



Department of Agriculture

BUREAU OF FISHERIES AND AQUATIC RESOURCES

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PHILIPPINE FISHERIES PROFILE, 2008



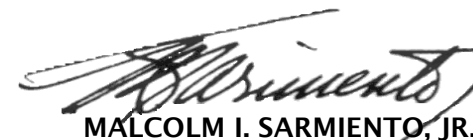
BUREAU OF FISHERIES AND AQUATIC RESOURCES

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 pleased to produce the yearly Fisheries Profile.

This useful and handy publication is produced to address the fishery sector's need for a reliable and ready-to-use data intended for all concerned users—the decision and policy makers, students, researchers, among others. It offers a range of information that highlights the previous year's 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.

I congratulate and give credit to those who made this publication possible, to the collective effort of the agencies involved. This Profile is created with the hope that it will serve as an effective tool in reaching out to the industry's clientele and satisfying their need in search for reliable information about the fisheries industry.



MALCOLM I. SARMIENTO, JR.

Director



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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, 2007- 2008^{12/}**
(pesos per kilogram)

Species	2007		2008	
	Wholesale	Retail	Wholesale	Retail
1. Indian mackerel (Alumahan)	72.07	93.52	81.04	102.2
2. Milkfish (Bangus)	75.45	96.46	85.22	104.93
3. Threadfin bream (Bisugo)	85.86	121.14	92.08	130.43
4. Blue crab (Alimasag)	109.17	143.68	114.93	156.72
5. Caesio (Dalagang Bukid, lapad)	81.62	122.78	95.58	129.85
5. Anchovies (Dilis)	43.77	66.85	48.4	71.39
6. Roundscad (Galunggong)	52.47	74.97	61.08	84.04
7. Slipmouth (Sapsap)	54.51	102.86	61.45	108.91
9. Endeavor prawn (Shrimp, Suaje)	238.94	259.23	233.28	264.32
10. Tilapia	56.32	74.11	62.12	80.38
11. Frigate tuna (Tulingan)	62.21	75.49	75.16	87.56
12. Shrimp, Tiger prawn (sugpo)	372.54	409.18	373.66	415.32

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D. WORLD AQUACULTURE PRODUCTION OF AQUATIC PLANTS BY PRINCIPAL PRODUCERS IN 2007 ^{11/}

Major Countries	Volume (MT)	% Share	Value (US\$' 000)	% Share
1. China	9,752,645	65.64	5,250,346	69.64
2. Indonesia	1,728,475	11.63	392,980	5.21
3. Philippines	1,505,070	10.13	136,843	1.82
4. Korea Rep.	792,953	5.34	332,524	4.41
5. Japan	513,500	3.46	1,106,940	14.68
6. Korea D P Rp.	444,300	2.99	244,365	3.24
7. Vietnam	38,000	0.26	19,000	0.25
8. Malaysia	30,000	0.20	4,500	0.06
9. Chile	23,298	0.16	37,277	0.49
10. Other Countries	30,550	0.21	14,239	0.19
World Total	14,858,791	100	7,539,014	100

C. WORLD AQUACULTURE PRODUCTION OF FISH, CRUSTACEANS, MOLLUSCS, etc. BY PRINCIPAL PRODUCERS IN 2007^{11/}

Major Countries	Volume (MT)	% Share	Value (US\$ '000)	% Share
1. China	31,420,275	62.43	39,684,662	45.61
2. India	3,354,754	6.67	4,383,498	5.04
3. Vietnam	2,156,500	4.28	4,525,750	5.20
4. Indonesia	1,392,904	2.77	2,461,909	2.83
5. Thailand	1,390,031	2.76	2,432,761	2.80
6. Bangladesh	945,812	1.88	1,522,552	1.75
7. Norway	830,190	1.65	2,977,742	3.42
8. Chile	829,842	1.65	5,277,272	6.06
9. Japan	765,846	1.52	3,172,949	3.65
10. Philippines	709,715	1.41	1,234,199	1.42
11. Egypt	635,516	1.26	1,192,614	1.37
12. Korea Rep	606,122	1.20	1,576,875	1.81
13. Other Countries	5,291,500	10.51	16,569,780	19.04
World Total	50,329,007	100.00	87,012,563	100.00

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World Scenario: *Philippine Fisheries*

- In 2007, the Philippines ranked 8th among the top fish producing countries in the world with its total production of 4.71 million metric tons of fish, crustaceans, mollusks, and aquatic plants (including seaweeds). The production constitutes 3.02% of the total world production of 156.36 million metric tons (*FAO website*).
- The Philippines' 0.710 million metric tons aquaculture production of fish, crustaceans and mollusks in 2007 ranked 10th in the world and a 1.4% share to the total global aquaculture production of 50.3 million metric tons. In terms of value, the country's aquaculture production of fish, crustaceans and mollusks has amounted to over 1.23 billion dollars (*FAO website*).
- Similarly, the Philippines is the world's 3rd largest producer of aquatic plants (including seaweeds) having produced a total of 1.5 million metric tons or nearly 10.1% of the total world production of 14.86 million metric tons (*FAO website*).

Contribution to National Economy, 2008

- The fishing industry's contribution to the country's Gross Domestic Products (GDP) were 2.3% and 4.3% at current and constant prices, respectively. This translates to some P170.4 billion for current prices and P61.8 billion for constant prices of the country's GDP of P7,498 billion (current prices) and P1,432 billion (constant prices).
- The industry also accounted for 15% (P170.4 billion) and 24% (P61.8 billion) of the Gross Value Added (GVA) in Agriculture, Fishery and Forestry Group of P1,102 billion and P259 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, 2007 ('000 MT)

Major Countries	TOTAL		Fish, Crustaceans & Molluscs		Aquatic Plants (includes seaweeds)		
	MT	% share	Capture	Aquaculture	Capture	Aquaculture	Total
1. China	56,160,556	35.92	14,659,036	31,420,275	328,600	9,752,645	10,081,245
2. Indonesia	8,063,238	5.16	4,936,629	1,392,904	5,230	1,728,475	1,733,705
3. India	7,308,233	4.67	3,953,476	3,354,754		3	3
4. Peru	7,260,861	4.64	7,210,544	39,531	10,786	-	10,786
5. Japan	5,594,147	3.58	4,211,201	765,846	103,600	513,500	617,100
6. USA	5,296,149	3.39	4,767,596	526,281	2,272	-	2,272
7. Chile	4,995,697	3.20	3,806,085	829,842	336,472	23,298	359,770
8. Philippines	4,714,770	3.02	2,499,634	709,715	351	1,505,070	1,505,421
9. Viet Nam	4,315,900	2.76	2,121,400	2,156,500	-	38,000	38,000
10. Thailand	3,858,815	2.47	2,468,784	1,390,031	-	-	-
11. Russian Fed	3,588,311	2.29	3,454,214	105,503	28,294	300	28,594
12. Norway	3,343,811	2.14	2,378,950	830,190	134,671	-	134,671
13. Korea Rep.	3,275,470	2.09	1,858,206	606,122	18,189	792,953	811,142
14. Other Countries	38,580,639	24.67	31,738,096	6,201,513	136,483	504,547	641,030
World Total	156,356,597	100.00	90,063,851	50,329,007	1,104,948	14,858,791	15,963,739

A. 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 2008 reached 4,966,889.2 metric tons. Fisheries production grew remarkably by 40% from 3.62 million metric tons in CY 2003 to 4.967 million metric tons in CY 2008. Average annual production growth rate within that period was registered at 7%. In terms of value, the 2008 fisheries production was valued at 215.8 billion pesos as compared with the 119.9 billion pesos in 2003, an average yearly increment of 11 billion pesos.
- The 2008 fisheries production also showed a remarkable 5% increase from the previous year's production of 4.711 million metric tons. The 2008 production was valued at 215.8 billion pesos, 20% higher than the 180.5 billion pesos production value of the preceding year.
- The outstanding performance of the fishing industry was attributed to the excellent growth in production of the three (3) sectors. The aquaculture sector posted the highest growth with 48.5% (2.408 million MT) followed by the municipal sector with 26.8% (1.333 million MT), and the commercial sector with 24.7% increase (1.226 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% or 852,943.9 metric tons share to the total fisheries production, where seaweed was the major commodity produced followed by Region IV-B (MIMAROPA) with a 15% share

or 740,239 metric tons. Region IX recorded output of 644,386 metric tons or 13% to the total fisheries production.

