81
X	39,139.74	4,199.03	43,338.77
XI	27,919.69	165.73	28,085.42
XII	21,867.23	24,382.01	46,249.24
CARAGA	64,565.57	4,503.45	69,069.02
ARMM	90,267.84	21,203.19	111,471.03
TOTAL	1,184,137.15	187,252.63	1,371,389.78

b) Fish cage

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	445.19	365.69		79.50		
CAR	971.94	971.94				
I	37.17	37.17				
II	390.39	390.39				
III	0.60	0.60				
IV-A	90,914.68	73,020.44	16,277.82	1,613.68	2.74	
IV-B						
V	7,720.67	7,706.34		14.33		
VI	0.00					
VII	10.49	10.49				
VIII	53.03	40.13	12.90			
IX						
X	1.68	1.68				
XI	2.87	2.23			0.03	0.61
XII	1,731.80	1,729.12				2.68
CARAGA	90.27	90.27				
ARMM	251.06	190.41	60.65			
TOTAL	102,621.85	84,556.91	16,351.37	1,707.52	2.77	3.29

c) Fish pen

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	1,053.95		1,053.95			
CAR	-					
I	0.18	0.18				
II	-					
III	-					
IV-A	44,739.85	11,652.8	18,538.94	14,548.13		
IV-B	-					
V	-					
VI	0.75	0.75				
VII	0.10	0.10				
VIII	8.19	8.19				
IX	1.36	1.36				
X	-					
XI	47.53	47.50			0.03	
XII	11,585.28	6,041.13	5,544.15			
CARAGA	-					
ARMM	5,078.98	3,781.38	1,297.60			
TOTAL	62,516.17	21,533.37	26,434.65	14,548.13	0.03	-

d) Small-farm Reservoir

Region	Total	Tilapia	Milkfish	Carp	Catfish	Gourami	Mudfish	Shrimp (Ulang)	White Shrimps	Others
I	14.81	8.75		1.11	0.23	0.02	4.70			
II	70.64	56.15		3.65	3.04	2.08	4.46	1.26		
III	63.34	61.79			0.90	0.65				
VI	4.49	3.18			1.31					
VII	9.13	8.81		0.08	0.09		0.15			
X	1.43	0.85	0.41				0.17			
XII	4.63	3.67		0.08	0.30	0.21	0.37			
TOTAL	168.45	143.19	0.41	4.92	5.86	2.96	9.85	1.26	0.00	0.00

e) Rice Fish

Region	Total	Tilapia	Carp	Catfish	Gourami	Mudfish	Others
I	28.88	19.22	3.48	1.73	3.54	0.40	0.51
III	45.66	37.87	3.80	1.37	1.83	0.80	
VI	0.76	0.76					
VIII							
XI							
TOTAL	75.29	57.85	7.28	3.10	5.37	1.20	0.51

Municipal Fisheries Production, 2010

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	Sigamid	Snapper	Cavalla	Mud crab	Spiny lobster	Tiger Prawn	Tilapia	Others
CAR											
I	40,824.52	40,812.60		6.00	0.43						5.49
II	0.02	0.02									9.71
III	2,543.22	2,529.41		4.10							
IV-A	0.55		0.55								
IV-B	541.26	2.40	538.58	0.05	0.15	0.08					
V	20.60	0.95	10.05	0.04	9.56						
VI	175.45	115.33	51.20	0.97	7.17	0.66					1.09
VII	580.86	552.51	2.57	0.97	0.89					0.20	23.72
VIII	5,715.05	5,313.63	394.42							7.00	
IX	72.41		61.15	3.89		7.30		0.07			
X	1,991.82	1,990.17	0.19	0.31			1.15				0.29
XI	6,879.00	6,861.12		16.77		0.81					122.14
XII	2,147.22	2,021.10	1.21	1.01		1.76					
CARAGA	352.38	308.46	16.21	16.04				11.67			
ARMM	124.46	11.50	25.00			17.26		70.70			
TOTAL	61,968.82	60,519.21	1,101.13	49.19	8.64	37.44	1.15	82.44	0.00	7.20	162.44

b) Fish pen

Region	Total	Milkfish	Grouper	Siganid	Snapper	Cavalla	Lobster	Tiger Prawn	Tilapia	Nosed Lobster	Others
NCR											
CAR											
I	14,024.71	14,024.71									
II	0.00										
III	0.00										
IV-A	0.00										
IV-B	0.00										
V	150.28	149.78	0.50								
VI	899.85	899.85									
VII	145.50	144.94	0.45				0.11				
VIII	63.31	31.85		31.46							
IX	0.00										
X	0.00										
XI	11,429.16	11,429.06		0.07		0.03					
XII	0.00										
CARAGA	39.34		22.52	9.12			6.19			1.51	
ARMM	1.74					1.33	0.41				
TOTAL	26,753.90	26,680.20	23.47	40.65	0.00	1.35	6.60	0.11	0.00	1.51	0.00

