



DEPARTMENT OF AGRICULTURE

Regional Field Office No. 02



"Masaganang Agrikultura, Masaganang Bansa" 

2017 ANNUAL REPORT

MANDATE, VISION & MISSION

Mandate

The Department is the government agency responsible for the promotion of agricultural development by providing the policy framework, public investments, and support services needed for domestic and export-oriented business enterprises.

In the fulfillment of this mandate, it shall be the primary concern of the Department to improve farm income and generate work opportunities for farmers, fishermen and other rural workers. It shall encourage people's participation in agricultural development through sectoral representation in agricultural policy-making bodies so that the policies, plans and programs of the Department are formulated and executed to satisfy their needs.

It shall also use a bottom-up self-reliant farm system approach that will emphasize social justice, equity, productivity and sustainability in the use of agricultural resources.

Vision

The Department's vision is a 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 help and empower the farming and fishing communities and the private sector to produce enough, accessible and affordable food for every Filipino and a decent income for all.

10 BASIC FOUNDATIONS

of a sound agriculture and fisheries program under President Duterte & Secretary Emmanuel Piñol



A National Color-Coded Agricultural Guide Map



A National Food Consumption Quantification Study



An Institutional Restructuring and Paradigm Resetting for the Department of Agriculture and its Officials & Employees



An Intensive Technology Updating and Sharing, Modernization & Mechanization Program



An easy Access Financing Program for Farmers, Fishermen & Agriculture and Fisheries Stakeholders



A Strategic & Effective Post-harvest, Storage and Processing Facility



A Government-Initiated and Supported Aggressive Marketing Campaign especially for High-Value Crops



A National Livestock, Dairy and Poultry Program



A relentless campaign for the enforcement of agricultural and fisheries laws, especially on land conversion and illegal fishing



Re-introduction of Basic Agriculture in the Primary and Elementary Grades of the Philippine Schools System

OUR QUALITY POLICY



Quality Policy

We, the DEPARTMENT OF AGRICULTURE - REGIONAL FIELD OFFICE 02, commit to transform our agriculture sector into empowered farming communities through inclusive growth.

We shall build an enabling environment for agriculture to grow and be globally competitive in a diversified regional economy. As our moral obligation, we shall contribute to nourish and sustain every Filipino's need and right to enjoy sufficient, safe, accessible and affordable food at all times.

In Responding, Engaging and Delivering our programs and services, we shall be guided by the principles of social justice and equitable development, imbued with the values of loyalty, integrity, resourcefulness, teammanship, service-orientedness and continuous learning.

We shall continually improve our Quality Management System to be better, more responsive and relevant in making a difference "PARA SA MASAGANANG AGRIKULTURA, MASAGANANG BANSA."

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message from the Regional Executive Director

Our 2017 performance is a demonstration of the Department of Agriculture - Regional Field Office No. 02's resilience in the midst of diversity. In the realm of the organizational changes that we experienced, all our employees had focused in improving our performance and position us for success no matter what kind of adversity we have encountered and we've made excellent progress, however, we still have more to do for continual improvement.

Without doubt we have the people and the resources to lead us to a bright future. We have reached far owing to hard work, dedication and determination of the team that drives this organization. We have earned the trust and respect of our customers and our confidence will grow from strength to strength in our endeavor to make our team into one that delivers value and satisfaction to our growing base of esteemed farmers and beneficiaries.

This year, we triumphantly delivered improvements across various key performance indicators. These commitments are the cornerstones of our Quality Policy and we strived to achieve them by putting into place a Quality System, which adheres to the ISO 9001:2015 Quality Standard for Management. Our certification to the ISO 9001:2015 reinforces our role as model in the entire Department of Agriculture.

With our versatility, adaptability and resilient-technology, these will lead us strive better and more responsive in making a difference, living up to our Agency's tagline, **"Para sa Masaganang Agrikultura, Masaganang Bansa"**.



