

# Philippine Fisheries Profile 2016



Department of Agriculture

**BUREAU OF FISHERIES AND AQUATIC RESOURCES**

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Republic of the Philippines  
Department of Agriculture

**BUREAU OF FISHERIES AND AQUATIC RESOURCES**

## 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 Accounts of the Philippines, Philippine Statistics Authority (PSA)
- 4/ 2002 Census of Fisheries
- 5/ Trade Statistics Division, PSA
- 6/ Fisheries Statistics Division, PSA ([www.psa.gov.ph](http://www.psa.gov.ph))
- 7/ Directory of Philippine Wetlands, Volume II, AWBPFI
- 8/ BFAR National Program for Municipal Fishing  
Vessels and Gears Registration (BoatR)
- 9/ Regulatory and Licensing Division (FRLD), BFAR
- 10/ Food and Nutrition Research Institute Website, (<http://www.fnri.dost.gov.ph>.)
- 11/ FAO Statistics (<http://www.fao.org>.)
- 12/ Price Statistics Division , PSA

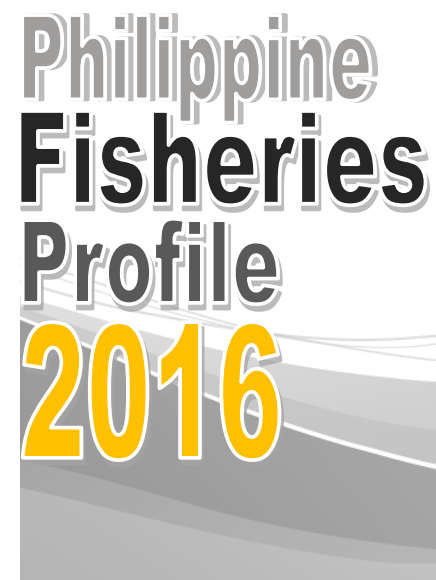
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Photo courtesy of [www. mindanews.com](http://www.mindanews.com) , retrieved last March 6, 2017

**E. PRICES OF SELECTED FISH SPECIES,  
PHILIPPINES, 2015- 2016** <sup>12/</sup>

(pesos per kilogram)

Species	2015		2016	
	Wholesale	Retail	Wholesale	Retail
1. Indian mackerel (Alumahan)	109.39	135.79	111.02	140.64
2. Milkfish (Bangus)	104.88	126.75	104.47	126.47
3. Threadfin bream (Bisugo)	136.54	181.62	144.35	189.85
4. Blue crab (Alimasag)	145.49	206.90	149.84	216.98
5. Caesio (Dalagang Bukid, lapad)	124.92	171.83	153.32	185.82
6. Anchovies (Dilis)	55.90	86.96	57.94	90.1
7. Roundscad (Galunggong)	91.42	118.27	90.39	116.59
8. Slipmouth (Sapsap)	94.77	128.81	112.65	164.4
9. Endeavor prawn (Shrimp, Suaje)	247.67	312.77	290.57	325.8
10. Tilapia	80.1	106.36	81.48	106.89
11. Frigate tuna (Tulingan)	93.99	116.70	90.69	112.06
12. Shrimp, Tiger prawn (sugpo)	437.33	500.59	424.51	517.68





## MESSAGE

The Department of Agriculture commends the efforts of its attached agency, the Bureau of Fisheries and Aquatic Resources (BFAR) for publishing the “Philippine Fisheries Profile 2016”.

It is of great benefit to the public that in line with promoting the fisheries sector through the implementation of different projects and programs, the Bureau also provides timely statistics and substantial information about Philippine fisheries resources through this publication. Reflected in this handbook are the sector’s contribution to the economy; detailed volume and value of production of its sub-sectors: aquaculture, municipal, and commercial; external trade; and other relevant fisheries information. These data are valuable in formulating good policy, managing resources and monitoring and evaluating the impacts of the implemented programs and projects.

Notwithstanding, I would like to give my compliments to BFAR for bringing out this publication and wish them success in their endeavors.

*Mabuhay ang Industriya ng Pangisdaan!*

**EMMANUEL F. PIÑOL**  
Secretary

## D. WORLD AQUACULTURE PRODUCTION OF AQUATIC PLANTS BY PRODUCERS IN 2015 <sup>11/</sup>

Major Countries	Volume (MT)	% Share	Value (US\$' 000)	% Share
1. China	13,924,535	47.42	2,420,653	49.94
2. Indonesia	11,269,341	38.38	842,852	17.39
3. Philippines	1,566,361	5.33	182,779	3.77
4. Korea Rep.	1,197,129	4.08	440,574	9.09
5. Korea D P Rp.	489,000	1.67	73,350	1.51
6. Japan	399,300	1.36	807,300	16.66
7. Malaysia	260,760	0.89	33,577	0.69
8. Zanzibar	172,490	0.59	1,789	0.04
9. Madagascar	15,377	0.05	2,636	0.05
10. Solomon Island	12,200	0.04	709	0.01
11. Chile	11,952	0.04	29,282	0.60
12. Other Countries	56,665	0.19	40,672	0.84
<b>World Total</b>	<b>29,363,158</b>	<b>100</b>	<b>4,846,891</b>	<b>100.6</b>

**C. WORLD AQUACULTURE PRODUCTION OF FISH, CRUSTACEANS,  
MOLLUSCS, etc. BY PRINCIPAL PRODUCERS IN 2015<sup>11/</sup>**

Major Countries	Volume (MT)	% Share	Value (US\$ '000)	% Share
1. China	47,610,040	62.15	76,792,937	48.63
2. India	5,235,017	6.83	10,456,749	6.62
3. Indonesia	4,342,465	5.67	7,911,027	5.01
4. Vietnam	3,438,378	4.49	8,510,505	5.39
5. Bangladesh	2,060,408	2.69	5,150,023	3.26
6. Norway	1,380,839	1.80	5,823,110	3.69
7. Chile	1,045,790	1.37	6,834,121	4.33
8. Egypt	1,174,831	1.53	1,431,035	0.91
9. Myanmar	997,306	1.30	1,644,828	1.04
10. Thailand	897,096	1.17	2,349,711	1.49
11. Philippines	781,798	1.02	1,869,973	1.18
12. Japan	703,915	0.92	3,460,729	2.19
13. Brazil	574,530	0.75	1,218,343	0.77
14. Korea Rep	479,360	0.63	1,720,303	1.09
15. USA	425,973	0.56	1,149,612	0.73
16. Other Countries	5,878,129	7.67	22,746,126	14.40
<b>World Total</b>	<b>76,599,902</b>	<b>100.56</b>	<b>157,919,520</b>	<b>100.7</b>

*Note: These countries are those with production of 150,000 tons or more in 2015*

## FOREWORD



As 2016 ends, a yearly report on various data on fisheries was compiled and prepared by the Bureau of Fisheries and Aquatic Resources for the fisheries sector under the Department of Agriculture.

The Bureau acknowledges the need to develop a mechanism that will be able to get along with the dynamics in the field of statistics. Thus, a continuous data on fish production, export and import, and other fisheries information relevant to the fishing industry were presented for this handbook.

Moreover, an easier and more convenient generation of data concerning the fisheries sector is also available through an e-publication of this handbook that can be accessed at the bureau's official website, ([www.bfar.da.gov.ph](http://www.bfar.da.gov.ph)). Any interested party who wants to look into the fisheries sector may now instantly obtain their needed information for the purpose of the advancement of research and development in the fishing industry.

Finally, we gratefully and sincerely thank the Philippine Statistics Authority (PSA), the Food and Nutrition Research Institute under the Department of Science and Technology (FNRI-DOST), the Food and Agriculture Organization (FAO) as well as other agencies for their assistance and untiring support provided to us.

**COMMODORE EDUARDO B GONGONA PCG (Ret)**  
Undersecretary for Fisheries, BFAR National Director

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Major Countries	TOTAL		Fish, Crustaceans & Molluscs		Aquatic Plants (includes seaweeds)		
	MT	% share	Capture	Aquaculture	Capture	Aquaculture	Total
1. China	79,387,644	39.76	17,591,299	47,610,040	261,770	13,924,535	14,186,305
2. Indonesia	22,175,356	11.11	6,485,320	4,342,465	78,230	11,269,341	11,347,571
3. India	10,100,057	5.06	4,843,388	5,235,017	18,650	3,002	21,652
4. Viet Nam	6,207,514	3.11	2,757,314	3,438,378	-	11,822	11,822
5. USA	5,471,231	2.74	5,038,791	425,973	6,467	-	6,467
6. Peru	4,838,874	2.42	4,824,050	-	14,824	-	14,824
7. Japan	4,656,683	2.33	3,460,168	703,915	93,300	399,300	492,600
8. Russian Federation	4,617,043	2.31	4,457,138	151,207	6,662	2,036	8,698
9. Philippines	4,500,028	2.25	2,151,502	781,798	367	1,566,361	1,566,728
10. Norway	3,821,928	1.91	2,293,698	1,380,839	147,391	-	147,391
11. Korea Rep.	3,333,308	1.67	1,648,993	479,360	7,826	1,197,129	1,204,955
12. Chile	3,190,079	1.60	1,786,633	1,045,790	345,704	11,952	357,656
13. Myanmar	2,953,140	1.48	1,953,510	997,306	-	2,324	2,324
14. Thailand	2,590,146	1.30	1,693,050	897,096	-	-	-
15. Other Countries	41,842,311	20.95	31,645,606	9,110,718	110,631	975,356	1,085,987
<b>World Total</b>	<b>199,685,342</b>	<b>100.00</b>	<b>92,630,460</b>	<b>76,599,902</b>	<b>1,091,822</b>	<b>29,363,158</b>	<b>30,454,980</b>

### 3. Mean one -day per capita fish and fish products consumption, Philippines, 2015

Food Group/Sub Groups	Mean
	Kg/Year
<b>Fish and Products</b>	<b>36.8</b>
<b>Fresh fish</b>	<b>24.7</b>
Tulingan	2.0
Bangus	3.6
Galunggong	3.4
Dilis, buo	0.5
Alumahan	0.4
Tamban	1.7
Dalagang bukid	0.5
Sapsap	0.8
Bisugo	0.6
Tilapia	3.7
Albakora/tambakol	0.9
Balila/espada	0.0
Hasa-hasa	0.4
Lapu-lapu	0.2
Matangbaka	1.5
Maya-maya	0.3
Salay-salay	0.1
Silinyasi/tunsoy	0.0
Tanigue	0.1
Other fresh fish & cooked fish recipe	3.9
<b>Dried fish (as fresh fish)</b>	<b>4.2</b>
<b>Processed fish</b>	<b>4.9</b>
Bagoong (as fresh fish)	0.6
Patis	0.1
Canned fish (sardines, mackerel, salmon, etc)	3.6
Smoked fish (all tinapa type)	0.5
<b>Crustaceans and mollusks</b>	<b>3.0</b>
Shrimp (all types)	0.8
Crabs	0.4
Squids/octopus	0.6
Tahong (mussels)	0.2
Others (fresh)	0.7
Dried and processed (as fresh)	0.1
Bagoong (as fresh)	0.2
Cooked/mixed shellfish dishes	0.0

