

# PHILIPPINE FISHERIES PROFILE, 2009



Department of Agriculture

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**BUREAU OF FISHERIES AND AQUATIC RESOURCES**



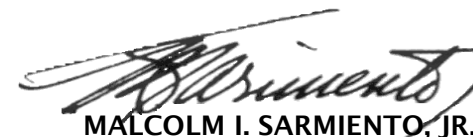
## FOREWORD

**F**or over a decade, the fisheries production has been continuously growing positively that stems from the concerted efforts of the government together with the all the stakeholders involved in the fishery industry and with close coordination with local government units (LGUs) and the private sector.

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 pleased to produce the yearly Fisheries Profile.

This handy publication is designed 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. It offers a wide range of information that highlights the performance of the fisheries industry - fisheries contribution to the economy; aquaculture, municipal and commercial productions; employment generation; trade (import and export); world fisheries production; and other fisheries information.

Kudos to those who made this publication possible, to the collective effort of all agencies involved. This Profile is created with the hope that it will serve as an effective tool in providing reliable information to the clientele and community the Bureau serves.



**MALCOLM I. SARMIENTO, JR.**

Director



Department of Agriculture

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## ENDNOTES

### Sources of Data:

- <sup>1/</sup> NAMRIA (Wikipedia and CIA World Factbook 2009)
- <sup>2/</sup> 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.
- <sup>3/</sup> National Statistical Coordination Board (NSCB)  
([www.nscb.gov.ph](http://www.nscb.gov.ph))
- <sup>4/</sup> Preliminary data, 2002 Census of Fisheries
- <sup>5/</sup> National Statistics Office (NSO) ([www.census.gov.ph](http://www.census.gov.ph))
- <sup>6/</sup> Bureau of Agricultural Statistics (BAS) ([www.bas.gov.ph](http://www.bas.gov.ph))
- <sup>7/</sup> Directory of Philippine Wetlands, Volume II, AWBPFI
- <sup>8/</sup> BFAR Regional Yearbook, 2000
- <sup>9/</sup> BFAR Regulatory and Quarantine Division
- <sup>10/</sup> Food and Nutrition Research Institute Website, (<http://www.fnri.dost.gov.ph>.)
- <sup>11/</sup> FAO Website (<http://www.fao.org>.)
- <sup>12/</sup> Agricultural Marketing Statistical Analysis Division (AMSAD, BAS)

**E. PRICES OF SELECTED FISH SPECIES,  
PHILIPPINES, 2008- 2009 <sup>12/</sup>**  
(pesos per kilogram)

Species	2008		2009	
	Wholesale	Retail	Wholesale	Retail
1. Indian mackerel (Alumahan)	81.04	102.2	88.50	107.59
2. Milkfish (Bangus)	85.22	104.93	93.58	114.37
3. Threadfin bream (Bisugo)	92.08	130.43	96.58	138.84
4. Blue crab (Alimasag)	114.93	156.72	128.78	168.57
5. Caesio (Dalagang Bukid, lapad)	95.58	129.85	85.48	138.46
5. Anchovies (Dilis)	48.4	71.39	47.91	73.85
6. Roundscad (Galunggong)	61.08	84.04	64.82	87.99
7. Slipmouth (Sapsap)	61.45	108.91	70.72	107.27
9. Endeavor prawn (Shrimp, Suaje)	233.28	264.32	245.67	271.72
10. Tilapia	62.12	80.38	68.99	86.49
11. Frigate tuna (Tulingan)	75.16	87.56	78.93	92.65
12. Shrimp, Tiger prawn (sugpo)	373.66	415.32	361.83	421.39

# CONTENTS

## FOREWORD

## HIGHLIGHTS

8

### ► FISHERY RESOURCES

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

### ► FISHERIES CONTRIBUTION TO THE ECONOMY, 2009

- 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, 2009 18
- F. Fish Production, by Sector and Region, 2009 20
- F-a. Value of Fish Production, by Sector and Region, 2009 21
- G. Fish Production, by Sector, 2000 -2009 22
- H. Five Year Fish Production, Trend 2005 -2009 24

### ► AQUACULTURE PRODUCTION, 2009

- A. Summary of Aquaculture Production by Culture Environment and Region, 2009 26
- B. Aquaculture Production by Culture Environment, Region and Species, 2009 27
- C. Aquaculture Production of Major Commodities by Culture Environment and by Region, 2009 36
- D. Major Species Produced in Aquaculture Fisheries, 2009 39
- E. Area and Location of Major Lakes in the Philippines 40

▶	<b>MUNICIPAL FISHERIES PRODUCTION, 2009</b>	
	A. Municipal Fisheries Production, by Region, 2009	42
	B. Marine Municipal Fish Catch, by Major Fish Species, 2009	43
	C. Number of Municipal Fishing Bancas, by Region, 2000	44
▶	<b>COMMERCIAL FISHERIES PRODUCTION, 2009</b>	
	A. Commercial Fisheries Production, by Region and by Type of Landing Centers, 2009	46
	B. Commercial Fisheries Production, by Major Fish Species, 2009	47
	C. Number of Commercial Fishing Operators, and Vessels, by Region, as of 2007	48
▶	<b>EXTERNAL TRADE</b>	
	A. Exports	
	1. Exports of Fish and Fishery Products by Kind, Quantity and Value, 2009	50
	2. Major Fishery Exports in Terms of Value, 2009	51
	3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2009	52
	4. Fishery Exports, by Major Country of Destination in Terms of Value, 2009	55
	B. Imports	
	1. Imports of Fish and Fishery Products by Kind, Quantity and Value, 2009	57
	2. Major Fishery Imports in Terms of Value, 2009	58
	3. Fishery Imports, by Major Country of Origin in Terms of Value, 2009	60

#### D. WORLD AQUACULTURE PRODUCTION OF AQUATIC PLANTS BY PRINCIPAL PRODUCERS IN 2008 <sup>11/</sup>

Major Countries	Volume (MT)	% Share	Value (US\$' 000)	% Share
1. China	9,933,785	62.95	5,400,821	72.73
2. Indonesia	2,145,061	13.59	300,309	4.04
3. Philippines	1,666,556	10.56	291,030	3.92
4. Korea Rep.	921,024	5.84	311,305	4.19
5. Japan	455,400	2.89	976,165	13.15
6. Korea D P Rp.	444,300	2.82	66,645	0.90
7. Malaysia	111,298	0.71	6,686	0.09
8. Vietnam	35,700	0.23	17,850	0.24
9. Chile	27,703	0.18	46,732	0.63
10. Other Countries	40,332	0.26	8,386	0.11
<b>World Total</b>	<b>15,781,159</b>	<b>100</b>	<b>7,425,929</b>	<b>100</b>

### C. WORLD AQUACULTURE PRODUCTION OF FISH, CRUSTACEANS, MOLLUSCS, etc. BY PRINCIPAL PRODUCERS IN 2008<sup>11/</sup>

Major Countries	Volume (MT)	% Share	Value (US\$ '000)	% Share
1. China	32,735,944	62.30	50,638,540	51.44
2. India	3,478,690	6.62	5,043,749	5.12
3. Vietnam	2,461,700	4.68	4,599,850	4.67
4. Indonesia	1,690,121	3.22	2,813,673	2.86
5. Thailand	1,374,024	2.61	2,202,075	2.24
6. Bangladesh	1,005,542	1.91	1,766,182	1.79
7. Norway	843,730	1.61	3,119,011	3.17
8. Chile	843,142	1.60	4,502,789	4.57
9. Philippines	741,142	1.41	1,576,141	1.60
10. Japan	732,374	1.39	3,104,436	3.15
11. Egypt	693,815	1.32	1,251,119	1.27
12. Myanmar	674,776	1.28	817,218	0.83
13. USA	500,114	0.95	936,922	0.95
14. Korea Rep	473,794	0.90	1,287,039	1.31
15. Other Countries	4,297,297	8.18	14,789,317	15.02
<b>World Total</b>	<b>52,546,205</b>	<b>100.00</b>	<b>98,448,061</b>	<b>100.00</b>

### ▶ 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, 2008	65
C. World Aquaculture Production of Fish, Crustaceans, Molluscs, etc. by Principal Producers in 2008	66
D. World Aquaculture Production of Aquatic Plants by Principal Producers in 2008	67
E. Prices of Selected Fish Species, Philippines, 2008-2009	68

### LIST OF FIGURES

1 Philippine Marine Jurisdictional Boundaries	14
2 Total Fish Production, by Sector, 2009	19
3 Volume of Fish Production, by Sector, 2000-2009	23
Value of Fish Production, by Sector, 2000-2009	23
4 Five-Year Fish Production, Trend 2005-2009	24
5 Major Fisheries Export in Terms of Value, 2009	56

### ENDNOTES

# HIGHLIGHTS

## World Scenario : *Philippine Fisheries*

- In 2008, the Philippines ranked 6<sup>th</sup> among the top fish producing countries in the world with its total production of 4.97 million metric tons of fish, crustaceans, mollusks, and aquatic plants (including seaweeds). The production constitutes 3.12% of the total world production of 159.1 million metric tons (*FAO website*).
- The Philippines' 0.741 million metric tons aquaculture production of fish, crustaceans and mollusks in 2008 ranked 9<sup>th</sup> in the world and a 1.4% share to the total global aquaculture production of 52.55 million metric tons. In terms of value, the country's aquaculture production of fish, crustaceans and mollusks has amounted to over 1.58 billion dollars (*FAO website*).
- Similarly, the Philippines is the world's 3<sup>rd</sup> largest producer of aquatic plants (including seaweeds) having produced a total of 1.67 million metric tons or nearly 10.6% of the total world production of 15.78 million metric tons (*FAO website*).

