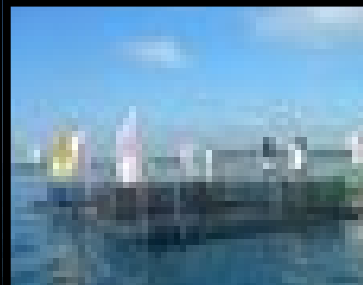




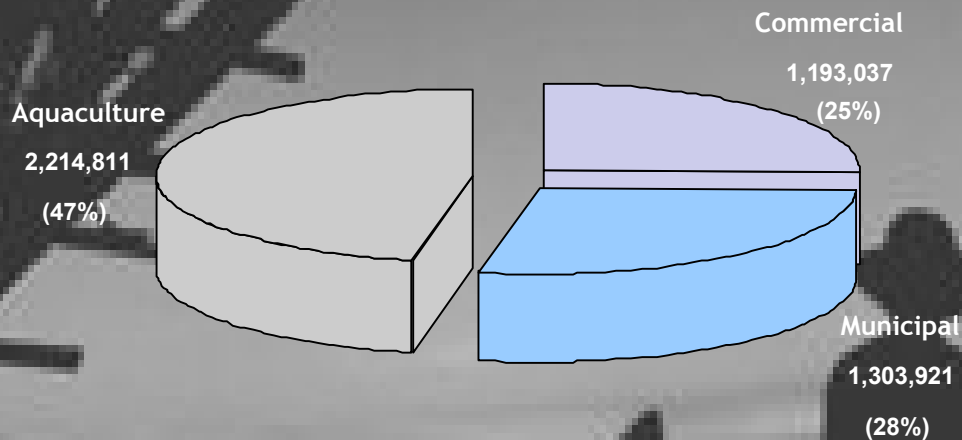
FISHERIES

Annual Report 2007



Performance

Philippine Fisheries Production by Sub-Sector
Volume (4,711,769 MT)



The agriculture sector grew by 4.68% during the period January-December 2007. The fisheries sector remained as the leading gainer during the reference period, contributing 25.44% to the total agricultural production.

The fisheries sector posted a total production of 4.7 million metric tons or a 6.88% increase from the 4.4 million metric tons produced during the same period of the previous year. In terms of value, the industry has attained a 10.58% increase from P163.3 billion in 2006 to P180.6 billion in 2007.

Of the total fisheries production, the aquaculture sub-sector accounted for 47% with production of 2.2 million metric tons, which represents a 5.86% increase from last year's aquaculture production. The municipal sub-sector followed with a 27.67% contribution to the total fisheries production equivalent to 1.3 million metric tons, posting a 5.54% increase from the previous year's production.

The commercial fisheries sector managed a 10.40% increase compared with the 2006 production. This sector contributed 25.32% to the total fisheries production.

Based on the BAS 2007 Agriculture Performance Report, the growth in the fishery sector has been attributed to: availability of good quality fingerlings for milkfish and tilapia, strict implementation of fishery laws, introduction of deep-sea Fish Aggregating Devices (FADs), newly-opened freshwater pens, establishment of fish sanctuaries, and fingerling dispersal program. Good favorable weather conditions during the first nine months of the year likewise contributed to the increase in production, which naturally encouraged more fishing days and trips, and allowed farmers to plant seaweeds.

Milestones

For CY 2007, the Bureau of Fisheries and Aquatic Resources (BFAR), its regional offices, Regional Fisheries Training Centers (RFTCs), in coordination with fishery-related agencies and local government units (LGUs), implemented the following projects and activities in support of the government's Ginintuang Masaganang Ani (GMA) for Fisheries Program:

MODERNIZED AND SOCIALLY EQUITABLE AGRICULTURE AND FISHERY SUPPORT SERVICES FOR INCREASED PRODUCTIVITY AND INCOME

PRODUCTION SUPPORT SERVICES

Agribusiness Lands Development

- ❑ The BFAR assessed and validated 14,712.327 hectares of 'new lands' (off-shore and inland bodies of water for mariculture and aquaculture development) for fisheries primarily intended for tilapia freshwater fishponds, fishpens and fishcages (2,000.262 hectares); brackishwater fishponds and mariculture parks for bangus (2,862.69 hectares), seaweeds (7,613.82 hectares) and 2,235.555 hectares for other fisheries commodities and activities that include *polyculture*, *aquasilviculture*, mussels, oysters and stock enhancement.
- ❑ The Bureau has facilitated the development and, in part, developed about 14,543.897 hectares of "new lands" for agribusiness, consisting of 1,656.674 hectares for tilapia farming, 3,015.747 hectares for bangus farming, 7,925.196 seaweeds culture and 1,946.28 hectares for other commodities and activities. The fisheries sector has generated about 257,613 new jobs from these "new lands" developed.