Source: FNRI-DOST

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## 2. Trends in mean one-day per capita food consumption among Filipino households: Philippines, 2008, 2013 and 2015

Food Group/ Sub-group	Mean (g/ day)		
	2008	2013	2015
<i>ENERGY-GIVING FOOD</i>			
<b>Cereals and Cereal Products</b>	<b>361</b>	<b>346</b>	<b>358</b>
Rice and Rice Products	317	299	308
Corn and Corn Products	21	23	24
Cereal Products	23	25	26
<b>Starchy Roots and Tubers</b>	<b>17</b>	<b>14</b>	<b>12</b>
<b>Sugars and Syrups</b>	<b>17</b>	<b>12</b>	<b>11</b>
<b>Fats and Oils</b>	<b>15</b>	<b>15</b>	<b>15</b>
<i>BODY - BUILDING FOOD</i>			
<b>Fish, Meat and Poultry</b>	<b>193</b>	<b>207</b>	<b>190</b>
Fish and Fish Products	110	109	101
Meat and Meat Products	58	65	61
Poultry	24	33	28
<b>Eggs</b>	<b>14</b>	<b>16</b>	<b>18</b>
<b>Milk and Milk Products</b>	<b>42</b>	<b>45</b>	<b>42</b>
Whole Milk	33	34	33
Milk Products	10	11	9
<b>Dried Beans, Nuts and Seeds</b>	<b>9</b>	<b>9</b>	<b>8</b>
<i>REGULATING FOOD</i>			
<b>Vegetables</b>	<b>110</b>	<b>114</b>	<b>123</b>
Green, Leafy and Yellow	34	39	43
Other Vegetables	76	75	80
<b>Fruits</b>	<b>54</b>	<b>41</b>	<b>37</b>
Vitamin C-Rich Fruits	10	8	6
Other Fruits	44	33	31
<b>Miscellaneous</b>	<b>29</b>	<b>34</b>	<b>29</b>
Beverages	16	23	18
Condiments and Spices	10	10	10
Others	3	2	1
<b>ALL FOOD</b>	<b>861</b>	<b>854</b>	<b>844</b>



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

### 1. Mean one-day per capita food consumption and percent (%) of food to total intake: Philippines, 2015

Food Group/ Sub-group	Consumption		% of Total Intake
	g/day	kg/yr	
<i>ENERGY-GIVING FOOD</i>			
<b>Cereals and Cereal Products</b>	<b>358</b>	<b>131</b>	<b>42.4</b>
Rice and Rice Products	308	112	36.5
Corn and Corn Products	24	9	2.9
Cereal Products	26	9	3.0
<b>Starchy Roots and Tubers</b>	<b>12</b>	<b>5</b>	<b>1.5</b>
<b>Sugars and Syrups</b>	<b>11</b>	<b>4</b>	<b>1.3</b>
<b>Fats and Oils</b>	<b>15</b>	<b>5</b>	<b>1.8</b>
<i>BODY - BUILDING FOOD</i>			
<b>Fish, Meat and Poultry</b>	<b>190</b>	<b>69</b>	<b>22.5</b>
Fish and Fish Products	101	37	11.9
Meat and Meat Products	61	22	7.3
Poultry	28	10	3.3
<b>Eggs</b>	<b>18</b>	<b>7</b>	<b>2.1</b>
<b>Milk and Milk Products</b>	<b>42</b>	<b>15</b>	<b>5.0</b>
Whole Milk	33	12	3.9
Milk Products	9	3	1.1
<b>Dried Beans, Nuts and Seeds</b>	<b>8</b>	<b>3</b>	<b>1.0</b>
<i>REGULATING FOOD</i>			
<b>Vegetables</b>	<b>123</b>	<b>45</b>	<b>14.6</b>
Green, Leafy and Yellow	43	16	5.1
Other Vegetables	80	29	9.4
<b>Fruits</b>	<b>37</b>	<b>14</b>	<b>4.4</b>
Vitamin C-Rich Fruits	6	2	0.7
Other Fruits	31	11	3.7
<b>Miscellaneous</b>	<b>29</b>	<b>11</b>	<b>3.5</b>
Beverages	18	7	2.1
Condiments and Spices	10	4	1.2
Others	1	0	0.2
<b>ALL FOOD</b>	<b>844</b>	<b>308</b>	<b>100</b>

## World Scenario: Philippine Fisheries

- In 2015, the Philippines ranked 9<sup>th</sup> among the top fish producing countries in the world with its total production of 4.5 million metric tons of fish, crustaceans, molluscs, and aquatic plants (including seaweeds). The production constitutes 2.3% of the total world production of 199.7 million metric tons (*FAO Statistics*).
- The Philippines' 0.782 million metric tons aquaculture production of fish, crustaceans and molluscs in 2015 ranked 11<sup>th</sup> in the world and a 1.02% share to the total global aquaculture production of 76.6 million metric tons. In terms of value, the country's aquaculture production of fish, crustaceans and molluscs has amounted to over 1.87 billion dollars (*FAO Statistics*).
- Similarly, the Philippines is the world's 3<sup>rd</sup> largest producer of aquatic plants (including seaweeds) having produced a total of 1.57 million metric tons or nearly 5.33% of the total world production of 29.36 million metric tons (*FAO Statistics*).

## Contribution to National Economy, 2016

- The fishing industry's contribution to the country's Gross Domestic Products (GDP) were 1.3 % and 1.5% at current and constant 2000 prices, respectively. This translates to some P184.8 billion for current prices and P122.9 billion for constant prices of the country's GDP of P14,481 billion (current prices) and P8,126 billion (constant prices).
- The industry also accounted for 13.2% (P184.8 billion) and 17.3% (P122.9 billion) of the Gross Value Added (GVA) in Agriculture, Hunting, Forestry and Fishing Group of P1,398

billion and P710. billion at current and constant prices, respectively, the largest share next to agricultural crops.

## Employment in the Fishing Industry

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

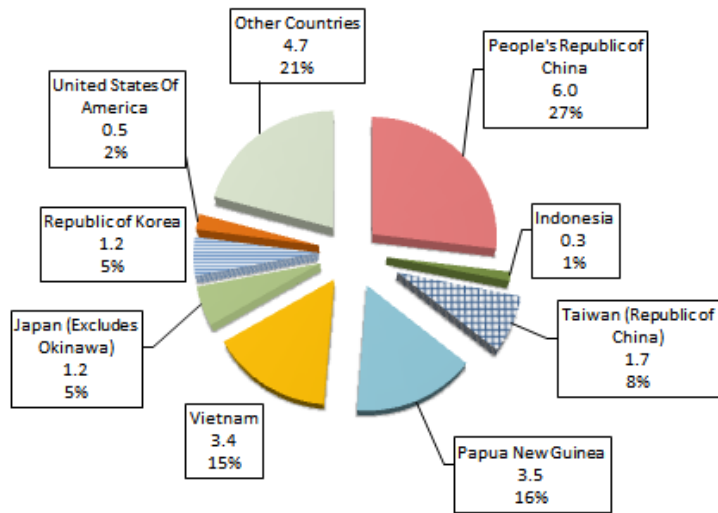
## Performance of the Fishing Industry

- Total volume of fisheries production in the Philippines from January to December 2016 reached 4,355,792.6 metric tons. Fisheries production drop down by (13%) from 5 million metric tons in CY 2012 to 4.35 million metric tons in CY 2016. Average annual production growth rate within that period was registered at (2.6%). In terms of value, the 2016 fisheries production was valued at 228.9 billion pesos as compared with the 237.7 billion pesos in 2012, an average yearly increment of 0.44 billion pesos.
- The 2016 fisheries production also showed a decrease of 6.31% from the previous year's production of 4.6 million metric tons. The 2016 production was valued at 229 billion pesos.
- The annual performance of the fishing industry was attributed to the production of the three (3) sectors. The commercial sector decreased in production of 6.24% (1.02 million MT) as compared to last year's production of 1.08 million MT while the aquaculture sector is 6.27% (2.20 million MT) lower than the previous year's level (2.35 million MT) followed by the municipal sector with -6.46 % (1.14 million MT).

## OTHER FISHERY INFORMATION



**Figure 9. 2016 Value of Fishery Import by Country of Origin, in Billion Pesos**



- At the regional level, the Autonomous Region for Muslim Mindanao (ARMM) registered the highest production among all regions with its 18.9% or 824,315 metric tons share to the total fisheries production, where seaweed was the major commodity produced followed by Region IX with a 12.8% share or 555,367 metric tons. Region IV-B (MIMAROPA) recorded an output of 482,791 metric tons or 11.1% to the total fisheries production.
- In terms of value, the industry has contributed P229 billion in 2016 as compared to P240 billion in 2015. The top three (3) regions were Region III with P30.78 billion, followed by Region XII with P21.9 billion and Region VI-A with P20.49 billion.
- The Aquaculture fisheries sub-sector contributed the highest value of about P 91.14 billion or 40 %. Next is municipal fisheries sub-sector with a total production of P 78.93 billion. Total fish caught by marine fishermen was valued at P71.1 billion while inland fisheries production was valued at P7.79 billion. The commercial sub-sector contributed P58.87 billion or 26% to the total fishery output.

## Fisheries Export and Import Performance

### Exports 2016

- Foreign trade performance of the fishery industry in 2016 registered a net surplus of 475 million dollars - total export value of 950 million US dollars and import value of 475 million US dollars.
- Export volume increased by 12.5 % from 226,821 MT in 2015 to 257,219 MT in 2016. The three major export commodities (tuna, seaweeds, shrimp/prawn,) combined for 59% (152,385 MT) of the total export volume (257,219 MT) and 56% (US\$

532,861 million) of the total export value US\$ 950 million in 2016.

- Tuna remained as the top export commodity with a collective volume of 103,543 MT for fresh/chilled/frozen, smoked/dried, and canned tuna products valued at US \$ 283 million. Canned tuna, though, constitutes bulk of tuna products being exported. In general, tuna export is up by 6 % in terms of volume and higher in terms of value, (3.67) % than the previous year. Major markets for this commodity include USA, Japan and United Kingdom.
- Seaweeds came 2nd on export value which fell from (0.2%) US\$ 202 million in 2015 to US\$ 198 million in 2016 or 21% share to the total export earnings for that year. Carrageenan remains the major product being shipped abroad comprising 96 % of the total seaweed export value in pesos. USA, China and France are among the major markets for Philippine seaweed products.
- Shrimp/Prawn ranked 3<sup>rd</sup> with a total contribution of US\$ 51 million to the total export value, higher than last years' export earnings of US\$ 35 million. Most of the shrimps/prawns are exported in fresh/chilled/frozen form with a total value of US\$ 47 million or 92 % of the total shrimp/prawn export revenue. The 2016 shrimp/prawn exports increased by 64% in volume (MT) and value of 45% USD from the previous year's export. Japan, USA and France 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 22% or US\$ 208 million of the total US\$ 950 million export revenues. Other commodities accounted for the remaining 22% of the total export value/earnings.

