

Department of Agriculture
Regional Field Office No.5



ANNUAL REPORT 2018





Vision Mission

VISION

Competitive, sustainable and technology-based agriculture and fishery sector, driven by productive and progressive farmers and fisherfolk, supported by efficient value chains and well integrated in the domestic and international markets, contributing to inclusive growth and poverty reduction.

MISSION

To make food available and affordable for every Filipino.

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Field Operations Division

Banner Programs



Rice Program



**Corn and Cassava
Program**



**High Value Crops
Development
Program**



**Livestock and
Poultry Development
Program**



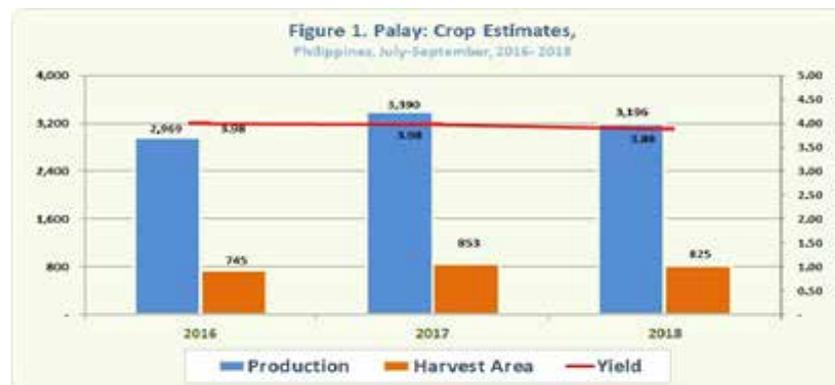
**Organic Agriculture
Program (under AMAD)**

Banner Program



Rice Program

Palay production for July-September 2018 was 3.20 million metric tons. This was 5.70 percent lower than the 2017 level of 3.39 million metrics tons. Likewise, harvest area contracted to 825 thousand hectares from previous year's record of 853 thousand hectares. Yield declined to 3.88 metric tons per hectare or lower by 2.52 percent (Figure 1).



For the Bicol Region, a total of 202,814 MT production was posted. There was a decrease of 0.77% from the 2017 production of about 204,394 MT. Area harvested posted about 51,385 hectares with 3.72% percent change from 2017 area harvested of 53,371 hectares. Moreover, Bicol region's average yield for the quarter is 3.95 mt/ha.

For the October-December estimates, regional production is 475,668 MT that is 0.04% decrease from previous year's production of 475,861 MT. There is also a decrease of about 3.5% in terms of the area harvested which is 127,851 ha from 2017 area harvested 132,503 ha. Estimated average yield of production is about 3.72 mt/ha, 0.13% increase from last year's 3.59 mt/ha.

Production Support Services (PSS)

The establishment of 2,500 hectares or 500 sites of Inbred Model Farm was strongly pursued in the region resulting to additional 2,500 production increment. Through this program, rice areas were clustered to 5 hectares and were given forty (40) kilos Certified Seeds, two (2) bags Complete Fertilizer and two (2) bags Urea Fertilizer per hectare.

In support to the Inbred Seed Exchange Program or the Farmers' Production and Exchange of High-quality Inbred Rice Seeds, a total of 46,778 bags of Certified Seeds and 1,131 bags of Registered Seeds were distributed. The main objectives of this program are to empower rice farmers to shift to high-quality inbred rice seeds in an informal farmer production and exchange system and enhance access to appropriate inbred rice varieties, and impart the advantages of using high-quality inbred rice seeds.

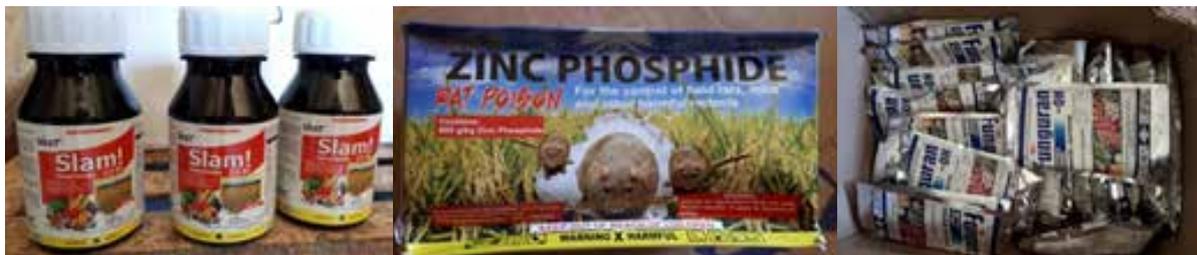


A total of 1,000 bags of Green Super Rice (GSR) seeds were distributed to qualified farmer beneficiaries to help minimize losses brought about by extreme weather conditions. These GSR are special rice lines which can tolerate adverse ecosystems such as flood, drought and salt intrusion.

Buffer stocks were made available to our farmers with the procurement of 300 bags Registered Seeds, 35,000 bags Certified Seeds and 2,000 bags Hybrid Seeds which were used in the rehabilitation of damaged rice areas brought by drought, heavy rains and other calamities.



Agricultural chemicals buffer stocks such as 160 liters insecticides, 250 kilograms fungicides and 400 kilograms rodenticides were made available to our farmer beneficiaries for infestation/infection and control.



The construction of 2 unit Buffer Seed Storage was completed inside the Central Bicol Experiment Station, San Agustin, Pili, Camarines Sur and Sorsogon Dairy Production Technology Center, Cabid-an, Sorsogon City. The existing four (4) units warehouses were maintained.

For the agricultural machinery and equipment for calamity and epidemic quick response pool, four (4) units Combine Harvester, two (2) units 4WD Tractor and two (2) units Hauling Truck were already delivered and ready for deployment.





Two (2) units Farm Machinery Shed were constructed at the DA Compound, San Agustin, Pili, Camarines Sur as storage and shelter for the different agricultural machinery and equipment.



To further enhance productivity by reducing production cost, about 1,000 soil samples were analyzed at the Regional Soils Laboratory and provided the farmers with the precise fertilizer recommendation. Two hundred (200) units Soil Test Kits were procured.

The Regional Crop Protection Center conducted pest surveillance and early warning. The Regional Soils Laboratory, Soil Mobile Clinic and Regulatory Division also conducted composite field surveillance.

Market Development Services (MDS)

A successful rice trade fair was also conducted last May 15-16, 2018 participated by the different establishments which offer either products or services for rice farmers in the Bicol Region. Some of the exhibitors were the SL Agri Tech Corporation and Syngenta. This was conducted during the Farmers Festival Celebration.



In partnership with the Agribusiness and Marketing Assistance Division, three (3) Training on Rice-based Food Product Development were conducted on June 25-26, 27-28, 2018 and August 14-15, 2018. These were participated by rice farmers from the provinces of Camarines Norte, Camarines Sur, Albay and Sorsogon.

Marketing agreement was made for GLOWCROP that bought about four (4) metric tons of specialty rice amounting to Php 200,000.00 from Pecuaría Development Cooperative Inc.

Extension Support, Education and Training Services (ESETS)

Around 6,778 hectares or 679 sites were established under the Hybrid Model Farm Program resulting to additional 12,218.4 production increment. A cluster or site is composed of 10 hectares and farmers are given 15 kilos hybrid seeds with 3 bags Urea Fertilizer, 3 bags Complete Fertilizer and 1 bag Ammonium Phosphate per hectare.



Continuous intensive field deployment of Rice Crop Manager (RCM) created 12,188 recommendations that helped realize additional 6,094 MT production increment for the region.

A total of 206 local farmer technicians (LFTs) were maintained to support the existing LGU agricultural technicians, to assist in the transfer of latest technologies and implementation of various projects. On June 11-15, 2018, a yearly event which is the Regional Convention cum Training for Local Farmer Technicians was conducted and participated by active LFTs from different provinces of Bicol Region.

The transfer of new technologies was hastened through the conduct of 92 batches of farmer's field schools (FFS)/climate smart farmers' field schools (CFS) with 3,220 participants.

Several trainings were also conducted. TOT for Climate Resiliency Farm Business School with three (3) batches were participated by 93 agricultural extension workers and local farmer technicians. Technology updating to our SeedGrowers and Seed Inspectors were done thru the Training Course on Inbred Seed Production, Certification and Quality Control for Seed Growers and Seed Inspectors which was held on May 7-11, 14-18, 2018 and May 28-June 1, 2018 respectively.

Specialized training on the promotion of Good Agricultural Practices (GAP) was also conducted with 2 batches benefitting 102 participants on June 5 and 6, 2018. Moreover, the training support for the Farm Service Provider of Corporate Farming Program was conducted on May 9, 2018 with 50 participants.

Training support for Inbred Seed Exchange Program was conducted thru technical briefings by district in the whole region. These sixteen (16) technical briefings were participated by 100 farmer beneficiaries per district together with AEWs and DA technical staffs.

Seven micro agri-enterprises for Rice based farms integrated with Mushroom Production were established by some farmers who were convinced of its benefits and feasibility.

For 2017 Rice Achievers Awards, Region 5 Rice Program produced an Outstanding Municipal Local Government Unit which is the LGU - San Jose, Camarines Sur. The LGU received a total of P1,000,000.00 worth of rice related project. Twenty seven Agricultural Extension Workers (AEWs) and 5 Local Farmer Technicians (LFTs) were awarded during the cluster-wide awarding for the Rice Achievers Awards at Batangas City.

For the Gawad Saka Awards, Regional Outstanding Rice Farmer Genaro Tamon Jr. of Magarao, Camarines Sur was conferred Regional Gawad Saka Outstanding Rice Farmer.



For the information and advocacy support, one radio program including 12 radio plugs and one TV segment were aired. A total of 25,882 IEC materials were distributed to farmer clientele all over the Bicol Region. Two (2) Audio Visual Presentations were also produced for the Outstanding Rice Farmer under the Search for Gawad Saka and documentation of the successful establishment of agri enterprises for rice based mushroom production.

Research and Development (R&D)

Continuing researches for the DA-IRRI collaborative projects were supported namely PRIME, Next Generation Project and Rice Crop Manager II.

Numerous trials were also conducted in support to the Next Generation Project. For its first component, a total of 2 trials were conducted in CBES and in the municipality of Minalabac. Component 2 had 24 sites for their Participatory Varietal Selection Trials in different municipalities of Camarines Sur, Camarines Norte and Albay.

For the regional implementation of Rice Crop Manager II, there were 17 municipalities with RCM Farm Monitoring Projects and for the Rice Crop Manager Geo-referencing, 739 farmlots were geotagged. Moreover, about 50 farmers are involved in the RCM Technology demonstration covering the provinces of Camarines Sur and Camarines Norte.



Yield enhancing technologies were tested and developed through the establishment of 19 regional research and development projects and 7 Strategic RDE Support Program Priority Thrusts.

Four (4) collaborative research and development projects with other institutions were conducted. One of these is entitled Development of Comprehensive Early Warning

System for Agri-Fishery Communities in Bicol River Basin Projects in Albay and Camarines Sur. This is in partnership with Partido State University and Bicol University.

Agricultural Machinery, Equipment, Facilities And Infrastructures Program (AMEFIP)

To strengthen further the mechanization support to the Bicolano farmers, 10 units 4WD tractors, 30 units Hand Tractor, 20 units Walk Behind Transplanter, 15 units Seed Spreader, 15 units Combine harvester and 30 units Palay Thresher were distributed.

For the post-harvest facilities, 19 unit Multi-Purpose Drying Pavement (MPDP) is already constructed and 4 unit Recirculating Dryer with Biomass Furnace was installed.



Irrigation Network Services (INS)

About 428 hectares of new rice areas are expected to be irrigated with the construction of 12 units Diversion Dam. The construction of 1 unit Small Water

Impounding Project, 1 unit Diversion Dam and 10 units Solar Powered Irrigation System (SPIS) are still ongoing with about 75-30% accomplishment that can irrigate additional 235 hectares.

From the rehabilitation of 7 units Diversion Dam and 3 units Small Water Impounding Project, 404 hectares rice areas were restored. Rehabilitation of the remaining 3 units diversion dam and 2 units Small Water Impounding Project is also on going with about 89-17% accomplishment that can restore 238 rice areas.



Banner Program



Corn Program

The area planted to corn in Bicol region for CY 2018 totalled to 111,900.00 hectares, which is 2.37% lower than the 17,847 hectares for the same period in CY 2017. This was attributed to shifting of corn farmers to other crops as some did not plant due to the decline in corn buying price in 2017 ranging from P7.00 to P9.00 per kilogram. Other factors that affected the low yield and decreased area in the 3rd and 4th quarters were the drought experienced in Masbate, heavy rainfall and flooding in Cam. Sur caused by Typhoon Ompong. But despite the decline in area harvested, the average yield per hectare remained at 2.5 mt/ha.

CORN PRODUCTION CROP ESTIMATES

(January - December 2018)

BICOL	2017			2018			% Change (2018vs2017)	
	Yellow	White	Combined	Yellow	White	Combined	Level	%
Production (mt)	222,045.00	64,960.00	287,005.00	214,706.00	65,025.94	279,731.94	(7273.06)	(2.53)
Area Harvested (ha)	58,901.00	55,715.00	114,616.00	57,401.00	54,499.00	111,900.00	(2716)	(2.37)
Average Yield (mt/ha)	3.77	1.17	2.50	3.74	1.19	2.50	(0)	(0)

Source: PSA Rice and Corn Situation and Outlook, January 2019

The farmgate prices of yellow corn remained stable at P15.00 to P19.00 per kilogram while prices for white corn ranges from P16.00 to P19.00.

Production Support Services

In support to cassava production, a total of 130,000 seed pieces were distributed to farmers. For bufferstocking a total of 3,526 bags of hybrid corn, 5300 bags OPV Corn seeds and 2,194 bags of GM corn seeds were procured and distributed after the onslaught of Ompong, drought in Masbate and typhoon Usman. For soil amelioration component, a total of 50,000 kilograms of lime were distributed to various farmer beneficiaries across the region. Likewise, a total of 50,000 trichogramma were produced and distributed to various corn farmers. The 100,000 earwigs produced were distributed to various clients regionwide.



For the pest and disease surveillance and control program, the regional crop protection and control team monitored a total of 5,000 hectares of corn plantation in the provinces of Albay, Camarines Norte, Camarines Sur and Masbate. Meanwhile 400 samples were received for soil sampling and analysis. Four (4) cold seed storage were constructed in Buhi, Naga, Goa and Iriga for use by DA stations as storage of procured bufferstock.

Additional Production of White Flint

The region targeted 3,332 ha. for white flint production of 6,661 MT however the region accomplished 8,113 ha with total production of 7443 MT in the province of Masbate, Albay, Cam. Sur and Cam. Norte. The produce were marketed through local traders and the rest for household consumption. The region developed and supported one corn processor the Arrow Multipurpose Cooperative in Cam. Sur producing an average of 20,000 kg. grains and 10,000 kg. corn grits per month and two traders in Masbate namely Romo Corn Mill, Liong Cataingan, Masbate and Tiong Corn Mill, Poblacion, Palanas, Cataingan, Masbate both are producing 20,000 kg. grains and 10,000kg. corn grits per month.

Marketing Development Services

Series of market matching activities were conducted with the Agribusiness Marketing and Assistance Division (AMAD). AMAD accomplished 10 market linkages for corn farmers in support to rice corn blend and cassava for foods and feeds, namely: Iriga, Calabanga, Goa, Pili (2 slots), Camarines Sur, Cataingan and Aroroy (2 slots) in Masbate and Sta. Rosa Jose Panganiban in Cam. Norte

Extension Support Services, Education and Training Services

Various capability building activities were accomplished to enhance the skills and knowledge on technology advancement of our corn and cassava farmers. Three (3) Bantay Peste Training were held in Bato, Camarines Sur, Balud Masbate and Libon, Albay; one (1) Training on Corn Silage Production and Processing held at Asid, Masbate City; one (1) Training on Cassava Plant Material Certification & nursery



Distribution of earwig and trichogramma.



Establishments held at Pili, Cam. Sur on June 13, 2018 and Training on Cassava Production & Processing conducted at Rapu-rapu, Albay and Goa, Camarines Sur. Training on GAP Corn and Cassava were conducted in Nabua, Cam. Sur. Advocacy and information activities were undertaken through distribution of 10,000 IEC materials for corn and bulk of it was for the promotion of Rice-Corn Blend. While a total of 5,000 IEC materials for cassava were also distributed to various clients.



Training on White Corn Grits Production



Graduation of Farmers' Field School on Corn Production in Ligao City, Albay.

The notable highlight for this year for the Corn and Cassava Program was the recognition of the achievements of top performing LGUs/Municipal Agriculturists and Agricultural Extension Workers in producing quality corn in support to the development of corn industry and enhancement of the corn cluster associations.

The following were the winners of the National Corn and Cassava Cluster Achievers Award 2018: Outstanding Municipalities/Cities: (Hall of Famer) Calabanga Cam. Sur represented by Hon. Mayor Eduardo A. Severo; Hon. Madel Alferor, Iriga City Camarines Sur and Hon. Patricia Gonzales Alsua of Ligao City, Albay. Outstanding Municipality/City Agriculturist: (Hall of Famer)Mr. Gil Gabriel H. Bordado III of Calabanga Cam., Mr. Ruben delos Santos of Iriga City Camarines Sur and Engr. Dexter A. Mendoza of Ligao City, Albay.

Outstanding Agricultural Extension Workers: (Hall of Famer) Mr. Joshua T. Ipo, Mr. Ryan F. Calatrava, Mr. Carlos B. Azañes of Calabanga, Cam. Sur, Mr. Noel G. Manaog, Mr. Buster A. Ibarbia of Buhi, Cam. Sur, Mrs. Marly L. Corporal and Mr. Honesto C. Sirios, Jr. of Iriga City Camarines Sur, Mr. Hector O. Llagas, Bato, Camarines Sur, Mr. Victor B. Cortez, Baa, Cam. Sur Mrs. Mary Jane Alicante of Cataingan, Masbate.