- In terms of value, the industry has attained a 19.5% increase from P180.5 billion in 2007 to P215.8 billion in 2008. The top three (3) regions were Region III with P27.46 billion, followed by Region VI with P22.75 billion and Region IX with P20.57 billion.
- The Aquaculture fisheries sub-sector contributed the highest value of about P81.67 billion or 37.8 %. Next is municipal fisheries sub-sector with a total production of P 70.97 billion. Total fish caught by marine fishermen was valued at P63.87 billion while inland fisheries production was valued at P7.1 billion. The commercial sub-sector contributed P63.17 billion or 29.3% to the total fishery output.

Fisheries Export and Import Performance

Exports

- Foreign trade performance of the fishery industry in 2008 registered a net surplus of 573 million dollars – total export value of 768 million US dollars and import value of 195 million US dollars.
- Moreover, export volume increased by 19% with 205,274 MT in 2008 as compared to the 173,076 MT of fish and fishery products the country has exported in 2007. The three major export commodities (tuna, seaweeds, shrimp/prawn,) combined for 68% (140,049 MT) of the total export volume (205,274 MT) and 74% (US\$568.6 million) of the total export value (US\$ 769.6 million) in 2008.
- Tuna remained as the top export commodity with a collective volume of 106,179 MT for fresh/chilled/frozen, smoked/dried, and canned tuna products valued at US \$377.95 million. Canned tuna, though, constitutes bulk of tuna products being exported. In general, tuna export went up by 41% in terms of volume and 73% in terms of value. Major markets for this

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.

commodity include USA, Germany and Japan.

- Seaweeds came 2nd on export value with an increase of 33% from US\$91.85 million in 2007 to US\$ 122.03 million in 2008 or 16% share to the total export earnings for that year. Carrageenan remains the major product being shipped abroad comprising 79% of the total seaweed export value. USA, UK and Germany are among the major markets for Philippine seaweed products.
- Shrimp/Prawn ranked 3rd with a total contribution of US\$68.8 million to the total export value, lower than last years export earnings of \$86.5 million. Most of the shrimps/prawns are exported in fresh/chilled/frozen form with a total value of US\$ 68.3 million or 99% of the total shrimp/prawn export revenue. The 2008 shrimp/prawn exports, however, decreased by 29% in volume (MT) and 20% in value (USD) from the previous year's export. Japan, Taiwan 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 87% or US\$ 666 million of the total US\$ 769.6 million export revenues. Other commodities accounted for the remaining 13% 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%; Japan, 13%; Germany, 9.6%; Hongkong 5.4%; UK, 4.7%; Thailand, 3.3%; France, 3.2%; Spain, 3.1% ; Netherland 2.6% and Taiwan (ROC) 2.4%. Other countries have a cumulative share of 28%.

Imports

- 60% of the total import value for 2008 was contributed by three major commodities in chilled/frozen fish, 48% , prawn feeds, 3%; as well as flour, meals and pellets of fish, crustaceans, and mollusks fit and unfit for human consumption, 9 %. These commodities have an aggregated value of US\$ 116.85 million

out of the US\$ 193.3 million total import value.

- Prawn feeds were mostly sourced from Thailand, 85%; Taiwan, (ROC) 8%; Singapore, 3.6 %; China, 1%; Netherlands, 0.23%; Belgium, 0.9%; and USA, 0.07%; with a total of \$ 5.99 million on import value.
- Chilled/frozen fish comprise of tuna, mackerel and sardines with a total of US\$ 92.9 million . Tuna has an import value of US \$59.31 million, the largest among the three major import with a share of 64%. These were mostly supplied by Papua New Guinea 28 %; Taiwan (ROC) 21%; Japan 6.5%; Singapore, 2% and Marshall Island, 3%. Other fishery imports include mackerel, 36% and sardines 0.44%.
- In terms of value, in general, the Philippine fishery imports originated from the following major countries: Indonesia, 17%; China, 15%; Papua New Guinea, 14%; Taiwan (ROC), 12%; Japan 7% ; USA, 5%; Peru 4%; Thailand, 4%; and Vietnam, 3%. Other countries contributed 16% to the total import value of fish and fishery products.



Other Fishery Information

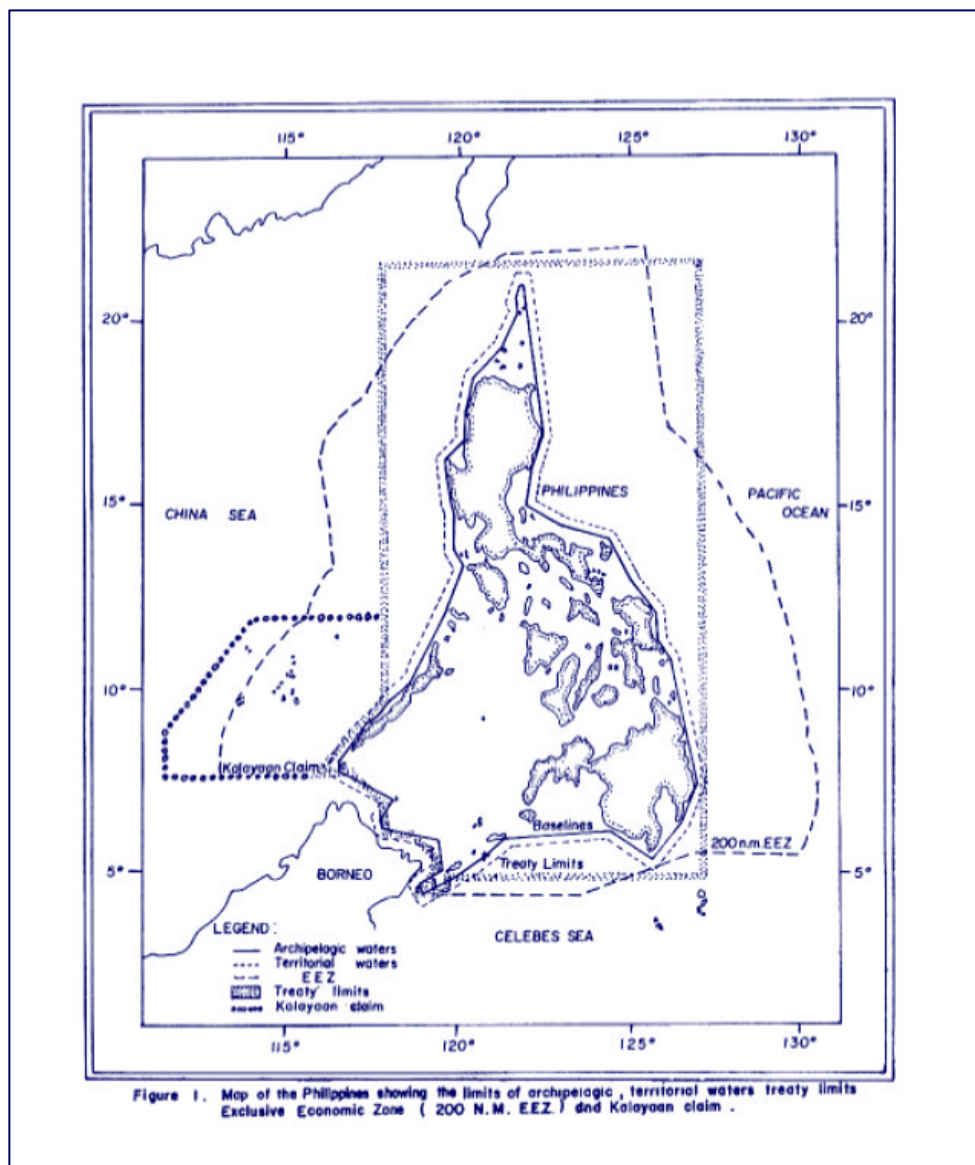
3. Fishery Imports, by Major Country of Origin in Terms of Value, 2008