### 3. Fishery Imports, by Major Country of Origin in Terms of Value, 2016

Major Countries	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
People's Republic of China	139,692	127,934	6,043,601
Indonesia	6,067	5,821	275,002
Taiwan (Republic of China)	26,355	36,285	1,714,126
Papua New Guinea	49,717	73,569	3,475,420
Vietnam	65,062	72,891	3,443,349
Japan	26,898	25,311	1,195,700
Republic of Korea	20,823	24,689	1,166,293
United States Of America	6,586	9,925	468,864
Netherlands	1,325	1,493	70,525
Singapore	788	3,299	155,857
Chile	3,923	6,883	325,153
Norway	4,176	11,450	540,914
Italy	349	348	16,453
Thailand	8,558	8,913	421,065
New Zealand	1,999	3,333	157,455
Peru	1,290	1,451	68,568
Marshall Islands, Rep. Of	3,670	5,098	240,847
Germany	3,445	2,306	108,914
Uk Great Britain And N. Ireland	2,796	3,625	171,266
Malaysia	3,102	2,831	133,748
Total Major Countries	376,622	427,458	20,193,120
Other Countries	7,543	47,736	2,255,066
<b>Total</b>	<b>384,165</b>	<b>475,194</b>	<b>22,448,186</b>

(Con't)

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
<b>2. Prawn feeds</b>	<b>11,271</b>	<b>12,585</b>	<b>594,507</b>
China, People's Rep. of	164	63	2,974
Taiwan	559	784	37,048
Malaysia	20	22	1,050
Japan	10	23	1,072
Hong Kong	-	-	-
Thailand	143	375	17,735
USA	-	-	-
Vietnam	10,219	11,127	525,627
Others	156	191	9,001
<b>3. Flour, meals &amp; pellets of fish, crustaceans &amp; molluscs unfit for human consumption</b>	<b>10,555</b>	<b>11,266</b>	<b>532,198</b>
Peru	1,020	1,204	56,864
Thailand	1,468	1,202	56,782
USA	3,679	2,532	119,612
Argentina	802	958	45,256
France	122	306	14,455
India	99	77	3,637
Taiwan	102	88	4,157
Korea, South	349	301	14,219
Others	8,979	4,598	217,215
<b>Total major imports</b>	<b>273,513</b>	<b>305,218</b>	<b>14,418,483</b>
<b>Other Commodities</b>	<b>110,652</b>	<b>169,977</b>	<b>8,029,703</b>
<b>Grand Total</b>	<b>384,165</b>	<b>475,194</b>	<b>22,448,186</b>

- Among the major destination of Philippine fish and fishery product exports (in terms of value) with percentage share are USA, 9%; Japan, 6.5%; Germany, 2%; Hong Kong 4.2%; UK, 1.9%; Spain, 1.4%; South Korea, 0.9%, Taiwan (ROC) 1.8%, Netherlands, 0.6%, and China, Rep of 2.4%; . Other countries have a cumulative share of 30%.

### Imports

- Fifty two percent of the total import value for 2016 was contributed by three major commodities: 59% in chilled/frozen fish, 2.6 % in prawn feeds, ; as well as flour, meals and pellets of fish, crustaceans, and mollusks fit and unfit for human consumption, 2.4%. These commodities have an aggregated value of US\$ 305 million out of the US\$ 475 million total import value.
- Prawn feeds were mostly sourced from Taiwan, (ROC) 0.2%; Vietnam, 2.3%; Thailand, 0.8% , Malaysia, 0.002%, and ; with a total of \$ 12.6 million on import value.
- Chilled/frozen fish comprise of tuna, mackerel and sardines with a total of US\$ 281 million . Tuna has an import value of US \$188 million, the largest among the three major import with a share of 40%. These were mostly supplied by Papua New Guinea 17 %; Taiwan (ROC) 8%; China, 3%, Korea, 5% and Japan, 2.3%. Other fishery imports include mackerel, 18.5% and sardines 1%.
- In terms of value, in general, the Philippine fishery imports originated from the following major countries: China, 27%; Indonesia, 1%; Taiwan (ROC), 8%; Papua New Guinea, 15%; Vietnam, 15%; Japan 5% ; Norway, 2% Korea, 5%; USA, 2%; and Singapore 1%. Other countries contributed 20% to the total import value of fish and fishery products.

- FISHERY RESOURCES
- 2016 FISHERIES CONTRIBUTION TO THE ECONOMY



## 2. Major Fishery Imports in Terms of Value, 2016

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
<b>1. Fresh/Chilled/Frozen Fish</b>	<b>251,687</b>	<b>281,367</b>	<b>13,291,778</b>
<b>A. Tuna</b>	<b>128,055</b>	<b>188,318</b>	<b>8,896,163</b>
Indonesia	290	696	32,856
Taiwan	24,294	37,078	1,751,573
Papua New Guinea	49,188	82,395	3,892,337
Japan	8,033	10,822	511,245
Korea	17,060	22,025	1,040,438
Singapore	174	425	20,089
China, People'S Rep. of	13,154	15,291	722,326
Marshall Islands	3,670	5,835	275,652
U S A	497	638	30,122
Vietnam	8,475	7,563	357,299
Others	3,220	5,551	262,226
		-	
<b>B. Mackerel</b>	<b>117,185</b>	<b>88,078</b>	<b>4,160,798</b>
China, People'S Rep. of	69,473	48,624	2,297,009
Japan	15,843	12,835	606,310
Taiwan	687	620	29,301
Korea, Rep of South	206	404	19,065
New Zealand	1,817	1,993	94,126
U S A	-	-	-
Vietnam	24,864	20,148	951,800
Others	4,295	3,454	163,187
		-	
<b>C. Sardines</b>	<b>6,447</b>	<b>4,971</b>	<b>234,817</b>
China, People'S Republic of	2,910	1,835	86,666
Japan	2,517	2,385	112,675
Morocco	567	453	21,393

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

### 1. Import of Fish and Fishery Products By Kind, Quantity and Value, 2016

Commodity/Kind	Quantity (MT)	CIF Value	
		('000 \$)	('000 Pesos)
● Fish Crustaceans, Mollusks, etc. and Preparation	<b>349,954</b>	<b>426,292</b>	<b>20,138,054</b>
a. Fish fresh (live or dead) chilled or frozen	295,693	349,130	16,492,887
b. Fish, dried, salted or in brine, smoked fish	151	770	36,376
c. Crustaceans, mollusks and aquatic invertebrates	40,069	60,660	2,865,582
d. Fish and other aquatic invertebrate, prepared/ preserved	14,041	15,733	743,209
● Shells and By-Products	74	102	4,818
● Miscellaneous and Other Fishery Products	34,138	48,800	2,305,314
<b>Grand Total</b>	<b>384,165</b>	<b>475,194</b>	<b>22,448,186</b>

Note: Figures may not add up due to rounding off

## Philippine Marine Jurisdictional Boundaries

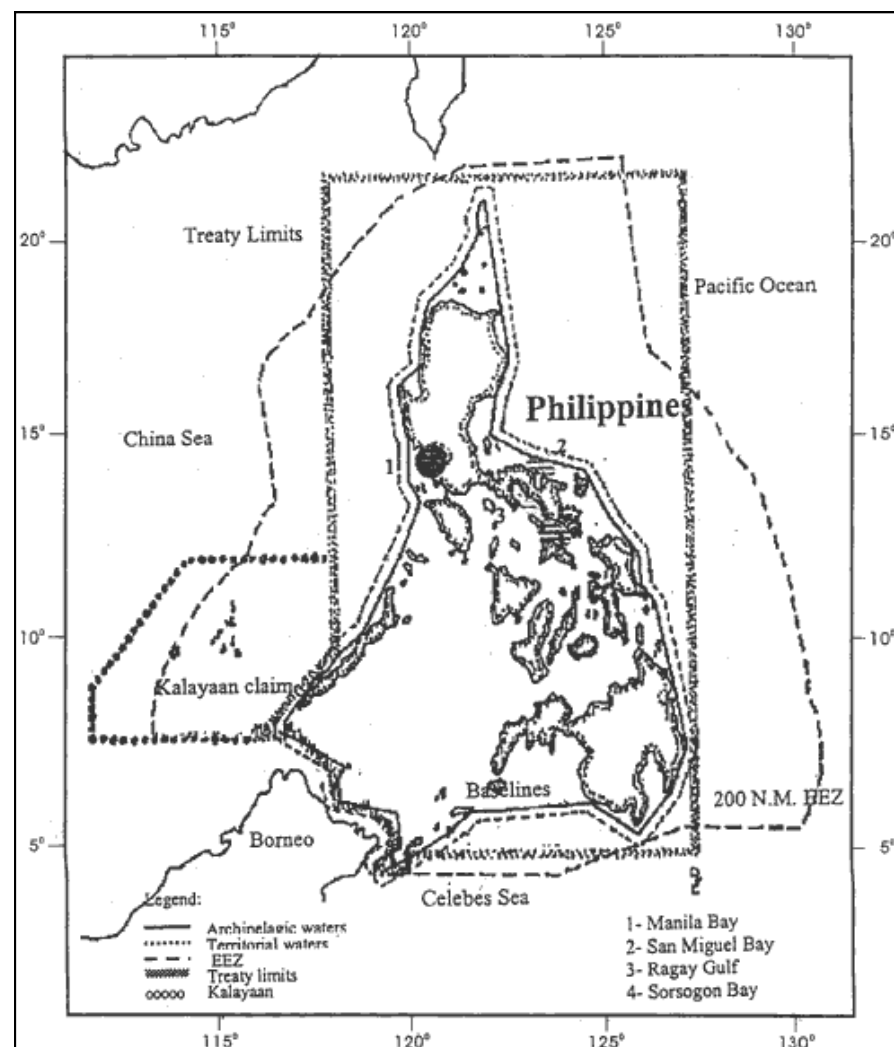


Figure 1. Map of the Philippines showing the limits of archipelagic, territorial waters treaty limits Exclusive Economic Zone (200 N. M. EEZ) and Kalayaan claim.