### Contribution to National Economy, 2009

- The fishing industry's contribution to the country's Gross Domestic Products (GDP) were 2.2% and 4.4% at current and constant prices, respectively. This translates to some P170.3 billion for current prices and P63.2 billion for constant prices of the country's GDP of P7,679 billion (current prices) and P1,432 billion (constant prices).
- The industry also accounted for 15% (P170.3 billion) and 24.4% (P63.2 billion) of the Gross Value Added (GVA) in Agriculture, Fishery and Forestry Group of P1,138 billion and P259.4 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 <sup>11/</sup> (includes seaweeds), BY CAPTURE AND AQUACULTURE, BY MAJOR PRODUCERS, 2008 ('000 MT)

Major Countries	TOTAL		Fish, Crustaceans & Molluscs				Aquatic Plants (includes seaweeds)		
	MT	% share	Aquaculture		Total	Aquaculture		Total	
			Capture	Aquaculture		Capture	Aquaculture		
1. China	57,826,992	36.34	14,791,163	32,735,944	47,527,107	366,100	9,933,785	10,299,885	
2. Indonesia	8,795,197	5.53	4,957,098	1,690,121	6,647,219	2,917	2,145,061	2,147,978	
3. India	7,583,569	4.77	4,104,877	3,478,690	7,583,567	-	2	2	
4. Peru	7,419,789	4.66	7,362,907	43,103	7,406,010	13,779	-	13,779	
5. Japan	5,541,171	3.48	4,248,697	732,374	4,981,071	104,700	455,400	560,100	
6. Philippines	4,969,278	3.12	2,561,192	741,142	3,302,334	388	1,666,556	1,666,944	
7. USA	4,856,918	3.05	4,349,853	500,114	4,849,967	6,951	-	6,951	
8. Chile	4,810,222	3.02	3,554,814	843,142	4,397,956	384,563	27,703	412,266	
9. Viet Nam	4,584,900	2.88	2,087,500	2,461,700	4,549,200	-	35,700	35,700	
10. Thailand	3,831,208	2.41	2,457,184	1,374,024	3,831,208	-	-	-	
11. Russian Fed	3,509,646	2.21	3,383,724	115,420	3,499,144	10,242	260	10,502	
12. Korea Rep.	3,352,554	2.11	1,943,870	473,794	2,417,664	13,866	921,024	934,890	
13. Norway	3,274,572	2.06	2,430,842	843,730	3,274,572	-	-	-	
14. Myanmar	3,168,562	1.99	2,493,750	674,776	3,168,526	-	36	36	
15. Other Countries	35,588,774	22.37	29,013,448	5,838,131	34,851,579	141,563	595,632	737,195	
<b>World Total</b>	<b>159,113,352</b>	<b>100.00</b>	<b>89,740,919</b>	<b>52,546,205</b>	<b>142,287,124</b>	<b>1,045,069</b>	<b>15,781,159</b>	<b>16,826,228</b>	



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

Fish and Other Products	Total (Kg/Year)
<b>1. FISH</b>	<b>38</b>
<b>1.1 Fresh Fish</b>	<b>25</b>
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
<b>1.2 Dried Fish (as fresh fish)</b>	<b>4</b>
<b>1.3 Processed Fish *</b>	<b>5</b>
Bagoong (as fresh fish)	1
Patis	n
Canned Fish (sardines, mackerel, salmon, etc)	3
Smoked fish (all tinapa type)	1
<b>1.4 Crustaceans and Mollusks</b>	<b>4</b>
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 2009 reached 5,079,977 million metric tons. Fisheries production grew remarkably by 35% from 3.93 million metric tons in CY 2004 to 5.080 million metric tons in CY 2009. Average annual production growth rate within that period was registered at 5.8%. In terms of value, the 2009 fisheries production was valued at 215.58 billion pesos as compared with the 138.8 billion pesos in 2004, an average yearly increment of 10 billion pesos.
- The 2009 fisheries production also showed a 2% increase from the previous year's production of 4.966 million metric tons. The 2009 production was valued at 215.58 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 48.8% (2.477 million MT) followed by the municipal sector with 26.5% (1.349 million MT), and the commercial sector with 24.7% (1.254 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 887,676 metric tons share to the total fisheries production in which seaweed was the major commodity. Zamboanga Peninsula or Region 9 has the second highest noted volume of unloading at 731,841 metric tons or 14.4% while MIMAROPA ranked third with 720,734.5 metric tons or 14.2% of unloading during that period.

- In terms of value, the industry has contributed P215.58 billion in 2009 at current prices as compared to P215.8 billion in 2008. The top three (3) regions were Region III with P29.36 billion, followed by Region VI with P25.73 billion and Region IX with P22.139 billion.
- The Aquaculture fisheries sub-sector contributed the highest value of about P81.49 billion or 37.8 %. Next is municipal fisheries sub-sector with a total production of P 75.38 billion. Total fish caught by marine fishermen was valued at P67.56 billion while inland fisheries production was valued at P7.82 billion. The commercial sub-sector contributed P58.7 billion or 27.2% to the total fishery output.

## Fisheries Export and Import Performance

### Exports

- Foreign trade performance of the fishery industry in 2009 registered a net surplus of 452 million dollars – total export value of 675 million US dollars and import value of 223 million US dollars.
- Moreover, export volume registered a or 4.26% or 196,521 MT in 2009 as compared to the 205,274 MT of fish and fishery products the country has exported in 2008. The three major export commodities (tuna, seaweeds, shrimp/prawn,) combined for 69% (136,398 MT) of the total export volume (196,521 MT) and 69% (US\$483.8 million) of the total export value (US\$ 675 million) in 2009.
- Tuna remained as the top export commodity with a collective volume of 103,947 MT for fresh/chilled/frozen, smoked/dried, and canned tuna products valued at US \$326.941 million. Canned tuna, though, constitutes bulk of tuna products being exported. In general, tuna export fell by 2% in terms of volume and -13% in terms of value. Major markets for this commodity include USA, Japan and Hongkong.
- Seaweeds came 2nd on export value with 33% less from

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

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

## A. FOOD CONSUMPTION <sup>10/</sup>

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

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

US\$122.03 million in 2008 to US\$ 99.44 million in 2009 or 15% share to the total export earnings for that year. Carrageenan remains the major product being shipped abroad comprising 87% of the total seaweed export value. USA, Germany and UK are among the major markets for Philippine seaweed products.

- Shrimp/Prawn ranked 3<sup>rd</sup> with a total contribution of US\$55.1 million to the total export value, lower than last years export earnings of \$68.8 million. Most of the shrimps/prawns are exported in fresh/chilled/frozen form with a total value of US\$ 55.1 million or 98% of the total shrimp/prawn export revenue. The 2009 shrimp/prawn exports, however, climbed by 8% in volume (MT) and 20% down in value (USD) from the previous year's export. Japan, USA and Korea 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 86% or US\$ 581.7 million of the total US\$ 674.86 million export revenues. Other commodities accounted for the remaining 14% 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, 11.2%; Japan, 11.2%; Hongkong 6.9%; France, 2.2%, Spain, 2.1%, Taiwan (ROC) 2.1%, Germany, 1.9%; Singapore 1.3%, China, Rep Of 1.3%; and Belgium 1.3. Other countries have a cumulative share of 42%.

#### Imports

- 68% of the total import value for 2009 was contributed by three major commodities in chilled/frozen fish, 57% , prawn feeds, 4%; as well as flour, meals and pellets of fish, crustaceans, and mollusks fit and unfit for human consumption, 7 %. These commodities have an aggregated value of US\$ 152.25 million out of the US\$ 223.3 million total import value.
- Prawn feeds were mostly sourced from Thailand, 80%; Taiwan, (ROC) 16%; Singapore, 1.3 %; China, 0.4%; Netherlands, 0.16%;

and USA, 0.01%; with a total of \$ 8.37 million on import value.