**D. MAJOR SPECIES PRODUCED IN
AQUACULTURE FISHERIES, 2010**

Species	Quantity (MT)	Percent (%)
Seaweeds	1,801,271.58	70.75
Milkfish	349,432.01	13.72
Tilapia	258,839.42	10.17
Shrimps/Prawns	50,927.77	2.00
Others	85,496.34	3.36
Total	2,545,967.13	100.00

Seaweeds

Region	Total
NCR	
CAR	
I	178.2
II	2,007.1
III	373.2
IV-A	44,437.2
IV-B	461,159.92
V	56,861.5
VI	67,893.8
VII	130,135.9
VIII	24,645.2
IX	258,131.3
X	44,279.1
XI	2,987.4
XII	329.9
CARAGA	21,454.5
ARMM	686,397.5
TOTAL	1,801,271.58

4. Production from Mariculture (in MT)

Region	Total	Oyster	Mussels	Seaweeds
NCR	136.03		136.03	
CAR	-			
I	7,700.23	6,868.2	653.8	178.2
II	2,720.63	713.5		2,007.1
III	6,150.43	4,059.4	1,717.86	373.2
IV-A	50,908.75	977.5	5,494.0	44,437.2
IV-B	461,159.92			461,159.92
V	56,861.47			56,861.5
VI	85,338.10	8,281.7	9,162.6	67,893.8
VII	130,727.02	591.1		130,135.9
VIII	28,401.64	44.1	3,712.4	24,645.2
IX	258,845.23	713.9		258,131.3
X	44,280.14	0.97	0.07	44,279.1
XI	3,262.44	275.07		2,987.4
XII	329.92			329.9
CARAGA	21,454.52			21,454.5
ARMM	686,397.45			686,397.5
TOTAL	1,844,673.90	22,525.52	20,876.79	1,801,271.58

C. AQUACULTURE PRODUCTION OF MAJOR COMMODITIES BY CULTURE ENVIRONMENT AND BY REGION, 2010
(In Metric Tons)

Milkfish

Region	Total	Brackishwater		Freshwater		Marine		Small Farm Reservoir	
		Fishpond	Fish cage	Fish pond	Fish cage	Fish cage	Fish pen		
NCR	1,518.22	464.27			1,053.95				
CAR									
I	72,154.09	16,487.90	234.26	2.12		40,812.60	14,024.71		
II	510.46	487.14	23.30			0.02			
III	59,233.52	56,704.10				2,529.41			
IV-A	46,309.70	11,492.95			16,277.81				
IV-B	3,711.30	3,708.90				2.40			
V	4,345.33	4,194.60				0.95	149.78		
VI	74,787.85	73,745.76	26.91			115.33	899.85		
VII	7,037.67	6,333.76	6.47			552.51	144.94		
VIII	11,674.13	6,268.94	36.10	12.90		5,313.63	31.85		
IX	11,966.49	11,966.49							
X	12,876.58	10,885.99						0.41	
XI	22,408.64	4,060.94	56.80	0.72		1,990.17	11,429.06		
XII	14,625.20	7,059.95				2,021.10			
CARAGA	1,881.93	1,183.69	383.63	6.08	0.07	308.46			
ARMM	4,390.90	3,021.14				11.50			
TOTAL	349,432.01	218,066.51	740.56	636.91	2.19	16,351.37	26,434.65	60,519.21	26,680.20

Tilapia

Region	Total	Brackishwater		Freshwater		Small-farm Reservoir		Marine	
		Fishpond	Fish cage	Fish pond	Fish cage	Fish pond	Fish pen	Fish cage	Fish pen
NCR	490.04	124.35			365.69				
CAR	2,616.55								
I	9,815.89	1,237.60	19.57	58.68	1,644.60	971.94	8.75	19.22	
II	8,798.74	2,300.38	57.11		5,994.72	390.39	56.15		
III	121,176.01	6,352.48			114,723.25	0.60	61.79	37.87	
IV-A	86,260.61				1,587.38	73,020.44			
IV-B	559.00				559.00				
V	9,401.23	184.36			1,510.52	7,706.34			
VI	1,103.38	729.16			369.53		3.18	0.76	0.20
VII	353.34	179.92			153.83	10.49	8.81		7.00
VIII	495.89	67.25			373.32	40.13			
IX	1,890.02	1,775.94			112.72				
X	1,472.29	467.99			1,001.77	1.68	0.85		
XI	1,378.44	190.42			1,138.29	2.23			
XII	8,506.65	187.80			544.94	1,729.12	3.67		
CARAGA	292.14	29.77		0.15	171.96	90.27			
ARMM	4,229.21	171.88			85.54	190.41			
TOTAL	258,839.42	13,999.29	76.67	58.82	138,406.12	84,556.90	143.19	57.85	7.20