LORENZO M. CARANGUIAN, DPA
Regional Executive Director

our MARC (MFO Accountability Report Card)



DELIVERY OF GOODS AND SERVICES



100%
SATISFACTORY

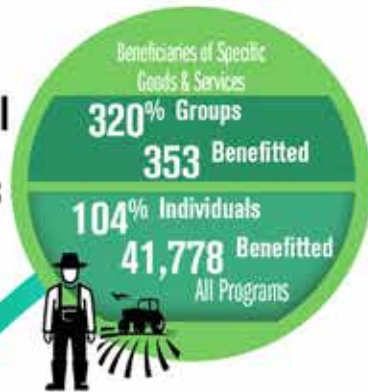


100%
TIMELINESS

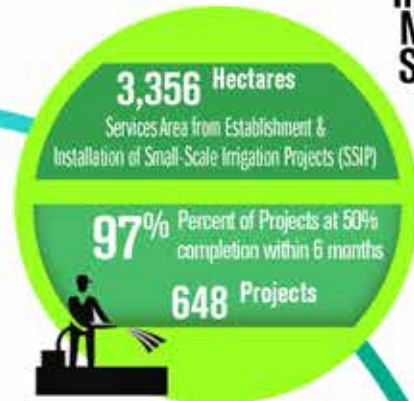
The CY 2017 Performance Highlights the notable achievements and major developments of the DA-RFO 02 in terms of the delivery of services to various clients and stakeholders of the agriculture sector in the region covering the period January to December of said year. In compliance to the general provisions of the General Appropriations Act (GAA), CY 2017, there were targets and commitments set toward achieving the Major Final Outputs (MFOs).

CY 2017 MAJOR FINAL OUTPUT

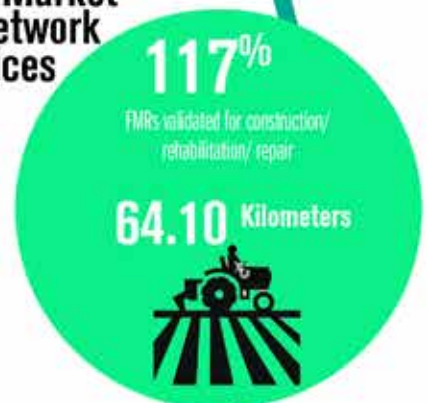
MF02. Technical Support Services



MF03. Irrigation Network Services



MF04. Farm-to-Market Road Network Services



313 Groups

Farmers assisted with agricultural and equipment



MF05. Agriculture and Fisheries Equipment & Facilities Support Services



CY 2017 FINANCIAL PERFORMANCE

(AS OF DECEMBER 2017)

MFO/ PROGRAMS/ PROJECTS	Approved Budget (GAA) ('000)	Disbursement ('000)	% Performance
PROGRAMS			
I. General Admin & Support Services (GASS)	53,365.0	50,513.0	95%
II. Support to Operations (STO)	20,269.0	20,189.0	100%
III. Operations			
National Rice Program	1,455,642.0	1,313,839.0	90%
National Livestock Program	75,944.0	77,204.0	102%
National Corn Program	292,271.0	268,807.0	92%
National High Value Crops Program	196,033.0	179,725.0	92%
National Organic Agriculture Program	20,273.0	20,140.0	99%
Various Operations (MDS, PPS, R&D)	106,997.0	105,465.0	99%
MFO 4. Farm to Market Road Network Services	3,440.0	3,253.0	95%
MFO 6. Agriculture & Fishery Regulation Services	10,609.0	10,592.0	100%
TOTAL CURRENT APPROPRIATIONS	2,234,843.0	2,049,727.0	92%
AUTOMATIC APPROPRIATIONS	11,528.0	11,490.0	100%
TOTAL APPROPRIATIONS	2,246,371.0	2,061,217.0	92%

rice program



**OUTSTANDING INTEGRATED
RICE FARMER**

LEOMAR C. ADAY JR.

Anagguan, Rizal, Cagayan



268%

Sufficiency Level

The Rice Program envisions Region 02 to become the new Rice Bowl of the Country. Through various strategies and interventions implemented, the goal of the program is for Region 02 to become the major producer and supplier of quality rice in Luzon.