Fish Seed Production and Distribution

- ❑ Produced 2,910,769 pieces of broodstocks (i.e. 2,147,534 pieces GET Excel tilapia, 19,400 pieces *ulang*, and 743,835 pieces of other species of fish); dispersed 2,072,523 pieces of broodstocks composed of 1,598,031 pieces GET EXCEL tilapia, 13,220 pieces *ulang* and 461,272 pieces other species of fish.
- ❑ Produced 177.962 M of fingerlings (i.e. 145.821M GET Excel tilapia and 32.141M other species of fish such as saline, cold tolerant, red tilapia and carp)) and dispersed 118.858M (i.e. 103.158M GET Excel tilapia, and 15.7M other species of fish).
- ❑ Produced 1,222,508 *ulang* post larvae and dispersed 731,610 pieces.
- ❑ Produced a total of 211.766M bangus eggs and dispersed 127.893M. Fry produced reached 14.366M. Dispersed were 11.798M fry.
- ❑ Maintained a total of 311,851 pieces of broodstocks (i.e. 229,664 GET Excel tilapia, 3,860 pieces *ulang*, 3,043 pieces bangus and 75,284 pieces other species of fish).

Distribution of Fishing Gears/Paraphernalia

- ❑ Distributed 7,540 fishing gears, such as 2,983 gillnets, 2,792 hook and lines, 825 fishpots, 168 payaos, three lambaklad, 328 squid jiggers and 441 other fishing paraphernalias, benefiting 11,026 marginal fishers in coordination with the LGUs.



Input Assistance

- ❑ Provided 17.82M fingerlings, 389,350kg of seaweeds seedlings, and other farm inputs to fisher-beneficiaries.

Establishment of Seaweed Nurseries

- ❑ 174 seaweed nurseries were established in both traditional and non-traditional areas nationwide. Seaweed nurseries and production farms were monitored. Test plots were also established to validate the viability of seaweeds in the proposed target sites.

- ❑ Coordinated continuously with the LGUs nationwide for proper identification of cooperators and possible cost-sharing scheme.

Maintenance of Bangus and Tilapia Central and Satellite Hatcheries

- ❑ Maintained five central bangus hatcheries located at NIFTDC, Bonuan, Binloc, Dagupan City; Calape, Bohol; Sta. Lucia, Palawan; Tiwi, Albay; and Guiuan, Samar. Four private central bangus hatcheries located in Sto. Tomas, La Union; Dumangas, Iloilo; Kalibo, Aklan; and Cabangan, Zambales are operational.
- ❑ Four satellite bangus hatcheries are now operational in Argao, Cebu; Bais City, Negros Oriental; Sta. Maria, Ilocos Sur; and Claveria, Cagayan.
- ❑ Ten satellite tilapia hatcheries are maintained at Castillejos, Zambales, and Hagonoy, Bulacan (Region 3); Hamtic, Antique; Sagay, Negros Occidental; Banga, Aklan; Barotac Nuevo, Iloilo (Region 6); San Francisco, Cebu and Ubay, Bohol (Region 7); Iguig, Cagayan (Region 2); and Region 12.



Input assistance on Seaweeds



Fingerlings distribution



GET Excel Tilapia



Central Bangus Hatchery



Bangus broodstock maintenance

Maintenance of Mariculture Parks/Zones

Maintained the following mariculture zones/parks:

- ❑ Finfish Mariculture Parks located in Rosario and Sto. Tomas, La Union, and Seaweed Mariculture Zones in Dasol, Pangasinan and Balaoan, La Union (Region 1) - For Rosario MP, marker buoys already set; ECC already approved; conducted public hearings in the barangays of Bani, Rabon and Damortis; conducted TWG meeting and constructed floating platform, catwalk, cage frame for techno-demo. Put up billboard for the mariculture zone project. With regard to Sto. Tomas MP, continuous monitoring activities were undertaken; supervised operation of 4 cages: a) one cage - Mariculture Development Project - Harvested Compartment A, 191pcs grouper stocks with an ABW of 360g sales of P 18,885.00. With still existing 204pcs grouper with an ABW of 240.1g; b) one cage - Tubod FA - harvested 100pcs Caranx (talakitok) with an ABW of 350g; c) one cage - Cupang FA - ongoing grouper culture project with 100pcs of grouper stocks; d) one cage - Private Investor - harvested 100kg of siganids with an ABW of 166.6g.
- ❑ Casiguran, Aurora (Region III) - conducted two meetings in Baler, Aurora. The Executive Management Committee (EMC) is composed of LGUs of Baler and Casiguran, DENR, SEAFDEC, FARMCs and BFAR Regional Staff. Implementing guidelines, Workplan for CY 2007, and Lease Contract were finalized. Orientation for the Mariculture Park One-Stop Documentation Desk was also made. According to the LGU of Casiguran, a number of investors already showed interest in the project. Regular monitoring is also being undertaken. One unit of portable ice-making machine was awarded to the LGU of Casiguran, Aurora on August 17, 2007. The equipment is a support facility to the Mariculture Park in the area. Likewise, 1,500pcs of siganid breeders were stocked on the Park's cages on that same day. The second-run for the bangus demo cage of BFAR 3 has already started.
- ❑ Padre Burgos Mariculture Zone (Region IV-A) - There are two investors operating in the Padre Burgos Mariculture Zone, namely: Multi-Sectoral Management and Development Corporation (MMDC) of Quezon City and Mr. Reynaldo M. Villanueva of Pampanga. Two local investors, Messrs. Silverio Lim and Teodoro Militsala, are expected to start operation on grouper culture in January 2008. MMDC has put up 16-unit cages (four-module bamboo cages) occupying 174.24m² area intended for grouper culture. They hired a caretaker from the trained caretakers of BFAR. Initial stocking of 420 fingerlings were done on June 9, 2007. The mariculture zone was visited by Secretary Arthur C. Yap together with Taiwanese investor Wenson Wang and Wilson Ang of Bio Research in December.
- ❑ Mr. Reynaldo Villanueva put up one unit 144 m² steel cage instead for bangus culture. He also hired a caretaker from the trained caretakers of BFAR. Stocking of 15,000 bangus fingerlings was undertaken on May 23, 2007.
- ❑ Tagkawayan Mariculture Zone (TMZ) (Region IV-A) - Nine investors are operating in TMZ with species cultured: 1) LGU of Tagkawayan - 438pcs red grouper; 2) Brgy. Magsaysay - 120pcs red grouper; 3) Brgy. Kinatakutan - 800pcs green grouper; 4) Mr. Domingo Uri - 800pcs green grouper; 5) Brgy. Poblacion - 1,000pcs green grouper; 6) Brgy. Rizal - 1,000pcs green grouper; 7) Brgy. Sabang - 800pcs green grouper; 8) DA-BFAR-LB-LGU -SLSU-BFAR - to be stocked with 10,000pcs bangus fingerlings; and 9) Ernie Herras - to be stocked with 2,000pcs green grouper.





- ❑ Ragay Mariculture Zone located in Barangay Lower Omon, Ragay, Camarines Sur (Region V)
- ❑ Margosatubig Mariculture Park, Zamboanga del Sur - The launching of Margosatubig Mariculture Zone was made on March 20, 2007 with an area of 214ha. This is being managed by the LGU of Margosatubig. The cages were stocked with 1,500pcs lapu-lapu (size: 3-5in); 2,000pcs samaral and 10,000pcs bangus fingerlings. Destroyed nets were replaced by Mayor George M. Minor. The remaining stocks were harvested last week of July. Siganid stocks are already 20 grammers. Two army outposts with spotlights are being established at the vicinity of the project. The LGU will stock anew after the first batch of stocks are harvested. Sampling of species cultured, such as grouper and siganid was made. Sixty-nine pieces of lapu-lapu (42.3kg) were sold in the amount of P9, 300. The remaining 39pcs were transferred to Cage 2, which already contains 189pcs and scheduled to be harvested in March 2008. Five hundred pieces of siganid stocks are due for harvest in February 2008.
- ❑ Tungawan MZ, Zamboanga Sibugay - additional 324pcs grouper (size: 5-6in) and 50pcs bangus fingerlings were stocked. The mariculture zone has already 548pcs lapu-lapu and 950pcs bangus-fingerling total stocking. Monitoring and feeding activities were continuously undertaken. The park has a total production of 315.1kg of bangus, samaral and lapu-lapu amounting to P29, 685. Remaining stocks are due for harvest in December.
- ❑ Kaputian, Island Garden, City of Samal (IGACoS), Davao del Norte and Panabo, Davao del Norte (Region XI) - Four BFAR demo fish cages (three modular and one circular) are stocked with 20,000pcs bangus, 5pcs snapper and 2pcs grouper broodstocks and 900pcs abalone juveniles. It already harvested a total of 94,430kg bangus and pampano. The Mariculture Park has a new investor, the Inju Peniel Fish Farm, operating with one unit of 10m x 10mx 6m fish cage, stocked with 10,000pcs bangus fingerlings. Another one unit 10m x 10m fish cage is ready for stocking. A total of six locators, including BFAR, are operating with 32 fish cages. The total production for the year is 178.43MT.
- ❑ With regard to Panabo Mariculture Park, it has 10 new investors with a total 17 units of fish cages. A total of 23 locators are now operating with 33 marine fish cages installed including the BFAR demo cages. There are 109 fishers who already benefited in this project. Total production reached 21.1932MT.
- ❑ Calbayog & Basey, Western Samar; San Jose, Northern Samar; Liloan, So. Leyte; Ormoc City, Babatngon & Merida, Leyte; Sta. Rita and Quinapondan, Eastern Samar; Biliran and Naval, Biliran, Tacloban City and Leyte, Leyte (Region VIII)

