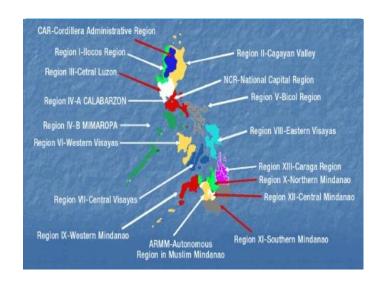


OUTLINE

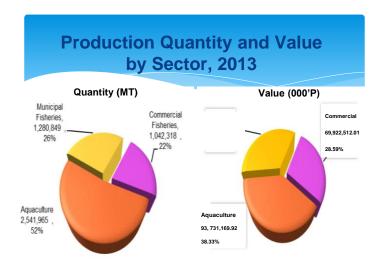
- I. Introduction
- II. Legal Framework
- III. BFAR Food Safety and Quality Assurance Program for Aquaculture Products
- IV. Food Safety Issues and Product Standards

- V. Product Testing and Laboratory Support Services
- VI. Certification of Aquafarms and Processing Establishments
- VII. Philippine Aquaculture Product Forms
- VIII. Traceability
- IX. Sanctions on Non-conformances





Total fish production				
	2012	2013		
VOLUME (MT)	4, 865, 132. 30 MT	4, 705, 413.30 MT		
VALUE ('000 P)	P 237, 711, 473.99	244, 551, 675.07		



II. The Legal Framework

- Philippine Rules and Regulations
- * WTO-GATT agreement on SPS
- * International regulations (EU, US, Japan, Australia, Vietnam, People's Republic of China, Canada)
- * Codex Alimentarius Commission Guidelines (CAC/GL)
- * UN-FAO Code of Conduct for Responsible Fisheries

III. BFAR Food Safety and Quality Assurance Program for Aquaculture Products

1. Registration of Aquafarms





2. Inspection and Monitoring of Aquafarms





3. National Residue Monitoring and Control Program





4. Registration of feed millers





5. Fish Health Management and Disease Diagnostics Surveillance Program



IV. Food safety issues related to Aquaculture

Banned /prohibited antibiotics

- * Nitrofurans
- * Chloramphenicol
- * Tetracycline
- * Malachite green
- * Pesticide residues



Food Safety Standards and Requirements for Aquaculture Products

Chemical Standards				
Parameters	Standards	Reference		
Lead	0.5 0.3	FAO 210 series of 2001 Codex 2006, EC 1881 /2006 CAC		
Cadmium	0.5	FAO 210 series of 2001		
Mercury	0.5	FAO 210 series of 2001 FAO Circular 825, 1989		
Poly-aromatic hydrocarbons (PAH) for smoked products	5.0 ppb	EC 1881 / 2006 USFDA & EPA safety levels in Regulations and Guidance CAC EC directives		

Microbiological Standards				
Parameter	Standards	Reference		
Aerobic Plate Count (APC)	500,000 cfu/g	-FAO No. 210 Section 2 Series of 2001		
Salmonella Shigella	Absent in 25 grams Absent in 25 grams	-EC No. 852 / 2004 - International Committee on		
E. coli	11 MPN/g	Microbiological Specifications for Foods (ICMSF, 1986)		
Staphylococcus	1000 cfu/g	101 100us (10MS1, 1700)		
V. cholera	Absent in 25 grams	- FDA Microbiological Requirement for fish & fishery Products (FDA Circular 2013 – 010; Feb. 27, 2013)		

Physical/Sensory Properties			
Physical attributes	Standards for shrimps (P. monodon, P. vannamei, Macrobrachium rosenbergii	Standards for finfish Milkfish, Tilapia, eel	
appearance	shiny	Bright	
odor	Characteristics of the species, no foreign obnoxious odor	Fresh characteristic of the Species	
texture	firm	Firm	
taste	Sweetish fresh taste	Neutral	
Color of meat/ flesh	Normal characteristics of product; free from any discoloration	Normal characteristic of the species; free from any discoloration	

V. Product Testing and Laboratory **Support Services**

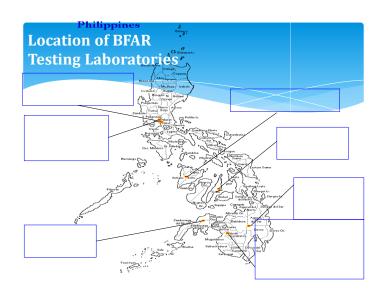
- * BFAR Testing Laboratories
- Fish Health Management and Quality Assurance Section
- Fisheries Product Testing Laboratory