## 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
a. Freshwater	14,531 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

Figure 7. Major Fishery Exports in Terms of Value, 2016

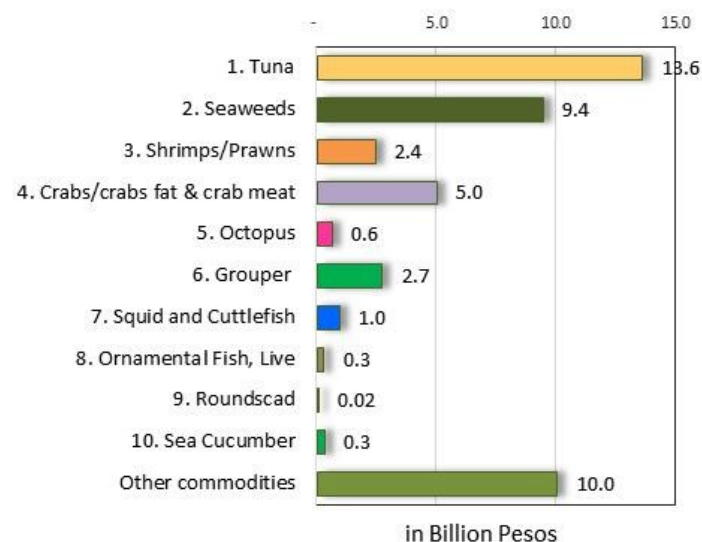
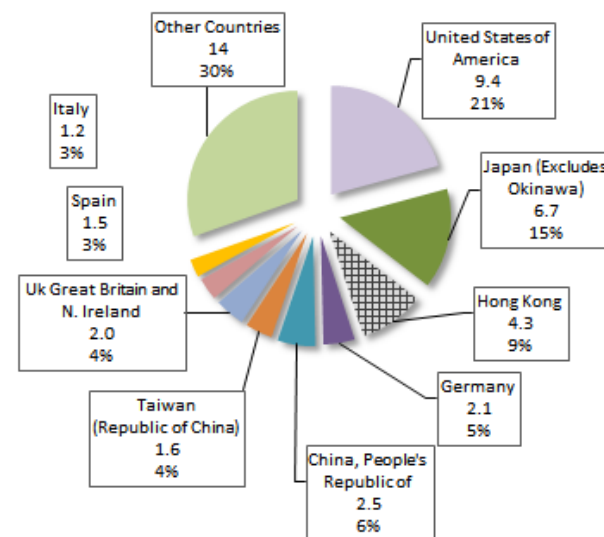


Figure 8. 2016 Value of Fishery Export by Country of Destination, in Billion Pesos





#### 4. Fishery Exports, by Major Country of Destination in Terms of Value, 2016

Country/Destination	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
United States of America	44,328	197,507	9,429,008
Japan (Excludes Okinawa)	30,949	141,095	6,735,880
Hong Kong	24,954	91,002	4,344,435
Germany	14,853	44,169	2,108,645
China, People's Republic of	19,946	51,872	2,476,376
Taiwan (Republic of China)	16,421	38,194	1,823,373
Uk Great Britain and N. Ireland	13,600	42,167	2,013,069
Spain	9,733	31,217	1,490,316
Netherlands	4,265	12,627	602,812
Republic Of Korea	2,863	20,127	960,840
Belgium	2,794	14,057	671,083
France	5,271	15,483	739,139
Singapore	2,052	10,451	498,916
Thailand	4,697	21,420	1,022,593
Mexico	2,763	11,510	549,505
Macao	3,604	11,580	552,851
Canada	4,386	13,413	640,353
Italy	7,842	24,451	1,167,276
Israel	3,561	13,051	623,032
United Arab Emirates	3,553	8,186	390,813
Total Major Countries	222,436	813,580	37,318,922
Other Countries	34,783	136,855	8,054,863
<b>Grand Total</b>	<b>257,219</b>	<b>950,435</b>	<b>45,373,785</b>

#### C. AREA AND LOCATION OF MAJOR FISHING GROUNDS IN THE PHILIPPINES

Fishing Ground	Area (Sq. Km.)	Location
<b>A. Seas</b>		
West Sulu Sea	29,992.5	Palawan
South Sulu Sea	112,642	Zamboanga del Sur/Sulu/Tawi-Tawi
East Sulu sea	9,288	Zamboanga del Norte/Negros
Sibuyan Sea	8,127	Aklan/Masbate/Romblon
Bohol Sea	7,946	Bohol
Samar Sea	3,870	Samar/Masbate/Leyte
Visayan Sea	3,096	Panay/Negros/Cebu/Masbate
Camotes Sea	2,476.8	Cebu/Leyte/Bohol
<b>B. Bays</b>		
Lamon Bay	2,838	Quezon/Camarines Norte
Tayabas Bay	2,213	Quezon
Illana Bay	2,128.5	Lanao del Sur/Maguindanao
Manila Bay	1,935	Manila/Bataan/Cavite
Sibugay Bay	1,935	Zamboanga del Sur
Iligan Bay	1,811.16	Misamis Occidental/Lanao del Norte
Imuruan Bay	1,087.8	Palawan
San Miguel bay	774	Camarines Sur
Tawi-Tawi Bay	592.4	Tawi-Tawi
Butuan Bay	516	Agusan del Norte
<b>C. Gulfs</b>		
Moro Gulf	12,900	Zamboanga del Sur/Maguindanao/Sultan Kudarat
Davao Gulf	4,024	Davao del Sur/Davao del Norte/Davao Oriental
Ragay Gulf	3,225	Camarines Sur/Quezon
Leyte Gulf	2,724	Leyte Island/Samar Island
Panay Gulf	2,311	Iloilo/Negros Occidental
Lingayen Gulf	2,064	Pangasinan
Lagonoy Gulf	1,935	Albay/Camarines Sur/Catanduanes
Asid Gulf	619	Masbate
Albay Gulf	412.8	Albay
<b>D. Channels</b>		
Babuyan Channel	3,612	Cagayan/Babuyan Island
Jintotolo Channel	280	Capiz/Masbate
Maqueda Channel	129	Camarines Sur/Catanduanes
<b>E. Straits</b>		
Tablas Strait	3,870	Tablas Island/Mindoro Oriental
Mindoro Strait	3,426.2	Palawan/Mindoro Occidental
Tañon Strait	2,786.4	Cebu/Negros
Cebu Strait	1,818.9	Cebu/Bohol
Iloilo Strait	1,006	Iloilo/Guimaras
<b>F. Passages</b>		
Burias Pass	1,393.2	Burias Island/Camarines Sur
Ticao Pass	804.75	Ticao Island/Sorsogon

## D. 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

<sup>7/</sup>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)

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
<b>3. Shrimps/Prawns</b>	<b>8,969</b>	<b>51,059</b>	<b>2,437,562</b>
<b>Frozen</b>	<b>5,810</b>	<b>42,603</b>	<b>2,033,844</b>
Japan	3,330	25,830	1,233,120
U S A	1,736	11,882	567,229
Korea, Rep of South	202	1,464	69,874
Hong Kong	68	264	12,625
Canada	73	413	19,719
Taiwan	193	976	46,577
France	65	734	35,047
Others	143	1,040	49,653
<b>Fresh or chilled</b>	<b>643</b>	<b>3,652</b>	<b>174,354</b>
Taiwan	274	935	44,622
Guam	4	16	762
Korea, Republic Of South	4	57	2,729
Hong Kong	83	327	15,623
United Arab Emirates	181	1,861	88,866
Others	97	456	21,752
<b>Shrimps and Prawn, Dried</b>	<b>68</b>	<b>776</b>	<b>37,042</b>
Japan (Excludes Okinawa)	68	776	37,027
USA	a/	0	17
<b>Prepared and Preserved</b>	<b>2,448</b>	<b>4,029</b>	<b>192,322</b>
Canada	489	766	36,561
U S A	525	932	44,479
Australia	158	447	21,327
Others	1,276	1,884	89,955
<b>Total (3) major commodities</b>	<b>150,038</b>	<b>522,668</b>	<b>24,952,190</b>
<b>Total other commodities</b>	<b>107,181</b>	<b>427,767</b>	<b>20,421,595</b>
<b>Grand Total</b>	<b>257,219</b>	<b>950,435</b>	<b>45,373,785</b>

a/ Volume less than 1 metric ton

## II. FISHERIES CONTRIBUTION TO THE ECONOMY, 2016

(Con't)

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
<b>2. Seaweeds</b>	<b>39,005</b>	<b>196,942</b>	<b>9,402,016</b>
<b>Seaweeds and Other Algae, Fresh, Chilled or Dried</b>	<b>9,561</b>	<b>7,963</b>	<b>380,168</b>
China, People'S Republic Of	1,026	554	26,436
France	325	299	14,274
USA	62	156	7,439
Spain	55	293	13,977
Others	8,093	6,662	318,042
<b>Carrageenan (Semi-refined and Refined)</b>	<b>29,444</b>	<b>188,979</b>	<b>9,021,848</b>
USA	5,560	40,640	1,940,134
Uk Great Britain And N. Ireland	1,217	6,626	316,328
Belgium	1,743	10,491	500,827
Germany	749	4,154	198,333
France	398	3,211	153,289
Thailand	1,844	15,345	732,550
Mexico	2,147	10,307	492,054
Australia	832	6,093	290,897
Brazil	861	4,259	203,301
China, People'S Republic Of	858	6,167	294,413
Others	13,235	81,687	3,899,722

*n.e.s. - not elsewhere specified*

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

1. At Current Prices	1.3%
2. At Constant Prices	1.5%

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

Industry Group	At Current Prices (P M)	% to Agri-cultural Sector	At Constant Prices (P M)	% to Agri-cultural Sector
1. Agricultural crops (Palay, corn, coconut ,etc)	780,329	55.8	338,557	47.6
2. Livestock	184,570	13.2	104,153	14.7
3. Poultry	140,255	10.0	83,478	11.7
4. Agricultural activities	105,247	7.5	57,744	8.1
6. Forestry	2,418	0.2	3,622	0.5
5. Fishing	184,796	13.2	122,955	17.3
<b>Total</b>	<b>1,397,616</b>	<b>100</b>	<b>710,510</b>	<b>100.0</b>

*Note: GDP at current and constant 2000 prices*

## 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

## 3. Major Destination of Top Three Fishery Exports by Kind, Quantity and Value, 2016

Commodity/Kind	Quantity (MT)	FOB Value	
		('000 \$)	('000 Pesos)
<b>1. Tuna</b>	<b>102,064</b>	<b>274,667</b>	<b>13,112,612</b>
<b>Fresh/chilled/frozen</b>	<b>24,540</b>	<b>85,006</b>	<b>4,058,190</b>
Japan	5,676	23,304	1,112,548
U S A	2,622	11,683	557,765
Italy	4,797	14,814	707,225
Thailand	388	1,411	67,367
Hong Kong	163	650	31,046
France	172	531	25,373
Taiwan	97	156	7,464
Uk Great Britain And N. Ireland	48	231	11,030
Spain	6,415	17,532	836,990
Vietnam	379	676	32,264
Others	3,783	14,016	669,118
<b>Prepared/Preserved</b>	<b>77,524</b>	<b>189,661</b>	<b>9,054,422</b>
U S A	9,198	29,324	1,399,951
Canada	1,543	5,785	276,163
Japan	6,520	23,090	1,102,321
Germany	12,474	37,157	1,773,895
Taiwan	24	62	2,938
United Kingdom	10,532	31,949	1,525,226
Netherlands	2,951	8,657	413,265
Papua New Guinea	849	1,192	56,911
Others	33,433	52,446	2,503,752

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

	2016			2015		
	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)	Quantity (MT)	FOB Value (P M)	FOB Value (\$ M)
Fishery Exports	257,219	45,374	950	226,821	41,401	909
Fishery Imports	384,165	22,448	475	403,840	18,790	414
Trade Balance	(126,946)	22,926	475	(177,019)	22,611	495