2nd Rank

Cagayan Valley as Rice Producer in the Philippines

Table 1. Production by Province

CAGAYAN VALLEY	2,656,978.5
BATANES	73.5
CAGAYAN	1,006,120.0
ISABELA	1,285,685.0
NUEVA VIZCAYA	273,517.0
QUIRINO	91,583.0

Table 2. Production by Region

Philippines	19,276,346.6
CAR	445,006.0
ILOCOS REGION	1,872,052.0
CAGAYAN VALLEY	2,656,978.5
CENTRAL LUZON	3,634,807.0
CALABARZON	410,833.0
MIMAROPA	1,159,830.0
BICOL REGION	1,335,077.0
WESTERN VISAYAS	2,230,836.7
CENTRAL VISAYAS	325,209.0
EASTERN VISAYAS	945,565.0
ZAMBOANGA PENINSULA	700,590.0
NORTHERN MINDANAO	745,733.4
DAVAO REGION	433,665.0
SOCCKSARGEN	1,319,505.0
CARAGA	782,675.0
ARMM	577,984.0
NEGROS ISLAND REGION	-

Source: Philippine Statistics Authority (PSA)



13.78%
(19,276,346.63 MT)
of National Rice Production

Production Support Services

In the attainment of this goal various projects/ interventions along the Major Final Outputs were efficiently delivered.

High Quality Seeds Assistance to Adverse Ecosystems

To increase yield in areas adversely affected by drought, submergence and salinity in the region, a total 120,000 kg. of Green Super Rice (GSR) were distributed to 2,715 farmer-beneficiaries covering an area of 3,000 ha.

Production and Distribution of Seeds

To sustain the seed requirement for registered, traditional and green super rice and other stop gap varieties, seed production is continuously undertaken by the research centers and experiment stations in the region.

From the 45,221 kg. high quality seeds produced in the 17.35 ha. seed production established from the 2016-2017 Dry Season and 2017 Wet Season, a total of 39,575 kg. were already distributed to 775 Farmer-Beneficiaries.

Disaster Risk Reduction and Management

Seed Reserves for Quick Response

Region 02 is mostly affected by typhoon and drought. To respond to the needs/ losses of farmers in case of calamities, disaster response activities were undertaken to include reserves of at least 10% of the seed requirement of the total area harvested.

Bufferstock seeds were already procured from reliable sources which are as follows: 10,000 kg. registered seeds, 231,920 kg. GSR and other stop gap varieties, 1,520 kg traditional seeds, 608,637 kg. hybrid seeds and 1,329,040 kg. certified seeds.

From the 43,753 ha. in the 58 municipalities affected by typhoon Jolina, Oddette and continuous rain, a total of 170,250 kg. hybrid seeds and 1,284,512 kg. certified seeds were already programmed for the rehabilitation.

Agricultural Machinery and Equipment for Calamity and Epidemic Quick Response Tool

A total of six (6) hauling trucks were also procured to facilitate hauling of bufferstock seeds from delivery points to distribution points.

Likewise, another three (3) hauling trucks were also procured to serve as under the Production Related Machinery and Equipment.

Agricultural Chemical Bufferstocks for Epidemic Mitigations and Control

Agricultural chemical Bufferstocks were also procured as a mitigation and control measures for the occurrence of pest. A total of 400 li insecticide, 350 kg. fungicide, 320 kg. rodenticide and 200 liters bactericide were already stored and made available in the research centers and experiment stations for use in times of pest & disease outbreak.

From the quantity of pesticides procured, 123.8 li. insecticide, 288 kg. fungicide, 320 kg. rodenticide and 200 liters bactericide were already distributed to control insect pest and diseases observed in the field during pest surveillance.

Automated Weather Stations (AWS) for localized agrometeorology monitoring for preparedness and response

Local agrometeorological data were continuously collected through the six (6) AWS maintained in the research centers and experiment stations.

These are automatically uploaded and can be accessed in the www.agromet.da.gov.ph, a website maintained by the Bureau of Water and Soil Management (BSWM).