Major Countries	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
Indonesia	18,675	33,698	1,510,338
China, People'S Republic Of	58,065	28,709	1,286,733
Papua New Guinea	16,747	26,561	1,190,455
Taiwan (Republic Of China)	22,522	24,010	1,076,150
Japan (Excludes Okinawa)	15,386	13,490	604,613
United States Of America	12,765	9,380	420,407
Peru	8,795	7,797	349,461
Thailand	7,678	7,560	338,833
Vietnam	4,137	6,234	279,407
Korea, Republic Of South	11,167	5,024	225,170
Chile	5,299	4,037	180,930
Denmark	1,076	3,796	170,152
Singapore	2,859	3,759	168,478
Marshall Islands, Rep. Of	1,840	2,845	127,521
Norway	1,130	2,008	89,978
Italy	4,456	1,746	78,236
Germany	1,393	1,008	45,173
Malaysia	1,137	816	36,559
Australia	1,087	748	33,522
Spain	965	459	20,573
Total Major Countries	197,179	183,683	8,232,690
Other Countries	11,191	9,617	431,031
Total	208,370	193,300	8,663,721



Fishery Resources Fisheries Contribution To The Economy, 2008

Philippine Marine Jurisdictional Boundaries



Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
2. Prawn feeds	7,130	5,987	268,349
Taiwan	1,471	485	21,727
China, People'S Rep. Of	48	57	2,571
U S A	2	4	181
Thailand	5,160	5,070	227,221
Netherlands	11	14	615
Belgium	6	55	2,483
Singapore	289	215	9,657
Others	143	87	3,894
3. Flour, meals & pellets of fish, crustaceans & molluscs fit or unfit for human consump	24,083	17,945	804,307
Peru	6,243	6,267	280,875
Chile	1,096	1,068	47,870
U S A	4,422	3,341	149,748
Thailand	1,246	886	39,728
Australia	659	445	19,960
Denmark	725	962	43,098
Malaysia	41	18	802
China, People's Rep. of	39	33	1,500
New Zealand	452	269	12,053
Taiwan	291	114	5,130
Argentina	563	576	25,830
Germany	1,199	698	31,299
Korea, Rep. of South	161	94	4,212
Netherlands	53	35	1,547
Hongkong	4	5	228
Others	6,889	3,133	140,427
Total major imports	147,178	116,852	5,237,319
Other Commodities	61,192	76,448	3,426,402
Grand Total	208,370	193,300	8,663,721

2. Major Fishery Imports in Terms of Value, 2008

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
1. Chilled/Frozen Fish	115,965	92,920	4,164,663
A. Tuna	37,765	59,314	2,658,471
Indonesia	1,832	1,314	58,875
Taiwan	11,429	19,394	869,247
Papua New Guinea	16,450	26,352	1,181,114
Japan (Excludes Okinawa)	3,922	6,000	268,907
Korea,	502	472	21,153
Micronesia	243	233	10,452
Singapore	1,012	1,908	85,529
China, People'S Rep. Of	50	38	1,681
Thailand	66	73	3,278
Marshall Islands	1,812	2,821	126,417
Others	447	710	31,818
B. Mackerel	77,245	33,192	1,487,661
China, People'S Rep. Of	51,207	20,596	923,095
Japan	10,307	5,411	242,519
Taiwan	8,171	3,032	135,893
Korea	5,360	2,072	92,882
U S A	585	285	12,792
Malaysia	107	44	1,977
Pakistan	456	162	7,253
Thailand	1	1	64
Germany	56	26	1,156
Indonesia	744	1,459	65,378
Others	251	104	4,652
C. Sardines	955	413	18,531
Mexico	98	33	1,472
Morocco	220	102	4,569
U S A	214	85	3,805
Indonesia	405	155	6,965
Others	18	38	1,720

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)	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
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, 2008

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

1. At Current Prices	2.3%
2. At Constant Prices	4.3%

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

Industry Group	At Current Prices (P M)	% to Agricultural Sector	At Constant Prices (P M)	% to Agricultural Sector
1. Agricultural crops (Palay, corn, coconut ,etc)	668,057	60.6	129,846	50.1
2. Livestock	131,928	12.0	28,774	11.1
3. Poultry	76,205	6.9	26,251	10.1
4. Agricultural activities	51,387	4.7	11,364	4.4
5. Fishery	170,400	15.5	61,792	23.8
6. Forestry	4,487	0.4	1,384	0.5
Total	1,102,465	100.0	259,410	100.0

B. IMPORTS ^{5/}

1. Import of Fish and Fishery Products By Kind, Quantity and Value, 2008

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
● Fish Crustaceans, Mollusks, etc. and Preparation	158,856	125,850	5,640,582
a. Fish fresh (live or dead) chilled or frozen	128,944	107,472	4,816,877
b. Fish, dried, salted or in brine, smoked fish	132	302	13,547
c. Crustaceans, mollusks and aquatic invertebrates	28,072	15,441	692,049
d. Fish and other aquatic invertebrate, prepared/ preserved	1,708	2,635	118,109
● Shells and By-Products	782	356	15,951
● Miscellaneous and Other Fishery Products	48,732	67,095	3,007,188
Grand Total	208,370	193,300	8,663,721

Note: Figures may not add up due to rounding off

Major Fisheries Export in Terms of Value, 2008

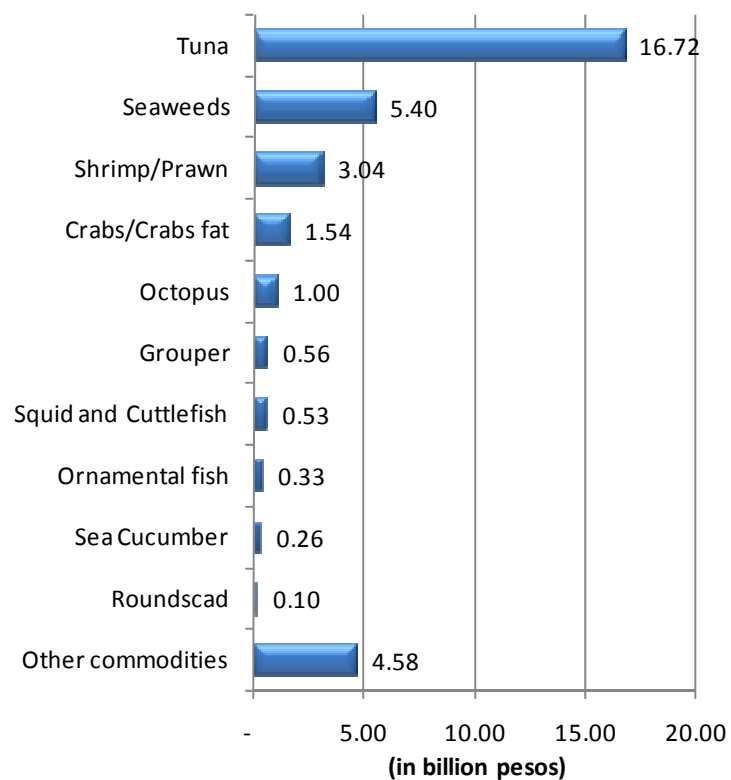


Figure 5

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/}

	2008			2007		
	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)
Fishery Exports	205,274	34,039	768	173,076	26,239	570
Fishery Imports	208,370	8,663	195	200,136	6,986	152
Trade Balance	(3,096)	25,376	573	(27,060)	19,253	418