## 2. Major Fishery Exports in Terms of Value, 2016

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
<b>1. Tuna</b>	<b>103,542</b>	<b>283,963</b>	<b>13,556,374</b>
Fresh/chilled/frozen (excludes fillet)	24,540	85,767	4,094,512
Smoked	1,478	8,535	407,440
Prepared/preserved	77,524	189,661	9,054,422
<b>2. Seaweeds</b>	<b>39,874</b>	<b>197,839</b>	<b>9,444,811</b>
Seaweeds, Fresh ,Chilled/Frozen or Dried	1,220	878	41,924
Seaweeds for human consumption	9,210	7,982	381,039
Carrageenan	29,444	188,979	9,021,848
<b>3. Shrimps/Prawns</b>	<b>8,969</b>	<b>51,059</b>	<b>2,437,562</b>
Fresh/ chilled or frozen,dried, nes	6,521	47,031	2,245,240
Live			
Prepared and preserved	2,448	4,029	192,322
<b>4. Crabs/crabs fat &amp; crab meat</b>	<b>14,160</b>	<b>104,563</b>	<b>4,991,822</b>
Live, Frozen/Fresh or Chilled/othr crabs	10,292	50,127	2,393,061
Crab fat (Prepared/presrd)	467	8,977	428,558
Crab meat (Prepared/Preserved)	3,401	45,459	2,170,203
<b>5. Octopus</b>	<b>3,442</b>	<b>13,370</b>	<b>638,300</b>
Fresh or chilled	17.0	166	7,939
Frozen	3,425	13,204	630,361
<b>6. Grouper</b>	<b>17,345</b>	<b>57,045</b>	<b>2,723,334</b>
For breeding, live	17,345	57,045	2,723,334
Other than for breeding			
<b>7. Squid and Cuttlefish</b>	<b>4,231</b>	<b>19,995</b>	<b>954,541</b>
Live	a/	0	14
Fresh/chilled	69	97	4,642
Dried, salted or in brine	474	914	43,652
Frozen	3,305	17,110	816,826
Prepared/preserved	383	1,873	89,406
<b>8. Ornamental Fish, Live</b>	<b>6,876</b>	<b>5,951</b>	<b>284,089</b>
<b>9. Roundscad</b>	<b>130</b>	<b>324</b>	<b>15,464</b>
Frozen	79	255	12,179
Dried, salted or in brine; smoked	51	69	3,285
<b>10. Sea Cucumber</b>	<b>408</b>	<b>6,841</b>	<b>326,613</b>
Dried	408	6,841	326,613
<b>Total major commodities</b>	<b>198,977</b>	<b>740,949</b>	<b>35,372,910</b>
<b>Total of other commodities</b>	<b>58,242</b>	<b>209,486</b>	<b>10,000,876</b>
<b>Grand Total</b>	<b>257,219</b>	<b>950,435</b>	<b>45,373,785</b>

a/ - volume less than 1 metric ton

## E. Total Fish Production, by Sector, 2016

Sector	Quantity (MT)	% to total	Value Current Prices ('000 P)	% to total
1. Aquaculture	2,200,913.29	50.5	91,141,919.73	39.8
2. Municipal Fisheries	1,137,931.03	26.1	78,925,620.10	34.5
3. Commercial Fisheries	1,016,948.05	23.3	58,866,556.69	25.7
<b>Total</b>	<b>4,355,792.37</b>	<b>100.0</b>	<b>228,934,096.52</b>	<b>100.0</b>

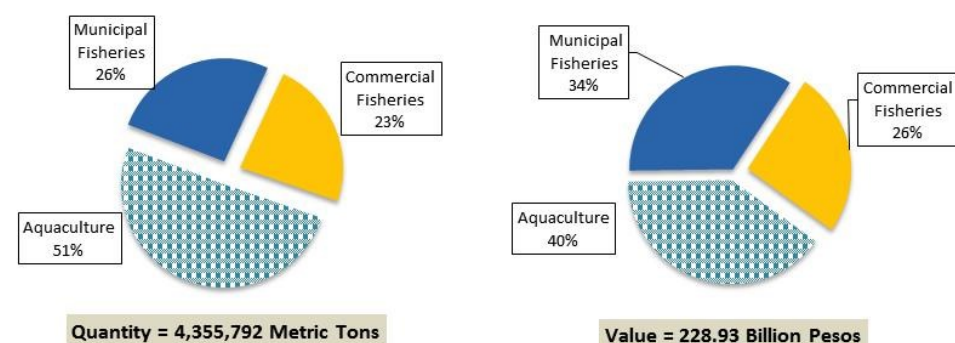


Figure 2. Total Fish Production, By Sector, 2016

**F. Fish Production, by Sector and Region, 2016**  
(in MT)

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	115,416.11	7,573.61	2,913.03	125,902.75	2.9
CAR	-	1,238.49	2,963.73	4,202.22	0.1
I	4,110.97	24,334.15	128,829.58	157,274.70	3.6
II	10,880.58	30,285.36	12,303.63	53,469.57	1.2
III	4,890.10	41,622.56	226,139.10	272,651.76	6.3
IV-A	52,995.17	105,215.74	173,029.26	331,240.17	7.6
IV-B	35,585.24	131,183.42	316,022.07	482,790.73	11.1
V	59,654.56	124,052.63	50,688.59	234,395.78	5.4
VI	73,317.77	137,404.88	186,069.35	396,792.00	9.1
VII	30,453.91	55,507.62	98,111.34	184,072.87	4.2
VIII	24,613.23	83,442.90	32,218.80	140,274.93	3.2
IX	222,535.57	125,251.76	207,579.78	555,367.11	12.8
X	39,037.53	45,729.41	82,003.43	166,770.37	3.8
XI	5,561.80	23,178.33	29,279.64	58,019.77	1.3
XII	242,020.19	36,778.50	13,209.61	292,008.30	6.7
CARAG <sup>a</sup>	5,172.64	56,189.59	14,882.63	76,244.86	1.8
ARMM	90,702.68	108,942.08	624,669.75	824,314.51	18.9
<b>Total</b>	<b>1,016,948.05</b>	<b>1,137,931.03</b>	<b>2,200,913.34</b>	<b>4,355,792.40</b>	<b>100.00</b>

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

**1. Export of Fish and Fishery Products by Kind, Quantity and Value, 2016**

Commodity/Kind	Quantity MT	FOB Value	
		('000 \$)	('000 Pesos)
A. Fish, Crustaceans, Molluscs, etc. and Preparation	204,999	724,553	34,590,159
A.1 Fish, fresh (live/dead), Chilled/Frozen	79,990	280,972	13,413,589
A.2 Fish, dried, salted/in brine; smoked fish	4,289	18,920	903,240
A.3 Crustaceans, molluscs and aquatic invertebrates, chilled/frozen	28,160	155,175	7,408,072
A.4 Fish and other aquatic invertebrate, prepared/preserved	92,560	269,486	12,865,259
B. Shells and by-products	4,041	19,279	920,369
C. Miscellaneous fishery products and other by-product	48,179	206,604	9,863,257
<b>Grand Total</b>	<b>257,219</b>	<b>950,435</b>	<b>45,373,785</b>

## EXTERNAL TRADE



### F.a. Value of Fish Production, by Sector and Region, 2016 (in '000 P)

Region	Commercial	Municipal	Aquaculture	Total	% share to total
NCR	4,333,856.26	788,369.59	146,424.70	5,268,650.55	2.3
CAR	.	130,904.33	293,898.20	424,802.53	0.2
I	376,789.89	2,112,966.49	13,291,661.39	15,781,417.77	6.9
II	914,905.81	2,585,130.79	1,387,710.88	4,887,747.48	2.1
III	426,373.44	3,636,584.61	26,715,848.68	30,778,806.73	13.4
IV-A	4,669,639.51	4,555,221.90	11,269,779.99	20,494,641.40	9.0
IV-B	1,714,727.63	7,756,153.82	1,808,213.33	11,279,094.78	4.9
V	3,377,734.34	8,684,868.22	2,448,179.05	14,510,781.61	6.3
VI	5,862,466.87	11,775,129.20	9,303,149.19	26,940,745.26	11.8
VII	2,186,932.74	4,530,502.89	1,434,550.20	8,151,985.83	3.6
VIII	1,957,603.73	6,662,468.13	914,223.88	9,534,295.74	4.2
IX	8,280,330.70	6,488,075.05	2,610,853.25	17,379,259.00	7.6
X	2,357,369.25	3,472,801.89	11,347,885.39	17,178,056.53	7.5
XI	662,995.01	2,093,672.46	1,995,583.31	4,752,250.78	2.1
XII	18,012,913.48	2,413,577.86	1,420,400.28	21,846,891.62	9.5
CARAGA	435,813.02	4,773,927.44	744,181.78	5,953,922.24	2.6
ARMM	3,296,105.01	6,465,265.43	4,009,376.23	13,770,746.67	6.0
<b>Total</b>	<b>58,866,556.69</b>	<b>78,925,620.10</b>	<b>91,141,919.73</b>	<b>228,934,096.52</b>	<b>100.00</b>

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

## G. Fish Production, by Sector 2007-2016

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

Year	Aquaculture	Municipal	Commercial	Total
2016	2,200,913.3	1,137,931.0	1,016,948.1	4,355,792.4
2015	2,348,161.1	1,216,526.7	1,084,624.7	4,649,312.5
2014	2,337,605.0	1,244,259.0	1,107,220.8	4,689,084.7
2013	2,373,386.5	1,264,416.5	1,067,610.3	4,705,413.3
2012	2,541,965.4	1,280,849.0	1,042,317.9	4,865,132.3
2011	2,608,119.8	1,332,647.8	1,032,820.1	4,973,587.8
2010	2,545,967.1	1,371,389.8	1,242,101.8	5,159,458.7
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

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

Year	Aquaculture	Municipal	Commercial	Total
2016	91,141,919.7	78,925,620.1	58,866,556.7	228,934,096.5
2015	93,340,915.7	81,486,171.5	64,875,286.4	239,702,373.6
2014	93,949,010.0	81,805,031.3	66,189,808.5	241,943,849.7
2013	93,731,169.9	80,897,993.1	69,922,512.0	244,551,675.1
2012	92,289,924.7	79,527,365.5	65,894,183.8	237,711,474.0
2011	85,996,428.0	80,075,629.8	58,623,021.0	224,695,078.9
2010	82,857,454.5	77,736,463.7	60,456,931.3	221,050,849.5
2009	81,493,357.5	75,383,741.5	58,704,969.4	215,582,068.3
2008	81,669,480.6	70,973,918.9	63,170,103.2	215,813,502.7
2007	61,597,274.2	64,210,385.6	54,737,468.3	180,545,128.2

## NUMBER OF COMMERCIAL FISHING OPERATORS AND FISHING VESSELS BY REGION, AS OF JULY 4, 2016 <sup>9/</sup>

Region	No. of Operators	No of Commercial Fishing Vessels			Sub-Total
		Large Scale (>150 GT*)	Medium-Scale (20.1-150 GT)	Small-Scale (3.1-20 GT)	
NCR	600	326	825	564	1,715
CAR	-	-	-	-	-
I	151	-	44	199	243
II	71	1	11	89	101
III	158	-	80	155	235
IV-A	195	9	99	152	260
IV-B	259	-	94	244	338
V	122	1	63	146	210
VI	175	25	297	169	491
VII	200	3	153	238	394
VIII	245	-	41	213	254
IX	264	80	401	244	725
X	93	1	60	87	148
XI	107	2	73	139	214
XII	266	100	911	422	1,433
CARAGA	75	-	32	76	108
ARMM	35	-	4	28	32
<b>TOTAL</b>	<b>3,016</b>	<b>548</b>	<b>3,188</b>	<b>3,165</b>	<b>6,901</b>