The following were the regional winners for the Outstanding Municipalities: Naga and Tigaon, Cam. Sur; for the Outstanding Municipality/City Agriculturists: Mrs. Maria Edna Bongalonta of Naga, Cam. Sur, and Mrs. Lea Beltran of Tigaon, Cam. Sur, for the Outstanding City Coordinator Mr. Benedicto C. Herald, the Outstanding Agricultural Extension Workers: Marife Bonsobre, Cawayan, Mrs. Susan Arcenal of Cataingan, Masbate and lastly for our Regional winner of Cassava Cluster Management Excellence Award went to Maymatan Multipurpose Cooperative, Goa, Camarines Sur.

The Corn Program also produced national winner for the Search for Outstanding Corn Farmer Gawad Saka Award in the person of Angelita Cerillo of Libod, Tigaon, Camarines Sur.



Agricultural Machinery, Equipment, Facilities and Infrastructures Program

In line with the thrust for agricultural modernization, the program committed to provide agricultural support needed by the farmers via farm mechanization like production and post-harvest machineries, equipment, facilities and infrastructure. This is also to enhance the productivity by reducing production cost and cutting down post-harvest losses in order to maximize income and improve livelihood resiliency. The corn and cassava program distributed the following interventions:

<i>In support to Farm Mechanization:</i>	<i>Post harvest Facilities:</i>
5 units of Farm Mechanization & Tractor Pool Program (Corn)	13 units of Corn Mills
2 units of Farm Mechanization & Tractor Pool Program (Cassava)	5 units of Hammer Mill
2 units of Hauling Truck	10 units of Mobile Flash Dryers
4 units of Two Row Planter	2 Vacuum Pack Sealer
3 units of Combine Harvester	15 units of Mechanical Sheller
5 units of Cassava Digger	4 units of Silage Chopper
	10 units of Cassava Grater
	11 units of Cassava Pulverizers
	Ten (10) units of Cassava Chippers

Irrigation Network Services

One of the major focuses of the corn program is to mitigate the impact of climate change through provision of small scale irrigation services. During the third quarter, the corn program provided 18 units Open Source Pumping sets to various corn cluster organizations across the region. These pumping sets were expected to serve a total of 54 hectares of corn areas.

Open Source Pumping sets distributed:

- Two (2) units to Albay
- Five (5) units to Camarines Norte
- Nine (9) units to Camarines Sur
- Two (2) units to Masbate

Savings Generated

The following postharvest machineries and equipment were procured out of the savings to offset those project that did not materialize because of typhoon Nina. These machineries were also procured to help maintain production equipment like Village Type Dryers (VTD), mobile dryer even if there is no available current and to support the rice corn blend project:

Two (2) units VTD II (20 tonner) installed in Ocampo, Cam. Sur and Guinobatan, Albay

Seven (7) units Generator Set (Naga, Calabanga, Goa, Iriga via Baao, Buhi, all in Camarines Sur, and Daraga and Polangui in Albay)

8 units Corn mill (Cam. Sur and Masbate)



Banner Program



High Value Crops
Development Program



Production Support Services (PSS)

In support to the Vegetable Enhancement Program, a total of 3,367.71 kilograms of lowland assorted vegetable seeds were distributed to 110 farmers' organizations (FOs) and 98 local government units (LGUs) nationwide which could reach an estimated harvest area of 2,694.17 hectares.

For the promotion and expansion of areas for other crops such as fruits, industrial crops and alternative staple food crops in the region, various planting materials were distributed such as 5,000,000 pineapple suckers distributed to 28 groups (17 LGUs and 11 FOs); 43,614 grafted pili seedlings distributed to 102 groups (43 LGUs and 59 FOs); 21,550 coffee seedlings granted to 43 groups (25 LGUs and 18 FOs); 182,367 cacao seedlings distributed to 89 groups (29 LGUs and 60 FOs); 3,000,000 sweet potato cuttings given to 34 groups (23 LGUs and 11 FOs) and 1,000,000 gabi runners granted to 19 groups (10 LGUs and 9 FOs).



Distribution of Lowland Vegetable Seeds



Distribution of pineapple suckers and camote cuttings in Cam. Norte, Cam. Sur and Sorsogon



Market Development Services

For marketing assistance to the farmers and farmers' association in the promotion of their produce and products, the High Value Crops Development Program (HVCDP) through the Agribusiness and Marketing Assistance Division conducted series of market-related activities. There were 6 agribusiness investment fora conducted regionwide; 2 local market activities (congress/conference/trade fair) funded; 6 local activities (congress/conference/trade fair) and 2 international activities (exhibit and linkage) assisted. Also, a market assessment on queen pineapple industry in Camarines Norte was conducted and 1 market reconnaissance which determined the baseline data on production and marketing of gabi in Camarines Sur.



Extension Support, Educational and Training Services



Trainings conducted on Vegetable Gardening, Good Agricultural Practices on Gabi and Pili and Plant Material Certification held in Camarines Sur and Albay

To help the farmers strengthen their capacities and to promote appropriate and latest technologies in high value crops production, a total of 30 package of technologies (POTs) were conducted to a total of 1,311 farmers (679 females and 632 males). The various trainings conducted were focused on vegetable production, cacao, coffee, and gabi, and their good agricultural practices. This intervention was the immediate response done by the program after the Mt. Mayon eruption in Albay which engaged the evacuees in vegetable production.



Trainings conducted on Vegetable Gardening, Good Agricultural Practices on Gabi and Pili and Plant Material Certification held in Camarines Sur and Albay

Agricultural Machinery, Equipment, Facilities and Infrastructure Program (AMEFIP)

To promote vegetable production in public elementary and secondary schools in Bicol region, the High Value Crops Development Program launched the Department of Agriculture (DA) Gulayan sa Paaralan Program (GPP) in collaboration with the Department of Education (DepEd). A total of nine hundred nineteen (919) schools were provided with the GPP package of inputs and materials to establish school gardens as ready food baskets or source of vegetables to sustain the school feeding program being implemented in their schools.

The Gulayan sa Paaralan cum Training on Vegetable Production and Nursery Establishment aims to address malnutrition among school children by promoting production of nutritious and safe foods. This will serve as a laboratory for students to know and apply their knowledge on vegetable production and to showcase small-scale food production models. Likewise, this program will teach them the value of farming and importance of good nutrition.

The provided production inputs of DA-HVCDP were assorted vegetable seeds, organic fertilizers, garden tools, seedling trays, PE-UV tunnelling film and fine net to be established in a 200 sq.m vegetable gardens and a seedling nursery for the vegetable seedlings. Also, lectures

on vegetable production and seedling nursery establishment were provided to school heads/officials and Gulayan sa Paaralan coordinators.

Likewise, the provision of production, postharvest and processing facilities and equipment were distributed to a total of 71 farmers' associations/organizations/cooperatives and 17 LGUs regionwide which includes 24 units hand tractors distributed to lowland vegetable growers, 12 units multi-commodity solar tunnel dryer for the gabi, cacao and sweet potato farmer-processors, 30 units rainshelter and 6 units greenhouse for vegetable gardens, establishment of 2 units nurseries for cacao and pili seedlings, 1 foundation scion grove for cacao production, 1 budwood garden for pili production, 3 units pineapple decorticating machine, 3 units four-wheeled drive tractor and 2 units hauling truck distributed for use by the vegetable and pineapple growers; and 4 units vacuum sealer as equipment for cacao and pineapple processing facilities.





For community-based processing, a pili nut/ pili oil processing facility was established in Camalig, Albay to be operated by the Albay Pili Cacao Industry Association (APCIA). The facility was turned-over on November 27, 2018.

For small-scale irrigation project (SSIP), 20 units Pump Irrigation System for Open Source (PISOS) were distributed to qualified farmer organizations which could irrigate a total service area of 60 hectares. Other irrigation paraphernalia distributed to farmer-beneficiaries were 10,000 meters HDPE pipes and 13 units water plastic drum.

Other Major Accomplishments

The sudden spike in the market price of chili pepper or “Siling Labuyo” for almost four months in 2018 has caused controversy in the vegetable sector. Market price of chilli pepper soared up to P1,000 per kilo in Metro Manila, while in Bicol region prices ranged from P200 to P700 per kilo. While the spike in buying price has been favorable for the farmer producers of chili pepper, the local buyers from the food industry and even households were not quite prepared for it.

Based from the data generated by the Philippine Statistics Authority (PSA), the production of chili pepper in Bicol region from January to December 2017 reached up to 488.54 metric tons. Bicolano farmers marketed most of their produce locally in the wet markets. But, there were also reports that some of the locally produced chili pepper in the region were sold to outside buyers or institutional buyers for future marketing engagement or processing.

There were lot of factors which contributed to the increase in the price of said commodity such as the unexpected drop in the production volume in Benguet province and northwest uplands which were due to unfavorable weather condition such as monsoon rains causing substantial agricultural damages. Increase in transport costs such as fuel costs, labor and other materials resulted to corresponding increase in the price of the commodity when sold to the wet market.

Thus, to address this concern, the HVCDP encouraged planting and provided hot pepper seeds to farmers’ associations or organizations and local government units.

Hot pepper is harvestable after 3 months of planting. A total of 10.35 kilograms were distributed to the FAs and individual farmers, to mention, under the Baligang Organic Farmers' Association (BOFA), Masaraga Organic Farmers' Association (MOFA) and Naboton Organic Farmers' Association (NOFA) in Ligao City, Albay, the program has distributed 1.5 kg equivalent to 7.5 hectares while 3.15 kg were provided to the Angat Kabuhayan Program in the 3rd District of Camarines Sur equivalent to 15.75 hectares production area.

In Camarines Sur, the Lupi High Value Commercial Crops Growers Association planted an area of 0.25 hectare with 100 grams of hot pepper Maharlika variety provided by the program. It harvested a total of 308 kilograms where were sold for P300 to P380 pesos per kilo giving a gross income of P107,800.00 and net income of P91,800.00. However, the only disadvantage of planting during off-season is the occurrence of diseases like anthracnose caused by fungus that usually emerges during rainy season.



Banner Program



Livestock Program

The Livestock Program has continuously aimed to support animal raisers in providing sufficient, safe and nutritious livestock products by giving interventions to backyard, farm owners and individuals who are willing to raise livestock. This is in support to the National Livestock Program's target to ensure food security, alleviate poverty, enhance income and profitability and achieve global competitiveness for the livestock and poultry sub-sector.

Major Strategies:

To meet the DA-NLP objectives to increase livestock production and improve livestock productivity, increase the income of livestock farmers and ensure the compatibility of practices in the livestock and poultry enterprises with environmental standards, the following strategies were carried out in close coordination with LGUs:

A. Production Support Services

Unified National Artificial Insemination Program (UNAIP)

UNAIP intends to infuse genetically-superior animals thru distribution of semen straws and AI supplies.

The program thru the help of VBAIT's (Village Based Artificial Insemination Technicians) has distributed 5,000 pcs of semen straws which benefitted a total of 2,500 Large Ruminants (Cattle & Carabao) and helped a total of 1,875 farmers in their animal's genetic improvement.



Distribution of Planting Materials

To ensure sufficient pasture area for small and large ruminants in the region a total of 155,245 forage cuttings was distributed to 48 farmers.

Animal Health Program

A total of 11,182 doses of drugs was distributed as part of disease control and to lessen mortality and maintain good health and production.



Strengthening of diagnostic and biological infrastructure and services rendered

A total of 3,292 animal samples were received for Pathology/Necropsy, Parasitology, Bacteriology and Virology tests from farms all over the region to maintain optimum health of animals.



Strengthening of Feed Laboratory

A total of 4,712 feed samples were analyzed to ensure animal safety.

B. Extension Support, Education and Training Services

For CY 2018, the program has conducted three trainings on livestock production and post-production to enhance farmers' capability in animal raising. Some 152 livestock raisers participated in the trainings.

Distribution of IEC materials

10,000 copies of IEC materials on livestock raising were distributed to farmers.



C. Research and Development

The Livestock program continuously supported the conduct of research entitled “Phenotypic Characterization of Camarines Strain of Native Chicken.”



Establishment of Agro Eco-Tourism site at Sorsogon Dairy Production and Technology Center (Construction of Milking Parlor and Drainage inside the Station).



D. Agricultural and Fishery Machinery, Equipment, and Facilities Support Services

Establishment of a total of 17 Multiplier Farms within the Region



Goat Multiplier Farm



Swine Multiplier Farm



Dairy Multiplier Farm



Banner Program



Organic Agriculture
Program

As of 2018, a total of 45,949.45 hectares or 6% of the total agricultural area of Bicol Region is either in-conversion or converted into organic areas in which 2,062.66 hectares are certified organic farms by the Organic Certification Center of the Philippines (OCCP). Also, there are 25 operational techno demo facilities all over the region showcasing organic farming technologies and best practices consistent with the Philippine National Standards (PNS) and serves as learning and training sites for capability building of farmers, producers and processors.

For this year, various production supports were distributed such as 4,974 kilograms of seeds (rice, corn and assorted vegetable seeds) together with fertilizers and other soil ameliorants such as organic fertilizer, Bio-N, African Night Crawler to 300 individual farmers & 10 associations. Also, 75 heads of swine were distributed to support their organic swine production.

Under irrigation network services, a total of 4 units of shallow tube well (STW) and 6 units of solar pump were delivered and installed for 10 associations engaged in organic agriculture. In addition, 12 units of production-related machineries and equipment were distributed such as brush cutter, hand tractor with trailer and, multi-tilling machine with paddle wheel & ditcher. Greenhouses and several small-scale composting facilities were also established, benefitting a total of 21 organized group. Another, 3 units of postharvest equipment and machinery such as paddy de huller, color sorter and corn mill were also delivered and installed at recipient's site to support their organic production.



In support to production component, continuous conduct of market related activities were spearheaded by the program such as consumer awareness seminars, trade fairs and exhibits, market matching activities and congress to further promote Organic Agriculture Program. A total of 1,579 individuals and 31 groups/organization benefitted these activities.



Also, under Market Development Services (MDS), three active organizations namely the Polangui Organic Kalamay Muscovado Producers and Farmers Association (POKAMPROFA) Inc., Goa Agri Producers and Processors Association (GAPPA) and The Agri-Planters and Food Processors Association of Tigaon (TAPFPAT) were the beneficiaries of the stall rental subsidy that will serve as outlet of the organic produce in their locality.



BICOL'S PRIDE:

National Winners of National Organic Agriculture Achievers Award 2018



Participants from Bicol region composed of farmers, LGU coordinators and technician, and DA key officials attended the 15th National Organic Agriculture Congress in Cebu City on November 13-15, 2018. Updates related to organic agriculture were presented and outstanding farmers and entity were recognized and conferred awards during the National Organic Agriculture Achievers Awards (NOAAA). Bicol Region bagged 4 out of 9 major awards, the Province of Albay received P3 Million worth of project grant and plaque as the National Outstanding Province implementing Organic Agriculture (OA) Program, Ms. Eleanor Daep, as National Outstanding Provincial OA Focal Person and received P50,000 cash award and plaque, Mr. Joey Hade who belongs to the indigenous tribe of Agta Tabangnon in Goa, Camarines Sur as the National Outstanding Young Farmer and received P100,000 cash award and plaque. Lastly, the Goa Agri Producers and Processors Association (GAPPA) was adjudged as the National Outstanding Organic Agriculture Farmers' Group and received P500,000 worth of cash grant and plaque.

The national finalists were also honored during the ceremony. Five shortlisted national finalists from Bicol Region also received plaques of recognition, they were: Ms. Rossinni Obligacion (individual farmer category), Mr. Felix Gino Murillo (agricultural extension worker category), Ms. Arlene Dayo (municipal OA focal person category), Abad Family (OA farming family category) and Ligao City (city LGU category).

Locally Funded Project

Farm-to-Market Roads

Since 2014, the budget appropriated for Farm-to-Market Road (FMR) projects has been released directly to the DPWH as implementing agency. A total of 97 projects were funded under GAA 2018 amounting to P735 million.

The Department of Agriculture is in charge of the pre-implementation phase of the program which includes identification, review and appraisal, prioritization then approval of the proposed FMR projects. Various criteria were considered during identification or initial screening of project requests such as road influence area, road network system, road classification, project length, linkage to an all-weather road, road continuity and road right of way and others.

FMR projects funded under GAA 2018

Province	Amount (php)	No. of Projects	No. of Projects Completed (As of December 2018)
Albay	195,000,000.00	22	20
Camarines Norte	109,000,000.00	15	9
Camarines Sur	224,000,000.00	34	30
Catanduanes	37,000,000.00	6	4
Masbate	106,000,000.00	9	7
Sorsogon	64,000,000.00	11	7
TOTAL	735,000,000.00	97	77

Farm-to-Market Roads connect production areas to markets as these roads serve as alternative route. Before, farmer's had to take longer routes to reach the market. The road openings provided by the project shorten the travel distance from farms to market.



P17 M Libertad FMR in Bgy. Tunga and Libertad in Esperanza, Masbate

P10 M Estancia FMR in Bgy. Estancia, Malinao, Albay.



Special Project

Special Area for Agricultural Development (SAAD)

Special Area for Agricultural Development (SAAD) BICOL REGION is a locally-funded program of the Department of Agriculture intended to help alleviate poverty among the marginalized sectors in agriculture and fishery.

Coined after the Bisaya word which means "promise", the SAAD is a brainchild of Secretary Emmanuel F. Piñol in line with President Rodrigo Duterte's thrust on food security and poverty alleviation.

The program has two major components:

1. Social Preparation and Intensified Production
2. Livelihood interventions based on the Assessed needs of the beneficiaries.

Out of the 30 provinces chosen based on poverty incidence and "island equity principle," three (3) Bicol provinces were included starting 2018: Masbate (covering six 4th & 5th class municipalities), Catanduaes (covering six municipalities) and Sorsogon (covering six municipalities).