Maintenance of Hatcheries for Other Species

- ❑ Dojo Hatchery at La Trinidad Regional Fish Farm and Training Center (BFAR CAR) - This hatchery is basically on research on the natural and artificial spawning of dojo. A total of 31,250pcs of fingerlings were produced while 8,100pcs were dispersed; 996pcs broodstocks were maintained (800 females and 196 males).

Conduct of Production-related Research Activities

- ❑ One hundred six research and development projects were implemented nationwide.

Operation and Management of M/V DA-BFAR Marine Fisheries Management Research Training and Oceanographic Vessel

- ❑ Conducted 22 research and development projects.
- ❑ Conducted expedition in the Philippine Pacific Seaboard. Coordination and preparation was made with SEAFDEC. The various activities undertaken were oceanographic survey, hydroacoustics and exploratory fishing; 1,535 exploratory fishing operations were conducted: oceanography (102), stock assessment (1,281) and fishing operations (152).
- ❑ Prepared 13 scientific/technical papers as a result of studies conducted by the vessel. Shipboard/apprenticeship trainings were also conducted.





MARKET DEVELOPMENT SERVICES

Market Matching and Participation to Agri-Aqua Fairs and Exhibits

- ❑ BFAR provided suitable information on market matching between buyers and sellers of fish and fishery product. This would ensure close relationship among fisherfolk, buyers, traders and processors. Extended 82 market matching activities to 1,654 individuals and 115 cooperatives.
- ❑ Participated in 103 Agri-Aqua Fairs and Exhibits.

CREDIT FACILITATION SERVICES

- ❑ Conducted field assessment and consultations with fisherfolk organizations and fishery-based SMEs on credit and marketing assistance. This is relative to the preparation of an innovative credit facility in coordination with the Agricultural Policy Credit Council (ACPC).
- ❑ Assisted 490 individuals and 66 cooperatives in the preparation of feasibility studies and project proposals as a necessary and important requirement in accessing loans.



OTHER INFRASTRUCTURE AND/OR POSTHARVEST DEVELOPMENT SERVICES

Distribution of Postharvest Equipment

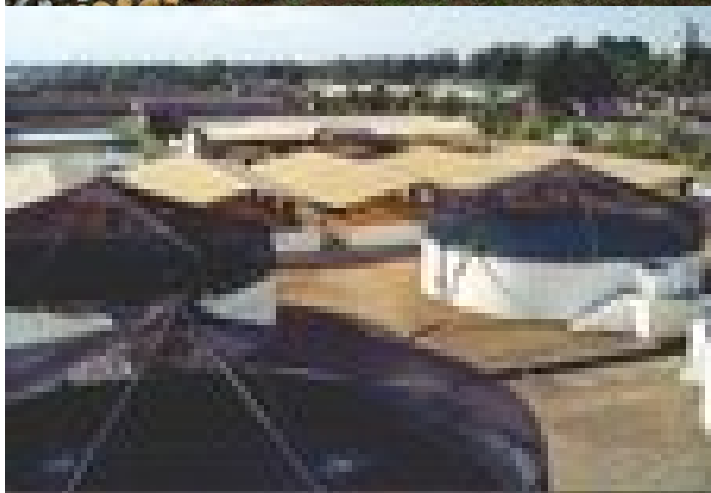
- ❑ Distributed 200 postharvest equipment such as: 36 smokehouses, 95 elevated fish solar dryers, 48 seaweed dryers, two seaweed farm houses, and 19 sets of kitchen utensils to 496 individuals and 28 cooperatives.