- Chilled/frozen fish comprise of tuna, mackerel and sardines with a total of US\$ 127.1 million . Tuna has an import value of US \$75.8 million, the largest among the three major import with a share of 34%. These were mostly supplied by Papua New Guinea 13 %; Taiwan (ROC) 11%; Japan 4.7%; Singapore, 1.5% and Marshall Island, 1.8%. Other fishery imports include mackerel, 23% and sardines 0.3%.
- In terms of value, in general, the Philippine fishery imports originated from the following major countries: China, 23%;Taiwan (ROC), 14%; Papua New Guinea, 13%; Japan 7% ; Indonesia, 6%; Vietnam, 6%; USA, 5%; Thailand, 5%; and Korea, 4%. Other countries contributed 18% 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, 2009

Major Countries	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
China, People'S Republic Of	99,129	50,251	2,420,592
Taiwan (Republic Of China)	43,403	31,655	1,524,824
Papua New Guinea	26,811	29,466	1,419,375
Japan (Excludes Okinawa)	15,501	14,879	716,711
Indonesia	9,845	14,424	694,805
Vietnam	7,887	12,706	612,068
United States Of America	13,471	10,587	509,971
Thailand	11,596	10,162	489,515
Korea, Republic Of South	19,584	9,704	467,463
Peru	7,927	6,313	304,115
Denmark	2,274	5,301	255,358
Chile	5,818	4,653	224,154
Singapore	6,528	4,641	223,569
Marshall Islands, Rep. Of	3,547	4,135	199,164
Norway	1,461	2,483	119,625
Germany	2,070	1,499	72,220
Italy	2,059	761	36,650
New Zealand	919	603	29,053
Malaysia	585	471	22,693
Hongkong	457	421	20,301
<b>Total Major Countries</b>	<b>280,872</b>	<b>215,118</b>	<b>10,362,224</b>
<b>Other Countries</b>	<b>10,757</b>	<b>8,147</b>	<b>383,521</b>
<b>Total</b>	<b>291,629</b>	<b>223,265</b>	<b>10,745,745</b>



## Fishery Resources

### Fisheries Contribution To The Economy 2009



## Philippine Marine Jurisdictional Boundaries

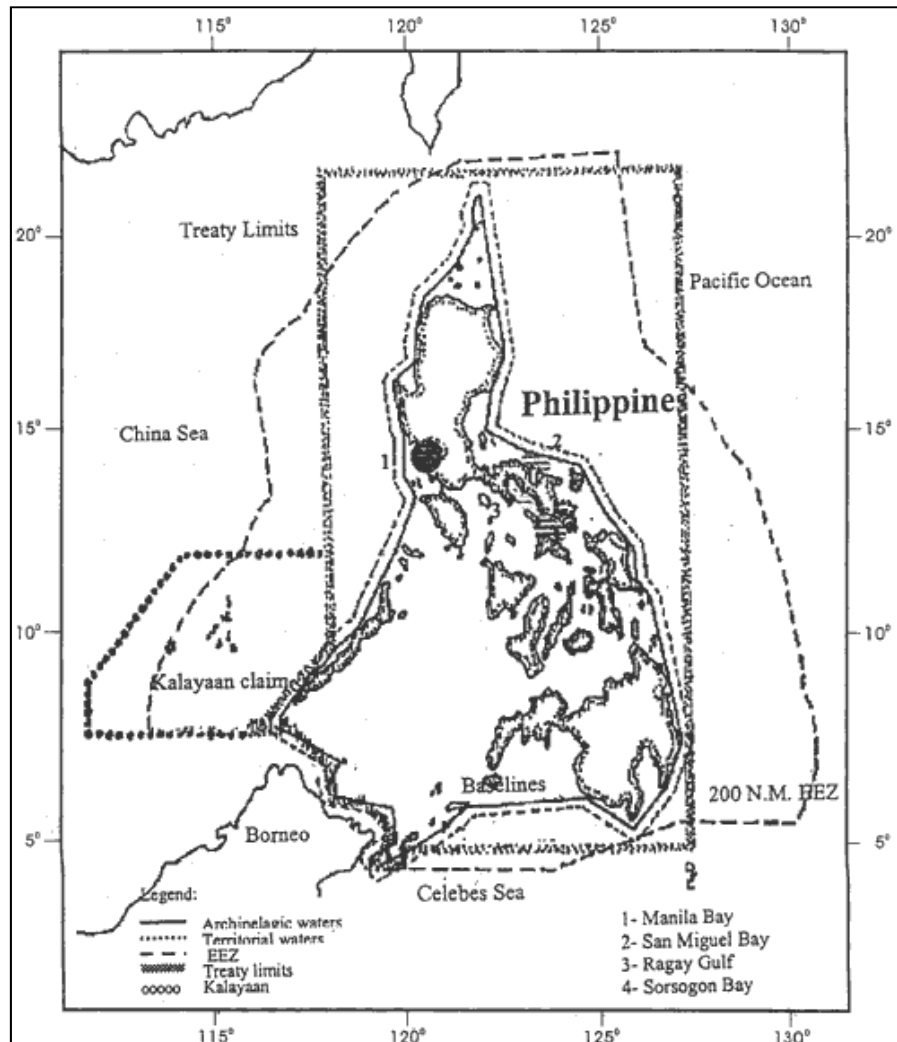


Figure 1. Map of the Philippines showing the limits of archipelagic, territorial waters treaty limits Exclusive Economic Zone (200 N. M. EEZ) and Kalayaan claim.

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
<b>2. Prawn feeds</b>	<b>17,145</b>	<b>8,373</b>	<b>402,971</b>
Taiwan	8,712	1,349	64,913
China, People'S Rep. Of	1	37	1,760
U S A	8	12	589
Thailand	7,199	6,748	324,800
Netherlands	11	14	682
Belgium			
Singapore	1,054	109	5,223
Others	160	104	5,004
<b>3. Flour, meals &amp; pellets of fish, crustaceans &amp; molluscs fit or unfit for human consumption</b>	<b>23,503</b>	<b>16,532</b>	<b>795,709</b>
Peru	4,369	4,204	202,323
Chile	1,446	1,312	63,170
U S A	2,443	2,220	106,863
Thailand	3,858	2,711	130,504
Australia			
Denmark	1,971	1,194	57,455
Malaysia	35	11	518
China, People's Rep. of	80	65	3,150
New Zealand	414	212	10,211
Taiwan	89	54	2,585
Argentina			
Germany	2,037	932	44,869
Korea, Rep. of South	753	449	21,633
Netherlands			
Hongkong	11	7	338
Others	5,997	3,160	152,090
<b>Total major imports</b>	<b>224,699</b>	<b>152,005</b>	<b>7,316,005</b>
<b>Other Commodities</b>	<b>66,930</b>	<b>71,260</b>	<b>3,429,740</b>
<b>Grand Total</b>	<b>291,629</b>	<b>223,265</b>	<b>10,745,745</b>

## 2. Major Fishery Imports in Terms of Value, 2009

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
<b>1. Chilled/Frozen Fish</b>	<b>184,051</b>	<b>127,100</b>	<b>6,117,325</b>
<b>A. Tuna</b>	<b>70,309</b>	<b>75,855</b>	<b>3,650,892</b>
Indonesia	948	723	34,807
Taiwan	21,449	24,750	1,191,220
Papua New Guinea	26,811	29,166	1,403,758
Japan (Excludes Okinawa)	9,810	10,498	505,270
Korea,	2,009	1,701	81,861
Singapore	3,250	3,244	156,127
China, People'S Rep. Of	1,908	933	44,896
Thailand	129	153	7,377
Marshall Islands	3,498	4,034	194,137
Others	497	653	31,439
<b>B. Mackerel</b>	<b>112,091</b>	<b>50,531</b>	<b>2,432,051</b>
China, People'S Rep. Of	85,140	38,052	1,831,436
Japan	3,995	2,143	103,131
Taiwan	11,794	4,516	217,352
Korea	8,305	3,632	174,802
U S A	485	247	11,900
Malaysia	17	8	371
Canada	28	20	968
Vietnam	1,721	1,453	69,934
New Zealand	270	206	9,936
Others	336	254	12,221
<b>C. Sardines</b>	<b>1,651</b>	<b>714</b>	<b>34,382</b>
Mexico	106	52	2,508
Morocco	663	302	14,550
U S A	75	33	1,608
Indonesia	540	217	10,430
Others	267	110	5,286

## 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) <sup>1/</sup>	36,289 km

### B. Inland Resources

1. Swamplands	246,063 ha
a. Freshwater	106,328 ha
b. Brackishwater <sup>1/</sup>	139,735 ha
2. Existing Fishpond	253,854 ha
b. Brackishwater <sup>2/</sup>	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, 2009

### A. Fisheries Contribution to Total GDP <sup>3/</sup>

1. At Current Prices	2.2%
2. At Constant Prices	4.4%

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

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)	685,924	60.3	127,444	49.1
2. Livestock	140,791	12.4	29,128	11.2
3. Poultry	84,346	7.4	26,727	10.3
4. Agricultural activities	52,644	4.6	11,601	4.5
5. Fishery	170,330	15.0	63,202	24.4
6. Forestry	4,298	0.4	1,322	0.5
<b>Total</b>	<b>1,138,334</b>	<b>100.0</b>	<b>259,424</b>	<b>100.0</b>

## B. IMPORTS <sup>5/</sup>

### 1. Import of Fish and Fishery Products By Kind, Quantity and Value, 2009

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
● Fish Crustaceans, Mollusks, etc. and Preparation	240,341	170,199	8,191,697
a. Fish fresh (live or dead) chilled or frozen	201,930	147,714	7,109,465
b. Fish, dried, salted or in brine, smoked fish	65	267	12,835
c. Crustaceans, mollusks and aquatic invertebrates	36,635	20,158	970,186
d. Fish and other aquatic invertebrate, prepared/ preserved	1,711	2,061	99,211
● Shells and By-Products	621	148	7,137
● Miscellaneous and Other Fishery Products	50,667	52,917	2,546,911
<b>Grand Total</b>	<b>291,629</b>	<b>223,265</b>	<b>10,745,745</b>