E. Total Fish Production, by Sector, 2008

Sector	Quantity (MT)	%	Value Current Prices ('000 P)	%
1. Aquaculture	2,407,697.92	48.5	81,669,481	37.8
2. Municipal Fisheries	1,332,986.38	26.8	70,973,919	32.9
3. Commercial Fisheries	1,226,204.88	24.7	63,170,103	29.3
Total	4,966,889.2	100.0	215,813,503	100.0

4. Fishery Exports, by Major Country of Destination in Terms of Value, 2008

Country/Destination	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
United States Of America	48,353	191,898	8,487,646
Japan (Excludes Okinawa)	17,493	99,558	4,403,461
Germany	18,478	73,503	3,251,053
Hongkong	11,922	41,414	1,831,732
Uk Great Britain And N. Ireland	9,876	36,483	1,613,639
Thailand	9,233	25,260	1,117,261
France	8,446	24,597	1,087,946
Spain	7,921	23,730	1,049,569
Netherlands	5,667	20,297	897,721
Taiwan (Republic Of China)	6,631	18,700	827,094
Canada	3,922	16,174	715,370
Belgium	2,715	13,492	596,738
Korea, Republic Of South	4,172	11,921	527,265
Singapore	3,129	11,862	524,637
Kuwait	2,928	11,233	496,826
Israel	1,999	9,193	406,585
China, People'S Rep Of	4,870	8,856	391,700
Denmark	1,543	8,490	375,499
Italy	2,812	8,432	372,962
Australia	1,561	7,212	318,985
Total Major Countries	173,671	662,304	29,293,690
Other Countries	31,603	107,277	4,744,857
Grand Total	205,274	769,581	34,038,547

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
3. Shrimp/Prawn	7,622	68,780	3,042,157
Frozen	7,082	65,007	2,875,266
Japan	3,694	36,611	1,619,326
U S A	704	5,309	234,838
Korea	496	4,920	217,603
Hongkong	312	2,339	103,472
Netherlands	16	237	10,490
Guam	114	979	43,316
Trust Territory of the Pacific Is.	134	880	38,902
Canada	163	2,055	90,904
Taiwan	1,044	7,540	333,511
United Kingdom	8	126	5,582
Thailand	26	159	7,035
Belgium	7	107	4,733
Others	364	3,743	165,554
Fresh/chilled	477	3,305	146,178
Korea	341	2,204	97,489
Japan	13	101	4,467
HongKong	32	200	8,838
Taiwan	16	95	4,182
Guam	12	77	3,404
United Arab Emirates	59	601	26,586
Others	4	27	1,212
Other than Fresh/Chilled or Frozen	63	468	20,701
Japan	62	455	20,144
Hawaii	1	11	481
Others	-	2	76
Prepared and Preserved	a/	0.3	12
Total (3) major commodities	140,049	568,761	25,156,295
Total other commodities	65,225	200,820	8,882,252
Grand Total	205,274	769,580	34,038,547

Total Fish Production, By Sector, 2008

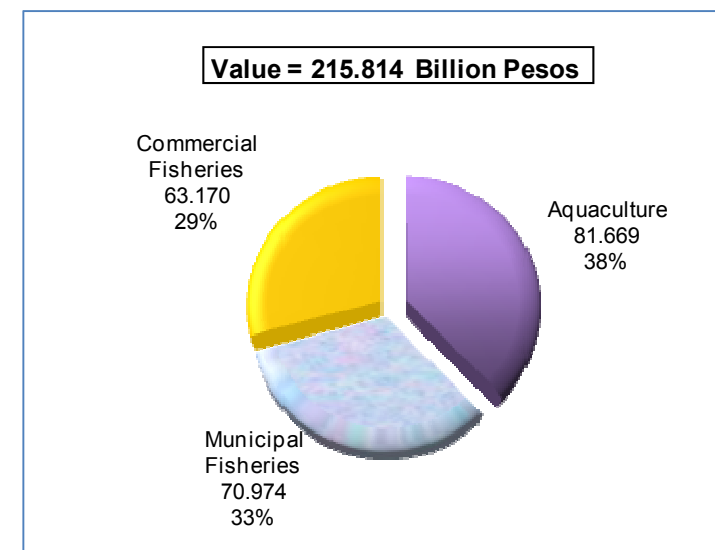
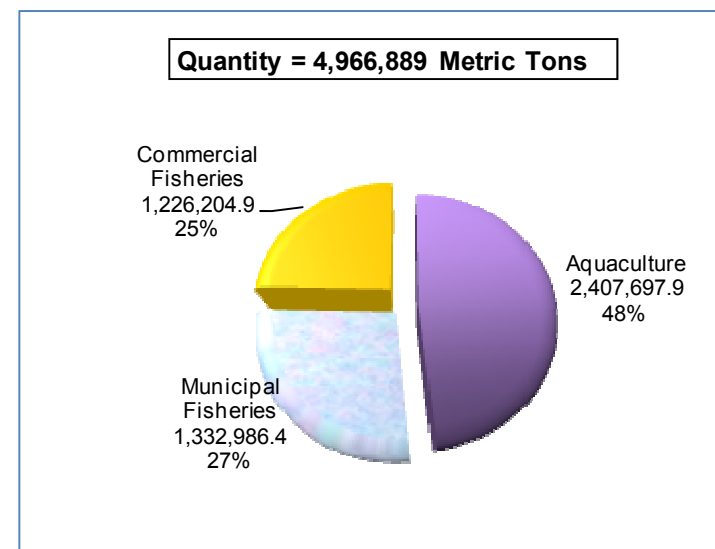


Figure 2

**F. Fish Production, by Sector and Region, 2008
in (MT)**

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	77,424.42	4,350.44	3,052.93	84,827.79	1.7
CAR	-	934.38	3,195.56	4,129.94	0.1
I	6,478.04	47,031.34	95,861.89	149,371.27	3.0
II	16,350.48	29,384.16	15,585.70	61,320.34	1.2
III	8,979.87	42,464.85	223,481.37	274,926.09	5.5
IV-A	81,862.04	123,809.87	202,478.49	408,150.40	8.2
IV-B	48,347.66	236,843.52	455,047.61	740,238.79	14.9
V	58,882.11	137,168.51	67,049.50	263,100.12	5.3
VI	111,313.62	147,361.58	142,066.42	400,741.62	8.1
VII	52,557.23	51,336.20	121,527.74	225,421.17	4.5
VIII	73,245.27	88,428.19	37,902.45	199,575.91	4.0
IX	277,230.04	126,174.98	240,981.29	644,386.31	13.0
X	46,462.24	42,996.54	60,356.40	149,815.18	3.0
XI	15,181.49	31,985.10	22,699.60	69,866.19	1.4
XII	255,770.66	46,520.88	24,620.56	326,912.10	6.6
CARAGA	7,214.89	76,888.59	27,058.58	111,162.06	2.2
ARMM	88,904.82	99,307.25	664,731.82	852,943.89	17.2
Total	1,226,204.88	1,332,986.38	2,407,697.92	4,966,889.18	100.00

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
2. Seaweeds	26,248	122,030	5,397,407
Euचेuma Chips	2,882	4,544	200,975
France	1,559	2,396	105,953
Canada	48	218	9,663
United States Of America	423	262	11,588
Hongkong	99	103	4,569
Taiwan (Republic Of China)	11	18	778
Denmark	110	130	5,755
Korea, Republic Of South	95	40	1,769
China, People'S Republic Of	197	159	7,034
Spain	194	966	42,744
Chile	25	54	2,388
Argentina	120	197	8,733
Other Euचेuma	6,897	3,250	143,755
Other Seaweeds, Fresh, Chilled/Frozen	3,644	17,567	776,988
United States Of America	800	4,672	206,632
Thailand	454	3,442	152,218
China, People'S Republic Of	441	1,685	74,540
France	420	661	29,223
Belgium	322	1,896	83,857
Denmark	190	54	2,395
Australia	129	888	39,275
Indonesia	117	864	38,198
Vietnam	65	195	8,614
Brazil	94	454	20,102
Others	612	2,757	121,934
Carrageenan	12,825	96,669	4,275,689
United States Of America	2,155	13,822	611,328
Uk Great Britain And N. Ireland	1,013	8,772	387,967
Belgium	1,072	6,678	295,346
Germany	980	8,575	379,287
Italy	168	1,225	54,191
Spain	1,042	7,311	323,365
Thailand	265	2,486	109,968
Australia	467	3,142	138,964
Denmark	683	6,324	279,714
France	980	7,158	316,592
Others	4,000	31,177	1,378,967