Establishment of Central/Satellite Hatcheries

- ❑ Construction of the central bangus hatchery in Naujan, Oriental Mindoro is 90% completed.
- ❑ Construction of the satellite hatchery at San Felipe, Zambales is 100% completed.

Establishment of Multi-species Fish Hatchery

- ❑ Established a Multi-species Fish Hatchery in Tawi-tawi, and Guiuan, Eastern Samar.



Establishment of Mariculture Parks/Zones

- ❑ Below are the activities undertaken vis-à-vis the establishment of the following mariculture parks:
- ❑ Laoang Mariculture Park, Laoang, Northern Samar - Launched on February 12, 2007 with initial stock of 1,000pcs fingerlings. It has already a production of 300pcs fingerlings.
- ❑ Manjuyod, Negros Oriental MZ - MP requirements still for completion. BFAR demo and private sector production already going on.
- ❑ Balingasag MP, Misamis Oriental - Soft launching was conducted on March 20, 2007 with 20,000pcs of 60g bangus stocked in two 10m x 10m x 5m cages of GI pipes (one techno demo for private investors and one for BFAR 10 R&D; four 6m x 6m x 4m bamboo cages reach for stocking (two for LGU). During the Executive Management Council's meeting, presented were the approved resolutions on the policies implemented for the operation of the park and the final forms for the locators' application lease. A small group was created to outline cash flow policies and procedures for the EMC. It was agreed that EMC Secretariat would both have an office at the LGU-Balingasag MAO office and at BFAR X. Delineation and installation of markers were undertaken. Conducted training for MP caretakers with 30 participants.
- ❑ The Executive Management Committee approved Northern Mindanao Mariculture Ventures and Development Corporation's application for additional 110 cages and a quarterly mode of payment on the lease rental.
- ❑ Comments and corrections were made on the ordinance amending portion of Ordinance No. 6 s. 2007, Section 30, limiting and granting of license to construct and operate fish cages.
- ❑ There are already 23 cages afloat in the mariculture park area, but only 17 cages were stocked with bangus and bangus with kitang.
- ❑ Deployed 35 units of concrete blocks for the mooring system of the 2ha medium-investors area for GI cages/HDPE and bamboo cages.
- ❑ Facilitated/constructed two units 6m x 6m bamboo cage structure to be operated by the LGU Balingasag.
- ❑ Deployed two-unit cages and temporarily anchored to the R&D area of BFAR 10.
- ❑ Two private investors stocked 10,000pcs of bangus on September 25, 2007. Deployed five concrete blocks for mooring system of the cages.
- ❑ Conducted underwater assessment and water quality analysis in Sual, Pangasinan. Conducted inventory of existing cages in the area (326). Conducted dialogues with PPA, DENR, LGU on the inclusion of MZP within the declared Port of Sual. Presented results of assessments to the LGU, DENR and some stakeholders including the President of FCOAP. Preparation of supporting documents for ECC issuance is ongoing. However, mooring and marker bouys are already obligated and for delivery to demarcate the MZP area.
- ❑ Conducted pre-development activities for Seaweed Mariculture Zone in Infanta, Pangasinan (Region 1). Materials for techno-demo and marker buoys already obligated and for delivery. Initial target area of 5ha.
- ❑ Conducted launching of Mariculture Project in Sagnay, Camarines Sur (Region 5) on July 7, 2007
- ❑ Bolong, Zamboanga City Mariculture Zone and Dapitan City MZ, (Region 9) - Project activities ongoing.
- ❑ Talibon, Bohol Mariculture Park - Launching is postponed in January 2008.



Construction/Improvement of Municipal Fish Ports by the Philippine Fisheries Development Authority (PFDA)

Municipal Fish Ports

- ❑ Improvement of existing Bulalacao Fish Landing in Brgy. Poblacion, Bulalacao, Oriental Mindoro is completed; ongoing are MPFs of Ivisan, Capiz; Bulalacao, Oriental Mindoro; Nagtipunan, Quirino; Alfonso Lista, Ifugao and Mulanay, Quezon.
- ❑ Detailed engineering studies have been completed for Mulanay MFP, Quezon; Bulalacao MFP, Oriental Mindoro; Catarman MFP, Camiguin; and San Ramos, Nagtipunan MFP, Quirino.