Note: Figures may not add up due to rounding off



### Major Fisheries Export in Terms of Value, 2009

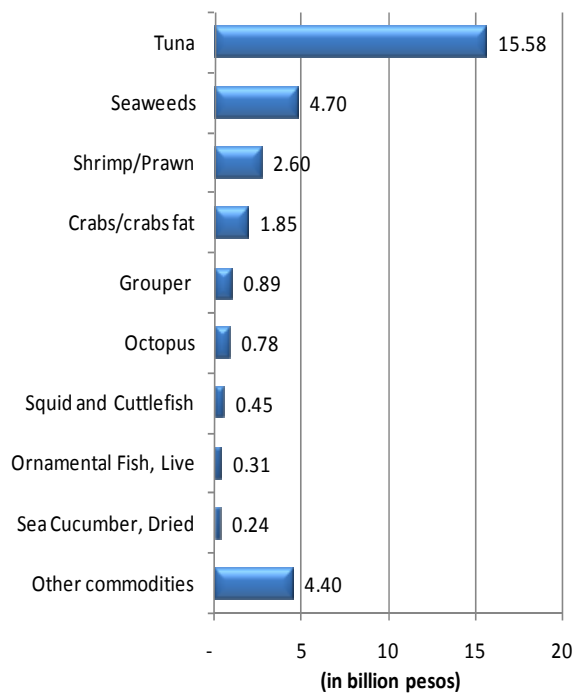


Figure 5

### C. Employment <sup>4/</sup>

#### 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
<b>Total</b>	<b>1,614,368 operators</b>

\* Based on 2002 Census of Fisheries

### D. Balance of Trade <sup>5/</sup>

	2009			2008		
	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)
Fishery Exports	196,521	31,920	675	205,274	34,039	768
Fishery Imports	291,629	10,746	223	208,370	8,663	195
Trade Balance	(95,108)	21,174	452	(3,096)	25,376	573

### E. Total Fish Production, by Sector, 2009

Sector	Quantity (MT)	%	Value	
			Current Prices ('000 P)	%
1. Aquaculture	2,477,392.03	48.8	81,493,357.46	37.8
2. Municipal Fisheries	1,348,643.97	26.5	75,383,741.49	35.0
3. Commercial Fisheries	1,253,940.98	24.7	58,704,969	27.2
<b>Total</b>	<b>5,079,976.98</b>	<b>100.0</b>	<b>215,582,068.31</b>	<b>100.0</b>

### 4. Fishery Exports, by Major Country of Destination in Terms of Value, 2009

Country/Destination	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
United States Of America	17,791	75,606	3,576,180
Japan (Excludes Okinawa)	12,894	75,488	3,570,579
Hongkong	14,056	46,734	2,210,532
France	5,421	14,929	706,157
Spain	5,812	14,206	671,933
Taiwan (Republic Of China)	6,164	14,041	664,126
Germany	1,772	12,665	599,068
Singapore	2,186	9,092	430,039
Belgium	1,198	8,793	415,929
China, People'S Republic Of	6,838	8,724	412,629
Canada	1,881	7,288	344,707
Korea, Republic Of South	2,484	7,217	341,378
Thailand	2,948	6,441	304,677
Israel	1,190	6,205	293,508
Uk Great Britain And N. Ireland	1,224	5,644	266,943
Denmark	686	5,027	237,782
Vietnam	2,143	4,286	202,720
Russian Federations	429	2,936	138,882
United Arab Emirates	294	2,775	131,271
Italy	1,305	2,771	131,086
Total Major Countries	88,716	330,869	15,650,125
Other Countries	107,805	343,992	16,270,816
<b>Grand Total</b>	<b>196,521</b>	<b>674,861</b>	<b>31,920,941</b>

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
<b>3. Shrimp/Prawn</b>	<b>8,249</b>	<b>55,068</b>	<b>2,604,694</b>
<b>Frozen</b>	<b>7,920</b>	<b>52,226</b>	<b>2,470,285</b>
Japan	4,535	35,484	1,678,387
U S A	796	4,750	224,658
Korea	405	1,576	74,526
Hongkong	514	1,788	84,549
Guam	122	725	34,279
Trust Territory of the Pacific Is.	114	617	29,167
Canada	156	520	24,596
Thailand	41	240	11,330
Belgium	8	97	4,581
Others	1,229	6,432	304,212
<b>Fresh or chilled</b>	<b>186</b>	<b>1,851</b>	<b>87,564</b>
Korea	81	410	19,393
HongKong	11	117	5,557
Taiwan	1	4	199
United Arab Emirates	92	1,298	61,392
Others	1	22	1,024
<b>Other Than Fresh/Chilled or Frozen</b>	<b>109</b>	<b>777</b>	<b>36,750</b>
Japan	89	676	31,965
Thailand	15	66	3,133
U S A	2	5	231
Hawaii	2	23	1,085
Others	1	7	336
<b>Prepared and Preserved</b>	<b>32</b>	<b>203</b>	<b>9,601</b>
Thailand	27	155	7,337
Japan	4	44	2,076
Others	1	4	187
<b>N.e.s.</b>	<b>2</b>	<b>10</b>	<b>494</b>
<b>Total (3) major commodities</b>	<b>136,398</b>	<b>483,797</b>	<b>22,883,580</b>
<b>Total other commodities</b>	<b>60,123</b>	<b>191,065</b>	<b>9,037,361</b>
<b>Grand Total</b>	<b>196,521</b>	<b>674,861</b>	<b>31,920,941</b>

### Total Fish Production, By Sector, 2009

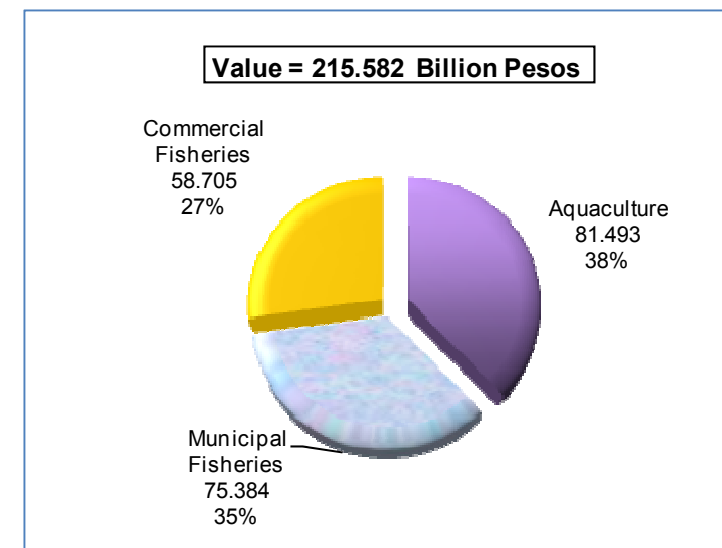
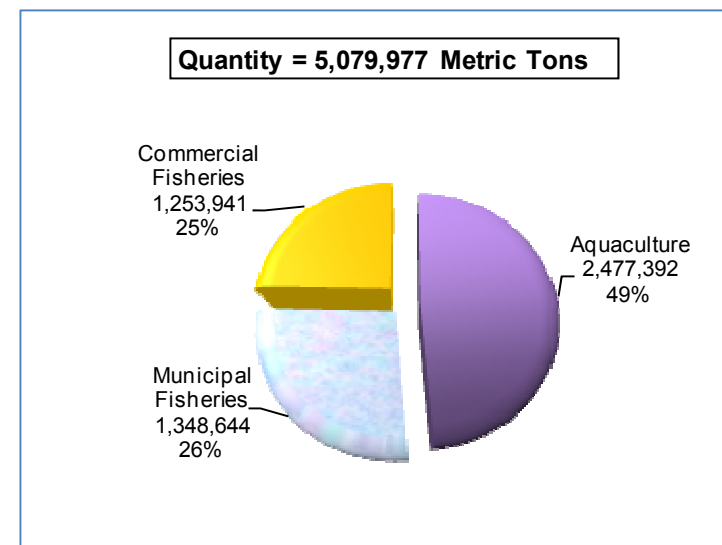


Figure 2

**F. Fish Production, by Sector and Region, 2009  
in (MT)**

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	62,371.40	4,215.36	2,136.74	68,723.50	1.4
CAR	.	940.21	3,288.51	4,228.72	0.1
I	5,052.39	50,124.57	82,514.94	137,691.90	2.7
II	15,676.64	32,469.31	15,335.91	63,481.86	1.2
III	5,873.27	41,950.71	224,289.92	272,113.90	5.4
IV-A	82,489.83	122,233.78	210,855.99	415,579.60	8.2
IV-B	44,850.25	219,386.03	456,498.27	720,734.55	14.2
V	65,337.61	139,165.34	69,033.88	273,536.83	5.4
VI	109,158.74	168,936.60	155,135.22	433,230.56	8.5
VII	47,205.60	54,727.20	131,832.28	233,765.08	4.6
VIII	71,694.09	95,301.09	39,835.70	206,830.88	4.1
IX	357,124.70	127,082.97	247,633.54	731,841.21	14.4
X	45,983.43	42,392.12	67,149.64	155,525.19	3.1
XI	11,348.11	26,586.35	28,604.68	66,539.14	1.3
XII	230,714.89	48,645.63	25,460.58	304,821.10	6.0
CARAGA	6,676.21	70,380.89	26,599.51	103,656.61	2.0
ARMM	92,383.82	104,105.81	691,186.72	887,676.35	17.5
<b>Total</b>	<b>1,253,940.98</b>	<b>1,348,643.97</b>	<b>2,477,392.03</b>	<b>5,079,976.98</b>	<b>100.00</b>