3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2008

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
1. Tuna	106,179	377,950	16,716,731
Fresh/chilled/frozen	29,252	102,082	4,515,086
Japan	3,771	25,171	1,113,309
U S A	4,614	26,903	1,189,924
Indonesia	249	633	27,985
Thailand	7,562	17,111	756,829
Hongkong	332	1,457	64,455
Taiwan	82	278	12,295
Switzerland	62	334	14,751
Germany	129	801	35,411
United Arab Emirates	68	177	7,831
Hawaii	69	459	20,320
Others	12,314	28,758	1,271,976
Smoked	17	141	6,237
Australia	5	42	1,853
China, People's Rep. of	11	83	3,649
New Zealand	2	17	735
Prepared/Preserved	76,910	275,727	12,195,408
U S A	21,560	79,659	3,523,309
Singapore	1,151	4,451	196,886
Japan	853	3,836	169,653
South Africa	396	1,399	61,867
Canada	1,772	6,859	303,361
Germany	16,406	59,789	2,644,476
Taiwan	369	1,413	62,497
United Kingdom	8,337	26,588	1,175,989
Netherlands	4,987	17,626	779,577
Kuwait	2,608	10,675	472,146
Others	18,471	63,433	2,805,647

F.a. Value of Fish Production, by Sector and Region, 2008 (in '000 P)

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	4,275,811.40	305,416.50	162,902.71	4,744,130.61	2.2
CAR		80,795.40	258,877.09	339,672.49	0.2
I	525,552.96	3,618,167.85	7,658,827.08	11,802,547.89	5.5
II	1,058,587.94	2,078,798.18	1,019,179.99	4,156,566.11	1.9
III	554,287.79	2,845,603.95	24,064,419.58	27,464,311.32	12.7
IV-A	5,346,704.82	3,817,145.54	9,495,455.58	18,659,305.94	8.6
IV-B	2,038,707.20	9,851,534.84	8,751,848.02	20,642,090.06	9.6
V	2,420,809.34	7,183,550.58	1,972,153.73	11,576,513.65	5.4
VI	6,781,137.58	9,392,466.68	6,574,092.17	22,747,696.43	10.5
VII	2,745,405.92	3,403,717.85	1,500,479.79	7,649,603.56	3.5
VIII	4,149,885.45	5,655,195.22	1,624,867.59	11,429,948.26	5.3
IX	9,785,707.68	6,329,754.14	4,458,066.89	20,573,528.71	9.5
X	2,222,681.83	2,745,236.35	5,011,031.49	9,978,949.67	4.6
XI	1,222,796.79	1,907,452.14	1,595,504.11	4,725,753.04	2.2
XII	16,481,064.61	2,052,437.00	1,583,813.54	20,117,315.15	9.3
CARAGA	444,257.05	4,896,654.73	1,041,823.88	6,382,735.66	3.0
ARMM	3,116,704.87	4,809,991.93	4,896,137.32	12,822,834.12	5.9
Total	63,170,103.23	70,973,918.88	81,669,480.56	215,813,502.67	100.00

G. Fish Production, by Sector 1999-2008

1. Volume of Fish Production (in MT)

Year	Aquaculture	Municipal	Commercial	Total
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
2000	1,100,902.1	945,945.0	946,485.0	2,993,332.1
1999	1,048,679.0	926,339.0	948,754.0	2,923,772.0

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

Year	Aquaculture	Municipal	Commercial	Total
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
1999	29,046,054.0	31,034,130.0	32,242,140.0	92,322,324.0

2. Major Fishery Exports in Terms of Value, 2008

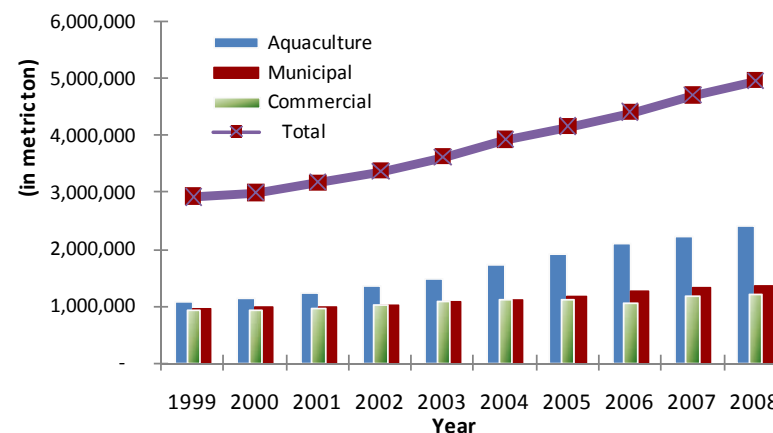
Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
1. Tuna	106,179	377,950	16,716,731
Fresh/chilled/frozen (excludes fill)	29,252	102,082	4,515,086
Smoked	17	141	6,237
Prepared/preserved	76,910	275,727	12,195,408
2. Seaweeds	26,248	122,030	5,397,407
Seaweeds and other Algae, nes.	10,541	20,817	920,743
Seaweeds for human consumptio	2,882	4,544	200,975
Carrageenan	12,825	96,669	4,275,689
3. Shrimp/Prawn	7,622	68,780	3,042,157
Fresh/ chilled or frozen	7,559	68,312	3,021,444
Dried	63	468	20,701
Prepared and preserved	a/	0	12
4. Crabs/crabs fat	3,587	34,794	1,538,919
Live, Frozen	1,689	10,006	442,560
Crab fat (Prepared/presrd)	356	6,595	291,702
Crab meat (Prepared/presrd)	1,542	18,193	804,657
5. Octopus	7,282	22,557	997,682
Dried, salted or in brine	64	135	5,968
Fresh or chilled	19	45	2,010
Frozen	7,199	22,376	989,704
6. Grouper	4,898	12,650	559,531
Live (other than fry)			
For breeding, live	1	2	74
Breeder	4,896	12,648	559,413
Other than for breeding	1	1	44
7. Squid and Cuttlefish	2,769	11,941	528,131
Live	3	13	584
Fresh/chilled/frozen/dried	2,525	11,328	501,021
Prepared/preserved	241	600	26,526
8. Ornamental Fish, Live	6,441	7,348	325,012
9. Roundscad	921	2,245	99,302
Frozen	845	2,001	88,484
Smoked	73	230	10,166
Dried	3	15	652
10. Sea Cucumber, Dried	875	5,820	257,405
Total major commodities	166,822	666,115	29,462,277
Total of other commodities	38,452	103,465	4,576,270
Grand Total	205,274	769,581	34,038,547

A. EXPORTS ^{5/}

1. Export of Fish and Fishery Products by Kind, Quantity and Value, 2008

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
A. Fish, Crustaceans, Molluscs, etc. and Preparation	170,749	639,680.556	28,293,071
A.1 Fish, fresh (live/dead), Chilled/Frozen	50,220	158,300	7,001,624
A.2 Fish, dried, salted/in brine; smoked fish	3,711	18,540	820,021
A.3 Crustaceans, molluscs and aquatic invertebrates	22,433	130,953	5,792,063
A.4 Fish and other aquatic invertebrate, prepared/ preserved	94,385	331,887	14,679,363
B. Shells and By-Products	2,430	1,827	80,790
C. Miscellaneous and other fishery products	32,095	128,073	5,664,686
Grand Total	205,274	769,581	34,038,547