Ice Plants and Cold Storages

- ❑ Detailed engineering studies have been completed for ice plant and cold storages in Dumangas, Iloilo; Ivisan, Capiz; Alfonso Lista, Ifugao; San Juan, Batangas; and Tandag, Surigao del Sur.

Establishment of Seaweeds Semi-Processing Plant

- ❑ The construction of Seaweeds Semi-Processing plant in Parang, Sariff Kabunsuan, Maguindanao, has been completed and for launching in December. Training for seaweeds growers was also conducted.

Value-Added Products Formulation

- ❑ Fifty-three value-added fishery products were formulated and improved.

Postharvest Related Research

- ❑ Five postharvest related researches were conducted.

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Provision of Training and Technical Assistance

- ❑ Conducted 1,575 training courses on fishpond construction and management, stock assessment and techniques, construction of lambaklad and marine fishery technology; demonstration on fish harvest and fish processing technology benefiting 47,510 participants.
- ❑ Provided 58,801 technical assistance and advisory services on aquaculture development and methods, marine fisheries management and conservation, fishing technologies, postharvest technologies. Beneficiaries, composed of fisherfolk, fishfarmers, LGUs, other NGAs and various stakeholders, numbered to 93,876 individuals.



Establishment/Maintenance of Techno-Demo Projects

- ❑ Established 258 demo projects (integrated fish farming, marine and freshwater, cluster backyard fishpond, pond culture technology, aquasilvi culture, aquarium fish culture, shellfish culture, fish polyculture, among others, to display fishery technologies and enhance productivity. Costs-shared with the local government units are 459 techno-demo projects being established.



Project Launching and Conduct of Field Days

- ❑ Fifty-three projects of the Bureau were launched.
- ❑ The National Launching of *Pangasius* spp., dubbed as the “Emerging Darling of Freshwater Aquaculture”, was done in Brgy. Cabancalan, Floridablanca, Pampanga, on October 15, 2007. The highlights of the affair were the stocking of *Pangasius* fingerlings in the ponds of Mr. Marlon Coronel (the identified cooperator for the first demo farm for *Pangasius* spp.) and the Pangasius Food Festival wherein different recipes on how to prepare *Pangasius* were presented.
- ❑ Forty-three field days were conducted.



Dissemination/Provision of IEC materials

- ❑ Reproduced, packaged and distributed 213,714 copies of fisheries information, education and communication (IEC) materials to promote the Bureau's new programs and projects. These comprised handouts, brochures, flyers, primers, manuals, and others; 244 billboards were also installed nationwide.



- ❑ Carried out 337 radio and television broadcasts to make the public aware of other developments and issues on fisheries

- ❑ Published and disseminated regional newsletters.





Organization and Strengthening of FARMC

- ❑ Held consultative meetings and dialogues to discuss issues and concerns on organizing/reorganizing and strengthening of FARMCs. Seventy-seven FARMCs were given assistance on organizing while 303 FARMCs were on strengthening.
- ❑ Celebrated this year's Farmers and Fisherfolk Month during the whole month of May nationwide with the theme, ***"Matatag na Mangangisdang Direktor Para sa Matatag na Balikatan"***.

Conduct of Fisheries Technology Caravan

- ❑ The North Luzon Food Caravan was held on June 1, 2007. The caravan started in Benguet and ended in Commonwealth Market, Quezon City. A tilapia supplier from Calumpit, Bulacan was tapped to join the event. The objectives of the caravan were (1) to ensure availability of sufficient and affordable agricultural products to Mega Metro Manila, and (2) to open up new markets for such agricultural producers as the Bagsakan areas and Barangay Food Terminals in Metro Manila.



Fisheries Scholarship Program

Regular

- ❑ Provided funding support to the remaining seven scholars (17th batch) who are in the process of finishing their thesis for the degree of Bachelor of Science in Fisheries. As of the 1st semester, SY 2007-2008, only five scholars are in their thesis completion.
- ❑ Thirty-five (35) successful examinees nationwide availed of the scholarship for the 18th batch that commenced during the 1st semester, SY 2006-2007. As of 1st semester, SY 2007-2008, 21 scholars are enrolled. Fourteen scholars dropped due to failing grade or did not meet the required weighted average of 2.75. The scholars and their respective schools are as follows: CLSU - 10; UPV - 5; and ZSCMST - 6.
- ❑ The conduct of the 19th Fisheries Competitive Examination has been coordinated with the Department of Education.