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
<b>2. Seaweeds</b>	<b>24,202</b>	<b>99,438</b>	<b>4,703,396</b>
<b>Seaweeds and Other Algae</b>	<b>95</b>	<b>148</b>	<b>7,024</b>
Hongkong	40	49	2,325
Vietnam	51	68	3,222
Others	4	31	1,477
<b>Euचेuma Chips</b>	<b>4,810</b>	<b>5,340</b>	<b>252,602</b>
China, People'S Republic Of	2,047	1,762	83,327
France	1,898	2,342	110,779
Taiwan (Republic Of China)	53	26	1,233
Canada	48	310	14,644
Spain	176	115	5,430
Others	588	786	37,189
<b>Other Euचेuma</b>	<b>3,940</b>	<b>3,702</b>	<b>175,088</b>
China, People'S Republic Of	1,519	1,268	59,983
Others	2,421	2,434	115,105
<b>Seaweeds, Fresh, Chilled/Frozen or Dried</b>	<b>1,878</b>	<b>3,561</b>	<b>168,416</b>
United States Of America	128	889	42,027
Japan	3	23	1,065
China, People'S Republic Of	4,526	4,080	192,966
France	3,238	4,016	189,943
Hongkong	162	182	8,612
<b>Carrageenan</b>	<b>13,361</b>	<b>86,636</b>	<b>4,097,891</b>
United States Of America	2,268	13,575	642,075
Uk Great Britain And N. Ireland	688	4,993	236,168
Belgium	1,043	8,328	393,899
Germany	1,145	8,953	423,486
France	1,527	8,307	392,934
Canada	383	2,621	123,960
Mexico	621	3,869	183,007
Australia	316	2,123	100,440
Denmark	681	5,058	239,264
China, People'S Republic Of	548	1,154	54,578
Others	4,141	27,655	1,308,080
<b>Kelp Powder</b>	<b>118</b>	<b>50</b>	<b>2,375</b>
Japan	14	7	331
United Kingdom	104	43	2,044

### 3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2009

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
<b>1. Tuna</b>	<b>103,947</b>	<b>329,292</b>	<b>15,575,490</b>
<b>Fresh/chilled/frozen</b>	<b>20,100</b>	<b>74,827</b>	<b>3,539,304</b>
Japan	4,385	23,468	1,110,034
U S A	3,617	26,515	1,254,173
Indonesia	551	677	32,035
Thailand	2,091	3,120	147,556
Hongkong	150	731	34,572
Taiwan	157	229	10,815
Switzerland	91	657	31,080
Germany	97	899	42,524
United Arab Emirates	12	91	4,317
Hawaii	122	964	45,607
Others	8,827	17,475	826,591
<b>Prepared/Preserved</b>	<b>83,847</b>	<b>254,465</b>	<b>12,036,186</b>
U S A	21,371	63,988	3,026,624
Singapore	996	3,142	148,625
Japan	708	2,704	127,884
South Africa	376	968	45,775
Canada	2,022	6,013	284,399
Germany	19,113	57,704	2,729,399
Taiwan	414	1,123	53,118
United Kingdom	14,163	39,042	1,846,706
Netherlands	3,643	11,717	554,230
Kuwait	1,626	6,177	292,180
Others	19,415	61,887	2,927,246

### F.a. Value of Fish Production, by Sector and Region, 2009 (in '000 P)

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	3,650,496.88	343,233.07	123,144.65	4,116,874.60	1.9
CAR		84,257.27	279,588.56	363,845.83	0.2
I	369,841.51	3,764,508.07	6,939,270.00	11,073,619.58	5.1
II	954,847.03	2,222,579.87	1,013,778.46	4,191,205.36	1.9
III	378,532.85	2,930,772.80	26,052,025.62	29,361,331.27	13.6
IV-A	5,985,043.64	4,185,682.41	10,793,489.78	20,964,215.83	9.7
IV-B	1,868,999.67	9,900,200.06	4,280,574.05	16,049,773.78	7.4
V	2,709,599.83	7,133,224.63	1,953,639.60	11,796,464.06	5.5
VI	6,589,327.60	11,415,081.71	7,729,174.05	25,733,583.36	11.9
VII	2,774,933.22	3,960,103.74	1,629,007.11	8,364,044.07	3.9
VIII	4,356,284.72	6,100,015.35	1,805,953.98	12,262,254.05	5.7
IX	10,563,694.90	6,975,478.68	4,600,671.99	22,139,845.57	10.3
X	2,385,149.97	2,632,709.46	5,741,160.72	10,759,020.15	5.0
XI	896,973.09	1,675,755.24	2,006,973.13	4,579,701.46	2.1
XII	11,568,276.67	2,366,990.40	1,713,451.49	15,648,718.56	7.3
CARAGA	387,721.82	4,385,639.78	759,198.28	5,532,559.88	2.6
ARMM	3,265,245.96	5,307,508.95	4,072,255.99	12,645,010.90	5.9
<b>Total</b>	<b>58,704,969.36</b>	<b>75,383,741.49</b>	<b>81,493,357.46</b>	<b>215,582,068.31</b>	<b>100.00</b>

## G. Fish Production, by Sector 2000-2009

### 1. Volume of Fish Production (in MT)

Year	Aquaculture	Municipal	Commercial	Total
2009	2,477,392.0	1,348,644.0	1,253,941.0	5,079,977.0
2008	2,407,697.9	1,332,986.4	1,226,204.9	4,966,889.2
2007	2,214,826.2	1,304,356.5	1,192,069.8	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
2000	1,100,902.1	945,945.0	946,485.0	2,993,332.1

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

Year	Aquaculture	Municipal	Commercial	Total
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
2000	32,183,390.0	32,595,564.0	33,878,677.0	98,657,631.0

## 2. Major Fishery Exports in Terms of Value, 2009

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
1. Tuna	<b>103,947</b>	<b>329,292</b>	<b>15,575,490</b>
Fresh/chilled/frozen (excludes fillet)	20,100	74,827	3,539,304
Smoked			
Prepared/preserved	83,847	254,465	12,036,186
2. Seaweeds	<b>24,202</b>	<b>99,438</b>	<b>4,703,396</b>
Seaweeds and other Algae, nes.	6,031	7,461	352,903
Seaweeds for human consumption	4,810	5,340	252,602
Carrageenan	13,361	86,636	4,097,891
3. Shrimp/Prawn	<b>8,249</b>	<b>55,068</b>	<b>2,604,694</b>
Fresh/ chilled or frozen, nes	8,108	54,088	2,558,343
Dried	109	777	36,750
Prepared and preserved	32	203	9,601
4. Crabs/crabs fat	<b>4,357</b>	<b>39,171</b>	<b>1,852,785</b>
Live, Frozen/Fresh or Chilled	3,011	18,418	871,152
Crab fat (Prepared/presrd)	110	1,406	66,511
Crab meat (Prepared/presrd)	1,236	19,347	915,122
5. Octopus	<b>5,647</b>	<b>16,399</b>	<b>775,685</b>
Live, Fresh or chilled	133	381	18,023
Dried, salted or in brine	23	100	4,719
Frozen	5,491	15,918	752,943
6. Grouper	<b>7,801</b>	<b>18,887</b>	<b>893,358</b>
Live (other than fry)			
For breeding, live			
Breeder	7,801	18,887	893,358
Other than for breeding			
7. Squid and Cuttlefish	<b>2,439</b>	<b>9,603</b>	<b>454,201</b>
Live	a/	0.42	20
Fresh/chilled/frozen/dried	2,291	9,156	433,056
Prepared/preserved	148	447	21,125
8. Ornamental Fish, Live	<b>5,556</b>	<b>6,483</b>	<b>306,626</b>
9. Roundscad	<b>850</b>	<b>2,380</b>	<b>112,568</b>
Frozen	787	2,137	101,083
Smoked	57	218	10,332
Dried	6	24	1,153
10. Sea Cucumber, Dried	<b>708</b>	<b>5,028</b>	<b>237,811</b>
<b>Total major commodities</b>	<b>163,756</b>	<b>581,747</b>	<b>27,516,614</b>
<b>Total of other commodities</b>	<b>32,765</b>	<b>93,115</b>	<b>4,404,327</b>
<b>Grand Total</b>	<b>196,521</b>	<b>674,861</b>	<b>31,920,941</b>