The SAAD beneficiaries were composed of households and groups earning below the poverty threshold, who are willing to engage or already engaged in agri/fisheries, may be farmers listed in the RSBSA, Municipal Agriculture Office's (MAO) farmers' registry, 4Ps beneficiaries, Indigenous People's group, or members of accredited farmer org./coops and did not receive similar interventions from DA Programs in the past 2 years.



*Bernadette San Juan,
SAAD National Program Director*



*Rodel P. Tornilla
SAAD Regional Focal Person*



Special Area for Agricultural Development (SAAD)
Areas in Bicol CY 2018



As 2018 was the initial year of SAAD in Bicol, majority of the activities were focused on Social Preparation such as identification and profiling of the beneficiaries as well as conduct of different trainings for the beneficiaries to prepare their mindset.

A total of 77 batches of trainings were conducted on the following:

- Upland rice production (for 873 farmer participants)
- Corn production (for 580 farmers)
- High Value Crops (for 800 farmers)
- Livestock Production (for 1,080 farmers)
- Goat production (for 175 farmers)
- Native Chicken (for 730 farmers)
- Native Piglet (for 175 farmers)





SAAD interventions distributed to farmers for CY 2018 included:

- 110 heads native piglets awarded to 10 beneficiaries
- 1,880 heads of ducks awarded to 94 beneficiaries)
- 5,450 heads of native chicken including animal housing awarded to 235 beneficiaries
- 45 heads of buck including animal housings awarded to 45 beneficiaries
- 3,485 bags of rice seeds planting materials complete fertilizers and garden tools
- 50 heads draft animal
- Vegetables seeds / planting materials and garden tools awarded to 4,590 beneficiaries.
- 580 bags White corn seed.



Special Project

Philippine Rural Development Project

Driven by the vision of a modern, inclusive, value chain-oriented and climate-smart agriculture and fisheries sector in Bicol, the Philippine Rural Development Project (PRDP) made significant milestones in 2018.

As projected, the six-year World Bank-assisted development project being implemented by the Department of Agriculture in partnership with local government units (LGUs) and the private sector is now beginning to support the national development goals of inclusive growth, job creation and poverty reduction.

Recently, the PRDP was cited by the World Bank as one of the most outstanding programs that is worth replicating by other nations.

As of December 28, 2018, the PRDP-Bicol has accomplished and implemented 61 subprojects worth a total of P2.51 billion. About P1.18 million of these subprojects were already obligated and P548.97 were disbursed.

The PRDP-Bicol completed 15 I-BUILD and I-REAP subprojects worth a total of P1.91 billion. Meanwhile, 18 subprojects amounting to P1.03 billion are on-going implementation and 20 subprojects with a total cost of P804.22 million are under procurement.

I-BUILD

The PRDP-Bicol Intensified Building-Up of Infrastructure and Logistics for Development (I-BUILD) has completed five infrastructure development (I-BUILD) subprojects in 2018.

These are:

- a. Construction of the 150 square meter warehouse for the Albay Coco Geonets Manufacturing Enterprise in Libon, Albay;
- b. Camarines Sur Coconut Sap Sugar Processing Center in Baao, Camarines Sur;
- c. Coco Geonet Production and Coco Peat Processing Project in Sta. Elena, Camarines Norte; and the
- d. Camarines Norte Pineapple Trading and Processing Project in Labo, Camarines Norte; and
- e. Rehabilitation of San Isidro-Pag Oring Nuevo Farm to Market Road in Libmanan, Camarines Sur

Construction is on-going for nine I-BUILD subprojects in Albay, Camarines Norte, Camarines Sur, Catanduanes and Masbate while five I-BUILD subprojects are under procurement. Through these I-BUILD sub-projects, project areas along the value chain will benefit from strategic and climate-smart rural infrastructure facilities which will facilitate the linkage of production areas to markets. In addition, these I-BUILD sub-projects will boost farmers' productivity and reduce production losses.

Portfolio of I-BUILD Subprojects Status

A. By Stage

Stage	No. of Projects	Quantity (km)	Subproject Cost (P)	Cumulative Financial Status		
				Obligation	Disbursement	Disbursement (%)
Completed	5	6.00	59,861,027.39	53,670,513.28	41,831,748.52	77.94
On-going Construction	9	98.45	994,086,326.89	907,062,661.23	456,866,895.22	50.37
Under Procurement	5	40.27	718,403,180.01	126,758,700.00	-	-
Priority Subprojects	3	15.88	309,224,572.02	-	-	-
Proposed Subprojects	4	21.11	290,189,950.96	-	-	-
Total	26	181.71	2,371,765,057.27	1,087,491,874.51	498,698,643.74	45.86

A. By Province

Province	No. of Projects	Quantity (km)	Subproject Cost (P)	Cumulative Financial Status		
				Obligation	Disbursement	Disbursement (%)
Albay	4	23.33	441,348,556.51	186,348,025.94	165,587,233.07	88.86
Camarines Norte	7	47.64	630,654,005.43	397,512,900.00	120,090,759.85	30.21
Camarines Sur	8	56.36	541,973,316.67	293,717,649.43	94,803,381.05	32.28
Catanduanes	2	7.37	132,942,621.88	5,402,744.53	803,671.46	14.88
Masbate	3	34.89	471,500,707.62	204,510,554.61	117,413,598.31	57.41
Sorsogon	2	12.12	153,345,849.16	-	-	-
Total	26	181.71	2,371,765,057.27	1,087,491,874.51	498,698,643.74	45.86

*Rehabilitation of San Isidro - Pag Oring
Nuevo FMR in Libmanan, Camarines Sur*



Albay Coco Geonets Manufacturing Enterprise in Libon, Albay



Camarines Sur Coconut Sap Sugar Processing Center in Baa, Camarines Sur



I-REAP

The Investments in Rural Enterprises and Agriculture and Fisheries Productivity (I-REAP) component is considered as the heart of PRDP implementation. By establishing upscaled enterprises at appropriate commodity value chain segments, capacitating farmers and fisherfolk to adopt productivity enhancement technologies, and connecting them with prospective markets, PRDP achieves its objective of increasing the annual real farm incomes of its household beneficiaries.

Through the efforts of the I-REAP team, 10 enterprise development subprojects in Bicol were completed. These include the regular I-REAP subproject Coco Geonet Production Project in Sta. Elena, Camarines Norte and nine microenterprise subprojects in Sorsogon namely:

- a. Bagacay Seaweeds Production and Marketing in Gubat, Sorsogon;
- b. Tomalaytay Seaweeds Production and Marketing in Castilla, Sorsogon;
- c. Carayat Seaweeds Farmers Association in Prieto Diaz, Sorsogon;
- d. SAMAGI Seaweeds Production and Marketing in Sorsogon City;
- e. Cogon Seaweeds Production and Marketing in Castilla, Sorsogon;
- f. Cagang RIC Native Chicken Production and Marketing in Barcelona, Sorsogon;
- g. San Francisco Gabi and Ginger Production and Marketing in Bulusan, Sorsogon;
- h. Establishment of Cottage Industry (Handicraft) in Sorsogon; and the
- i. Foodcrop Production and Marketing in Sorsogon City.

Portfolio of I-REAP Subprojects Status

A. By Stage

Status	No. of Project	Subproject Cost (P) (LP+GOP+LGU)	Obligated (LG & GOP)	Disbursement (P) (LG & GOP)	Rate Disbursement (%)
Completed	10	10,818,009.50	8,654,407.60	8,592,767.69	99.29
Ongoing	9	42,274,098.90	33,819,279.12	27,920,879.12	82.56
Under Procurement	6	63,987,226.13	31,693,420.10	5,960,000.00	18.81
Total	25	117,079,334.53	74,167,106.82	42,473,646.81	57.27

B. By Province

Province	No. of Project	Subproject Cost (P) (LP+GOP+LGU+PG)	Obligated (LG & GOP)	Disbursement (P) (LG & GOP)	Rate Disbursement (%)
Albay	3	15,242,850	12,194,280	6,428,448	53
Camarines Norte	2	19,222,470	15,377,976	10,861,176	71
Camarines Sur	1	2,018,975	1,615,180	1,615,180	100
Catanduanes	4	17,871,194	14,296,955	12,915,355	90
Masbate	3	29,302,739	12,493,855	4,100,800	33
Sorsogon	12	33,421,106	18,188,860	6,552,688	183
Total	25	117,079,334.53	74,167,106.82	42,473,646.81	57.27



(Above) Seaweed micro enterprise restores livelihood of typhoon-affected fisherfolk in Sorsogon

Recipients of motorized banca in Sorsogon



An estimated 1,000 coconut farmers will benefit from PRDP funded P7.62 million Coco Geonet Production Project

Meanwhile, nine I-REAP subprojects in Albay, Camarines Norte, Camarines Sur, Catanduanes and Masbate are ongoing implementation while six are under procurement.

I-PLAN

The PRDP Investments in Agriculture and Fisheries Modernization Plan (AFMP) Planning at the Local and National Levels (I-PLAN) has produced 14 value chain analyses (VCAs) in 2018. These include the national VCA on seaweeds and the clusterwide VCA on swine and coco sap sugar. I-PLAN Bicol on the other hand, has completed the regional VCAs on abaca and pili and the provincial VCAs on Camarines Norte and Albay's coco geonets, Camarines Sur's coco sap sugar, Albay's sweet potato, Camarines Sur's cassava, Camarines Norte's pineapple, Catanduanes' mangrove crab, Masbate's coconut shell charcoal, Masbate's live goat and Sorsogon's seaweeds.

The I-PLAN Bicol also assisted in updating the Provincial Commodity Investment Plans (PCIPs) of the six provinces in the region as well as the City Commodity Investment Plan (CCIP) for Naga City. These serve as basis in selecting eligible interventions or subprojects within the segments of the value chain for funding under PRDP.

By institutionalizing PCIPs as a strategic plan for convergence, PRDP-Bicol generated P2,412.32 million pesos from non-PRDP investments and pledges in support to the Commodity Investment Plans.

Moreover, the first ever I-PLAN 1.2 Research nationwide under the PRDP was awarded to Bicol thru the Catanduanes State University with the ceremonial turn-over of the first tranche of check amounting to P840,000 on November 21, 2018 to kick-off the Catanduanes Mangrove Resource Mapping and Stakeholders Engagement for Sustainable Crab Industry Development.

Approved with NOL

National

Seaweeds

Clusterwide

Swine

Coco Sap Sugar

Regional

Abaca; and Pili

Provincial

Coco Geonets (Cam. Norte & Albay)

Coco Sap Sugar (Camarines Sur)

Sweet Potato (Albay)

Cassava (Camarines Sur)

Pineapple (Cam. Norte)

Mangrove Crab (Catanduanes)

Coconut Shell Charcoal (Masbate)

Live Goat (Masbate)

Seaweeds (Sorsogon)



Institutionalization of CIP

Cost of intervention being identified through the P/CCIP

As of December 28, 2018

Province / City	PRDP (Cost in Million Pesos)	Non-PRDP (Cost in Million Pesos)	Total
Albay	419.99	121.73	541.73
Camarines Norte	658.84	364.91	1,023.75
Camarines Sur	538.37	1,521.02	2,059.39
Catanduanes	149.95	220.86	370.81
Masbate	497.31	47.10	544.40
Sorsogon	185.92	136.70	322.61
Total	2,450.38	2,412.32	4,862.69

Global Environment Facility

PRDP-Bicol, in partnership with the Global Environment Facility (GEF), is also committed in strengthening the conservation of the coastal and marine resource base in targeted areas in the region. Currently, some equipment for marine protected area (MPA) management and rehabilitation were already turned over to four GEF sites in Sorsogon namely the Marine Reserve and Fish Sanctuary Protection and Preservation (Bantigue Marine Reserve and Fish Sanctuary) in Pilar, the Fish Sanctuary Rehabilitation (Magallanes Fish Sanctuary and Marine Reserve Rehabilitation) in Magallanes, the Rehabilitation of Butag Bay Fish Sanctuary and Marine Reserve) in Bulan, and the Fish Sanctuary Rehabilitation (Community-Based Coastal Ecosystem Protection and Biodiversity Conservation) in Matnog to support MPA monitoring activities while other interventions including that of the Fish Sanctuary Rehabilitation and Improvement (Community-Based Coastal Ecosystem Protection and Biodiversity Conservation) in San Fernando, Masbate are under procurement.



Agribusiness and Marketing Assistance Division



ASPIRE

On the second year of the Agribusiness Support for Promotion and Investment in Regional Expositions (ASPIRE) implementation in Bicol, 38 exhibitors participated in the 4-day trade fair garnering over P1.2 million income from the sales of various agricultural products. ASPIRE aims to strengthen the link of suppliers (farmers/fisherfolks/producers), processors, MSMEs and other stakeholders to integrate market development support services.

Market Related Events Conducted

For CY 2018, the Agribusiness and Marketing Assistance Division has conducted seven (7) Trade Fairs and Exhibits which were participated in by 167 exhibitors and generated a total gross sales amounting to P3,178,317.00.

Farmers' Festival

Sixty-eight (68) exhibitors composed of individual farmers, women's groups, farmers associations and operators of barangay food terminals participated in the trade fair. The exhibitors garnered a total sales of over P600,000 during the two day trade fair.



Market Related Events Funded

To help budding entrepreneurs promote their products, the division funded seven (7) market related events which were participated by 86 exhibitors from different provinces and generated a total gross sales amounting to P9,492,344.08.





Trade fair and exhibitions were often held in the big malls in Naga City and Legazpi City.

Thirteen (13) market related events were assisted by the AMAD which were participated by 53 exhibitors from different provinces and generated a total gross sales amounting to P 804,472.92.

Tien DA

Eleven (11) TienDA Farmers and Fisherfolk's Outlets and TienDA Malasakit Stores were participated by 27 exhibitors and generated gross sales of P470,248.00. These events provided an alternative market outlet for local farmer producers and an easier access to freshly produce and reasonably priced farm products for consumers.



International Market Related Events

Five (5) international market related events, held abroad or in the country, were participated by 8 exhibitors to promote Bicol region's products in the international market.



Other Market Related Activities

To increase awareness and demand on the use of organic products and encourage farmer adoption of organic agriculture, 11 Consumer Awareness Seminars were conducted in different provinces in the region.

Likewise, five (5) Market Fora on cassava, corn, and rice-corn blend were conducted which provided opportunities to both farmers/producers and buyers/feed millers to discuss market demands, requirements and other conditions of buyers and producers.



As a result of market matching, 200.5MT of cassava and 200MT of corn were market matched to buyers which closed deals amounting to P4,678,500.00.

AMAD also subsidized booth rentals of three (3) organizations producing and processing quality grown products in product exhibitions where they have promoted and sold their products.



Bigas ng Masa

In support to Bigas ng Masa, AMAD put up a rice retailing post at the DA Grounds and sold 22.4MT of well-milled and regular-milled rice amounting to P 1,000,025.00.



Training on Packaging and Labelling

Two (2) Trainings on Product Packaging and Labelling were conducted wherein the speakers assisted the entrepreneurs in packaging and labelling of their products and to develop the image and brand of their associations/cooperatives.

Investment Fora

Eight (8) Investment Fora were conducted and participated by 480 farmers, suppliers, agri-entrepreneurs, buyers, academe, financial institutions, food processors, and agricultural technicians. The activity aimed to increase awareness on the latest market demands and explore new opportunities and strengthen a multi-sectoral network system for investments.



Kapatid Agri-Mentor Me Project

The project was launched in 2017 to empower and upgrade MSMEs and to enable them to participate in the value chain. It also aims to help the micro, small and medium entrepreneurs to scale up their businesses through coaching and mentoring sessions by business owners/practitioners on different functional areas of entrepreneurship.

For CY 2018, trainings on Kapatid Agri-Mentor Me Project (KAMMP) and Business Plan Preparation were conducted and participated in by the managers and chairpersons of rice processing centers beneficiaries in the region. These activities helped the agri-entrepreneurs scale up their businesses through coaching and mentoring sessions by business owners/practitioners of different functional areas of entrepreneurship.



Training on Rice-Based Food Product Development

Three (3) batches of Training on Rice-based Food Product Development were conducted on June 25-26 & June 27-28, 2018, August 14-15, 2018 at the Food Laboratory, of DA-RFO 5. These were participated in by different rice farmers from different municipalities in Camarines Sur, Camarines Norte, Sorsogon and Albay.

At the end of the training, participants learned that there are many other products that can be prepared using rice which they will also share with friends and other members of their association/cooperative.



Stakeholders' Consultation

Three (3) stakeholders' consultation meetings/fora were conducted for cacao and gabi stakeholders where technologies, market demands/trends and also business relationships among stakeholders in the region were discussed to strengthen multi-sectoral network system for investments and entrepreneurship. Also, issues and concerns along the value chain of their respective commodities were discussed.

A day after the forum, selected cacao growers were invited to the farm of Mayor Fermin Mabulo for the hands-on training.



Credit Facilitation

Eight batches of Orientation on Production Loan Easy Access (PLEA) program were conducted and participated in by the provincial LGUs, municipal and city agriculturist/officers of Albay and Masbate as well as representatives of rural banks, cooperatives and irrigators associations which were targeted as lending conduits.

A total of P47,985,100.00 were already released to 1,149 farmer borrowers by four rural banks as accredited conduit under PLEA.



Price Monitoring

Regular price monitoring in two major market centers (Naga City People's Mall and Legazpi City Public Market) were conducted twice a week.

A Regional Bantay Presyo Monitoring Team (RBPMT) was activated during the Mayon volcano eruption and consultation meetings with market administrations, municipal agriculturists, representatives of consumer groups and government agencies in Albay province were conducted. Massive price monitoring was conducted during the declaration of state of calamity in several municipalities of Albay.

Two inter-agency meetings were conducted in 2018 to strengthen the team as enforcement and monitoring body. The team also conducted information dissemination for the market sector especially the market vendors and members of the Local Price Coordinating Council on updates of each agencies' efforts to regulate price of agricultural and prime commodities.



Food Lane Project

Orientation on Foodlane Accreditation was conducted last May 10, 2018 in collaboration with the Metro Manila Development Authority (MMDA), Department of Interior and Local Government (DILG), and AMAS.