Fisherfolk Children

- ❑ Out of the 43 fisherfolk scholars (high school graduates who are sons/daughters of small-scale fisherfolk), 3rd batch (who enrolled for the 2nd semester, SY 2005-2006), only 40 registered for the 1st semester, SY 2006-2007. There was a reduction in the number of scholars because two got failing grades while one did not enroll.



- ❑ For the 4th batch, 44 scholars are enrolled for the 1st Semester, SY 2007-2008.

Gender and Development (GAD)

- ❑ To support the GAD Program, the BFAR conducted/participated in various activities such as trade fairs, conferences, assemblies, physical fitness and focal point system meetings and other activities to promote gender equality and women empowerment.

APPROPRIATE COMPREHENSIVE REGULATIONS AND STANDARDS DEVELOPED, IMPLEMENTED AND MONITORED

Coastal Resource Management

- ❑ Two hundred twelve LGUs were given assistance on Coastal Resource Management (CRM) planning and fisheries ordinance preparation. One hundred twenty rapid resource assessments on fish sanctuaries were conducted. Monitored 224 fish sanctuaries and 64 artificial reefs.

Red Tide Monitoring

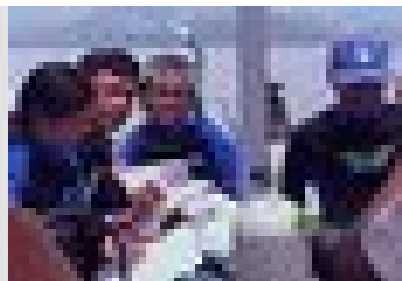
- ❑ On BFAR's commitment to safeguard public health, sustained regular monitoring of the red tide phenomenon was done in critical bays. Eight hundred eighty-nine monitoring activities were undertaken to protect public health and analyzed 6,184 samples. Red tide updates were prepared and disseminated by the National Red Tide Task Force in coordination with NGAs and LGUs.

Fish Health Management

- ❑ Maintained 30 fish health laboratories nationwide to address the need for disease diagnosis, prevention and treatment. A total of 18,049 fish/shrimp samples were collected, examined and analyzed involving 2,642 clients.
- ❑ Continuous conduct of on-site water quality monitoring nationwide to determine if the water samples collected are within desirable range.
- ❑ Conducted ocular inspection, surveillance, investigations and on-site analysis of water quality parameters for reported fish kills.
- ❑ Recommended remedial measures on observations and data gathered.

Inspection of Fish Processing Plants

- ❑ Inspected, verified and monitored processing plants, including the processing establishments accredited as exporters. Conducted regular monthly plant inspections/audit to ensure compliance with the Hazard Analysis Critical Control Point (HACCP)-based quality assurance, Standard Sanitary Operating Procedures Program (SSOP), and Good Manufacturing Practices (GMP). Recommended temporary suspensions for those who did not comply until such time that they have instituted corrective actions to the deficiencies identified under operational and structural requirements.
- ❑ Conducted 6,062 inspections for fishing/freezer vessels, fish processing plants, buying/picking stations, fish port and landing areas, auction markets, ice plants and cold storages and pre-shipment.



Monitoring, Control and Surveillance (MCS)

- ❑ Fourteen MCS patrol vessels (10 units 30-meter and four units 11-meter patrol vessels) are in their respective deployment areas. These are all fitted with Glass-Reinforced Plastic (GRP) hulls. These vessels conducted a total of 233 field operations/missions covering a total of 8,964 nautical miles, resulting to apprehension of five foreign fishing vessels.
- ❑ BFAR law enforcers conducted 233 field operations/missions and field evaluations nationwide to curb illegal fishing in coordination with law enforcement authorities. The performances of BFAR-deputized fish wardens and fish examiners were evaluated, and field coaching was resorted to when necessary. The fishery enforcers appeared in court hearings in municipal and provincial trial courts as witnesses to ensure that trial of violators was in progress.
- ❑ The fishery officers represented the BFAR in inter-agency law enforcement committees, such as the National Law Enforcement Coordinating Committee (NALECC) and the newly formed National Anti-Environment Crime Task Force (NAECTAF) under DENR. The NALECC is a committee of the government's law enforcement agencies with the primary objective of harmonizing activities among members to attain common good. The NAECTAF aims to synchronize efforts to combat environmental crimes.

Operation/Maintenance of the Cyanide Detection Test (CDT) Laboratories

- ❑ Maintained cyanide laboratories in Puerto Princesa, Zamboanga City, Cebu City and Manila in order to detect the presence of cyanide in tissues of live food and aquarium fishes. Results were used as basis for issuance or denial of export permits.