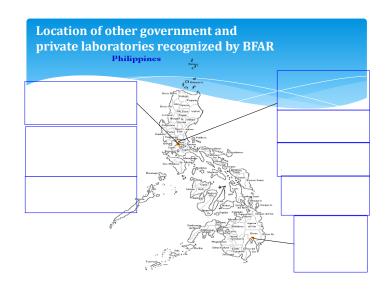


*ISO 17025 certified by PAO









VI. Certification of Aquafarms and Processing Establishments

Fishery / Aquatic Products Produced by HACCP-Certified Processing Establishments					
for Human Consumption BFAR Regional Y E A R					
Fisheries Offices	2011	2012	2013	2014	TOTAL
BFAR-Central Office Diliman, Quezon City	3,370	3,539	4,199	4,436	15,544
I San Fernando City, La Union	4	10	6	4	24
III San Fernando, Pampanga	2	4	4	3	13
IV-A Diliman, Quezon City	1,213	1,243	848	842	4,146
VII Arellano Blvd., Cebu City	63	71	183	144	461
IX Zamboanga City	433	309	189	271	1,202
XI Davao City	30	29	-	-	59
XII Koronadal City	3,318	3,546	3,915	3,630	14,409
TOTAL	8,433	8,751	9,344	9,330	35,858

Number of Sanitary Health Certificates for the Export of Fish and

1. Certificate of Registration for aqua farms and hatcheries





3. Certificate of Recognition for the **Implementation of HACCP System – issued** to fish processing plant operators and or owners





2. Certificate of Implementation of GHP - ice plants and cold storage facility









4. The Certificate of Recognition of GMP and SSOP Implementation - issued to processing plants, pre-processing plants, buying stations, fish landing ports and auctions markets





5. The Certificate of Approval – issued to processing plants exporting to EU





Facilities	Requirements
A. Aquafarms	Conformance to Good Aquaculture Practices
B. Processing plants/establishments	Compliance to GMP-SSOP and HACCP
c. Aquaculture holding facilities	Compliance to biosecurity/SSOP

EU-Rapid Alert System for Food and Feed (RASFF) Notifications			
Year	No. of RASFF Notifications	Reasons	
2008	5	Histamine content in canned tuna exceeded the regulatory limit	
2009	1	Presence of Cadmium in canned sardines	
2010	0		
2011	0		

Year	No. of RASFF Notifications	Reasons
2012	1	E210 not declared on label of pasteurized shrimp paste
2013	0	
2014	0	
2015	0	

VII. Philippine Aquaculture Product Forms

1.Milkfish

- whole milkfish
- boneless
- smoked
- choice cuts (belly, chunks, flakes)









2. Shrimp

- whole
- IQF
- peeled and deveined
- headless









3. Value added products

- fish ball
- fish nuggets
- fish hotdog
- fish quekiam









VIII. Traceability

- * Raw materials sourced from registered farms (list of registered farms available on file)
- * Products processed in approved premises/processing plants
- * Products properly coded and labeled
- * Product recall procedures documented
- * List of buyers

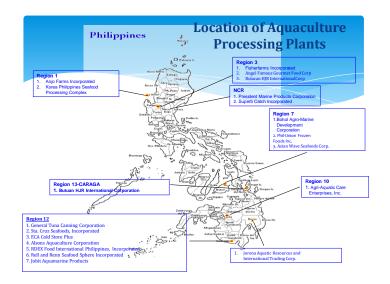
Details required for traceability:

- Origin of raw materials (approved, registered & compliant aqua-farms, fishing/freezer vessels, pre-processing plant, auction market, and fish port/landings
- ✓ Ingredients and suppliers details



Product Identification

- Identify production/batch/lot code in relevant record in every stages of production and labels
- ✓ Identify details as to whom and where the product is destined to in the distribution or shipment records





IX. Sanctions on Non-conformances

- *Fines
- *Imprisonment
- *Both fines and imprisonment
- *Non-issuance of sanitary certificates
- * Confiscation of non-conforming products
- * Delisting from approved list