As an offshoot of the orientation conducted at Macagang Business Center, Nabua, Camarines Sur, with Metro Manila Development Authority (MMDA), Department of Interior and Local Government (DILG), AMAS and DA RFO 5, 13 vehicles were accredited and five were renewed under the Foodlane Project. Accredited trucks were allowed 24 hours passage to the designated routes by the MMDA.



Agri-Pinoy Trading Centers (APTCs)

Seven (7) batches of Entrepreneurial Capability Trainings were conducted both for Agri-Pinoy Trading Center (APTC) Vinzons, Camarines Norte and Tabaco City, Albay. The participants were equipped on values formation, financial literacy and pricing techniques. Several consultation meetings were also conducted on the planned operationalization of APTC Tabaco and the turn-over of management of APTC Vinzons to a cooperative.



Rice Processing Centers (RPCs)

DA RFO 5 has established a total of 37 Rice Processing Centers all over the Bicol Region. Most of it are in Camarines Sur as the province contributes more than 50% of rice production of the region.

This P16M worth RPC has a multipass rice mill with 1.2 tons per hour output capacity and a minimum of 65% milling recovery; 1 ton weighing scale and 1 unit portable moisture meter; 3 sets recirculating grain dryer with biomass furnace with a holding capacity of 6 tons of wet palay per set; 550 square meter warehouse with complete drainage, rat proofing and 3-phase line electrical system including transformers.

AMAD facilitated the release of P1M working capital for the RPC 1 recipients to be used in buying palay from our local farmers.

AMAD assisted 20 new RPC beneficiaries in the preparation of their documents for the Civil Society Organization (CSO) accreditation with the DA.

Rice Processing Center (RPC) is one of DA's big ticket projects being given to duly registered farmers organizations engaged in rice farming and willing to engage in palay and rice trading to provide them access to modern and efficient drying and milling facilities. The equity is in the form of lot with a minimum area of 1,000 sq. m. and surrounded by more than 5,000 hectares rice area within 50-km radius.



In photo are recipients of RPC P1M working capital: Nabua Coconut Farmers Multi-purpose Assn. (top) with 65 members who were represented by its Chairperson Trinidad D. Sarsuzo; Cam. Sur Multi-purpose Coop with over 3,000 farmer members represented by its General Manager Annielen L. Panerio; and the Nabua West Multi-Purpose Coop (left) with 360 members who are rice and corn farmers, headed by Chairperson Julian B. Abonal Jr.

Integrated Laboratories Division

To ensure consumer safety and promote quality standards of agricultural products through accurate, timely and reliable laboratory results for regulatory, research and development, production, extension and marketing services, the Integrated Laboratory Division of the Department of Agriculture Region 5 accomplished 100% of the targeted laboratory services and interventions as follows:

Regional Animal Disease Diagnostic Laboratory (RADDL)

RADDL completed all the targets by 100% for the different laboratory analyses with a total of 10,721 tests conducted. A total of 3,391 heads of animals were diagnosed for diseases with an increase of 8.3% from last year of 3,131 field diagnosis.

For CY 2018, there was an increase in the number of samples submitted for rabies diagnosis submitted, consisting of 329 dog's/cat's heads compared to 214 samples last year. Furthermore, RADDL attained the highest positivity rate from 21% in 2014, 18% in 2015, 8.4% in 2016, and 23.4% in 2017 to 30.1% this year. Likewise, a total of 2,466 fecal samples for liverfluke through sedimentation procedure were tested with 58 liverfluke positive cases noted from cattle (24 heads) and carabao (34 heads). Meanwhile, no positive liverfluke cases were noted from small ruminants.

A total of 208 samples were tested for the presence of New Castle Disease antibodies from chicken for surveillance purposes. All the samples yield negative results. The laboratory also conducted testing for sero-surveillance and shipment for Caprine Arthritis Encephalitis (CAE) antibodies using Enzyme Link Immunosorbent Assay (Elisa). A total of 770 samples from goats were collected and examined with 23 samples yielding positive results.

Diseases of swine were tested using Elisa procedures. Seventy-three (73) samples were tested for Pseudorabies virus antibodies with negative results; 113 samples tested for Porcine circovirus 2 antibodies with 24 samples render positive results; and 73 samples tested for Porcine reproductive and respiratory syndrome virus with 7 samples yield positive results.

Furthermore, a total of 1,156 samples (753 for cattle, 84 for carabao and 319 for goat) were tested for brucellosis disease and diagnosed by Rapid Plate Agglutination Test (RPT) with only 1 sample for goat yield positive results. Likewise, 21 heads of chicken mostly game fowl, 2 piglets, 1 dog and 1 leatherback turtle were examined for Gross Pathology (Necropsy). Among the diseases diagnosed were mixed infection complicated with severe parasitism, infectious coryza, chronic respiratory disease, new castle disease, infectious bursal disease and colibacillosis. The RADDL also conducted two (2) batches of Trainings on Enhancing diagnostic capabilities on animal diseases and technical assistance to the Local Government Units.



Regional Animal Feeds Analysis Laboratory (RAFAL)

For CY 2018, RAFAL accomplished 100% of 3,716 targeted determinations and test parameters including crude protein, moisture, crude fiber, crude fat, crude ash, calcium, total phosphorus and aflatoxin testing with 178 clients served (103 females; 75 males). There were also routine/internal clients who submitted feed samples/ ingredients for analysis to monitor the quality of feeds being milled or sold in feed outlets regionwide for regulatory purposes.



Regional Soils Laboratory (RSL)

The Regional Soils Laboratory focused on the analysis of soil samples, water samples and plant tissue. A total of 1,435 soil samples from rice areas (1,021) and corn areas (414) were analyzed and given fertilizer recommendation for 510 farmer beneficiaries with 102.8% accomplishment over the annual target. Likewise 66 water and 32 plant tissue samples were conducted benefitting researchers, academe, students and farmers. Three (3) batches of training on Integrated Nutrient Management, Proper Soil Sampling and Soil Analysis using STK were conducted for the new Agricultural Extension Workers in the region.



A total of 57 soil test kits coming from the Local Government Units (31) and academe (26) were refilled attaining 114% of the target for the year.

Regional Crop Protection Center (RCPC)

RCPC accomplished 100% of its targeted interventions for CY 2018. A total of 2,000 kilograms metarhizium anisopliae, 2,000 packs of Trichoderma harzianum, 50,260 pieces tricho cards of Trichogramma evanescens and 100,000 pieces earwigs were produced and distributed to farmers for free as an alternative to chemical pesticide. Likewise, 160 liters insecticides, 250 kilograms fungicides and 200 rodenticides were procured for Buffer stock and distributed to the Local Government Units with reported pest occurrence for immediate application of farmers to prevent spread of pest and diseases.

Eight (8) batches of Bantay Peste Trainings for rice (5) and corn (3) were conducted with 280 farmers trained. Moreover, four batches (4) Reinforcement Training on Crop Health Management and Pest Updates for Rice were conducted with 120 Agricultural Extension Workers (AEWS) trained.



Planning, Monitoring and Evaluation Division



For the year 2018, the Planning, Monitoring and Evaluation division continued to be the lead division responsible for the preparation of the DA Regional Office's Annual Plan and Budget Proposal, monitoring and reporting of the region's agricultural development. PMED also maintained the National Information Network (NIN) and updated the region's agriculture database geared towards the fulfilment of DA's vision of having available and affordable food for every Filipino people.

Guided by the DA's thrusts and priorities, PMED facilitated the submission of P3,754,829.20 FY 2019 Budget Proposal (Tier 1- P2,096,268.00, Tier 2 - P1,658,561.20). The division conducted various consultations/ workshops/meetings on agency's proposed programs and projects in coordination with the Regional Banner Program Coordinators of Rice, Corn, High Value Crops, Livestock and Organic Agriculture and Locally-funded Projects focal persons, division chiefs and Research Outreach Stations (ROSeS) superintendents.

To guarantee that programs, projects and activities of DA were properly consulted to the various agri-fishery stakeholders, PMED also spearheaded the conduct of Civil Society Organizations (CSOs) Consultation on FY 2019 Plan and Budget Proposal.

The PMED Chief and staff also participated in various meetings called by DA-Central Office, budget oversight hearings of House of Representatives, and Senate and agencies like the National Economic Development Authority (NEDA) and Department of Budget and Management (DBM). This is to ensure that the proposed plan and budget for the agriculture sector in the region is aligned with the Ambisyon Natin 2040 that describe the kind of life that people want to live, that is Matagatag, Maginhawa at Panatag na Buhay para sa Lahat.

The division also assisted the Regional Executive Director (RED) in attending the quarterly Regional Development Council (RDC) Full Council Meetings and ensured representation in meetings of its various committees such as the Economic Development Committee (EDC), Regional Statistics Committee (RSC), and Bicol Regional Tourism Committee (BRTC).

The division also took charge in updating the agency's Public Investment Program (PIP), Regional Development Investment Program (RDIP) and Three-Year Rolling Infrastructure Program (TRIP) and submission of these programs to the Central Office and NEDA as input to the annual Plan and Budget of DA-RFO 5.

The Public Investment Program (PIP) is a six-year programming document accompanying the Philippine Development Plan (PDP) which contains the proposed and ongoing priority programs and projects that contribute to the achievement of the societal goal and targets in the Philippine Development Plan, and respond to the outcomes and outputs in its Results Matrix (RM). The TRIP is a list of priority infrastructure PAPs (Tiers 1 and 2) for funding geared towards synchronizing and streamlining the infrastructure planning, programming, budgeting and execution processes of government. This shall be the basis for the list of infrastructure PAPs (new and ongoing) to be included in the NEP by DBM.

To ensure that annual targets were attained as scheduled, PMED conducted semestral and annual program implementation reviews which were attended by the heads of offices, banner program coordinators, Research Outreach Stations (ROS) superintendents, projects' focal persons and report officers.



Aside from its participation in the Department and National Program Directorates' Assessments, PMED prepared and submitted quarterly and annual accomplishment reports to DA Central Office, NEDA and COA including to other offices like Bangko Sentral ng Pilipinas. These documents were used by DA-5 officials in the Quarterly,



Semestral and Annual Program Assessments led by the Banner Program Directorates and DA-Central Office Planning and Monitoring Service (PMS) and Budget Office, and three Regional Program Implementation Reviews to evaluate the performance of the agency and to identify its best practices in addressing the challenges of the program implementation.



As the lead secretariat in DA's accreditation of Civil Society Organization



(CSOs), PMED conducted field validation of applicants and facilitated issuance of Accreditation Certificates to five (5) farmers organizations, (four [4] cooperatives and one [1] association), all recipients of Rice Processing Centers (RPCs) in Camarines Sur Province.

DA is accrediting CSOs to encourage people's participation in agricultural development based on the principle of good governance and to ensure that only DA accredited CSOs can participate in the implementation of agriculture and fisheries programs and projects.

DA is accrediting CSOs to encourage people's participation in agricultural development based on the principle of good governance and to ensure that only DA

Likewise, PMED spearheaded the crafting of Bicol RAFMP 2018-2023 to embody the aspirations, goals and dreams of the Bicolanos in the agriculture and fishery sector not only for themselves but for the region and the country as well. This was in partnership with the Banner Programs, Provincial Agricultural Offices of Albay, Camarines Norte, Camarines Sur, Catanduanes, Masbate and Sorsogon and concerned Bureaus and Attached Agencies like BFAR, PhilFIDA, PCA, PCIC, NMIS, and SRA, local Agricultural and Fishery Councils (AFCs), farmer-leaders, SUCs and the other partners from the private sector. A series of provincial RAFMP consultations was conducted in the different provinces.

The division also participated in the different Agriculture and Fisheries Modernization Plan (AFMP) workshops that DA- Central Office has initiated to come up with the NAFMP



AFMP 2018-2023 Provincial Consultation in Camarines Norte.



AFMP 2018-2023 Provincial Consultation in Albay.



AFMP 2018-2023 Provincial Consultation in Masbate.



AFMP 2018-2023 Provincial Consultation in Cam. Sur.



AFMP 2018-2023 Provincial Consultation in Catanduanes.



AFMP 2018-2023 Provincial Consultation in Sorsogon.

2018-2023. As a result, the Bicol RAFMP 2018-2023 was crafted envisioning a competitive, sustainable, market-integrated and technology-based Agriculture and Fishery sector, driven by the region's productive and progressive farmers, fisher folks, and concerned stakeholders profitably engaged in and supported by, effective value chains synergistically contributing to Inclusive Growth and substantial Poverty Reduction. It visualizes Bicol Region as the Abaca and Pili Champion of the World!

Said plan also incorporated the Local Food Security Plans (LFPs) crafted by the Bicol LGUs which aims to curb the rising inflation rate in the Bicol Region especially on food (rice, vegetables, meat, fish) and services. As a proof of commitment to attain food security in the region, some Southern Luzon Mayors and their representatives formally presented their food security plans to Department of Agriculture Secretary Emmanuel Piñol during the Food Security Summit at the Philippine International Convention Center (PICC), Pasay City on October 4, 2018. The summit was anchored on the theme: "Mamamayan Ko, Pakakainin Ko".



Prior to the national food summit, more than 200 agriculture stakeholders in Bicol converge in Villa Caceres Hotel, Naga City last September 24 – 25, 2018 for the Regional Food Security Planning Workshop and for the preparation of the Local Food Security Plan (LFSP). The summit was attended by municipal, city and provincial agriculturists, agricultural officers, agriculture and fisheries council chairs, stakeholders, planning and development officers all over the Bicol Region along with the representatives from the, National Irrigation Administration (NIA), Bureau of Fisheries and Aquatic Resources (BFAR) and the National Meat Inspection Service (NMIS).

Food Security Summit at the Philippine International Convention Center (PICC), Pasay City on October 4, 2018.

The division also handled the implementation of the Gender and Development (GAD) Program and the DA-PCW Gender-Responsive Economic Actions for the Transformation of Women (GREAT) Women Project 2, Regional Agricultural and Fishery Council (RAFC) projects and activities as well as the Annual Gawad Saka Search for Outstanding Achievers in Agriculture and Fishery.

Regional Agricultural Engineering Division

Farm Mechanization

For 2018, the Regional Agricultural Engineering Division (RAED) through its three (3) sections namely, Engineering Plan, Design and Specification Section (EPDS), Program and Project Management Section (PPMS) and Standard Regulations and Enforcement Section (SRED) had simultaneously conducted various activities such as validation, preparation of program of works (POW)/detailed engineering designs, monitoring and inspection and other agricultural engineering related activities to ensure timely delivery of farm mechanization interventions to our farmers.

Agricultural Machinery and Equipment, Infrastructures and Postharvest Facilities

RAED has validated 384 applicants which have submitted intent to avail of DA's intervention such as 4WD tractor, combine harvester, hand tractor, thresher, transplanter, recirculating dryer, seed spreader, multi-purpose drying pavement, and warehouse. It has also identified 120 project recipients of farm machineries and equipment, 35 project recipients of multi-purpose drying pavement, 1 for warehouse and 5 for recirculating dryer across all the provinces in Bicol Region.

The RAED staff also assisted during the mass distribution of agricultural machineries and equipment in the provinces of Camarines Sur, Camarines Norte, Masbate and Albay.

Monitoring of the construction of multi-purpose drying pavement, inspection of agricultural machinery and equipment and testing and inspection of recirculating dryer were also undertaken by the division. Nine units of Rice Mill of Rice Processing Center (RPCs) were also tested and six units of Rainshelter and four units of Multi-commodity Solar Type Dryer (MCSTD) under the HVCDP were inspected.

RAED also sponsored the Midyear Agricultural Mechanization and Infrastructures Performance Assessment Workshop and PRDP Innovation Integration of all the DA Regional Offices nationwide on July 23-27, 2018 at Villa Del Rey, Cadlan, Pili, Camarines Sur. It also conducted training on the operation and Maintenance of Flat Bed Dryer for project recipients on October 24-27, 2019 in Naga City. The Regional and Provincial Agricultural Engineering Division (RAED-PAEG) Meeting was held on October 29-31, 2019 in Naga City to identify project implementation issues and strengthen the implementing strategies.

To familiarize the recipients of SSIP on their role in the operation and maintenance of said facilities, an Implementation Meeting and orientation cum workshop was conducted on November 8, 2019 in Naga City.



Irrigation Network Services

The Engineering Division also monitored the progress of 20 projects on rehabilitation of Diversion Dam and Small water Impounding Projects (SPIS) and 2 projects on spring development.

The performance of 10 units of Solar-Powered Irrigation System (SPIS) were likewise assessed for Enhanced Rice Productivity under Rice Program. The installed SPIS shall be subjected to AMTEC testing of the Solar Power Irrigation System (SPIS) projects. AMTEC test shall be conducted to ensure that the installed SPIS meet the required discharge which is 28 liter per second and other needed specifications.

Cooperating Agency	Target Beneficiaries	Project Location
LGU of Minalabac	Timbang Multi-Purpose Cooperative	Baliuag Nuevo, Minalabac, Cam. Sur
LGU of Nabua	Nabua Coconut Farmers Multi-purpose Assn.	Angustia, Nabua, Camarines Sur
LGU of Bula	Banasi Farmers Association	Banasi, Bula, Camarines
LGU of Bulan	Bigkis Farmers Organization	Sta. Remedios, Bulan, Sorsogon
LGU of Sta. Elena	Samahan ng Magsasaka, Magniniyog at Mangingisda ng Basiad (SMMM).	Basiad, Sta. Elena, Camarines Norte
LGU of Ocampo	Cagmanaba Agrarian Reform Farmers Beneficiary	Cagmanaba, Ocampo, Cam. Sur
LGU of Libmanan	Mangcawayan Irrigators Association Inc.	Mangcawayan, Libmanan, Cam. Sur
LGU of Pasacao	Quitang Farmers Association	Quitang, Pasacao, Camarines Sur
LGU of Talisay	Samahang Magsasaka ng San Jose	San Jose, Talisay
LGU of Veneracion	Veneracion Farmers and Urban Poor Assn.	Veneracion, Pamplona, Cam Sur

A total of 106 applicants which have submitted intent to avail DA's irrigation network services -intervention such as construction, rehabilitation and improvement of Diversion Dam, Small Water Impounding Project and irrigation canal and solar powered irrigation system were validated. From these, only 73 proposed projects sites of applicants have met the minimum technical requirement for specific irrigation projects. Likewise, 34 detailed engineering plans and designs across all DA banner programs such as rice, corn, HVCDP, organic, livestock including other infra projects were prepared by the RAED.