\* GT - Gross tonnage



## B. COMMERCIAL FISHERIES PRODUCTION, BY MAJOR FISH SPECIES, 2016

Major Species	Total (MT)	% to Total
1. Indian Sardines (Tamban)	205,986.05	20.3
2. Skipjack (Gulyasan)	189,612.00	18.6
3. Roundscad (Galunggong)	156,187.23	15.4
4. Frigate Tuna (Tulingan)	77,097.77	7.6
5. Yellowfin Tuna (Tambakol/Bariles)	67,916.78	6.7
6. Big-eyed Scad (Matang-baka)	46,239.51	4.5
7. Fimbriated Sardines (Tunsoy)	39,343.13	3.9
8. Indian Mackerel (Alumahan)	23,933.15	2.4
9. Eastern Little Tuna (Bonito)	21,227.50	2.1
10. Slipmouth (Sapsap)	14,900.87	1.5
11. Indo-pacific Mackerel (Hasa-hasa)	13,470.57	1.3
12. Other Species	161,033.49	15.8
<b>Total</b>	<b>1,016,948.05</b>	<b>100.0</b>

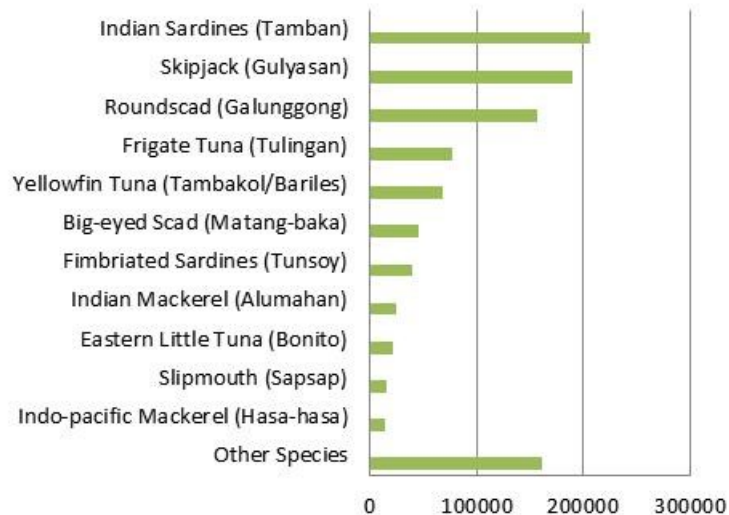
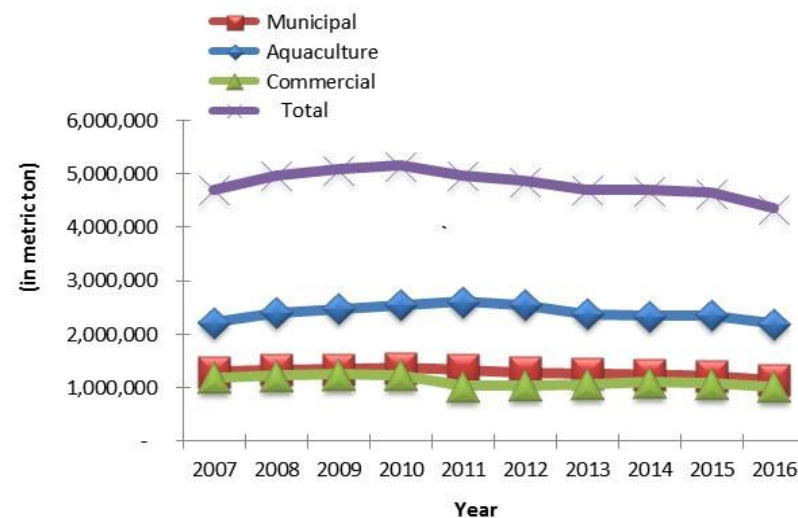


Fig 6. Commercial Fisheries Production, by Major Fish Species, 2016

## Volume of Fish Production, By Sector 2007-2016



## Value of Fish Production, By Sector 2007-2016

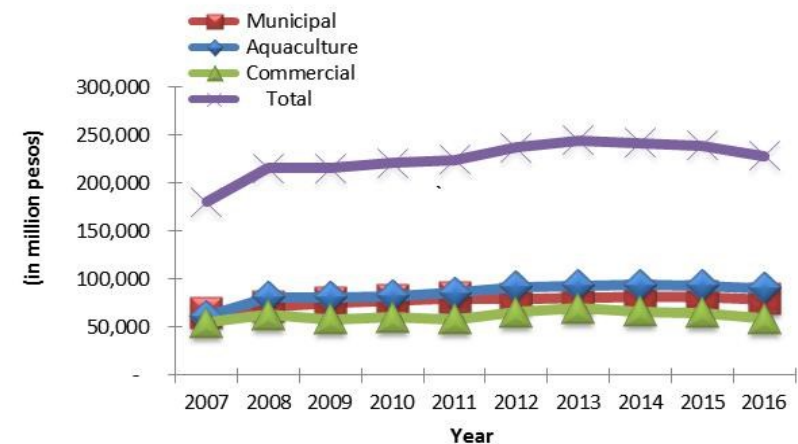


Figure 3

#### H. Five Year Fish Production, Trend 2012-2016

Year	Quantity (in '000 MT)	% Increase/ (Decrease)	Value ('000 P)	% Increase/ (Decrease)
2016	4,356	(6.3)	228,934,097	(4.5)
2015	4,649	(0.8)	239,702,375	(0.9)
2014	4,689	(0.3)	241,943,850	(1.1)
2013	4,705	(3.3)	244,551,675	2.9
2012	4,865	(2.2)	237,711,474	5.8

#### Five Year Fish Production, Trend 2012-2016

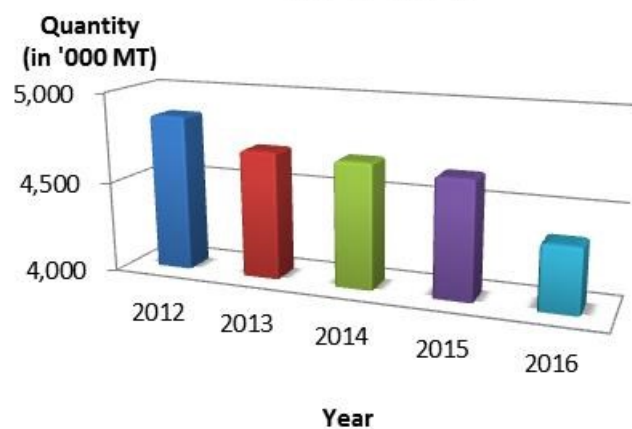


Figure 4

#### A. COMMERCIAL FISH PRODUCTION, BY REGION AND BY TYPE OF LANDING CENTERS, 2016 (in MT)

Region	Private	PFDA	LGU	Traditional	Total
NCR	-	109,758.29	-	5,657.82	115,416.11
I	-	2,258.14	-	1,852.83	4,110.97
II	-	-	-	10,880.58	10,880.58
III	1,347.97	-	57.58	3,484.55	4,890.10
IV-A	-	3,739.13	8,135.34	41,120.70	52,995.17
IV-B	-	-	-	35,585.24	35,585.24
V	6,644.50	-	20,112.73	32,897.33	59,654.56
VI	2,317.10	5,694.03	12,031.40	53,275.24	73,317.77
VII	5,778.54	-	4,141.86	20,533.51	30,453.91
VIII	-	-	18.23	24,595.00	24,613.23
IX	137,871.83	17,700.38	37,114.90	29,848.46	222,535.57
X	-	-	10,163.92	28,873.61	39,037.53
XI	1,215.15	2,179.78	820.71	1,346.16	5,561.80
XII	42,744.84	195,227.72	-	4,047.63	242,020.19
ARMM	-	-	-	90,702.68	90,702.68
Caraga	-	-	538.00	4,634.64	5,172.64
<b>TOTAL</b>	<b>197,919.93</b>	<b>336,557.47</b>	<b>93,134.67</b>	<b>389,335.98</b>	<b>1,016,948.05</b>

## COMMERCIAL FISHERIES PRODUCTION, 2016

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



## AQUACULTURE PRODUCTION, 2016

This includes production from the following:

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



**8 A SUMMARY OF AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT AND REGION, 2016**  
(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-pond	Fish cage	Fish pen	Total	Fish cage				Fish pen	Total
NCR	2,913	32,54	-	-	33	-	347	1,998	2,346	-	-	-	535	-	-
CAR	2,964	-	-	-	-	1,854	1,110	-	2,964	-	-	-	-	-	-
I	128,830	30,329	148	2,032	32,509	7,229	51	3	7,283	76,137	11,026	87,163	1,866	6	3
II	12,304	3,818	45	-	3,863	7,216	362	-	7,578	-	-	-	840	23	-
III	226,139	93,355	-	-	93,355	119,687	12	-	119,699	8,026	-	8,026	5,059	-	-
IV-A	173,029	34,316	-	-	34,316	701	86,635	44,842	132,178	4	-	4	6,531	-	-
IV-B	316,022	2,856	-	-	2,856	176	-	-	176	68	-	68	312,923	-	-
V	50,689	8,044	-	-	8,044	1,391	6,578	-	7,969	35	36	71	34,604	-	-
VI	186,069	81,863	4	31	81,898	2,369	-	-	2,369	340	187	527	101,275	0.02	1.0
VII	98,111	8,003	0	6	8,009	113	3	-	116	463	17	480	89,506	-	-
VIII	32,219	6,851	14	9	6,875	287	11	-	298	183	0.3	183	24,863	-	-
IX	207,580	13,989	0	-	13,989	99	-	1	100	84	-	84	193,406	-	-
X	82,003	38,030	-	-	38,030	846	-	-	846	3,163	-	3,163	39,965	0.4	-
XI	29,280	2,440	6	1	2,447	2,687	3	0	2,690	16,231	37	16,268	7,874	1	-
XII	13,210	7,062	-	-	7,062	715	2,041	2,674	5,430	619	-	619	71	27	-
CARAG	14,883	2,658	761	7	3,427	86	146	-	232	907	4	911	10,313	-	-
ARMM	624,670	3,934	-	-	3,934	200	270	7,091	7,561	0.3	-	0	613,174	-	-
<b>TOTAL</b>	<b>2,200,913</b>	<b>337,582</b>	<b>979</b>	<b>2086</b>	<b>340,647</b>	<b>145,655</b>	<b>97,569</b>	<b>56,611</b>	<b>299,835</b>	<b>106,257.4</b>	<b>11,307.2</b>	<b>117,565</b>	<b>1,442,806</b>	<b>56.7</b>	<b>3.6</b>

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

**C. NUMBER OF MUNICIPAL FISHING VESSELS, BY REGION, 2016\***

Region	No. of Municipal Fishing Vessel Registered
NCR	718
CAR	234
I	3,571
II	6,500
III	3,892
IV-A	11,214
IV-B	23,172
V	13,804
VI	24,761
VII	27,036
VIII	22,211
IX	13,602
X	6,946
XI	6,392
XII	7,243
CARAGA	6,245
ARMM	14,810
<b>TOTAL</b>	<b>192,351</b>