Volume of Fish Production, By Sector 1999-2008



Value of Fish Production, By Sector 1999-2008

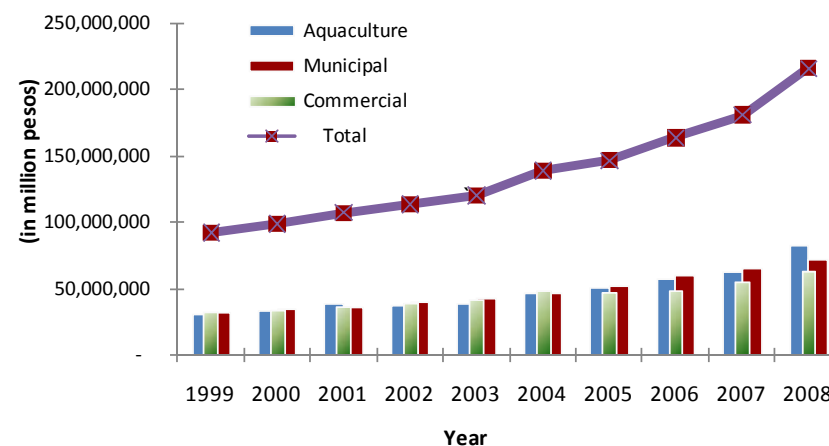


Figure 3

H. Five Year Fish Production, Trend 2004-2008

Year	Quantity (MT)	% Increase/ (Decrease)	Value ('000 P)	% Increase/ (Decrease)
2008	4,966,889	5.4	215,813,503	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
2004	3,926,173	8.5	138,846,377	15.8

Five Year Fish Production, Trend 2004-2008

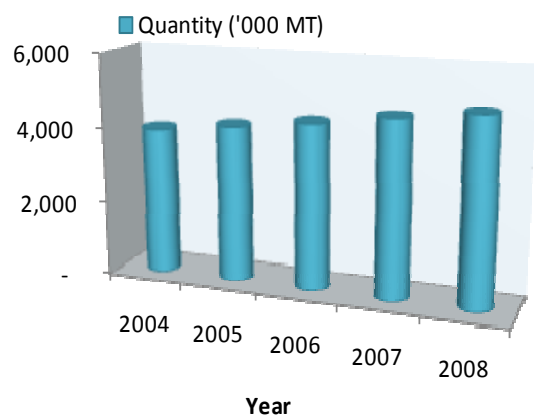


Figure 4



External Trade

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

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



Aquaculture Production, 2008

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, 2008
(In Metric Tons)

Region	Total Aquaculture	Brackishwater			Freshwater			Marine Waters			Oyster Mussel and Seaweed	SFR	Rice Fish	
		Fish-pond	Fish cage	Fish pen	Total	Fish cage	Fish pen	Total	Fish cage	Fish pen				Total
NCR	3,053	576			576	434	1,939	2,374			0	103		
CAR	3,196	0	1,667	1,528	3,196						0			
I	95,862	25,698	1,436	3,999	31,133	49	0.3	5,702	41,494	11,074	52,569	6,416	40.3	
II	15,586	4,035	212	4,248	7,381	977		8,358			0	2,881	99	
III	223,481	95,536	3	0	95,539	6	0.4	119,286	2,468	32	2,500	6,068	90	
IV-A	202,478	12,550			12,550	83,744	51,483	137,224	5	514	519	52,186		
IV-B	455,048	5,072	0.3	0	5,073	576		576	2,246		2,246	447,153		
V	67,049	5,379	1		5,380	9,054		10,876	10		10	50,783		
VI	142,066	72,172	11	10	72,193	859	1	859	40	1,076	1,116	67,881	18	
VII	121,528	8,994	11	0	9,005	133	10	143	764	53	817	111,557	5	
VIII	37,902	5,646	19	16	5,681	204	108	344	7,513	42	7,555	24,322		
IX	240,981	18,081			18,081	131		131	34		34	222,735		
X	60,356	22,738			22,738	1,323	1	1,324	457	16	473	35,821		
XI	22,700	4,900	60		4,960	1,096	3	1,119	4,395	9,231	13,626	2,995	0.2	
XII	24,621	8,432			8,432	845	20	11,680	1,709	1,709	1,709	189	1	
CARAGA	27,059	3,789	929	41	4,759	228	0.4	337	289	176	465	21,498		
ARMM	664,732	2,898			2,898	204		4,231	1	9	9	657,159		
TOTAL	2,407,698	296,496	2,681	4,067	303,244	143,398	69,388	98,017	61,425	22,221	83,647	1,709,748	253	2.2

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

B. COMMERCIAL FISHERIES PRODUCTION, BY MAJOR FISH SPECIES, 2008

Major Species	Total (MT)	% to Total
1. Roundscad (Galunggong)	212,100.46	17.3
2. Indian Sardines (Tamban)	166,995.32	13.6
3. Frigate Tuna (Tulingan)	88,244.34	7.2
4. Skipjack (Gulyasan)	181,562.92	14.8
5. Yellowfin tuna (Tambakol/Bariles)	116,528.50	9.5
6. Big-eyed Scad (Matang-baka)	38,572.76	3.1
7. Fimbriated Sardines (Tunsoy)	66,372.24	5.4
8. Slipmouth (Sapsap)	25,128.11	2.0
9. Eastern little tuna (Bonito)	38,418.39	3.1
10. Indian Mackerel (Alumahan)	37,416.67	3.1
11. Other Species	254,865.17	20.8
Total	1,226,204.88	100.0

A. COMMERCIAL FISH PRODUCTION, BY REGION AND BY TYPE OF LANDING CENTERS, 2008

Region	Total	Private	PFDA	LGU	Traditional
NCR	77,424.42	.	74,319.60	.	3,104.82
CAR
I	6,478.04	.	635.41	308.19	5,534.44
II	16,350.48	.	.	.	16,350.48
III	8,979.87	5,465.87	.	85.39	3,428.61
IV-A	81,862.04	.	12,101.25	4,527.07	65,233.72
IV-B	48,347.66	.	.	.	48,347.66
V	58,882.11	10,017.00	.	14,206.60	34,658.51
VI	111,313.62	5,855.55	1,238.66	27,231.78	76,987.63
VII	52,557.23	.	.	.	52,557.23
VIII	73,245.27	810.20	.	.	72,435.07
IX	277,230.04	78,102.65	9,588.33	18,331.45	171,207.61
X	46,462.24	.	.	5,952.68	40,509.56
XI	15,181.49	557.60	4,319.26	.	10,304.63
XII	255,770.66	154,958.63	95,766.36	.	5,045.67
CARAGA	7,214.89	.	.	.	7,214.89
ARMM	88,904.82	.	.	.	88,904.82
TOTAL	1,226,204.88	255,767.50	197,968.87	70,643.16	701,825.35

B. AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT, REGION AND SPECIES, 2008

1. Production from Brackishwater (in MT)

a) Fishpond

Region	Total	Milkfish	Tiger Prawn	W. Shrimp & Endeavor Prawn	Tilapia	Mudcrab	Grouper	Siganid	Others
NCR	576.36	438.59	5.69	0.09	131.99				
CAR	-								
I	25,698.37	23,823.63	497.05	69.12	1,182.95	15.29		51.03	59.30
II	4,035.41	821.01	87.49	174.06	2,844.02	84.04		24.79	
III	95,535.61	59,965.69	23,424.45	473.01	6,801.15	3,978.49	23.50	0.21	869.11
IV-A	12,549.55	11,893.35	198.51	332.32	43.78	51.63	8.32		21.64
IV-B	5,072.38	4,373.49	693.31	4.00	0.10	1.48			
V	5,379.41	2,543.59	774.50	304.68	134.90	1,620.37		1.36	0.01
VI	72,171.83	67,906.61	1,950.88	115.99	792.89	1,233.43	5.82		166.21
VII	8,994.05	6,383.41	2,167.24	11.65	122.60	2.12		0.20	306.83
VIII	5,645.63	4,822.87	470.81	917.48	56.77	290.77	2.91	1.50	
IX	18,081.06	9,832.39	5,372.15	917.48	1,836.56	122.48			
X	22,738.03	10,090.51	7,883.02	102.16	400.82	4,020.65		240.87	
XI	4,900.31	4,461.95	43.91	59.30	169.40	3.51		0.03	162.21
XII	8,431.57	7,713.37	319.93	174.16	231.81	0.35			166.11
CARAGA	3,788.64	2,146.51	1,231.38	174.16	56.63	179.96			
ARMM	2,897.94	2,393.26	222.11	118.13	150.87	13.57			
TOTAL	296,496.15	219,610.24	45,342.43	2,856.15	14,957.24	11,618.15	40.55	319.99	1,751.42

b) Fish cage

Region	Total	Milkfish	Tilapia	Others
NCR				
CAR				
I	1,388.92	1,335.58	52.35	0.99
II	206.77	85.66	118.75	2.36
III	2.71	0.33	1.50	0.88
IV-A				
IV-B	0.00			
V				0.60
VI	2.00			2.00
VII	10.63	10.53	0.10	
VIII	19.42	19.42		
IX				
X				
XI	59.77	59.77		
XII				
CARAGA	928.68	925.49	2.39	0.80
ARMM				
TOTAL	2,618.9	2,436.8	175.1	7.62

a/ - Volume less than .01 metric ton



Commercial Fisheries Production, 2008

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	3,999	3,939.33	0.64	0.06	58.08	1.29
II						
III						
IV-A						
IV-B						
V						
VI	10	10.19				0.02
VII	0.3	0.30				
VIII	16	10.02	1.40		1.60	2.56
IX						
X						
XI						
XII						
CARAGA	41	25.54			8.14	7.68
ARMM						
TOTAL	4,066.87	3,985.39	2.04	0.06	67.82	11.55

2. Production from Freshwater (in MT)

a) Fishpond

Region	Total	Tilapia	Milkfish	Carp	Catfish	Mudfish	Gourami	Fresh-water Shrimp (Ulang)	Others
NCR									
CAR	1,667.46	1,667.17		0.29					
I	5,652.95	5,542.69	4.44	25.85	19.91	37.67	2.45		19.94
II	7,380.71	7,241.93	3.00	21.77	80.48	30.88	1.28	1.36	0.01
III	119,279.41	117,124.21		119.45	1,144.85	754.09	92.44	25.86	18.51
IV-A	1,997.25	1,577.42		234.35	142.97	41.85		0.66	
IV-B	575.66	574.64						1.02	
V	1,822.21	1,663.01			159.20				
VI	858.52	417.10		0.17	436.10	0.20		0.54	4.41
VII	133.37	131.64		0.43	1.26	0.04			
VIII	203.54	198.54						5.00	
IX	131.10	94.62				36.48			
X	1,323.39	1,052.69		204.58	7.60	58.41	0.10		0.01
XI	1,095.52	720.88		3.61	340.27	29.23	1.48	0.05	
XII	845.20	578.80		0.09	228.19	36.82	0.80		0.50
CARAGA	228.28	203.65		16.54	2.39	5.65			0.05
ARMM	203.86	73.42			113.24	17.20			
TOTAL	143,398.43	138,862.41	7.44	627.14	2,676.46	1,048.53	98.54	34.49	43.43

B. MARINE MUNICIPAL FISH CATCH, BY MAJOR FISH SPECIES, 2008

Major Species	Total	% to Total
Frigate Tuna (Tulingan)	68,096.88	5.9
Big-eyed Scad (Matang-baka)	58,576.45	5.1
Roundscad (Galunggong)	82,038.71	7.1
Indian Sardines (Tamban)	68,675.17	6.0
Indian Mackerel (Alumahan)	52,379.60	4.5
Anchovies (Dilis)	45,814.55	4.0
Yellowfin tuna	51,882.30	4.5
Squid (Pusit)	42,545.33	3.7
Fimbriated Sardines (Tunsoy)	61,513.76	5.3
Slipmouth (Sapsap)	33,925.25	2.9
Others	585,860.73	50.9
Total	1,151,308.73	100.0

**A. MUNICIPAL FISHERIES PRODUCTION, BY REGION, 2008
(in MT)**

Region	Marine	Inland	Total
NCR	4,350.44		4,350.44
CAR		934.38	934.38
I	43,632.06	3,399.28	47,031.34
II	18,987.24	10,396.92	29,384.16
III	29,221.89	13,242.96	42,464.85
IV-A	40,249.10	83,560.77	123,809.87
IV-B	236,030.90	812.62	236,843.52
V	131,780.02	5,388.49	137,168.51
VI	139,612.33	7,749.25	147,361.58
VII	51,091.39	244.81	51,336.20
VIII	85,495.23	2,932.96	88,428.19
IX	125,395.16	779.82	126,174.98
X	40,288.43	2,708.11	42,996.54
XI	31,840.62	144.48	31,985.10
XII	23,000.29	23,520.59	46,520.88
CARAGA	71,763.42	5,125.17	76,888.59
ARMM	78,570.21	20,737.04	99,307.25
TOTAL	1,151,308.73	181,677.65	1,332,986.38

b) Fish cage

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	434.24	369.09	-	65.15	-	-
CAR	1,528.11	1,528.11				
I	48.60	48.60				
II	977.48	976.86				0.62
III	5.90	5.90				
IV-A	83,744.00	67,636.69	14,026.17	2,076.89	4.18	0.07
IV-B	0.00					
V	9,053.80	9,037.06		16.74		
VI	0.50	0.30			0.20	
VII	9.52	9.52				
VIII	107.54	81.94	25.60			
IX	0.00					
X	0.80		0.80			
XI	3.05	3.05				
XII	1,765.32	1,765.32				
CARAGA	108.30	108.30				
ARMM	230.26	177.15	53.11			
TOTAL	98,017.41	81,747.89	14,105.68	2,158.78	4.38	0.69

c) Fish pen

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	1,939.31		1,939.31			
CAR	-					
I	0.30	0.30				
II	-					
III	0.38	0.32	0.03			0.03
IV-A	51,482.68	11,997.32	21,556.57	17,928.79		
IV-B	-					
V	-					
VI	-					
VII	-					
VIII	33.32	33.32				
IX	-					
X	-					
XI	20.18	19.85				0.33
XII	11,680.04	5,659.45	6,020.59			
CARAGA	0.42	0.34		0.03	0.02	0.03
ARMM	4,230.90	3,408.68	809.88	12.34		
TOTAL	69,387.52	21,119.58	30,326.38	17,941.16	0.02	0.39

d) Small-farm Reservoir

Region	Total	Tilapia	Carp	Catfish	Gourami	Mudfish	F. Shrimp (Ulang)	White Shrimps	Others
I	40.27	29.66	1.37	2.21		6.39			0.64
II	99.27	79.16	7.17	4.11	1.56	3.81	1.49	0.22	1.75
III	89.78	87.07		1.79		0.92			
VI	18.03	0.02		18.01					
VII	5.37	5.28		0.03		0.06			
XII	0.60	0.37	0.03	0.13		0.07			
TOTAL	253.32	201.56	8.57	26.29	1.56	11.24	1.49	0.21	2.39

e) Rice Fish

Region	Total	Tilapia	Carp	Catfish	Gourami	Mudfish
I	1.49	0.19	0.08	0.18	0.14	0.90
VI	0.57	0.49		0.08		
XI	0.19	0.15		0.04		
TOTAL	2.25	0.83	0.08	0.30	0.14	0.90