Administrative and Finance Division

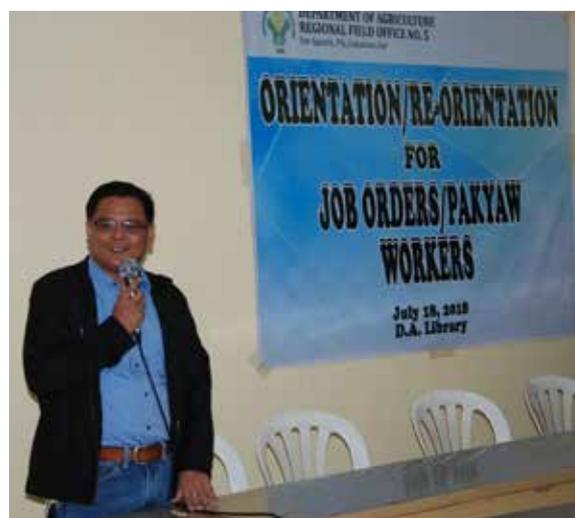
Human Resource Management Section (HRMS)

The year 2018 has been a promising year for the Human Resource Management Section (HRMS) as it conducted its yearly activities geared towards the promotion of personal growth and professional development of the DA RFO 5 workforce.

A two day technical assistance from CSC Region 5 was held on July 10-11, 2018 at Villa Caceres Hotel, Naga City to discuss the four core areas under PRIME-HRM.

Along with this, workshop on Strategic Performance Management System (SPMS) Review and proper calibration of performance ratings among the three dimensions Quality, Efficiency and Timeliness. Enhancement Workshop was conducted on April 29-30, 2018 to provide the participants the well informed on the proper way of doing the IPCR. It was also highlighted the importance of mentoring and coaching.

As enrichment activity for Job Order and Pakyaw workers, a one-day Orientation/ Re-Orientation Program was conducted at DA Library last July 18, 2018. DA's Vision, Mission, Goals and Projects, Key Officials and Operating Units, Office Policies, Rules and Regulations and Requirements/ Procedures for Claims of Payment for Wages were tackled in the orientation.



In line with celebration of the 118th Philippine Civil Service Anniversary with the theme, “Lingkod Bayani: Maka-Diyos, Makatao, Makabayan,” a Zumba Fitness Fundraiser dubbed as “Groovin’ for PLB Year 4”, was held at Legazpi City Convention Center, on September 7, 2018 as a kick-off activity.



In adherence to Executive Order No. 12 of President Rodrigo R. Duterte on Achieving Zero Unmet Need for Family Planning, a one day seminar for Responsible Parenthood and Family Planning Orientation Seminar was conducted last September 28, 2018 in Naga City



A pre-retirement seminar was also conducted for the employees nearing compulsory retirement. Speakers from PAG-IBIG, GSIS and other government institutions were imparted to discuss their services.



The annual Summer Youth Internship Program (SYIP) was opened to in-school and out-of-school youths.

The annual SYIP Qualifying Examinations was held on March 23 at the Lanuza Hall to select the thirty-five (35) lucky applicants who will qualify for the summer youth internship. On April 18, 2018 an Orientation Program for the interns was conducted to inform them of the existing rules and regulations of DA RFO 5.

On May 21, 2018, after a month of internship, a graduation ceremony was held as a farewell party for these young people who chose to have a productive summer rather than just stay at home.



Having another batch of public servants, an Orientation Program for New Entrants was conducted last November 20, 2018 at the DA Conference to orient them of DA's Vision, Mission, Goals and Projects, Key Officials, Government Office Hours, Leave Policies, Republic Act 6713, Performance Evaluation, and Employee Discipline as they are entering the world of public service it is but necessary to be informed of these things. Gladys Regondola, Planning

Officer II of DA RFO5 and Director Marife L. Luzuriaga of Civil Service Commission Camarines Sur Field Office were the keynote speakers of the said event.



Regulatory Division

Quality Control and Inspection

Enforcement of R.A. 10611 (Food Safety Act of 2013), R.A 1556 (Livestock and Poultry Feeds Act), R.A 3720 (Veterinary Drugs and Products Quality Control and Safety) and R.A 8485 (Animal Welfare Act); Maintenance of FMD and AI- free Bicol Region

Deputized Provincial Animal Feeds and Veterinary Drugs and Biologics Control Officers (PAFVDABCOs) and Provincial/ Regional Animal Welfare Officers have inspected 445 feed establishments. Also inspected were 1,300 feed products, 156 veterinary drugs and products (VDAP) outlets and 15 animal facilities including 6,017 animals (through sampling).



For the month of January, collection of feed samples and inspection/monitoring of establishment in Albay province were affected by volcanic eruption (Mayon Volcano) since the Regional Animal Feed Laboratory (RAFL), which is situated in Albay, suspended feed evaluation and analysis due to ash fall and other concerns related to the situation. Nevertheless, targets for the year were still accomplished with a total of 1,263 feed samples collected from manufacturers, distributors and retailers region wide and analyzed at RAFL.

Surveillance and monitoring of plant pests and animal diseases were also conducted by the division. A total of 5,951 hectares were surveyed and monitored to control the spread of diseases. Sero-surveillance or collection of blood samples from 741 animals for detection of Foot and Mouth Disease (FMD) and 720 for detection of Avian Influenza, helped maintain the AI and FMD free status of Bicol.



Registration and Licensing

A stricter approach was implemented in the registration and licensing activities under the new management of Regulatory Division in Region 5. With the capability enhancement conducted for the implementers – the PAFVDABCOs/PAWOs and regulatory staff, a more orderly flow was carried out especially in terms of filling out of forms, attachment of required legal documents, on-time return of such documents to owners, and others. Out of the 459 registered feed establishments, 218 were endorsed to BAI for issuance of new licenses. Likewise, 241 documents were approved and endorsed by the Regulatory Division to BAI for renewal. For CY 2018 also, 101 new Veterinary Drug and Product (VDAP) outlets were registered while 93 VDAP outlets were approved for renewal. Out of 12 targets for the animal facilities for animal welfare registration, 23 farms/animal facilities were registered possting 192% rate of accomplishment.

From the 2017 record of licensed feed and VDAP establishments in Bicol region, a significant increase of 17% in the number of feed distributors, 57% in feed retailers, 54% in VDAP distributors and 166% in VDAP outlets/retailer were accomplished this CY 2018. Another activity undertaken by the division was the Licensing of Livestock, Poultry, By-Product Handlers and Accreditation of Transport Carriers which has 228% and 233% rate of accomplishment for Handler's license and transport facilities, respectively.

From the registration and licensing activities, a total amount of P474,266.298 was collected for CY 2018 which is equivalent to 148% accomplishment. Out of the 400 target, the division personnel were able to return 534 or 134% approved documents (licenses/registration) to the owners of the establishment/facilities. For some establishments refusing or delaying application for licenses, notice of non-compliance and reminders were served to remind them that this is a regulation and they have to comply. This strategy also boost the division's accomplishment.



These achievements were also made possible through massive campaign and information dissemination through the conduct of seminars, distribution of pamphlets/ brochures. The division also observed close coordination with and conducted orientation among the stakeholders, Local Government Units (LGUs) staff such as the in-charge in releasing Mayor's Permit, the Business Permits and Licensing Office (BPLO), collecting offices and the like, the Municipal Agriculture Office as well as the Provincial Veterinary and Agriculture Office on the legal basis and system flow of registration and licensing under food safety and animal welfare advocacy.

Certification/Accreditation and other Activities

Good Agricultural Practices (GAP)

The Regulatory Division has endorsed 13 farms for Good Agricultural Practices (GAP) Certification. These farms are now GAP certified:

- Albay: Febre's Farm – (Ligao City)
- Cam. Norte: Labo Progressive MPC Farm – (Labo)
Jayarchelle Integrated Farm – (Basud)
- Cam. Sur: Culmonrt Farm – (Tigaon)
Arcenas Farm – (Tigaon)
Verona's Farm – (Ocampo)
Carolina Naga City Integrated Farmers Association Farm – (Naga City)
Morandartes Farm – (Buhi)
Mauswag Integrated Farm – (Pili)
Mikeliz Integrated Farm – (Calabanga)
VKs Farm – (Tigaon)
Save our Soil Federation – (Pili)
Sonrisa Farm – (Magarao)
- Sorsogon: Pilar Municipal Nursery – (Pilar)

Good Agricultural Practices (GAP) certification was done for food sources and markets to ensure safety and quality of products that are globally competitive, be it food or non-food agriculture products at the same time addressing environmental, economic and social sustainability for on-farm processes.

All of these accomplishments are in line with the agency's support to R.A. 10611 also known as "Food Safety Act of 2013" which was signed into law to strengthen the food safety regulatory system in the country. This is also in adherence to the Philippine Constitution's declaration which is to protect human life and promote the right of the people to health and to keep its populace from the threat of trade malpractices and substandard and hazardous products by working on regulations, standards, monitoring activities and other principles to achieve the purpose of food safety itself.

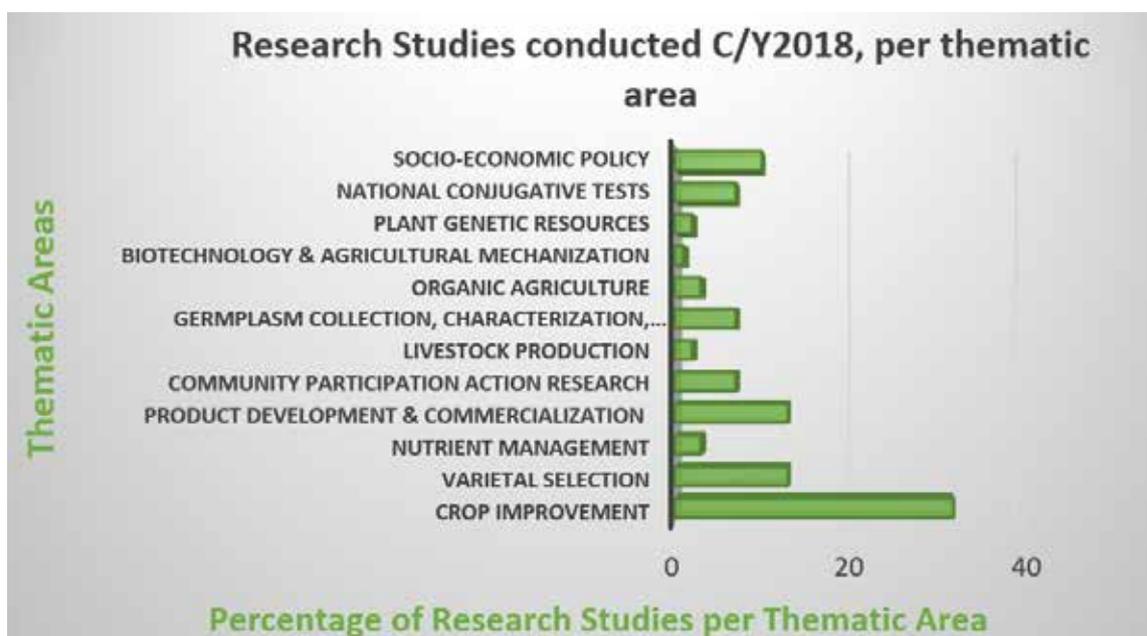
Research Division

The Bicol Integrated Agricultural Research Center (BIARC) is the center of all research activities for crop and livestock commodities as well as various systems like input, production, post-harvest, marketing, by-product utilization and socio-economics. BIARC supports the Tissue Culture Laboratory, Livestock Production Centers, maintains Production Facilities, Research Outreach Stations (ROS) and nurseries. The 6 Research Outreach Stations (ROS) maintained by BIARC are located in the different provinces in the Region, namely, Albay Research and Development Center -- Albay Experiment Station and Albay Breeding Station (ARDC- AES & ABS); Central Bicol Experiment Station (CBES); Catanduanes Hilly Upland Development Station (CHUDS); Camarines Norte Lowland Rainfed Research Station (CNLRRS); Masbate Center for Livestock Development – Regional Carabao Breeding Center and Masbate Breeding Station (MCLD – RCBC & MBS) and Regional Dairy Production and Technology Center (RDPTC); and 3 Pili Foundation Scion Groves.

Research and Development Projects

For CY 2018, a total of 92 research studies were implemented, of these, four were completed. These research studies were categorized by thematic areas, namely, 32% studies on Crop Improvement, 13% on both Varietal Selection and Product Development & Commercialization, 3% on both Nutrient Management and Organic Agriculture, 2% on both Livestock Production and Plant Genetic Resources, 1% on Biotechnology & Agricultural Mechanization, and 10% on Socio-Economic Policy. More so, there were 7% studies on Community Participation Action Research, Germplasm Collection, Characterization, Evaluation & Conservation and National Cooperative Tests. Others were grouped by funding source, to wit: 27 studies were funded by DA-BAR, 30 under Rice Program- and 7 each for both Corn and High Value Crop Development Programs, 12 studies were under Regular Fund, 6 studies under General Funds and 3 studies from PCARRD, DOST, BPI.

Fig. 1. Research Studies Implemented by Thematic Area, CY 2018.



Under the Institutional Development Grant, a total of P14.5M project was funded by DA BAR which included Rehabilitation of Central Bicol Experiment Station Perimeter Fence, Establishment of Plant Genetic Resource Center in Bicol Region, Enhancement of Production Support of the Tissue Culture and Establishment of R & D Facility in the Bicol Region. Hereunder are the highlights of some R&D studies conducted in CY 2018 in support to one of the Center's mandate to generate adaptable package of technologies (POT) likewise hasten effective transfer and utilization of verified innovations towards agricultural sector development.

The completed study titled "Technology Commercialization of Mungbean Production in Bicol Region", which garnered national and local awards, showed that the enhancement of mungbean production resulted to increased land area by 39.02% contributing to an estimated share of 1.52% of the region to the total production of the country thus an upscaling initiative/strategy towards attaining self sufficiency of mungbean.



The study on Community-based Action Research for Climate-Resilient Agriculture was able to develop five knowledge materials; 50 farm weather outlook and advisories; three Climate weather outlook and advisories; and, developed and distributed two CRA Digest flipchart. Community seed bank helped the farmers have immediate access to quality seeds. Climate information system (CIS) has been used by 4 out of 5 farmers in the villages which helped them in programming their farm operations. CIS also helped reduce the risk of exposure to hazards such as typhoons as long-term climate projection and short-term forecast are being disseminated.



The oyster production project, which aims to develop component technologies that will enhance and reduce environmental pollution and identify other substrates for mushroom growing, showed that 70% of rice hull and abaca wastes with 15% sawdust and 14% rice bran can be a promising alternate substrates for good mycelial growth rate that is comparable to 70% rice straw; 70% corn cobs and abaca which can substitute for 70% rice straw as substrates in the fruiting bag for primordial development.

Under the Livestock Production Project, the study on Production Performance, Sensory Characteristics and Carcass Quality of Camarines Native Chicken Fed with Locally Available Alternative Feed Ingredients and Concoctions as Water Additive, showed that alternative mixed feed ration (AMFR) with concoction additives can be a suitable substitute for soybean meal (SBM). For every 100 head harvested, adopting 10% reduction in SBM inclusion in the diet will give raisers 30.94% increase in income. This will boost the native chicken industry in the region as demand for healthy and organically grown agricultural and livestock products in the market increases.

Another completed study titled “Conservation and Management of Philippine Traditional Corn Germplasm in the Bicol Region” collected 249 traditional corn accessions in Camarines Sur, Albay and Masbate currently stored in the refrigeration storage for characterization, evaluation and screening. Farmer’s variety of traditional or native white and yellow of both flint and glutinous types showed unique characteristics that can be found throughout the maize growing provinces in the region. Notable examples are Tiniguid,



Mimis, Kalimpus, Pulutan, Pilit, Synthetic, Composite, Java, Batik-Batik. These traditional varieties were collected for multiplication and seed conservation.

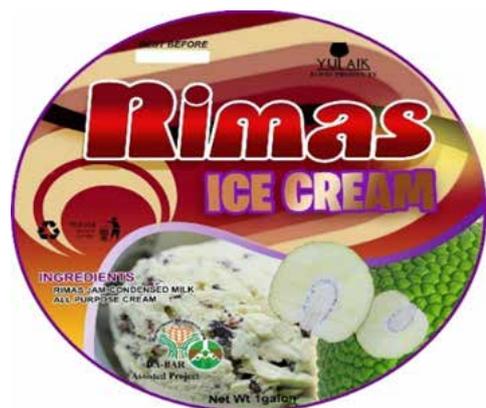
The on-going study titled, Plant Genetic Resources Conservation Management and Establishment of Plant Genetic Resource Center in Bicol Region, collected germplasm of endangered species of crops with economic value and high risk of extinction like siling labuyo, traditional rice, taro/gabi, pili, rimas, batuan, herbs and spices, sesame, traditional corn and other native crop specie. Ninety-five (95%) of the genetic diversity of these crops were captured from the area of collection while accession with lesser samples collected were regenerated in the field to have ample samples for evaluation and storage.

For corn R&D, it is recommended that Nutrient Expert for Maize (NEM) must be used in corn production to generate the right source of nutrient, right amount and time of application of fertilizer. Nutrient expert for maize is a decision tool that helps the farmers to improve and update corn production through location-specific fertilizer recommendations which are low-cost, high net income and return on investment. Moreso, adaptation of updated Site-Specific Nutrient Management (SSNM) options will give high yield, return on investment and income compared with the farmer’s practice.