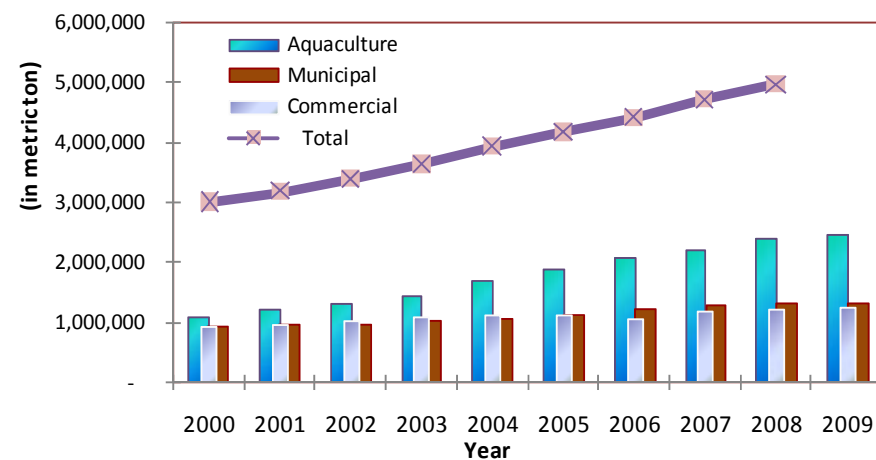
a/ - volume less than 1 metric ton

## A. EXPORTS <sup>5/</sup>

### 1. Export of Fish and Fishery Products by Kind, Quantity and Value, 2009

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
A. Fish, Crustaceans, Molluscs, etc. and Preparation	<b>169,104</b>	<b>572,949</b>	<b>27,100,474</b>
A.1 Fish, fresh (live/dead), Chilled/Frozen	44,941	<b>143,277</b>	6,776,992
A.2 Fish, dried, salted/in brine; smoked fish	2,179	<b>7,623</b>	360,550
A.3 Crustaceans, molluscs and aquatic invertebrates	23,410	<b>119,342</b>	5,644,878
A.4 Fish and other aquatic invertebrate, prepared/ preserved	98,574	<b>302,707</b>	14,318,054
B. Shells and By-Products	<b>1,552</b>	<b>1,104</b>	<b>52,242</b>
C. Miscellaneous and other fishery products	<b>25,865</b>	<b>100,808</b>	<b>4,768,225</b>
<b>Grand Total</b>	<b>196,521</b>	<b>674,861</b>	<b>31,920,941</b>

## Volume of Fish Production, By Sector 2000-2009



## Value of Fish Production, By Sector 2000-2009

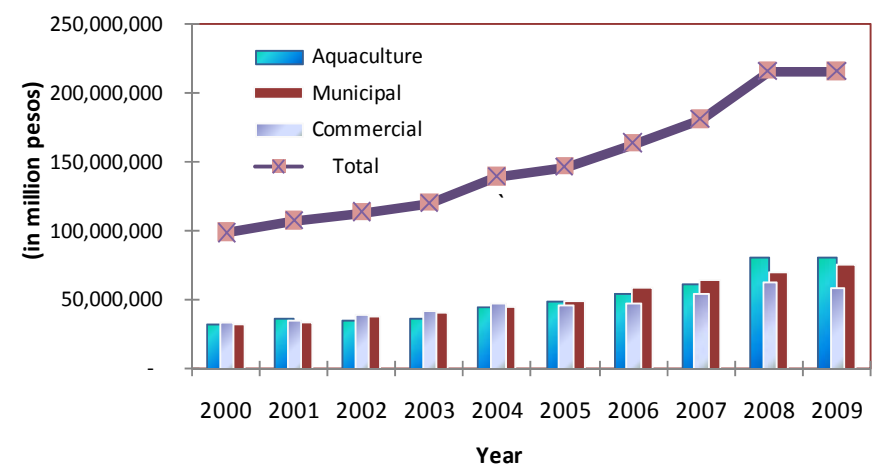


Figure 3

### H. Five Year Fish Production, Trend 2005-2009

Year	Quantity (MT)	% Increase/ (Decrease)	Value ('000 P)	% Increase/ (Decrease)
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
2005	4,161,870	6.0	146,392,949	5.4

### Five Year Fish Production, Trend 2005-2009

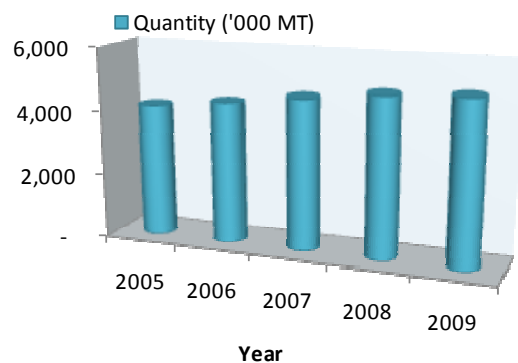


Figure 4

### External Trade





**NUMBER OF COMMERCIAL FISHING OPERATORS AND VESSELS, BY REGION, AS OF 2007 <sup>9/</sup>**

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
<b>TOTAL</b>	<b>2,358</b>	<b>6,371</b>



**Aquaculture Production, 2009**

This includes production from the following:

- Brackishwater fishpond
- Freshwater fishpond
- Fish pen and fish cage in fresh and marine waters
- Mariculture



**A. SUMMARY OF AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT AND REGION, 2009**  
(In Metric Tons)

Region	Total Aquaculture	Brackishwater			Freshwater			Marine Waters			Oyster Mussel and Seaweed	SFR	Rice Fish	
		Fish-pond	Fish cage	Fish pen	Fish-pond	Fish cage	Fish pen	Fish cage	Fish pen	Total				
NCR	2,137	472			342	1,183		1,525				140		
CAR	3,289			0	1,829	1,460		3,289						
I	82,515	18,439	1,163	3,298	22,900	5,301	0.3	5,338	38,113	10,211	48,324	5,946	3.1	3.6
II	15,336	3,842	94		3,936	7,539		8,482			0	2,800	118.1	
III	224,290	96,182	1		96,183	120,307		120,307	2,121		2,121	5,673	5.6	
IV-A	210,856	10,467			10,467	1,728		134,423	1		1	65,965		
IV-B	456,498	4,537	2	0.4	4,540	570		570	445		445	450,943		
V	69,034	6,802	1		6,803	1,574		9,464	13	69	82	52,685		
VI	155,135	80,347	12	21	80,379	1,265	0.1	1,269	44	1,161	1,205	72,278	4.1	0.9
VII	131,832	9,260	11	0	9,271	179		186	552	95	647	121,717	10.7	
VIII	39,836	6,188	19	14	6,221	279		332	6,842	40	6,883	26,400		0.1
IX	247,634	21,649	1		21,650	160	0.3	160	132		132	225,691		
X	67,150	25,588	0		25,588	1,358		1,359	1,319	0.5	1,319	38,883	0.9	
XI	28,605	5,159	66		5,225	1,303	2	1,331	7,469	9,849	17,318	4,730		0.2
XII	25,461	8,416			8,416	936		1,660	1,740		1,740	266		4.8
CARAGA	26,600	2,369	871	17	3,258	194		314	227	141	368	22,660		
ARMM	691,187	3,132			3,132	202		4,956	6	8	14	683,085		
<b>TOTAL</b>	<b>2,477,392</b>	<b>302,850</b>	<b>2,241</b>	<b>3,350</b>	<b>308,440</b>	<b>144,724</b>		<b>62,002</b>	<b>59,026</b>	<b>21,574</b>	<b>80,600</b>	<b>1,779,862</b>	<b>147.4</b>	<b>4.8</b>

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

**B. COMMERCIAL FISHERIES PRODUCTION, BY MAJOR FISH SPECIES, 2009**

Major Species	Total (MT)	% to Total
1. Roundscad (Galunggong)	171,628.47	13.7
2. Indian Sardines (Tamban)	260,377.58	20.8
3. Frigate Tuna (Tulingan)	81,492.58	6.5
4. Skipjack (Gulyasan)	201,262.48	16.1
5. Yellowfin Tuna (Tambakol/Bariles)	91,439.84	7.3
6. Big-eyed Scad (Matang-baka)	39,932.96	3.2
7. Fimbriated Sardines (Tunsoy)	75,607.57	6.0
8. Slipmouth (Sapsap)	21,543.93	1.7
9. Eastern Little Tuna (Bonito)	34,634.50	2.8
10. Indian Mackerel (Alumahan)	36,567.89	2.9
11. Indo-pacific Mackerel (Hasa-hasa)	21,673.95	1.7
12. Other Species	217,779.23	17.4
<b>Total</b>	<b>1,253,940.98</b>	<b>100.0</b>