\* Source of Data as of July 4, 2016

BFAR - National Program for the Municipal Fishing Vessels and Gears Registration (BoatR)

## B. MARINE MUNICIPAL FISH CATCH, BY MAJOR FISH SPECIES, 2016

(in MT)

Major Species	Total (MT)	% to Total
Frigate Tuna (Tulingan)	56,788.62	5.8
Big-eyed Scad (Matang-baka)	66,586.65	6.8
Roundscad (Galunggong)	55,589.27	5.7
Indian Sardines (Tamban)	74,486.70	7.6
Indian Mackerel (Alumahan)	39,386.85	4.0
Anchovies (Dilil)	37,240.31	3.8
Yellowfin tuna (Tambakol)	35,120.37	3.6
Squid (Pusit)	40,173.96	4.1
Fimbriated Sardines (Tunsoy)	37,242.60	3.8
Slipmouth (Sapsap)	33,721.79	3.5
Others	500,604.07	51.2
<b>Total</b>	<b>976,941.19</b>	<b>100.0</b>

## C. INLAND MUNICIPAL FISH CATCH BY MAJOR SPECIES, 2016

(in MT)

Major Species	Total	% to Total
Milkfish (Bangus)	4,566.90	2.84
Tilapia	41,676.94	25.89
Carp (Carpa)	13,070.30	8.12
Big-head carp	1,591.76	0.99
Silver perch (Ayungin)	1,887.62	1.17
Freshwater goby (Biya)	3,278.83	2.04
Mudfish	8,828.96	5.48
Freshwater catfish (Hito)	5,735.05	3.56
Freshwater Shrimps	3,116.62	1.94
Gourami	4,286.31	2.66
Mullet (Kapak)	931.18	0.58
Freshwater sardines (Tawilis)	901.18	0.56
Others	117,362.03	72.90
<b>Total</b>	<b>160,989.84</b>	<b>128.72</b>

## B. AQUACULTURE PRODUCTION BY CULTURE ENVIRONMENT, BY REGION AND SPECIES, 2016

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

#### a) Fishpond

Region	Total	Milkfish	Tiger Prawn	W. Shrimp & Endeavor Prawn	Tilapia	Mudcrab	Groupers	Siganid	Others
NCR	32.54	15.31	0.80	-	0.50	1.23	..	..	14.70
CAR	-	..	..	-	-	..	..	..	..
I	30,329.43	22,850.19	1,774.91	93.65	5,068.23	12.09	..	50.82	479.54
II	3,818.43	472.60	37.50	113.90	1,676.19	39.33	0.26	13.64	1,465.01
III	93,355.43	55,539.36	24,164.58	508.06	6,981.31	4,154.31	0.10	..	2,007.71
IV-A	34,316.18	33,581.06	192.26	76.14	2.08	119.76	15.52	..	329.36
IV-B	2,855.63	2,488.22	334.91	0.16	14.84	7.21	..	0.07	10.22
V	8,044.13	4,158.10	2,298.74	278.50	227.92	1,051.27	3.57	..	26.03
VI	81,862.55	76,831.30	1,266.86	174.85	1,090.17	1,759.73	0.74	0.02	738.88
VII	8,002.98	5,234.04	203.45	5.77	175.94	3.26	..	..	2,380.52
VIII	6,851.44	6,395.63	108.86	-	36.82	308.76	..	..	1.37
IX	13,989.01	8,872.50	2,360.49	802.12	1,338.50	615.40	..	..	..
X	38,030.21	13,422.09	15,471.30	54.61	510.80	8,571.41	..	..	..
XI	2,439.72	1,551.00	243.18	23.83	117.32	2.74	..	0.03	501.62
XII	7,062.43	4,864.94	2.49	0.16	127.49	1.07	..	..	2,066.28
CARAGA	2,658.27	1,628.37	413.29	26.79	14.01	120.03	..	0.02	455.76
ARMIM	3,933.80	3,298.72	265.63	150.88	129.67	88.89	..	..	0.01
<b>TOTAL</b>	<b>337,582.21</b>	<b>241,203.44</b>	<b>49,139.25</b>	<b>2,309.42</b>	<b>17,511.80</b>	<b>16,856.49</b>	<b>20.19</b>	<b>64.61</b>	<b>10,477.01</b>

**b) Fish cage**

Region	Total	Milkfish	Tilapia	Grouper	Siganid	Others
NCR	-	..	..	..	..	..
CAR	-	..	..	..	..	..
I	148.20	37.87	82.88	0.58	25.34	1.53
II	44.59	2.82	11.22	1.36	29.13	0.06
III	-	..	..	..	..	..
IV-A	-	..	..	..	..	..
IV-B	-	..	..	..	..	..
V	-	..	..	..	..	..
VI	3.88	..	..	3.72	0.12	0.04
VII	0.30	0.30	..	..	..	..
VIII	14.16	14.16	..	..	..	..
IX	0.14	..	..	0.08	..	0.06
X	-	..	..	..	..	..
XI	6.43	6.40	0.02	..	..	0.01
XII	-	..	..	..	..	..
CARAGA	761.19	761.18	0.01	..	..	..
ARMM	-	..	..	..	..	..
<b>TOTAL</b>	<b>978.89</b>	<b>822.73</b>	<b>94.13</b>	<b>5.74</b>	<b>54.59</b>	<b>1.70</b>

a/- Volume less than .01 metric ton

**A. MUNICIPAL FISHERIES PRODUCTION, BY REGION, 2016  
(in MT)**

Region	Marine	Inland	Total
NCR	7,573.61	-	7,573.61
CAR	-	1,238.49	1,238.49
I	22,570.89	1,763.26	24,334.15
II	20,894.72	9,390.64	30,285.36
III	27,682.48	13,940.08	41,622.56
IV-A	36,212.62	69,003.12	105,215.74
IV-B	129,649.28	1,534.14	131,183.42
V	119,484.74	4,567.89	124,052.63
VI	130,602.24	6,802.64	137,404.88
VII	55,336.65	170.97	55,507.62
VIII	82,753.17	689.73	83,442.90
IX	124,275.21	976.55	125,251.76
X	41,657.59	4,071.82	45,729.41
XI	23,006.75	171.58	23,178.33
XII	15,221.16	21,557.34	36,778.50
CARAGA	51,748.16	4,441.43	56,189.59
ARMM	88,271.92	20,670.16	108,942.08
<b>TOTAL</b>	<b>976,941.19</b>	<b>160,989.84</b>	<b>1,137,931.03</b>

## MUNICIPAL FISHERIES

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



### c) Fish pen

Region	Total	Milkfish	Siganid	Grouper	Tilapia	Others
NCR	..	..	..	..	..	..
CAR	..	..	..	..	..	..
I	2,031.78	1,975.22	3.15		51.25	2.16
II	-	..	..	..	..	..
III	-	..	..	..	..	..
IV-A	-	..	..	..	..	..
IV-B	-	..	..	..	..	..
V	-	..	..	..	..	..
VI	31.22	31.12	..	..	..	0.10
VII	5.68	1.52	..	..	4.16	..
VIII	9.27	6.90	..	..	2.29	0.08
IX	-	..	..	..	..	..
X	-	..	..	..	..	..
XI	1.01	0.92	0.04	..	..	0.05
XII	-	..	..	..	..	..
CARAGA	7.22	7.22	..	..	..	..
ARMM	-	..	..	..	..	..
<b>TOTAL</b>	<b>2,086.18</b>	<b>2,022.90</b>	<b>3.19</b>	<b>-</b>	<b>57.70</b>	<b>2.39</b>

## 2. Production from Freshwater (in MT)

### a) Fishpond

Region	Total	Tilapia	Milkfish	Carp	Catfish	Mudfish	Gourami	water Prawn	Others
NCR	-	..	..	..	..	..	..	..	..
CAR	1,854.07	1,853.90	..	0.12	0.04	0.01	..	..	..
I	7,228.76	7,180.93	2.53	7.26	0.50	36.41	0.82	0.01	0.30
II	7,215.62	7,068.03	..	12.40	110.73	18.38	0.01	0.98	5.09
III	119,686.71	117,416.40	..	240.08	1,307.67	604.23	106.76	0.17	11.40
IV-A	701.11	470.46	..	0.15	226.71	0.29	..	0.03	3.47
IV-B	176.16	176.03	0.01	-	0.08	0.04	..	..	..
V	1,391.36	1,279.92	..	1.93	75.48	2.08	..	..	31.95
VI	2,366.87	1,402.22	..	..	963.27	0.08	..	0.18	1.12
VII	113.46	113.00	..	0.20	0.15	0.11	..	..	..
VIII	286.75	285.27	0.01	0.38	0.48	0.37	..	..	0.24
IX	98.97	69.09	..	-	..	29.88	..	..	..
X	845.51	692.08	..	88.08	4.03	61.07	..	0.24	0.01
XI	2,686.66	2,009.48	..	0.47	621.90	52.40	2.32	0.02	0.07
XII	714.95	377.36	0.06	1.36	274.68	54.06	0.17	..	7.26
CARAGA	86.25	82.69	2.78	0.55	..	0.16	..	..	0.07
ARMM	200.15	61.85	..	..	138.30	..	..	..	..
<b>TOTAL</b>	<b>145,655.33</b>	<b>140,540.72</b>	<b>5.37</b>	<b>352.98</b>	<b>3,724.02</b>	<b>859.57</b>	<b>110.08</b>	<b>1.63</b>	<b>60.97</b>

## D. MAJOR SPECIES PRODUCED IN AQUACULTURE FISHERIES, 2016

Species	Quantity (MT)	Percent (%)
Seaweeds	1,404,519	63.82
Milkfish	398,088	18.09
Tilapia	259,045	11.77
Shrimps/Prawns	51,449	2.34
Others	87,813	3.99
<b>Total</b>	<b>2,200,913</b>	<b>100.00</b>

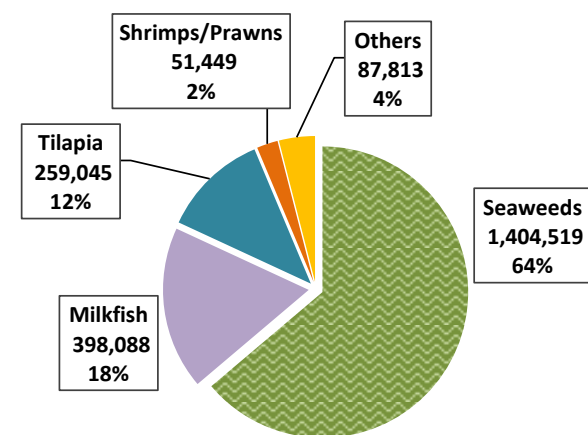


Figure 5. Major Species Produced in Aquaculture, 2016 (in Metric Ton)



### Seaweeds

Region	Total
NCR	..
CAR	..
I	26.03
II	196.89
III	300.18
IV-A	3,642.01
IV-B	312,922.64
V	34,199.45
VI	81,800.26
VII	88,737.40
VIII	18,411.26
IX	193,107.61
X	39,964.15
XI	7,652.49
XII	71.36
CARAGA	10,313.22
ARMM	613,174.28
<b>TOTAL</b>	<b>1,404,519.23</b>