The study on Site Specific Nutrient management (SSNM) for Cassava showed that Generation of appropriate fertilizer recommendation for optimum yield of cassava will benefit local cassava farmers to maximize their resources and increase income.

The Product Development Unit conducted studies on Packaging and Labelling of Food and Non-Food Products of DA-RFO 5; Product Development of Nipa By-Products, Product Development and Commercialization of Pili and Commercialization of Tropical Fruit-based Products (Rimas Ice Cream).

These studies help promote and disseminate relevant technologies to achieve the goal of the department of attaining food sufficiency and providing access to affordable safe and healthy food



It has identified 10 products for labelling and packaging for market promotion namely: rimas ice cream, coco sauce, coco vinegar, virgin coconut oil, pickled mushroom, mushroom soup, batuan powder, batuan balls, batuan seasoning cube and turmeric ginger tea. The labels printed contained nutritional facts and expiration date to assure consumers of safe products and to inform them on the shelf life of the products. Samples of the products were brought to the FNRI for complete nutrient analysis.

The study revealed that Nipa palms in every hectare has a potential to produce 12,000 liters of nipa sap, which can then be processed into vinegar valued at P600,000.00 annually with a net revenue of Php383,500.00. Further, sweetened nipa fruit in every hectare, has a potential to produce 1,600 bottles (at 500ml/bottle) that is valued at Php8 0,000.00 annually with net revenue of Php35,065.

Four (4) flavors of rimas ice cream were developed such as, vanilla, ube, chocolate and strawberry. Other products developed out of rimas were doughnut, jelly roll, chips and pastillas; It was found out that in every kilogram of rimas ice cream produced there is a net profit of Php106.00;

The study on Batuan Biodiversity Research, Conservation and Propagation had collected 7,500 pieces of Batuan seedlings for mass propagation at established nurseries. Complete nutrient analysis of the 9 identified products (Batuan Balls, Batuan candy, Batuan concentrate, Batuan juice, Batuan sinanglay mix, Batuan sinigang, Batuan champoy, hot spicy sauce and dried) out of Batuan were submitted to DOST.

Under the study on Upscaling of Community-based Participatory Action Research on Coffee and Cacao, distribution of 8,300 seedlings of BR 25 and UIT 1 variety of cacao and Robusta variety of coffee was undertaken to interested clientele of Camarines Sur, Albay and Sorsogon. Continuous production of seedlings for distribution to farmer recipients is being done.

Three (3) farms were pre-validated and pre-assessed for Good Agricultural Practices (GAP) certification, namely: Happy Time Integrated Farm in Labnig, Malinao, Albay, Longabella's Kalikasan Farm in Anislag, Daraga, Albay, and Albay Provincial Organic Vegetable Experiment Station in Buang, Tabaco City, Albay. Their applications for GAP Certification were already endorsed to the Bureau of Plant Industry and is now on-process.



The center looks at the future with a meaningful and fulfilled mission through its developed technologies which would be the tools of the farmers in achieving their goals to increase their production and income for better quality of life.

Production Support Activities

The Center's strength is on its capability for self-sufficiency that enables it to fulfil its mandate of producing and promoting quality planting materials and grain seeds. BIARC produces, multiplies and distributes superior and quality seeds and planting materials of rice, corn, vegetables, legumes, pili and assorted fruit bearing trees

BIARC supports the crop-production research and development activities and programs of the Research Outreach Stations (ROS). Under the implementation of various support services, a total of 3,200 kilograms rice inbred seeds were produced, of which, 1,920 kilograms have been approved as certified seeds, and only 1,400 kilograms were distributed to 30 beneficiaries.

Meanwhile, 1,469 kilograms corn-OPV seeds were produced and 1,400 kilograms have been distributed to 10 beneficiaries.

On the other hand, 15 kilograms vegetables and 159 kilograms legumes were produced to sustain food and nutrition in the rural populace and maintaining bufferstock volume. End users include the local government units (LGUs), organizations of vegetable growers (OVAs) non-government organizations (NGOs), schools and other stakeholders.

A total of 4,498 sexually propagated cacao (2,458) and pili (2,040) seedlings and 2,300 grafted pili were produced benefitting 607 beneficiaries and 60 groups. Identified the best source of scion for grafting thereby increasing high percentage of graft-take to 90%.

It also supported the maintenance of pili scion groves of CBES, CNLRRS and ARDC-AES which were the sources of scion materials for the asexual propagation of pili seedlings aside from the sexually-produced seedlings and the nursery of the pili seedlings. 160 pieces of certified grafted pili were tagged by BPI ready for distribution to clientele/ stations who are planning to plant a certified variety to be used for future production/ propagation.

Under the rootcrop production, 42,875 sweet potato cuttings were distributed to 42 beneficiaries and 10 groups.

There were 4,120 Taro cultured plantlets produced at the Tissue Culture Laboratory with 43 beneficiaries; and, 740 packets of Trichoderma CFA were distributed to 35 beneficiaries. There was an increase in interested clientele due to endorsement of benefits of taro.

Moreover, the mushroom production project was able to produce 249 bottles pure culture, 133 bottles sub-culture, 4,551 fruit bags, 711 kilograms spent substrate and 1,791 bags mushroom spawns benefitting a total of 109 farmers.

Albay Experiment Station produced 42,875 sweet potato cuttings that were distributed to 42 beneficiaries and 10 groups.

The Product Development Unit conducted 9 foodlab demonstrations and provided 12 technical assistance to 375 demo beneficiaries.

Under the Organic Agriculture Project, Technology Demonstration on organic rice and vegetables were conducted. Varieties of rice included Red Rice, Pinili, Magdami, Dinorado and GSR while the vegetables included patola, bush sitao, radish, pole sitao, cucumber, tomato, and kangkong. Also, Vermiculture and composting was conducted; and, a community-based learning site was established.

The Livestock Production Center maintains 10 Breeder Swine under the regular program with 80 offsprings produced benefitting 30 individuals; distributed 39,000 Napier cuttings to 10 beneficiaries.



*First quarter
Research
Management
Meeting
in Clark,
Pampanga on
Feb. 27, 2018*

Research and Development Activities

Participation to the First Quarter Research Management Meeting on February 27, 2018 at Clark Pampanga attended by RTD for Research and Regulations, Dr. Edgar R. Madrid and Luz R. Marcelino, BIARC Manager.



The MARCOS R. VEGA AWARD was awarded to Ms. Luz R. Marcelino, BIARC Manager given by the Weed Science Society of the Philippines, Inc. during the 50th Conference of the Pest Management Council of the Philippines on May 11, 2018 in Iloilo City.

The 4th PLACE on BEST BOOTH COMPETITION was awarded to BIARC (Research Group) given by the Bureau of Agricultural Research (BAR) during the 14th National Agriculture & Fisheries Technology Forum on August 30, 2018 at SM Megamall, Mandaluyong City.



Ms. Luz R. Marcelino received the Marcos R. Vega Award from the Weed Science Society of the Philippines, Inc.

The 5th PLACE on BEST PRODUCT COMPETITION (Veggie Chips) was awarded to BIARC (Ms. Emilyn Labor) by the Bureau of Agricultural Research (BAR) during the 14th National Agriculture & Fisheries Technology Forum on August 30, 2018 at SM Megamall, Mandaluyong City.

Emilyn M. Labor, owner of Jireh Food Products, manufacturer of the famous veggie chips in Daet, Camarines Norte, which won 5th place in the Best Product Competition at the 14th Agriculture and Fisheries Technology Forum and Product Exhibition sponsored by BAR in 2018. She received a P1M project grant.



A SPECIAL AWARD on BEST NON-FOOD PRODUCT (Raffia) was awarded to BIARC by the Bureau of Agricultural Research (BAR) during the 14th National Agriculture & Fisheries Technology Forum on August 30, 2018 at SM Megamall, Mandaluyong City.

BIARC hosted the 3rd Quarter Research Management Meeting for CY 2018 on October 9-12, 2018 at Villa del Rey, Provincial Capitol Compound, Cadlan, Pili, Camarines Sur.



The 1st Regional Technology Investment Forum and 30th In-House Review on October 25-26, 2018 at Avenue Plaza, Naga City.

Winning Papers

Rank	Project Title	Author
Technology Generation		
1ST Place	"In- Vitro Propagation of Pineapple (Ananas Comosus L.) at DA Region 5"	Behilda E. Balisoro; Luz R. Marcelino; Corazon P. Orbon; Mary Jane Q. Serrano; Jovanni S. Salaver; Dr. Elena B. Delos Santos; Dr. Edgar R. Madrid, DPM
2ND Place	"Enhancing the Saleability of Local Garlic Variety Through Maillard Reaction Processing"	Dolores E. Ricafranca; Luz R. Marcelino; Agnes D. Espinola; Rosella Ll. Formento; Benjamin Shun Mo G. Yoo; Kimberly Aguilar
Technology Adaptation		
1ST Place	"Improved Rice Genotypes for Enhancing Productivity in Different Ecosystem in Bicol"	Corazon A. Orbon; Tara Christina B. Machica; Ma. Lakambini S. Aldecoa; Limberly F. Bermillo; Maridel Q. Bibay; Marion S. Noceda
2ND Place	"Yield Response of Queen Pineapple to Plant Spacing and Fertilizer Management"	Maria Christina F. Campita; Eula M. Dipasupil; Flor Angeline B. Campita; Jyne D. Evangelista
3RD Place	"Validating the Effect of Continuous use of Yellow Hybrid Corn at Calabanga, Camarines Sur	Ailyn R. Adante; Luz R. Marcelino; Gladys S. Camaing
Technology Verification		
1ST Place	"Community-based Action Research for Climate-Resilient Agriculture (CRA) in Region 5"	Luz R. Marcelino; Lorenzo Alvina; Sandy Bobier; Dr. Edgar R. Madrid, DPM
2ND Place	"Validation of Site- Specic Nutrient Management Options Through Technology Demonstration"	Ailyn R. Adante; Luz R. Marcelino; Gladys S. Camaing
Technology Commercialization		
1ST Place	"Technology Commercialization of Mungbean Production in Bicol Region"	Luz R. Marcelino; Engr. Henrilyn R. Yamson; Danilo Bordon; Nellie Passion; Dr. Edgar R. Madrid, DPM

Winning Posters

Rank	Project Title	Author
1st Place	Technology Commercialization of Mungbean Production in Bicol Region	Luz R. Marcelino; Engr. Henrilyn R. Yamson; Danilo Bordon; Nellie Passion; Dr. Edgar R. Madrid, DPM
2nd Place	"Community-based Action Research for Climate-Resilient Agriculture (CRA) in Region 5"	Luz R. Marcelino; Lorenzo Alvina; Sandy Bobier; Dr. Edgar R. Madrid, DPM
3rd Place	Spent Mushroom for Vermi Percentage Substitution	A. Peñaserada

The 3rd place (bronze award) under the category on Development Research (Agriculture) was awarded to Ms. Luz R. Marcelino and Engr. Henrilyn R. Yamson during the 30th National Research Symposium on November 7-8, 2018 at the PICC Complex, Roxas Blvd, Manila.



The study titled “Community-based Action Research for Climate-Resilient Agriculture in Region” authored by Ms. Luz R. Marcelino, Lorenzo Alvina, Sandy Bobier and Dr. Edgar R. Madrid was considered as Qualifier under the category on Development Research (Agriculture) during the 30th National Research Symposium on November 7-8, 2018 at the PICC Complex, Roxas Blvd, Manila.

The 3rd Best Livestock Research was awarded to Ms. Luz R. Marcelino, Arlene T. San Buenaventura, Mae Jade M. Peñas, Sybil No-o, and Salvador Ampongan during the 1st National Livestock Program Research & Development Review on November 21, 2018 at Makati City.

Title: Production Performance, Sensory Characteristics & Carcass Quality of Camarines Native Chicken Fed with Locally Available Alternative Feed Ingredients & Concoctions as Water Additive



The winning papers during the 2018 Regional Research Symposium sponsored by BCARRD on December 7, 2018 at Farmer’s Hall, Camalig, Albay

1st Place	Enhancing Mungbean Production in Bicol Region Luz R. Marcelino; Engr. Henrilyn R. Yamson
3rd Place	Community-based Action Research for Climate-Resilient Agriculture in Region V Luz R. Marcelino, Sandy Bobier

The Bicol Integrated Agricultural Research Center received SPECIAL AWARDS from the agency’s Program on Awards and Incentives for Service Excellence (PRAISE) during the Department of Agriculture RFO 5 Annual recognition and Thanksgiving on December 19, 2018 at DA Compound, Pili, Cam. Sur.

Research Division

Certificate of Recognition for its excellent performance in the implementation of 36 research studies funded by other agencies (BAR and DOST) and 56 studies funded by DA, generating a total of Php 27.6M and Php 21.3M funds for Research & Development Implementation respectively, benefiting 650 farmer cooperators and 10 farmer groups, capacitating 110 clientele towards entrepreneurship and promoting/ disseminating 10 farming systems module with promising ROIs compared to farmer’s practice in the different ecosystems including fragile environments; and for producing national awardees such as Outstanding Weed Scientist and two (2) Best Paper Awards both in Regional and National R&D Symposia.



Research Group

Certificate of Recognition as 4th Place in the Best Booth Competition during the 14th National Agriculture & Fisheries Technology Forum at SM Megamall, Mandaluyong City on September 2018.



Central Bicol Experiment Station (CBES)



Certificate of Recognition as 1st Place BEST PERFORMING Research Outreach Station 2018 awarded to Central Bicol Experiment Station (CBES) for garnering the highest physical accomplishment, budget utilization and number of DA and external funded R&D projects in CY 2018

Camarines Norte Lowland Rainfed Research Division (CNLRRS)

Certificate of Recognition as 2nd Place BEST PERFORMING Research Outreach Station 2018 awarded to Camarines Norte Lowland Rainfed Research Division (CNLRRS) for garnering the second highest physical accomplishment, budget utilization and number of DA and external R&D projects in CY 2018



Catanduanes Hilly Upland and Development Station (CHUDS)

Certificate of recognition as 3rd Place BEST PERFORMING Research Outreach Station 2018 awarded to Catanduanes Hilly Upland and Development Station (CHUDS) for garnering the third highest physical accomplishment, budget utilization and number of DA and external R&D projects in CY 2018



Luz R. Marcelino, Henrilyn R. Yamson, Nellie Pasion & Edgar R. Madrid

Certificate of Recognition as Bronze Medalist in the AFMA Best R&D Paper Development – Agriculture Research “Technology Commercialization of Munbeang Production in Bicol Region” on November 8, 2018 at PICC, Pasay City.



Research Outreach Stations

Albay Research and Development Center (ARDC)

The ARDC-Albay Experiment Station (AES) houses the Regional Pili Research and Technology Development Center, where all registered pili varieties are found. A total of 34,200 grafted pili were produced in the station which can expand pili plantation in the region by 342 hectares and can benefit 342 farmers, as well. The station also germinated 64,484 seednuts as rootstock for 2019 asexual propagation of pili planting materials. It also maintains a 3.5 hectares pili scion grove with 87 tagged trees. A separate one hectare was planted with 126 pili varieties to cater to the increasing demand for registered planting materials.



Aside from pili, the station also produced 877 assorted fruits trees distributed to walk-in clients such as schools for their tree planting activities and NGOs for their rehabilitation program of water shed areas. To showcase updated Package of Technologies, on-station demo farms were established for pili, cacao and sweetpotato.

The Albay Research and Development Center- Albay Breeding Station (ARDC-ABS) on the otherhand maintained five development projects; The Commercial Pig, Native Pig, Poultry Production for Native Chicken and Mallard Duck, and the Pasture Development Project. The station is the center for forage and pasture grasses as feed resources and planting materials for distribution to farmers and other qualified requesting parties particularly livestock raisers.

Central Bicol Experiment Station (CBES)

Under the rice seed production projects, the CBES utilized 24 hectares of irrigated lowland areas and produced 26,339 kilograms of FS to RS seeds and 14,398 kilograms of RS to CS seeds distributed to seed growers and farmers. Inbreds produced were favourable irrigated lowland and stress-tolerant seeds for drought-prone areas, namely: NSIC Rc 214, 216, 300, 308 and PSB Rc18; GSR 2, 8 and 11. Likewise, it produced 38,640 kilograms of GSR 11, a multi-trait and high yielding rice. With the annual target of 33,000 bags of certified seeds of the rice program, the station has the strategic role and opportunity to participate in the rice sufficiency initiative for Bicol.



Under the rice research and development of the station, two strategic projects of the Food Staple Sufficiency Program (FSSP) of the National Rice Program were undertaken namely: Next Generation Project and Rice Crop Manager Project.

Under the **Next Generation Project**, 3 components were conducted: Component 1 with 4 studies, namely: NCT I Irrigated Lowland Rice (TPR & DSR), NCT for Saline Lowland, NCT for Heat Tolerance and Multi-location Adaptation Testing (TPR & DSR) at CBES experimental lowland area, Minalabac and Libmanan in the province of Camarines Sur; Component 2 with 26 on-farm sites for the Participatory Variety Selection (PVS) Trials in Minalabac, Ocampo, Bula, Baao, Gainza, Pamplona, Milaor, Magarao and Camaligan covering different ecosystems: irrigated lowland, rainfed lowland, saline lowland and flood-prone lowland; and, Component 3 Techno Demo cum Seed Production. For NCT and MAT 17 elite lines were found promising with yield ranges of 4.07 tons/ha to 5.54 tons/ha.

For the PVS trials, after the on-farm adaptation trials, 26 preference ranking and 26 sensory evaluation activities, a list of farmer-preferred, locally-adapted and high yielding inbreds and hybrids were identified and provided to the different PLGUs as reference for local adoption. Under the Techno Demo cum Seed Production component, FS and RS seeds of NSIC RC 420, NSIC RC 358, NSIC RC 222, NSIC RC 23 and NSIC RC 27; and, NSIC RC 354, NSIC RC 358, respectively, were planted by seed growers and selected demo farmers. IRI 5S6-53-D1 (IRRI 192), GSR 11 and GSR 12 were also sourced out and planted for seed production and distribution.