Municipal Fisheries Production, 2008

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

E. TEN MAJOR LAKES OF THE PHILIPPINES ⁷¹

Name of Lakes	Location	Area (ha)
1. Laguna de Bay	Laguna and Rizal	90,000
2. Lake Lanao	Lanao del Sur	34,700
3. Taal Lake	Batangas	23,400
4. Lake Mainit	Surigao del Norte- Agusan del Norte	14,000
5. Naujan Lake	Oriental Mindoro	10,900
6. Lake Buluan	Maguindanao Sultan Kudarat	6,500
7. Lake Bato	Camarines Sur	3,800
8. Lake Buhi	Camarines Sur	1,800
9. Lake Dapao	Lanao del Sur	1,000
10. Lake Sebu	South Cotabato	964
Total		187,064

3. Production from Marine Waters (in MT)

a) Fish cage

Region	Total	Milkfish	Grouper	Siganid	Snapper	Cavalla	Mud crab	Spiny lobster	Tilapia	Shovel Nosed Lobster	Others
NCR											
CAR											
I	41,494.42	41,482.11	7.11	1.02							4.18
II											
III	2,467.80	2,459.44						0.10		0.09	8.17
IV-A	5.19	1.40	1.00								2.79
IV-B	2,246.20	2.00	2,244.20								
V	10.04		4.54			5.50					
VI	39.65	13.71	20.26		4.21						1.47
VII	763.74	742.16	2.45	0.80	1.90				0.10		16.33
VIII	7,513.34	7,390.24	116.35				6.75				
IX	34.13		27.55	3.18	0.04	3.36					
X	457.06	456.76		0.14			0.16				
XI	4,395.16	4,233.03	4.26	20.29		131.30					6.28
XII	1,708.93	1,361.96	1.18			8.10					337.69
CARAGA	289.13	224.54	23.51	21.66				18.20			1.22
ARMM	0.64		0.64								
TOTAL	61,425.43	58,367.35	2,453.05	47.09	6.15	148.26	6.91	18.30	0.10	0.09	378.13

b) Fish pen

Region	Total	Milkfish	Grouper	Siganid	Snapper	Cavalla	Spiny Lobster	Shovel- Nosed Lobster	Others
NCR	-								
I	11,074.21	11,068.82	3.99	1.40					
II	0.00								
III	32.00	32.00							
IV-A	513.71	513.71							
IV-B	0.00								
V	0.00								
VI	1,075.92	1,074.98			0.47	0.47			
VII	53.02	51.33	1.65						0.04
VIII	41.63	10.00		31.63					
IX	0.00								
X	15.93	15.70		0.21					0.02
XI	9,230.55	9,230.55							
XII	0.00								
CARAGA	175.71	0.61	95.47	22.01		0.25	53.21	3.60	0.56
ARMM	8.76		7.20			1.19	0.37		
TOTAL	22,221.44	21,997.70	108.31	55.25	0.47	1.91	53.58	3.60	0.62

**D. MAJOR SPECIES PRODUCED IN
AQUACULTURE FISHERIES, 2008**

Species	Quantity (MT)	Percent (%)
Seaweeds	1,666,556.26	69.22
Milkfish	350,836.96	14.57
Tilapia	257,132.51	10.68
Shrimps/Prawns	48,198.57	2.00
Others	84,973.84	3.53
Total	2,407,698	100.00

Seaweeds

Region	Total
NCR	
CAR	
I	141.79
II	2,349.56
III	215.23
IV-A	44,180.22
IV-B	447,143.38
V	50,649.30
VI	50,347.59
VII	111,116.97
VIII	20,959.92
IX	222,161.79
X	35,818.16
XI	2,625.91
XII	188.91
CARAGA	21,498.06
ARMM	657,159.47
TOTAL	1,666,556.26

4. Production from Mariculture (in MT)

Region	Total	Oyster	Mussels	Seaweeds
NCR	103.01		103.01	
CAR				
I	6,416.30	5,440.66	833.85	141.79
II	2,880.55	530.99		2,349.56
III	6,067.62	3,561.99	2,290.40	215.23
IV-A	52,186.09	705.29	7,300.58	44,180.22
IV-B	447,153.38		10.00	447,143.38
V	50,783.45	16.32	117.83	50,649.30
VI	67,880.63	8,502.70	9,030.34	50,347.59
VII	111,557.36	440.39		111,116.97
VIII	24,322.43	33.14	3,329.37	20,959.92
IX	222,734.99	572.31	0.89	222,161.79
X	35,821.19	2.09	0.94	35,818.16
XI	2,994.85	368.94		2,625.91
XII	188.91			188.91
CARAGA	21,498.06			21,498.06
ARMM	657,159.47			657,159.47
TOTAL	1,709,748.29	20,174.82	23,017.21	1,666,556.26

C. AQUACULTURE PRODUCTION OF MAJOR COMMODITIES BY CULTURE ENVIRONMENT AND BY REGION, 2008
(In Metric Tons)

Milkfish

Region	Total	Brackishwater			Freshwater			Marine	
		Fishpond	Fish cage	Fish pen	Fishpond	Fish cage	Fish pen	Fish cage	Fish pen
NCR	2,377.90	438.59			-	1,939.31			
CAR	81,653.91	23,823.63	1,335.58	3,939.33	4.44		41,482.11	11,068.82	
I	909.67	821.01	85.66		3.00				
II	62,457.49	59,965.69	0.33			0.03	2,459.44	32.00	
III	47,991.20	11,893.35				21,556.57	1.40	513.71	
IV-A	4,375.49	4,373.49					2.00		
IV-B	2,543.59	2,543.59							
V	69,005.49	67,906.61		10.19			13.71	1,074.98	
VI	7,187.73	6,383.41	10.53	0.30			742.16	51.33	
VII	12,278.15	4,822.87	19.42	10.02		25.60	7,390.24	10.00	
VIII	9,832.39	9,832.39							
IX	10,563.77	10,090.51				0.80	456.76	15.70	
X	17,985.30	4,461.95	59.77				4,233.03	9,230.55	
XI	15,095.92	7,713.37					1,361.96		
XII	3,322.69	2,146.51	925.49	25.54		6,020.59	224.54	0.61	
CARAGA	3,256.25	2,393.26				809.88			
ARMM									
TOTAL	350,836.94	219,610.23	2,436.78	3,985.38	7.44	14,105.68	58,367.35	21,997.70	

Tilapia

Region	Total	Brackishwater			Freshwater			Small-farm Reservoir		Marine	
		Fishpond	Fish cage	Fish pen	Fishpond	Fish cage	Fish pen	Rice Fish	Fish cage	Rice Fish	Fish cage
NCR	501.08	131.99			369.09						
CAR	3,195.28	1,182.95	52.35	58.08	1,667.17	1,528.11	0.30	29.66	0.19		
I	6,914.82	2,844.02	118.75		5,542.69	48.60	976.86	79.16			
II	11,260.72	6,801.15	1.50		7,241.93	5.90	0.32	87.07			
III	124,020.15	43.78			1,577.42	67,636.69	11,997.32				
IV-A	81,255.21	0.10			574.64						
IV-B	574.74	134.90			1,663.01	9,037.06					
V	10,834.97	792.89			417.10	0.30		0.02	0.49		
VI	1,210.80	122.60	0.10		131.64	9.52		5.28			
VII	269.24	56.77		1.60	198.54	81.94	33.32				
VIII	372.17	1,836.56			94.62						
IX	1,931.18	400.82			1,052.69						
X	1,453.51	169.40			720.88	3.05	19.85				
XI	913.33	231.81			578.80	1,765.32	5,659.45	0.37			
XII	8,235.75	56.63	2.39	8.14	203.65	108.30	0.34				
CARAGA	379.45	150.87			73.42	177.15	3,408.68				
ARMM	3,810.12										
TOTAL	257,132.52	14,957.24	175.09	67.82	138,862.41	81,747.89	21,119.58	201.56	0.83	0.10	