**A. COMMERCIAL FISH PRODUCTION, BY REGION AND BY TYPE OF LANDING CENTERS, 2009**

Region	Total	Private	PFDA	LGU	Traditional
NCR	62,371.40		59,578.62		2,792.78
CAR					
I	5,052.39		416.23	98.85	4,537.31
II	15,676.64				15,676.64
III	5,873.27	4,783.84		152.57	936.86
IV-A	82,489.83		15,390.92	6,048.88	61,050.03
IV-B	44,850.25				44,850.25
V	65,337.61	11,389.19		18,789.49	35,158.93
VI	109,158.74	7,618.08	1,694.21	25,148.69	74,697.76
VII	47,205.60			3,015.20	44,190.40
VIII	71,694.09	901.99		8.70	70,783.40
IX	357,124.70	252,338.36	11,849.13	16,121.00	76,816.21
X	45,983.43			7,760.24	38,223.19
XI	11,348.11	688.04	3,425.59	2,530.98	4,703.50
XII	230,714.89	78,578.63	147,157.85		4,978.41
CARAGA	6,676.21				6,676.21
ARMM	92,383.82				92,383.82
<b>TOTAL</b>	<b>1,253,940.98</b>	<b>356,298.13</b>	<b>239,512.55</b>	<b>79,674.60</b>	<b>578,455.70</b>

**B. AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT, REGION AND SPECIES, 2009**

**1. Production from Brackishwater (in MT)**

**a) Fishpond**

Region	Total	Milkfish	Tiger Prawn	W. Shrimp & Endeavor Prawn	Tilapia	Mudcrab	Grouper	Siganid	Others
NCR	471.91	411.21	2.73		57.79	0.18			
CAR	-								
I	18,439.26	16,252.17	800.54	61.26	1,211.25	9.06	0.18	38.60	66.20
II	3,842.22	724.28	69.65	166.87	2,803.27	56.92		15.61	5.62
III	96,182.45	59,279.73	24,231.87	482.86	6,731.96	4,157.85	25.16	0.20	1,272.82
IV-A	10,466.94	9,819.74	209.05	241.24		43.17	11.66		142.08
IV-B	4,537.38	3,828.92	699.76	4.30	2.25	2.15			
V	6,801.96	3,743.61	1,009.61	285.63	148.67	1,614.43			0.01
VI	80,346.52	75,997.57	2,029.77	161.22	654.96	1,276.69	6.81		219.50
VII	9,260.26	6,697.85	1,790.04	20.08	135.30	2.25			614.74
VIII	6,187.69	5,290.24	480.76	0.20	67.16	345.58	1.75	2.00	
IX	21,649.08	11,445.65	6,670.91	1,125.19	2,170.68	236.65			
X	25,587.79	10,422.00	8,736.05	111.86	437.97	5,777.99	0.13		101.79
XI	5,158.58	4,793.18	36.20	59.66	88.60	3.85			177.09
XII	8,416.19	7,442.12	57.39	0.12	222.05	0.36			694.15
CARAGA	2,369.02	1,233.24	767.09	162.25	31.57	174.74			0.13
ARMM	3,132.39	2,595.64	238.28	123.04	157.09	18.34			
<b>TOTAL</b>	<b>302,849.64</b>	<b>219,977.16</b>	<b>47,829.69</b>	<b>3,005.78</b>	<b>14,920.58</b>	<b>13,720.21</b>	<b>45.69</b>	<b>56.41</b>	<b>3,294.12</b>

## b) Fish cage

Region	Total	Milkfish	Tilapia	Grouper	Siganid	Others
NCR						
CAR						
I	1,162.62	1,086.19	43.93		31.67	0.83
II	93.76	23.20	63.90	1.31	3.42	1.93
III	0.72					0.72
IV-A						
IV-B	1.77	1.77				
V	1.00			1.00		
VI	11.98		0.07	8.97		2.94
VII	10.53	9.94		0.59		
VIII	19.45	16.40	3.05			
IX	0.79			0.20	0.29	0.3
X	0.10	0.10				
XI	66.39	66.39				
XII						
CARAGA	871.44	869.46	1.98			
ARMM						
<b>TOTAL</b>	<b>2,240.56</b>	<b>2,073.45</b>	<b>112.93</b>	<b>12.08</b>	<b>35.38</b>	<b>6.72</b>

a/ - Volume less than .01 metric ton



## Commercial Fisheries Production, 2009

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



**C. NUMBER OF MUNICIPAL FISHING BANCAS,  
BY REGION, 2000 <sup>8/</sup>**

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	3,298	3,236.42	0.90	0.39	59.90	0.22
II						
III						
IV-A						
IV-B	0.43	0.43				
V						
VI	21	20.31		0.20		0.17
VII	0.01					0.01
VIII	13.75	8.36	1.50		1.00	2.89
IX						
X						
XI						
XII						
CARAGA	17.04	3.77	0.02		4.50	8.75
ARMM						
<b>TOTAL</b>	<b>3,349.74</b>	<b>3,269.28</b>	<b>2.42</b>	<b>0.59</b>	<b>65.40</b>	<b>12.04</b>

## 2. Production from Freshwater (in MT)

### a) Fishpond

Region	Total	Tilapia	Milkfish	Carp	Catfish	Mudfish	Gourami	Fresh-water Shrimp (Ulang)	Others
NCR									
CAR	1,829.01	1,827.35		0.28	0.01	0.02			1.35
I	5,301.20	5,221.01	1.77	18.20	8.19	39.88	2.10		10.05
II	7,538.83	7,374.98		20.55	68.62	38.04	1.18	0.24	35.22
III	120,307.37	118,502.29		192.02	976.09	445.92	164.17	21.46	5.42
IV-A	1,728.46	1,543.69		20.04	137.47	26.60		0.66	
IV-B	570.03	568.98						1.05	
V	1,573.76	1,443.60			130.16				
VI	1,265.25	577.54			684.88	0.19		0.08	2.56
VII	178.59	175.23		0.11	3.10	0.15			
VIII	278.76	274.81						3.95	
IX	159.94	109.75			10.45	39.74			
X	1,358.02	1,101.46		185.32	5.08	65.93	0.10		0.13
XI	1,303.01	805.25		2.83	459.65	33.17	1.39	0.01	0.71
XII	936.42	636.95		0.18	240.09	57.13	1.69		0.38
CARAGA	193.85	178.37		11.09	0.79	3.39			0.21
ARMM	201.61	80.81			120.80				
<b>TOTAL</b>	<b>144,724.13</b>	<b>140,422.08</b>	<b>1.77</b>	<b>450.62</b>	<b>2,845.38</b>	<b>750.18</b>	<b>170.63</b>	<b>27.45</b>	<b>56.02</b>

## B. MARINE MUNICIPAL FISH CATCH, BY MAJOR FISH SPECIES, 2009

Major Species	Total	% to Total
Frigate Tuna (Tulingan)	70,844.88	6.1
Big-eyed Scad (Matang-baka)	67,402.39	5.8
Roundscad (Galunggong)	72,036.78	6.2
Indian Sardines (Tamban)	63,750.69	5.5
Indian Mackerel (Alumahan)	49,316.87	4.3
Anchovies (Dilis)	55,531.09	4.8
Yellowfin tuna (Tambakol)	60,997.16	5.3
Squid (Pusit)	48,192.93	4.2
Fimbriated Sardines (Tunsoy)	61,956.94	5.3
Slipmouth (Sapsap)	39,355.41	3.4
Others	570,536.89	49.2
<b>Total</b>	<b>1,159,922.03</b>	<b>100.0</b>

**A. MUNICIPAL FISHERIES PRODUCTION, BY REGION, 2009  
(in MT)**

Region	Marine	Inland	Total
NCR	4,215.36		4,215.36
CAR		940.21	940.21
I	44,012.90	6,111.67	50,124.57
II	20,879.85	11,589.46	32,469.31
III	28,637.18	13,313.53	41,950.71
IV-A	39,099.35	83,134.43	122,233.78
IV-B	218,379.24	1,006.79	219,386.03
V	133,120.43	6,044.91	139,165.34
VI	160,326.14	8,610.46	168,936.60
VII	54,493.22	233.98	54,727.20
VIII	93,670.24	1,630.85	95,301.09
IX	125,987.94	1,095.03	127,082.97
X	38,944.86	3,447.26	42,392.12
XI	26,445.54	140.81	26,586.35
XII	22,599.70	26,045.93	48,645.63
CARAGA	65,794.14	4,586.75	70,380.89
ARMM	83,315.94	20,789.87	104,105.81
<b>TOTAL</b>	<b>1,159,922.03</b>	<b>188,721.94</b>	<b>1,348,643.97</b>

**b) Fish cage**

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	341.88	278.30		63.58		
CAR	1,459.50	1,459.50				
I	36.55	36.55				
II	942.97	942.97				
III						
IV-A	88,866.26	71,149.42	16,010.88	1,702.48	3.48	
IV-B						
V	7,890.22	7,873.27		16.95		
VI	3.45	2.05			1.40	
VII	7.83	7.83				
VIII	46.57	38.17	8.40			
IX						
X	0.56	0.56				
XI	2.24	2.24				
XII	1,660.29	1,660.26				0.03
CARAGA	119.65	119.65				
ARMM	232.99	178.07	54.92			
<b>TOTAL</b>	<b>101,610.97</b>	<b>83,748.84</b>	<b>16,074.20</b>	<b>1,783.02</b>	<b>4.88</b>	<b>0.03</b>