Rice Crop Manager(RCM) is a comprehensive ICT support tool for increasing yields and income of farmers through the calculation and deployment of field-specific nutrient management and other crop management practices with components on RCM deployment, RCM Messenger, RCM Farming monitor, RCM Georeferencing and advisories on variety and crop health. Sixty (60) farmer co-operators were involved in the RCM Precision Rice farming (PRF). Yield range obtained were 4.05 to 6.5tons/ha. Harvesting activities started from the month of May until June, 2018. Some 150 technicians/agricultural extension workers from top 17 municipalities who were

involved in RCM dissemination were interviewed using the Key Information Interview (KII) questionnaires. A total of 300 farmers were monitored and 58% adopted RCM in their farming activities. A total number of 739 rice fields were measured/ geotagged and 552 were verified for the whole region.

A tungro nursery was established for both dry and wet seasons which evaluated 424 and 684 lines, respectively. Promising materials would be entered in the National Cooperative Testing Project for multi-location evaluation and ultimately recommended for approval by the National Seed Industry Council and released as varieties with tolerance to tungro.

The **National Multi-Environment Testing (NMET) of Drought-Prone Direct Seeded Rainfed Lowland Rice Lines Project**, a DA 5-UPLB Collaborative Project was established at CBES during the wet season. Potential lines shall be entered in the National Cooperative Trial for multi-location evaluation in other sites in the country. There were only 5 participating regions in this national project.

The **Regional Rice R&D Projects (Production-related) Evaluation of Different Seeding Rates for Seedling Trays Under Mechanized and Manual Crop Establishment Methods** were conducted to enhance the efficiency of mechanized transplanting through optimization of seeding rates in the seedling trays.

Under the project **Seed Production of Stress-Tolerant Rices for Different Marginal Areas and Popular Farmers Cultivars**, foundation seeds of 11 Inbreds were multiplied, namely: NSIC RC 342, NSIC RC 346, NSIC RC 354, NSIC RC 358, NSIC RC 402, NSIC RC 420, NSIC RCC 440, NSIC RC 27, NSIC RC 222, PSB RC 18 and GSR 11. The seeds have undergone seed evaluation and passed seed certification of the NSQCS as registered seeds. Volume of seeds produced was 38,000 kilograms and sold to clientele.

In the project **Evaluation of Efficacy of RCM-based Nutrient Recommendations on Inbred/ Hybrids**, RCM-based nutrient recommendations were used by the farmers to attain the target yield in rice. Meanwhile, under the project **Evaluation of Inbreds and Hybrids Under Different Crop Establishment Methods Using RCM Protocol**, the latter was used in evaluating NSIC RC 222, NSIC RC 416, PHB 77 and Blondie under different crop establishment methods: transplanted, broadcasted and drilled. Both NSIC RC 222 and NSIC RC 416 obtained promising yield ranges of 5.14-5.6 t/ha. Technology generated would enhance the dissemination of RCM protocol and its adoption by farmer enrolees.

The policy-related study “**Assessment of Seed Security System in Camarines Sur**” assessed the status of seed security in the different provinces of Bicol along the different components of availability of seeds, accessibility of seeds, varietal suitability of seeds and high quality seeds. Three (3) provinces were covered, namely: Albay (Legaspi City; Ligao City and Malinao); Camarines Norte (Labo and Paracale); and, Sorsogon (Gubat and Castilla). 140 households were surveyed; 140 farmers, 7 MLGUs and 3 PLGUs participated in the FGDs and PRAs.

The extension-related study “**Establishment of Technology Demonstration Plots for PVS Inbreds and Hybrids**” promoted and commercialized the different domain-specific seeds favorable in irrigated lowland areas (inbreds and hybrids), saline areas, rainfed areas in different provinces of the region. The project was in collaboration with the provincial local government units and PhilRice CES which provided the seeds. Entries included: NSIC RC 222, NSIC RC 420 and NSIC RC 400 (irrigated lowland); NSIC RC 392 (saline); NSIC RC 222, NSIC RC 27 and NSIC RC 23 (rainfed/upland). The sites were in: Polangui, Albay; Minalabac and Libmanan, Camarines Sur; Labo, Camarines Norte; Masbate City, Masbate; Virac, Catanduanes; and, Pilar, Sorsogon.

The market-related study “**Adaptability Trial of Special Purpose, Aromatic and Local Rices**” evaluated eight (8) inbreds were evaluated at the CBES namely: NSIC RC 460, NSIC RC 218, NSIC RC 342 SR, NSIC RC 344 SR, NSIC RC 15, NSIC RC 19, NSIC RC 218 SR and Blondie for both dry and wet seasons. Initial results showed promise for 4 varieties with a yield range of 3.2 t/ha-4.7 t/ha.

Camarines Norte Lowland Rainfed Research Station (CNLRRS)

The CNLRRS has become the “home” for various research and development projects for pineapple production in Bicol. There were eleven (11) research studies for Queen Pineapple, MD-2 and Ulam pineapple varieties, and 3 R&D projects for other commodities.



Catanduanes Hilly Upland Development Station (CHUDS)

The station produced good quality planting materials either through sexual or asexual method, particularly fruit bearing trees for distribution purpose. In 2018 CHUDS distributed cacao and pili seedlings to walk-in clients composed of 24 female individuals, 53 male and 10 groups for their tree planting activities.

Regional Carabao Breeding Center (RCBC)

The Regional Carabao Breeding Center is mandated to produce and maintain F1 crosses and purebreds of Bulgarian Murrah Buffaloes for a sustained upgrading program of our domestic/native carabao's thereby increase in size and strength for draft and milk, meat products for food security. The station which has a total land area of 22.8 hectares, served as seedbank of various forages (grasses and legumes) and provided capability buiding in livestock production and breeding management.



Other feats of the station included: maintenance of 34 heads purebred goats (4 male and 30 female Anglo Nubian & Boer); produced 11 offsprings of goat (5 male and 6 female); maintained 34 heads purebred Sheep (4 male and 30 female Dorper); produced 13 offsprings of sheep (6 male and 7 female); maintained 190 heads Mallard ducks; produced 160 heads Mallard chicks (dispersed to RIC-Masbate); and maintained 40 heads native chicken.

Regional Dairy Production and Technology Center (RDPTC)

The Regional Dairy Production and Technology Center is mandated to promote the dairy industry through the production of dairy cattle and setting up of dairy projects within the province. The station also offers livestock upgrading through infusion of good quality semen from proven bulls of dairy animals, carabao and hybrid boars to increase farmers income and provides planting materials of forage grasses to interested animal raisers.

The station also focused on product development of indigenous and locally produced fruits in season, which include processed balig-ang, hagsis and santol jam, jelly and puree. Product labeling, nutrient analysis and packaging had been done in coordination with concerned agencies.

The Station maintained 238 heads cattle with 25 heads on the milking line and calfdrop of 26 (10 males and 16 females). Milk production averages 37,132 liters with total sales of P1,386,362.00, deposited to the National Treasury. The 120 days milk feeding for pre-schoolers in Piot, Sorsogon and Prieto Diaz benefitted 1,133 pre-schoolers. Regular customers from different households, offices and coffee shops in Sorsogon were still supplied with fresh and flavored milk. Some 22 heads dairy animals were already inseminated to produce more calf drops in 2019.

The center maintained one (1) Pili Scion Grove with 30 fruit bearing trees. Produced 4,364 pcs. asexually propagated and 22,860 sexually propagated pili seedlings with 21,570 distribution. Forty (40) registered pili seedlings (20 Lanuza and 20 Laysa varieties) were also planted in the station.

Continuous research activities on Garlic processing focusing product formulation of garlic chips, pickled garlic, garlic sauce, granules and powder is being done. Survey was also conducted on garlic users with respondents ranging from small restaurants and eateries.

Other on-going researches in RDPTC included:

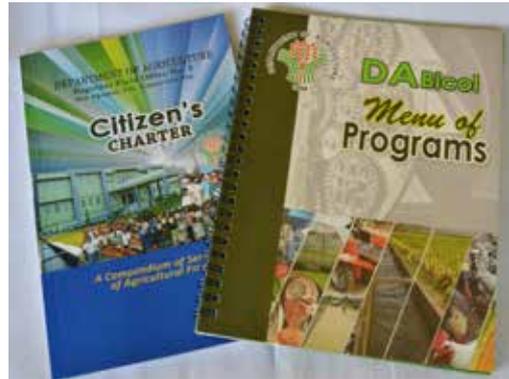
- Production and Promotion of Forage and Pasture Grasses Adaptable to Sorsogon Ecological Zone;
- Organic Dairy Production Under Sorsogon Condition;
- CPAR Approach for Dairy Cattle Production Under Coco-based Areas in Sorsogon; Techno-Demo on Dairy Cattle and Goat Production;
- Product Development of Economically Important and Indigenous Commodities in the Province of Sorsogon;
- CPAR on the Production and Utilization of Superior Quality Pili Nut Cultivars (*Canarium ovatum*) in Sorsogon;
- Soybean Production and Technology Promotion in Bicol Region (BAR funded);
- Technology Intervention to Strengthen the Production and Utilization of Ilocos White and Batangas Purple Garlic Varieties in Southern Bicol. (BAR funded); and
- Native Pig Production and Commercialization of Developed Processing Technologies in Sorsogon





Regional Agriculture and Fisheries Information Section

Intensified communication and information support was provided by the Regional Agriculture and Fisheries Information Section (RAFIS) using quad media (print, radio, teleradyo, TV, and audio visual presentation (AVPs), social media and interpersonal communications.



Print

A total of 221 news releases on the agency's regular and special activities and projects were disseminated to quad media and posted in DA-Bicol website and Facebook account.

As the clearinghouse of official publications of the agency, RAFIS has produced and printed 15 titles of new Informational, Education and Communication (IEC) materials and reprinted 12 old titles of IEC on crops production and technology guides. Close to 100,000 copies were produced. Of these 88,636 were distributed to the farmers, extension workers, LGUs and other clients.



In addition, 8 in-house publications were published including 4 issues of the the agency in-house newsletter UMAsenso. Other in-house publications included DA calendar 2019, Planner 2019, Rice Calendar 2019, Menu of DA Programs and DA RFO 5 Citizen's Charter.

Three promotional advertisements were published in 5 local newspapers and souvenir programs. Over 100 tarpaulins or billboards were also printed.

Audio Visual and Broadcast

Seven (7) audio visual presentations were produced mostly success stories of agri-achievers, and status of organic agriculture in the region. The 11 infomercials received from the Agriculture and Fisheries Information Division (AFID) were also aired in two TV stations. Fifteen (15) radio plugs also provided by AFID were aired in 26 radio stations regionwide.

Social Media and Agency Website Maintenance

RAFIS also actively used the social media in disseminating news advisories and schedule of trainings and other activities. Weather and climate outlook as well as typhoon warnings were also posted at the website and at the facebook account. RAFIS also maintained the agency website <http://bicol.da.gov.ph> which is a depository of various information, including news, invitations to bid and bid bulletins, job vacancies and other information about the agency.



DA Bicol celebrated the National Rice Awareness Month through a media briefing on Rice-Corn Blend

Over 25 media practitioners attended the briefing on Rice-Corn Blend which was staged by DA RAFIS in Naga City in celebration of the Rice Awareness Month in November.

During the briefing, the participants took home 2 kilos of rice-corn blend (a mixture of rice and white corn grits at 70:30 ratio) which is being sold by Arrow Multipurpose Coop in Panganiban Drive, Naga City.



BSP recognized DA 5 as an outstanding partner



The Bangko Sentral ng Pilipinas (BSP) awarded the Department of Agriculture in Bicol for the second time as an Outstanding Partner for Report on Regional Economic Developments in the Philippines (REDP) for Region 5 during the 2018 Awards Ceremony and Appreciation Lunch for BSP Stakeholders as a seal of gratitude and trust held in July 2018.

The DA-Bicol bested the National Economic and Development Authority 5 (NEDA) and the Philippine Statistics Authority (PSA) in the Source of Information Category.

The DA-Bicol was recognized for its cooperation, relevance, completeness, timeliness and valuable information to the BSP necessary in the annual publication of the REDP.

Phil. Army recognizes DA Bicol's participation in "Tsokolate at Pandesal" program

The Department of Agriculture Bicol was one of the agencies given recognition by the 9th Infantry (SPEAR) Division of the



Philippine Army in Bicol in appreciation for the latter's support rendered and participation as member of the *Tsokolate at Pandesal* (TAP) team. The TAP was conceptualized by the 9th Civil-Military Operation (Kaagapay) Battalion, 9th Infantry Division (SPEAR) of the Philippine Army.

It serves as a venue for convergence breakfast meeting of government agencies every Friday morning which used to be held at Camp Simeon Ola in Legaspi City. Its main objective is to generate collaboration and strengthen stakeholder's engage among government agencies towards

The plaque of appreciation for the DA was received by Emilia B. Bordado, the Regional Information Officer for and in behalf of Regional Executive Director Elena B. de los Santos.

gaining support in the effective delivery of social services especially in conflict-affected areas and promote peace and development advocacy.

During the weekly meetings hosted by the different agencies, issues were raised and referred to the corresponding agencies for appropriate action.

AMIA 2+

Community-based Action Research for Climate-Resilient Agriculture in Region 5

The Adaptation and Mitigation Initiative in Agriculture (AMIA) has its pilot villages in Brgy. Cagbunga, Tampadong and Veneracion in the Municipality of Pamplona, Camarines Sur. Six (6) climate-resilient agriculture (CRA) practices were evaluated with the 116 farmer-cooperators. Six of which are for upland agro-ecological zone; two CRA for upland agro-ecological zone; and 2 crosscutting. The project was able to developed five knowledge materials, 50 farm weather outlook and advisories; three Climate weather outlook and advisories; developed and distributed two CRA Digest flipchart. Furthermore, four climate-resiliency farmers field school were conducted.

Some of the impacts of the interventions of the AMIA are the following:

- Increased the number of farmers insured by 100% (Dry season cropping)
- Farmers who availed of risk transfer from PCIC were able to claim indemnity ranging from P2,000 – P4,000/ha (maximum is P20,000/ha) depending on the crop growth stage
- Community seed bank has helped the farmers have immediate access to quality seeds
- Food security is being addressed with the introduction of native commodities (eg. Taro) and technologies that will increase quality and productivity (eg. UVS plastic as rainshelter and alternative dryer for grains)
- Climate information system (CIS) has been used by 4 out of 5 farmers in the villages.



GSR 11 is a stress-tolerant variety of rice which could be adopted by farmers to combat climate risk.



Pilot AMIA Village. Brgy. Cagbunga, Pamplona, Camarines Sur is one of the pilot villages of AMIA in Bicol Region located along the Bicol River Basin. Drought, saltwater intrusion and flooding are the most common hazards present in the area.

This helped them in programming their farm operations. CIS also helped reduce the risk of exposure to hazards such as typhoons as long-term climate projection and short-term forecast are being disseminated.



The AMIA Team of DA RFO 5 has compiled all the evaluated CRA Practices and turned developed into a Flip Chart. The flip chart contains the CRA descriptions, potential adopters and sustainability measures.

Regional Agricultural and Fishery Council (RAFC)

With an EXPLOSION far deadlier than holiday firecrackers and pyrotechnics, Bicol's 2018 was ushered in by the eruption of the Mayon volcano, prompting authorities to raise Alert Level 4 the highest alert level. Our Agriculture & Fishery Council (AFC) worried that this event might bode ill for the region in the months to come.

For 2017, Bicol ranked next to last nationwide in terms of Gross Domestic Product – 26% lower than even Eastern Samar that only recently was devastated by super typhoon Yolanda.

The council participated in the consultations and planning workshop. It deliberated on and finalized its annual Work and Financial Plan as well as approved its maiden Resolution to establish the Albay Livestock Complex as a Permanent Evacuation Shelter and Auction Market Trading Center for Farm Animals.

During the full council meeting on March in the happy island of Catanduanes, we jump-started membership committees at the provincial levels, promoting marine resources conservation, and inducting new entrants to the AFC family.



AFC Planning and Budgeting Workshop



RAFC full council mobile meeting in Catanduanes

Abiding by the recent fiscal regulations required creativity and flexibility such that the council coordinated with the DA to use its facilities in the conduct of AFMechanization Committee meeting and collaborate with other national agencies during the regional Livestock Consultation in April.

With urgent activities prioritized, the otherwise uniformly paced schedules intended had to be postponed to the second half of the year. Accordingly, with a touch of tenacity & good timing, these were nevertheless productively carried out, particularly in the committees for Rice, Corn, and the Women's sector.



Agri-fishery Mechanization meeting



Livestock sectoral committee consultation



Women sectoral committee meeting

A second mobile meeting was held in Sorsogon in May, where the new batch of members was inducted. It also linked up with the 2017 Gawad Saka national awardee Gubat St. Anthony Cooperative for a visit to the coop. The officers generously shared valuable information, and graciously integrated a tour of their Cacao, facilities showcasing a nursery with a capacity for more than the current 210,000 seedlings, apart from the initial 20,000 trees established in the field.



RAFC full council meeting in Sorsogon.



Visit to GSAC nursery.

The council also hosted the first ever South Luzon AFC Summit in June.



The mid-year performance review revealed startling deficiencies that were so unlike the same period of the preceding year that had led to laudable achievements for RAFC 5. Yet again, pledges and commitments were ascertained as everyone vowed to roll up their sleeves, eschew excuses, and simply overcome obstacles to prove equal to the tasks ahead.



RAFC Mid year performance review 2018



Notwithstanding a repetitive rigmarole of tentative timetables, rescheduling, and even transport troubles; mobile meetings of the full council were still carried out in Camarines provinces with an added special conference to address pending concerns particularly arising from recent sectoral consultations.

Meanwhile, the Monitoring Teams pursued their mandates and validated big ticket projects in their respective areas of responsibility.