### b) Fish cage

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	347.29	289.18	..	48.61	..	9.50
CAR	1,109.66	1,109.64	..	0.02	..	..
I	51.39	49.78	0.26	0.08	1.27	-
II	362.33	362.33	..	..	..	..
III	12.26	12.26	..	..	..	..
IV-A	86,635.01	72,393.26	12,879.76	1,361.99	..	..
IV-B	-	..	..	..	..	..
V	6,578.13	6,566.14	..	11.99	..	..
VI	-	..	..	..	..	..
VII	2.64	2.64	..	..	..	..
VIII	10.90	10.90	..	..	..	..
IX	-	..	..	..	..	..
X	0.08	0.08	..	..	..	..
XI	2.59	1.65	..	-	0.92	0.02
XII	2,041.06	2,040.14	..	..	..	0.92
CARAGA	145.81	143.10	2.71	..	..	..
ARMM	269.72	204.04	65.68	..	..	..
<b>TOTAL</b>	<b>97,568.87</b>	<b>83,185.14</b>	<b>12,948.41</b>	<b>1,422.69</b>	<b>2.19</b>	<b>10.44</b>

### c) Fish pen

Region	Total	Tilapia	Milkfish	Carp	Catfish	Others
NCR	1,998.4	4.4	1,992.7	1.0	..	0.3
CAR	-	..	..	..	..	..
I	3.0	1.9	1.1	..	..	0.1
IV-A	44,842.0	9,793.2	19,978.6	15,070.1	..	..
IX	1.4	1.4	..	..	..	..
XI	0.4	0.4	..	..	..	..
XII	2,674.3	2,036.3	638.0	..	..	..
CARAGA	-	..	..	..	..	..
ARMM	7,091.5	5,766.6	1,324.6	..	0.2	..
<b>TOTAL</b>	<b>56,610.8</b>	<b>17,604.1</b>	<b>23,935.0</b>	<b>15,071.1</b>	<b>0.2</b>	<b>0.4</b>

### d) Small-farm Reservoir

Region	Total	Tilapia	Carp	Catfish	Gourami	Mudfish	Others
I	6.04	5.36	0.02	0.30	0.02	0.20	0.14
II	22.51	18.94	1.56	0.94	..	0.93	0.14
VI	0.02	0.02	..	..	..	..	..
X	0.38	0.32	..	0.03	..	0.03	..
XI	1.24	0.56	..	0.40	..	..	0.28
XII	26.51	22.09	0.74	1.07	0.63	1.91	0.07
<b>TOTAL</b>	<b>56.67</b>	<b>47.29</b>	<b>2.32</b>	<b>2.74</b>	<b>0.65</b>	<b>3.04</b>	<b>0.63</b>

### e) Rice Fish

Region	Total	Milkfish	Tilapia	Carp	Catfish	Gourami	Mudfish	Others
I	2.58	-	1.39	0.12	0.12	0.42	0.15	0.38
VI	1.01	0.21	0.79	-	0.01	-	-	-
<b>TOTAL</b>	<b>3.59</b>	<b>0.21</b>	<b>2.18</b>	<b>0.12</b>	<b>0.13</b>	<b>0.42</b>	<b>0.15</b>	<b>0.38</b>

### Tilapia

Region	Total	Brackishwater		Freshwater		Small-farm Reservoir	Rice Fish	Marine	
		Fishpond	Fish cage	Fishpond	Fish cage			Fish cage	Fish pen
NCR	294.10	0.50	..	..	289.18	..	..	..	..
CAR	2,963.54	..	..	1,853.90	1,109.64	..	..	..	..
I	12,441.68	5,068.23	82.88	7,180.93	49.78	5.36	1.39	..	..
II	9,136.71	1,676.19	11.22	7,068.03	362.33	18.94	..	..	..
III	124,409.96	6,981.31	..	117,416.39	12.26	-	..	..	..
IV-A	82,659.04	2.08	..	470.46	72,393.26	..	..	..	..
IV-B	190.87	14.84	..	176.03	..	..	..	..	..
V	8,073.98	227.92	..	1,279.92	6,566.14	..	..	..	..
VI	2,495.41	1,090.17	..	1,404.22	..	0.02	0.79	0.21	..
VII	296.98	175.94	..	113.00	2.64	..	..	1.23	..
VIII	335.28	36.82	..	285.27	10.90	..	..	..	..
IX	1,408.94	1,338.50	..	69.09	..	..	..	..	..
X	1,203.28	510.80	..	692.08	0.08	0.32	..	..	..
XI	2,129.38	117.32	0.02	2,009.48	1.65	0.56	..	..	..
XII	4,603.37	127.49	..	377.36	2,040.14	22.09	..	..	..
CARAGA	239.81	14.01	0.01	82.69	143.10	-	..	..	..
ARMM	6,162.19	129.67	..	61.85	204.04	-	..	..	..
<b>TOTAL</b>	<b>259,044.54</b>	<b>17,511.80</b>	<b>94.13</b>	<b>140,540.71</b>	<b>83,185.14</b>	<b>47.29</b>	<b>2.18</b>	<b>1.44</b>	<b>..</b>

## C. AQUACULTURE PRODUCTION OF MAJOR COMMODITIES BY CULTURE ENVIRONMENT AND BY REGION, 2016

(In Metric Tons)

## Milkfish

Region	Total	Brackishwater		Freshwater		Marine		Small Farm Reservoir
		Fishpond	Fish cage	Fishpond	Fish cage	Fish cage	Fish pen	
NCR	2,007.97	15.31	..	..	..	..	..	..
CAR	-	..	..	..	..	..	..	..
I	112,026.19	22,850.19	37.87	1,975.22	2.53	0.26	76,133.69	11,025.36
II	475.42	472.60	2.82	..	..	..	..	..
III	63,565.02	55,539.36	..	..	..	..	8,025.66	..
IV-A	66,439.45	33,581.06	..	..	..	12,879.76	..	..
IV-B	2,514.37	2,488.22	..	..	0.01	..	26.14	..
V	4,194.07	4,158.10	..	..	..	..	..	35.97
VI	77,255.64	76,831.30	..	31.12	..	..	..	187.31
VII	5,703.27	5,234.04	0.30	1.52	..	..	205.91	16.18
VIII	6,595.60	6,395.63	14.16	6.90	0.01	..	451.23	0.26
IX	8,922.50	8,872.50	..	..	..	..	178.64	..
X	16,582.95	13,422.09	..	..	..	..	50.00	..
XI	17,759.60	1,551.00	6.40	0.92	..	..	3,160.86	..
XII	6,054.59	4,864.94	..	..	0.06	..	16,164.58	36.70
CARAGA	3,301.99	1,628.37	761.18	7.22	2.78	2.71	551.58	..
ARMM	4,689.35	3,298.72	..	..	..	65.68	899.73	..
<b>TOTAL</b>	<b>398,087.98</b>	<b>241,203.43</b>	<b>822.73</b>	<b>2,022.90</b>	<b>5.39</b>	<b>12,948.41</b>	<b>105,848.35</b>	<b>11,301.78</b>

## 3. Production from Marine Waters (in MT)

## a) Fish cage

Region	Total	Milkfish	Grouper	Cavalla	Siganid	Snapper	Spiny lobster	Tiger Prawn	Tilapia	Others
NCR	-	..	..	..	..	-	..	-	-	..
CAR	-	..	..	..	..	-	..	-	-	..
I	76,136.91	76,133.69	0.51	..	0.53	-	..	-	-	2.18
II	-	..	..	..	..	-	..	-	-	..
III	8,025.66	8,025.66	..	..	..	-	..	-	-	..
IV-A	4.04	..	3.99	..	..	0.05	..	-	-	..
IV-B	67.59	26.14	41.08	0.02	..	-	..	-	-	0.35
V	34.68	..	33.86	0.82	..	-	..	-	-	..
VI	339.34	205.91	105.00	1.70	..	24.05	0.18	-	-	2.50
VII	462.56	451.23	4.51	..	0.48	2.14	..	-	1.23	2.97
VIII	183.04	178.64	3.94	..	..	-	..	0.23	-	0.23
IX	83.84	50.00	33.01	..	0.33	-	0.50	-	-	..
X	3,162.69	3,160.86	0.33	..	1.50	-	..	-	-	..
XI	16,230.78	16,164.58	0.02	..	59.95	-	..	-	-	6.23
XII	619.00	551.58	0.04	0.35	0.80	-	..	-	-	66.23
CARAGA	906.92	899.73	1.50	..	0.21	-	5.42	-	-	0.06
ARMM	0.33	0.33	..	..	..	-	..	-	-	..
<b>TOTAL</b>	<b>106,257.36</b>	<b>105,848.35</b>	<b>227.79</b>	<b>2.89</b>	<b>63.80</b>	<b>26.24</b>	<b>6.10</b>	<b>0.23</b>	<b>1.23</b>	<b>80.75</b>

## b) Fish pen

Region	Total	Milkfish	Grouper	Siganid	Spiny Lobster	Others
NCR	-	..	..	-	-	..
CAR	-	..	..	-	-	..
I	11,025.74	11,025.36	0.38	-	-	
II	-	..	..	-	-	..
III	-	..	..	-	-	..
IV-A	-	..	..	-	-	..
IV-B	-	..	..	-	-	..
V	35.97	35.97	..	-	-	..
VI	187.31	187.31	..	-	-	..
VII	17.33	16.18	0.14	-	-	1.01
VIII	0.30	0.26	0.04	-	-	..
IX	-	..	..	-	-	..
X	-	..	..	-	-	..
XI	36.84	36.70	0.05	0.02	-	0.07
XII	-	..	..	..	-	..
CARAGA	3.76	..	0.12		3.64	
ARMM	-	..	..	..		..
<b>TOTAL</b>	<b>11,307.25</b>	<b>11,301.78</b>	<b>0.73</b>	<b>0.02</b>	<b>3.64</b>	<b>1.08</b>

## 4. Production from Mariculture (in MT)

Region	Total	Oyster	Mussels	Seaweeds
NCR	534.84	..	534.84	..
CAR	-	..	..	..
I	1,865.72	1,391.41	448.28	26.03
II	840.16	643.27	..	196.89
III	5,059.05	4,323.08	435.79	300.18
IV-A	6,531.01	454.79	2,434.21	3,642.01
IV-B	312,922.64	..	..	312,922.64
V	34,604.34	..	404.89	34,199.45
VI	101,274.91	11,409.64	8,065.01	81,800.26
VII	89,506.38	768.98	..	88,737.40
VIII	24,863.17	0.94	6,450.97	18,411.26
IX	193,406.47	298.86	..	193,107.61
X	39,964.58	0.01	0.42	39,964.15
XI	7,874.02	221.38	0.15	7,652.49
XII	71.36	..	..	71.36
CARAGA	10,313.22	..	..	10,313.22
ARMM	613,174.28	..	..	613,174.28
<b>TOTAL</b>	<b>1,442,806.15</b>	<b>19,512.36</b>	<b>18,774.56</b>	<b>1,404,519.23</b>