Operation of Quality Assurance Laboratories

- ❑ Operated/maintained fisheries quality control laboratories in Quezon City, Cebu City, Iloilo City, Davao City, General Santos City and Zamboanga City to address existing problems on quality assurance program on fish export.

Inland Fisheries Management

- ❑ Dispersed a total of 45.298M tilapia and carp fingerlings to 742 communal waters to replenish the stock of depleted resources for the benefit of municipal fishermen throughout the country.

National Stock Assessment Program (NSAP)

- ❑ Conducted regular surveys in the 161 landing centers or observation sites.

Issuance of Regulatory Documents (Fishpond Lease Agreements, Licenses, Clearances, Permits)

- ❑ Issued 197,144 regulatory documents, such as Fishpond Lease Agreement (FLAs), Commercial Fishing Vessel Licenses, Fishermen Licenses, Certificates, Clearances, Permits, etc.

Regulatory-related Research

- ❑ Five regulatory-related research projects were conducted.

Celebration of Fish Conservation Week

- ❑ Conducted the 44th Fish Conservation Week from October 14-20, 2007 with *"Maunlad na Pangisdaan sa Teknolohiyang Makakalikasan"* as the theme. BFAR undertook various activities during the celebration.



PLANS, POLICY DEVELOPED, IMPLEMENTED, MONITORED AND EVALUATED

INFORMATION SUPPORT SERVICES

- ❑ The Bureau of Agricultural Statistics (BAS) conducted production surveys in close coordination with BFAR.
- ❑ The BFAR Fisheries Information Management Center (FIMC) continuously updates the Philippine Fisheries Information System. Likewise the Center maintains the Bureau's website: <http://www.bfar.da.gov.ph/>
- ❑ BFAR Region 7 facilitated and coordinated the conduct of the National BFAR-BAS Conference Workshop at Park Lane Hotel, Cebu City. The BFAR Director and Regional Directors, BAS National Director, BAS-RASOs, BFAR staff and BAS-PASOs of Region 7 participated in the Conference. Harmonization of data collection was arrived at in order to increase national target for the fisheries sector. BFAR committed to continue with the financial assistance it has provided BAS for the previous years.

POLICY FORMULATION, PLANNING AND ADVOCACY SERVICES

- ❑ Amendments to RA 8550 and Fisheries Administrative Orders (FAOs) are being reviewed with the support of the FISH Project and the FARMCs at different levels. Most of the proposed amendments are industry- and fisherfolk-initiated.

Two FAOs were approved and implemented:

- ❑ FAO No. 225 - Allowing the importation of the broodstock of Pacific White Shrimp, *Penaeus vannamei*, and the culture of the offspring thereof
- ❑ FAO No. 225-1 - Guidelines for the importation and culture of the Pacific White Shrimp (*P. vannamei*)

- ❑ On the Promotion of International and Regional Cooperation on Fisheries, BFAR officials participated in various meetings related to the BIMP-EAGA Working Group on Fisheries Cooperation (WGFC); Philippine-Indonesia Bilateral Agreements on Fisheries Cooperation; Philippine-China Fisheries Cooperation Joint Commission; RP-China Memorandum of Agreements; Philippine-Brunei Bilateral Meeting; Committee on the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean (WCPFC); Bilateral Agreements; and ASEAN Sectoral Working Group on Fisheries (ASWGF).

- ❑ On Intensification of Coastal Resource Management Initiatives - A Memorandum of Understanding (MOU) for the implementation of Sustainable Management of Coastal Resources (SUMACORE) in the Bicol and CARAGA Regions was signed on July 17, 2007 in Pasig City between the Spanish Government, represented by the Ambassador of Spain to the Philippines, H.E. Luis Arias Navarro and the Philippine Government, represented by Secretary Arthur C. Yap. The Project, funded through a grant, will be implemented by the Bureau of Fisheries and Aquatic Resources in close coordination with the Spanish Agency for International Cooperation (AECI). Project implementation from 2007 to 2010 covers selected municipalities of Region 5 and CARAGA. The Project aims to address the problems of overfishing and the degradation of natural resources and the environment through the active participation of various stakeholders of the coastal community. It focuses on establishing and maintaining resource enhancement projects aimed at protecting and managing coastal fishery resources while promoting alternative livelihood for municipal fishers to reduce their dependence on fishing.





FISHERIES

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