Additionally, relevant and high-impact policy resolutions among other major final outputs were promulgated and adopted. Quite a handful of undertakings were similarly pursued throughout the year including representation in the DA-RFO 5 PAP presentation for Civil Society Organizations during the Farmer-Director engagement for the month of May; and conduct of informative Benchmarking activity at the Cagayan Valley Region in June; Leadership training seminar at Sorsogon in September; involvement in and support for two regional trainings under PCAF and their Planning activity at Tagaytay in October and attendance in a number of consultative meetings organized by PCAF's National Strategic and Sectoral Concerns Committee.



AFC monitoring of big ticket projects

Contributing to the achievements in the Regional goals are the meaningful strides and notable accomplishments of the various Agri-fishery Councils in the provinces, cities, and municipalities.



Furthermore, the crucial, imperative involvement and wider sectoral representation in the crafting of the Agriculture and Fisheries Modernization Plan or AFMP.



Behind these activities are the standing committees and the people who comprise these. Supported by the indefatigable, multi-tasking, and ever supportive secretariat and staff who ensure each engagement is not just implemented but rather, executed in a fashion that elevates the AFC to a stature it rightfully belongs.

The synergetic relationship between and among the council members, leaders, steadfast partners, and the valuable support staff produced outcomes on display and reported throughout the year.

And so it came to pass that in spite of ominous start of the year and some impediments along the way, RAFC 5 emerged ... triumphant – as revealed during the 9th AFC Bicol Summit and Recognition Ceremonies in December with its apt theme: ***“Surmounting trials and challenges with abiding faith and courage toward realizing worthy goals for the AFC community.”***

Gender and Development (GAD)

Experience across different sectors and countries shows that when you empower a woman with economic opportunity, you empower not only an individual but also a family and a community. That is why, the Department of Agriculture – RFO 5 has been vigorously implementing GAD Programs, Activities and Projects (PAPs) that are holistic in approach which focus on the role of rural women in every segment of the value chain of a commodity.

Over the past several years, significant progress has been achieved by the DA-RFO 5 in terms of implementing its Gender and Development (GAD) Projects, Activities and Programs (PAPs). For 2018, a total of Ps 187,812,564.21 or about 7.28% of the 2018 total budget appropriations of Ps 2,851,329,000.00 for the banner, locally funded and regular programs were utilized for the different GAD projects and activities. This is 19% higher than last year's accomplishment of about Ps 152,872,480.86.

For client-focused accomplishment, PAPs that have been implemented under the GAD budget include production support, extension support, education and training, marketing development support, research and development assistance, agricultural facilities/processing machineries/equipment, irrigation facilities and farm-to-market roads which comprise almost 97% of the total budget utilized for GAD.

For organization focused PAPs, the agency has focused on establishing database and mechanisms for reporting on gender issues thru conducting series of consultations on the establishment of Knowledge Management System (KMS) for GAD within the agency; advocating and disseminating information on gender issues; capacity building; establishing or improving service facilities for women; issuing gender related policies; improving awareness of gender issues when undertaking development planning not only in the agency itself but among its attached agencies and line bureaus.

CLIENT-FOCUSED

Production Support Services

Availment of women farmers of high quality seeds in support to Inbred Seed Exchange is notable. About 13,907 and 434 women-farmers were provided with 15,922.75 bags of inbred certified seeds and 484 bags of inbred registered seeds, respectively. They comprised about 34% and 31% of the total beneficiaries which only proved that women-farmers' participation in rice farming is already visible. Even after calamities/disasters, women's access to quality seeds has accounted for 40% out of 2,000 beneficiaries of hybrid seeds and 35% out of 16,061 beneficiaries of certified seeds.



Four (4) individuals and seven (7) women-group beneficiaries in the provinces of Albay, Camarines Norte, Camarines Sur, Masbate and Sorsogon received 168,620 cassava seed pieces and planted to about 12.9 hectares. More women were encouraged to plant cassava as a result of the free livelihood trainings for women with matching starter kits consisted of cassava grater, chipper, pulverizer and granulator awarded to organized groups.



For yellow corn, about 1,656 or 39% of the 4,159 total beneficiaries were women who were provided with 1,691 bags. A total of 1,782.89 kilograms of lowland vegetables and spices were provided to 94 women groups and 55 women individual beneficiaries covering about 1,434.50 hectares. Out of 206 groups and 111 individuals provided with the intervention, 45% were women-led organizations

and 49% were women individuals, respectively. On the other hand, 161 women groups and 43 women beneficiaries received a total of 6,086,156 pieces of assorted planting materials. Out of 360 groups and 120 women individuals, 47% women groups and 36 women individuals availed the intervention. Compared to last year, there was an increase of 16% women group beneficiaries as a result of the various trainings on Package of Technology (POT) on high value crops farming conducted in the different provinces.

For Organic Agriculture Program, about 67 individual women farmers and 3 women groups were provided with package of interventions (seeds, Bio-N, organic fertilizers and African night crawlers) amounting to Ps 1.4 Million. Out of 25 beneficiaries provided with 39 native swine, 52% were women. To increase women’s access to bio-control services, 52% women individual out of 355 beneficiaries were provided with trichogramma and 66% women individual out of 85 beneficiaries were provided with earwigs.

Extension Support, Education and Training Services (ESETS)

For the season-long trainings conducted for corn, an increase of 11% in the participation of women over previous years was noted. Women’s active participation is very visible in technical and value-adding training and in various regional and national events.



In observance of the Women’s Month Celebration, the DA-RFO 5 conducted the Rural Women’s Day on March 21, 2018 in Naga City attended by about 100 women farmer-leaders from the six provinces of Bicol. With the theme “We Make Change Work for Women”, the activity taught the participants the basics of financial literacy, health and wellness program for rural women.



Rural Women’s Day in Naga City.



To increase number of active organizations that can be provided with livelihood/IGPs and other interventions, six (6) meetings and 2 consultations with 143 rural women and 57 women-leaders respectively were conducted. Likewise, to increase level of awareness of women on GAD legal mandates, gender issues and other related concerns, 108 women-farmers were sent to GAD-related activities/events (abroad and local) like Ms. Rebecca Purisima, 2017 top winner in the DA’s National Search for Outstanding Rural Women who graced the APEC Policy Partnership in Food Security (PPFS) Women in Agriculture and Fisheries (WiAF) (Papua New Guinea). Some other women-leaders also attended the National Awarding Ceremony for Rural Women (Manila), 15th National Organic Congress (Cebu City), Knowledge Management and Best Practices for Rural Women (Davao and Cagayan de Oro cities) and Regional Gawad Saka and Rural Women Achievers 2018 (Naga City) among others.

Rebecca Purisima, DA's 2017 national Outstanding Rural Woman talked on the challenges and opportunities of rural women in the Philippines during the Women in Agriculture and Fisheries (WiAF) Dialogue held at Port Moresby, Papua New Guinea (PNG) on August 4, 2018.

With the WiAF dialogue's theme "Supporting Women's Economic Empowerment and Inclusion in Agri Fishery Value Chain," PNG has invited numerous speakers to address a total of 150 APEC audience from 21 APEC member economies.



In support to the enterprise development of women groups in rural areas, trainings on Native Swine Production and Mushroom Production were conducted benefitting 5 Rural Improvement Clubs (RICs) in the Provinces of Albay, Sorsogon, Camarines Norte and Catanduanes. After the training, these groups of women were provided with 20 native swine (piglets) each RIC and bags of mushroom spawns and bags and other supplies.



Agricultural Machinery, Equipment and Facilities Support Services

To further assist rural women/women-organizations engage in viable micro enterprises, value-adding and post-harvest machinery, equipment and processing facilities were distributed: 3 units of corn mill, 9 units cassava grater, 7 units cassava pulverizer, 1 cassava chipper, 2 units cassava granulator, 4 units of vermi-composting facilities, 10 units MPDPs, 6 units Multi-Commodity Solar Dyer, 1 unit recirculating dyer, 1 unit warehouse, 1 unit pineapple decorticating machine and 4 units vacuum sealer to 48 deserving Rural Improvement Clubs (RICs) and other women-led associations.

Also, a total of 5 units of hand tractors/multi-cultivators, 5 units hand tractors with complete accessories, 5 units palay thresher, 1 unit paddy de huller, 2 units brush cutter, 4 units seed spreader, 4 units green house, 1 unit farm tractor, 1 unit mechanical corn sheller and 5 units transplanter were awarded to 33 women-led associations.



Irrigation Network Services

Women are now also being prioritized as recipients of irrigation facilities. A total of 13 Shallow Tube Well (STW)/Pump Irrigation Service Open Source (PISOS) were provided to about 13 women- group beneficiaries to ensure water supply to their crops.

National Outstanding Women Achievers

Josephine G. Artiaga – a certified organic farmer, skilled native animal raiser, successful entrepreneur and active rural woman leader of Lupi, Camarines Sur. Her farm which she personally manages is into commercial production of organically certified swine as well as





Josephine Artiaga

native pigs, which are sold as breeder or roasted organic lechon. She is an active member of various civic and agri- organizations in her municipality.

The Local Government Unit of Lupi and the Department of Agriculture salutes her for her vast contributions in improving the lives of her fellow farmer through technology transfer, her good practices for restoring the ecological balance and contributing immensely to food security. In 2015 she was awarded as 1st Runner Up in the Regional Search for Katatangi-tanging Kababaihan sa Kanayunan by the DA. She was also a national finalist of 2018 Gawad Saka Search as Outstanding Small Animal Raiser.

GREAT Women Project 2

The Department of Agriculture RFO5 is one of the partners of the Philippine Commission on Women (PCW) in the implementation of the Gender Responsive Economic Actions for the Transformation (GREAT) of Women Project Phase 2 (GWP2). The GWP2 prioritizes women-led groups and individuals who are currently engaged in various enterprises that are included in the four

priority industries namely: 1. cacao, 2. coffee, 3. processed fruits and nuts and other high value crops, and 4. home styles and wearables.

Seven (7) capability development trainings were conducted to increase capacity of WMEs to produce and market high quality, environmentally friendly products. The project also conducted four quarterly meetings of GWP2 beneficiaries and enablers to discuss the project status, identify gaps in the project implementation and possible solutions.



The beneficiaries have attended the Financial Literacy training which equipped the women entrepreneurs with knowledge and strategies on how to enhance their skills and manage their finances to attain financial empowerment. The GWEn training provided the participants with improved knowledge on entrepreneurship as they faced the challenges of expanding and growing their businesses.

The GREAT Women project also linked the women beneficiaries to the different Banner Programs of DA-RFO5 and were provided with equipment like the Multi-Commodity Solar Tunnel Dryer and Vacuum Sealer which are needed to facilitate enhancement of their products.

Positive feedbacks from the project beneficiaries were overwhelming. All enrolled women entrepreneurs were happy with the project. It helped them in terms of gaining additional skills, knowledge, exposure, and product promotion. It has developed their self-confidence and strong-willed attitude to face new challenges. And most of all it has opened new doors to increase production and improve their income through new connections, link age and networking.

ORGANIZATION-FOCUSED

In observance of the Women's Month Celebration, the office conducted the first Inter-Agency Women Employee's Day last March 19, 2018 at Casablanca Grand Ballroom, Legaspi City which was attended by over a hundred women employees. Activities like this inspire more women employees to become partners in the pursuit of the country's economic, social, cultural and political developments.

To enhance the DA employees' cognitive action on gender-best effective skills, be familiarized on current gender issues, realities in the country, and provide them a relevant knowledge, skills and



values that allow them to contribute to the effective implementation of the gender-mainstreaming strategy, two (2) Gender-Best Effectiveness Skills Trainings (GBEST) were conducted with 57 participants (36 women and 21 men).

The DA-RFO 5 also recognized the relevance of establishing Knowledge Management System (KMS) in the agency as a mechanism to transfer knowledge on GAD set up to its clients and to improve the performance of the organization hence 2 consultation meetings on the Establishment of KMS in DA-RFO V were conducted.



Several women employees also attended other national GAD activities like GAD Assessment and Planning Workshop, Knowledge Management and Best Practices for Rural Women, 6th National Congress and Philippine Agriculturist Summit, Training Course on Improving and Mainstreaming Gender in Agriculture Sector, GAD Forum 2018 and others. Two (2) women supervisors were also sent abroad (Papua New Guinea and Europe) to observe and learn new farm technologies, market trends and global issues that will help prepare our farmers particularly rural women face the challenges in the ASEAN Integration.

To create awareness among employees (men and women) about Sexual Orientation and Gender Identity and its concepts especially in relation to the workplace, the agency has conducted the Sexual Orientation, Gender Identity and Expression (SOGIE) Basics and SOGIE in the Workplace Forum last November 28, 2018 at Villa Caceres Hotel, Magsaysay Avenue, Naga City. Ms. Kristin Busadre, Regional Development Officer, DSWD V and SPO4 Liza Jane Alteza served as resource speakers and was well attended by about 75 employees.





Gawad Saka

National Winner



ANGELITA A. CERILLO
Barangay Libod, Tigaon, Camarines Sur
Outstanding Corn Farmer





OUTSTANDING AGRICULTURAL EXTENSION WORKERS

Engr. Janice B. Orciga, Jocelyn Comprado, Eva R. Laurente, Annie Lomanog, Celedonio O. Elevedo Jr., Julieta Deris, Ceasar Miraña, Hector Llagas, Ma. Nercy C. Alvaro, Sylvia Oaferina, Elsa Cabrera, Rodolfo Nuñez Jr., Anicia P. Mancita, Ma. Rexie P. Jesalva, Rowena C. Otamias, Maria Ailine C. Bombon, Rosa V. Belgica, Gregorio H. Beldad, Mary Christine B. Mallapre, Alexander B. Baldoza, Catherine A. Comia, Rodrigo V. Pandes Jr., Engr. Sheryl M. Almario, Mat D. Peñañiel, Ronnel A. Gacer, Aira T. Rivero, Grace Santilleces.



Rice Achievers



MUNICIPALITY OF SAN JOSE, CAMARINES SUR Outstanding Municipality

November 15, 2018
D'Leonor Inland Resort, Davao City



Mayor Eduardo A. Severo and
Municipal Agriculturist Gil Gabriel H. Bordado III
LGU Calabanga, Camarines Sur - (Hall of Fame Awardee)

Senator Cynthia A. Villar
Guest of Honor and Keynote Speaker

November 15, 2018
D'Leonor Inland Resort, Davao City



Mayor Patricia Alsua and
City Agriculturist Dexter Mendoza
LGU-Ligao



Corn and Cassava Achievers

Guest of Honor and Keynote Speaker

November 15, 2018
D'Leonor Inland Resort, Davao City



City Agriculturist Ruben delos Santos
LGU Iriga City



ELEANOR DAEP
Albay Provincial Organic Agriculture Program
NATIONAL OUTSTANDING OA FOCAL PERSON



PROVINCE OF ALBAY
Governor Al Francis Bichara together with Provincial Agriculturist Cheryl Rebeta
NATIONAL OUTSTANDING PROVINCE IMPLEMENTING OA PROGRAM



National Organic Agriculture Achievers from Bicol



National Organic Agriculture Achievers



GOA AGRI PRODUCERS & PROCESSORS ASSOCIATION
National Outstanding OA Farmers' Group



JOEY HADE
The Indegineous Tribe of Agta Tabangon-Goa, Camaines Sur
NATIONAL OUTSTANDING YOUTH OA FARMER






Outstanding Rural Woman



JOSEPHINE G. ARTIAGA
 Lupi, Camarines Sur
 2nd Runner Up

DA 5 KEY OFFICIALS

DR. ELENA B. DE LOS SANTOS

Regional Executive Director
and Project Director of
Philippine Rural Development Project (PRDP);
Rice Program Coordinator

RODEL P. TORNILLA

OIC Regional Technical Director for
Operations and Extension;
Rice Program Focal Person;
Regional Seed Coordinator;
and SAAD Focal Person

DR. EDGAR R. MADRID

Regional Technical Director for
Research and Regulations and Focal Person
FMR and National Convergence Initiative

DIVISION CHIEFS AND BANNER PROGRAM REGIONAL COORDINATORS

RODEL P. TORNILLA

OIC Chief, Field Operations Division

ROSARIO C. SALES

Chief, Administrative and Finance
Division; BAC Chairperson

ALOHA GIGI I. BAÑARIA

Chief, Planning, Monitoring and
Evaluation Division
GAD Focal Person and
Regional Executive Officer, RAFC - 5

DR. EVANGELINE C. DELA TRINIDAD

Chief, Integrated Laboratories Division

MS. ADELINA A. LOSA

Chief, Agribusiness & Marketing
Assistance Division
Focal Person, Organic Agriculture and
Market Oriented Programs
Deputy Project Director of
Philippine Rural Development Project (PRDP)

ROSITA M. IMPERIAL

OIC Chief, Regulatory Division and
High Value Crops Development Program
Regional Coordinator

ENGR. NILDA T. ALBAÑO

Chief, Regional Agricultural Engineering
Division

LUZ R. MARCELINO

Chief, Research Division

LORENZO L. ALVINA

Corn and Cassava Development Program
Regional Coordinator

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Livestock and Poultry Development Program
Regional Coordinator

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Regional Information Officer
and Resident Ombudsman

EVANGELINA RUTH D. POLOYAPOY

Regional Accountant

MARILOU D. BORDON

Chief, Human Resource Management
Section

MICHELLE SABIDO

Budget Officer

DA 5 KEY OFFICIALS

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Masbate Center for Livestock Development <ul style="list-style-type: none">• Masbate Breeding Center Asid, Masbate City• Regional Carabao Breeding Center Mandaon, Masbate	LORENZO L. ALVINA
Cam. Norte Lowland Rainfed Research Station Calasgasan, Daet, Cam. Norte	ENGR. BELLA FRIAS
Catanduanes Hilly Upland Development Station Casooacan, Virac, Catanduanes	ENGR. TEODORO C. ELEDA
Sorsogon Dairy Production and Technology Cabid-an, Sorsogon City	DOLORES E. RICAFRANCA

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DEPARTMENT OF AGRICULTURE RFO 5

San Agustin, Pili, Camarines Sur

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