### c) Fish pen

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	1,183.08		1,183.08			
CAR	-					
I	0.31	0.31				
II	-					
III	-					
IV-A	43,828.58	11,538.14	18,852.33	13,438.11		
IV-B	-					
V	-					
VI	0.08	0.02				0.06
VII	-					
VIII	6.96	6.96				
IX	0.29	0.29				
X	-					
XI	25.53	25.53				
XII	12,436.53	6,377.38	6,059.15			
CARAGA	-					
ARMM	4,520.94	3,563.65	944.29	13.00		
<b>TOTAL</b>	<b>62,002.28</b>	<b>21,512.26</b>	<b>27,038.85</b>	<b>13,451.11</b>	<b>-</b>	<b>0.06</b>

### d) Small-farm Reservoir

Region	Total	Tilapia	Carp	Catfish	Gourami	Mudfish	F. Shrimp (Ulang)	White Shrimps	Others
I	3.14	2.90	0.01	0.09	0.02	0.12			
II	118.14	94.57	5.84	4.09	3.59	6.58	1.46	2.00	
III	5.60	3.84		0.93		0.83			
VI	4.10	2.85		1.25					
VII	10.74	10.39	0.03	0.13		0.19			
X	0.87	0.62				0.25			
XII	4.79	3.35	0.05	0.58	0.30	0.51			
<b>TOTAL</b>	<b>147.38</b>	<b>118.53</b>	<b>5.93</b>	<b>7.07</b>	<b>3.91</b>	<b>8.48</b>	<b>1.46</b>	<b>2.00</b>	<b>0.00</b>

### e) Rice Fish

Region	Total	Tilapia	Carp	Catfish	Gourami	Mudfish	Others
I	3.61	1.42	0.32	0.19	0.16	1.32	0.20
VI	0.93	0.93					
VIII	0.07	0.03				0.04	
XI	0.22	0.22					
<b>TOTAL</b>	<b>4.83</b>	<b>2.60</b>	<b>0.32</b>	<b>0.19</b>	<b>0.16</b>	<b>1.36</b>	<b>0.20</b>



## Municipal Fisheries Production, 2009

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 <sup>7/</sup>

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	38,112.99	38,104.88	3.80								4.31
II											
III	2,120.89	2,112.63									8.26
IV-A	1.04		1.04								
IV-B	445.49	1.22	444.14		0.05	0.08					
V	13.17		5.94			7.23					
VI	43.73	12.10	22.92		7.25	0.73				0.22	0.51
VII	552.20	543.71	4.66		0.62				0.06		1.95
VIII	6,842.30	6,689.01	136.98				9.00			7.30	
IX	132.43	125.37				3.29					
X	1,318.64	1,317.79	0.08				0.62				
XI	7,469.37	7,435.09	0.69			1.25					0.95
XII	1,740.39	1,377.29	1.69			17.22					344.19
CARAGA	227.07	168.77	22.81					18.50			
ARMM	6.43		5.28			1.15					
<b>TOTAL</b>	<b>59,026.14</b>	<b>57,762.47</b>	<b>775.41</b>	<b>53.51</b>	<b>7.92</b>	<b>30.94</b>	<b>9.62</b>	<b>18.50</b>	<b>0.06</b>	<b>7.52</b>	<b>360.17</b>

**b) Fish pen**

Region	Total	Milkfish	Grouper	Siganid	Snapper	Spiny			Shovel-		Others
						Cavalla	Lobster	Tiger	Tilapia	Nosed	
NCR	-										
I	10,211.05	10,209.86	1.19								
II	0.00										
III	0.00										
IV-A	0.00										
IV-B	0.00										
V	69.00	69.00									
VI	1,160.82	1,160.40			0.20	0.22					
VII	94.74	93.75	0.74				0.17	0.08			
VIII	40.45	8.45		32.00							
IX	0.00										
X	0.48			0.27							0.21
XI	9,849.00	9,848.76							0.24		
XII	0.00										
CARAGA	141.26	0.12	78.93	15.26			44.89			2.06	
ARMM	7.51		5.80			1.31	0.40				
<b>TOTAL</b>	<b>21,574.30</b>	<b>21,390.33</b>	<b>86.66</b>	<b>47.53</b>	<b>0.20</b>	<b>1.53</b>	<b>45.29</b>	<b>0.17</b>	<b>0.32</b>	<b>2.06</b>	<b>0.21</b>

**D. MAJOR SPECIES PRODUCED IN  
AQUACULTURE FISHERIES, 2009**

Species	Quantity (MT)	Percent (%)
Seaweeds	1,739,994.97	70.23
Milkfish	347,587.52	14.03
Tilapia	260,911.05	10.53
Shrimps/Prawns	50,866.62	2.05
Others	78,031.90	3.15
<b>Total</b>	<b>2,477,392</b>	<b>100.00</b>

### Seaweeds

Region	Total
NCR	
CAR	
I	189.95
II	2,272.84
III	177.87
IV-A	60,990.88
IV-B	450,937.17
V	52,684.76
VI	54,256.43
VII	121,273.17
VIII	22,919.62
IX	225,057.24
X	38,879.91
XI	4,344.19
XII	265.95
CARAGA	22,660.16
ARMM	683,084.83
<b>TOTAL</b>	<b>1,739,994.97</b>

### 4. Production from Mariculture (in MT)

Region	Total	Oyster	Mussels	Seaweeds
NCR	139.87		139.9	
CAR	-			
I	5,946.36	4,979.2	777.2	190.0
II	2,800.02	527.2		2,272.8
III	5,672.89	3,425.6	2,069.4	177.9
IV-A	65,964.72	676.7	4,297.2	60,990.9
IV-B	450,943.17		6.0	450,937.2
V	52,684.76			52,684.8
VI	72,277.70	8,820.9	9,200.4	54,256.4
VII	121,717.39	444.2		121,273.2
VIII	26,399.71	34.0	3,446.1	22,919.6
IX	225,691.00	633.5	0.3	225,057.2
X	38,883.19	3.1	0.1	38,879.9
XI	4,730.34	386.2		4,344.2
XII	265.95			266.0
CARAGA	22,660.16			22,660.2
ARMM	683,084.83			683,084.8
<b>TOTAL</b>	<b>1,779,862.06</b>	<b>19,930.59</b>	<b>19,936.50</b>	<b>1,739,994.97</b>

**C. AQUACULTURE PRODUCTION OF MAJOR COMMODITIES BY CULTURE ENVIRONMENT AND BY REGION, 2009**  
(In Metric Tons)

**Milkfish**

Region	Total	Brackishwater		Freshwater		Marine	
		Fishpond	Fish cage	Fishpond	Fish cage	Fish cage	Fish pen
NCR	1,594.29	411.21					
CAR							
I	68,891.28	16,252.17	1,086.19	3,236.42			
II	747.48	724.28	23.20				
III	61,392.36	59,279.73			1.77		
IV-A	44,682.95	9,819.74					
IV-B	3,832.34	3,828.92	1.77	0.430	16,010.88	18,852.33	
V	3,812.61	3,743.61					1.22
VI	77,190.38	75,997.57		20.305			69.00
VII	7,345.25	6,697.85	9.94				12.10
VIII	12,020.86	5,290.24	16.40	8.359			543.71
IX	11,445.65	11,445.65			8.40		6,689.01
X	11,739.89	10,422.00	0.10				1,317.79
XI	22,143.42	4,793.18	66.39				7,435.09
XII	14,878.56	7,442.12					1,377.29
CARAGA	2,275.36	1,233.24	869.46	3.765			168.77
ARMIM	3,594.85	2,595.64			54.92	944.29	
<b>TOTAL</b>	<b>347,587.52</b>	<b>219,977.15</b>	<b>2,073.45</b>	<b>3,269.28</b>	<b>1.77</b>	<b>16,074.20</b>	<b>57,762.48</b>
							<b>21,390.34</b>

**Tilapia**

Region	Total	Brackishwater		Freshwater		Small-farm		Marine	
		Fishpond	Fish cage	Fish pond	Fish cage	Reservoir	Rice Fish	Fish cage	Fish pen
NCR	336.09	57.79							
CAR	3,286.85								
I	6,577.27	1,211.25	43.93	59.90	278.30				
II	11,279.69	2,803.27	63.90		1,827.35	1,459.50			
III	125,238.09	6,731.96			5,221.01	36.55	2.90		
IV-A	84,231.25				7,374.98	942.97	94.57		
IV-B	571.23	2.25			118,502.29		3.84		
V	9,465.54	148.67			1,543.69	71,149.42	11,538.14		
VI	1,238.64	654.96	0.07		568.98				
VII	328.82	135.30			1,443.60	7,873.27			
VIII	398.48	67.16	3.05	1.00	577.54	2.05	0.02	0.93	0.22
IX	2,280.72	2,170.68			175.22	7.83	10.39		
X	1,540.61	437.97			274.81	38.17	6.96		0.08
XI	922.08	88.60			109.75	0.56	0.29		
XII	8,899.99	222.05			1,101.46	0.56	0.62		
CARAGA	336.07	31.57	1.98	4.50	805.25	2.24	25.53		
ARMIM	3,979.62	157.09			636.95	1,660.26	6,377.38		
<b>TOTAL</b>	<b>260,911.05</b>	<b>14,920.58</b>	<b>112.93</b>	<b>65.40</b>	<b>140,422.06</b>	<b>83,748.84</b>	<b>21,512.28</b>	<b>118.53</b>	<b>2.60</b>
									<b>0.32</b>