Rice Pest Management and Control

Biological Control Agents

Production of *Metarhizium* and *Trichogramma* are Biological Control Agents (BCA) that one effective against major pest of rice is continuously undertaken by the Regional Crop Protection Center (RCPC), Integrated Soils Laboratory (ILD) and Southern Cagayan Research Center (SCRC).

From the 9,122 kg. *metarhizium* produced, a total of 8,816 kg. were distributed to 1,881 Farmer-Beneficiaries. Likewise, 104,110 *trichogramma* cards were also produced and 102,810 were distributed to 1,304 Farmer Beneficiaries.

Support Equipment Field Monitoring and control of Insect Pests

To further strengthen pest surveillance in the region, ten (10) insect light traps were also strategically distributed and installed to 10 (ten) Local Government Units (LGUs) namely: Sta Ana, Gonzaga, Gattaran, Sto Nino, Abulug, Claveria, Aparri, Solana, Lallo and Penablanca.

The Regional Crop Protection Center (RCPC) continuously coordinate with LGUs on the submission of insects for analysis and appropriate recommendations.





Soil Fertility and Water Assessment

NPK and pH Analysis

Appropriate fertilizer application contributes to yield and production increase of rice. Relative to this, DA-RFO 02 is continuously conducting soil sampling through the CVIAL, Tuguegarao City and CVRC-Annex, City of Ilagan Isabela. NPK and pH of the 5,717 soil samples were analyzed. The high accomplishment was attributed by the continuous operation of the two (2) soil laboratories and soils mobile clinic.

Soil Fertility Mapping

Soil fertility maps totaling to 23 were already accomplished. Said maps serve as quick guide for nutrient management of farmers.

Compost Activator and Soil Ameliorants

Compost Fungus Activator

DA-RFO 02 supports the "No-burning-of-Farm Wastes Campaign" through distribution of Compost Fungus Activator (CFA). The fungus present in CFA, "Trichoderma harzianum", facilitates composting of rice straw which is considered as major farm wastes in rice areas.

From the 3,790.80 kg. CFA produced, 3,685.04 kg. were already distributed to 2,282 Farmer-Beneficiaries.

Biozome

Biozome is a soil ameliorant found excellent for crop growth and yield. It helps rejuvenate soil by supplying the necessary micronutrient elements and by enhancing the proliferation of beneficial soil microbes.

Relative to this, DA-RFO 02 procured 232,000 kg. Biozome of which 64,709 kg. were already distributed to 8,034 FBs covering an area of 8,008.63 ha. Distribution and collection of masterlists are still on-going.

Marketing Support Services

Investment Forum for Potential Agri-Entrepreneurs was conducted at DA-SCRC, Iguig, Cagayan in April 3, 2017. A total of 75 participants attended the activity.

Product Development was conducted by AMAD at DA-IES, Gamu, Isabela and DA-NCES Abulug, Cagayan wherein a total of 103 participants attended the activity among the processing of brown rice into coffee is one.

Inputs provided to the farmer cooperators include 6,066 kg. of hybrid seeds, 30,145 bags of fertilizers and 12,132 packs of biozome (soil ameliorants). Prior to the distribution of these interventions, a total of 105 batches of technical briefing was conducted to discuss the implementing guidelines of the project. Rice Crop Manager (RCM) recommendations tallying 4,845 were generated and distributed to farmers as basis of applying fertilizers.

The field activities of the farmers were closely monitored from land preparation, crop establishment and maintenance to harvesting.

Extension Support Services

RICE MODEL FARM CLUSTER

The use of appropriate hybrid rice varieties is one among strategies that can further increase yield in irrigated areas. To facilitate promotion and farmers adoption, DA-RFO 02 initiated the implementation of the Rice Model Cluster Projects in Cagayan, Isabela, Nueva Vizcaya and Quirino.

A total of 161 clusters covering an area of 6,066 ha. with 7,521 farmers were already established this 2017 Wet Season (WS) to prove that 7.5 MT/ha. is attainable using hybrid varieties during this season.

Province	Cluster (no)	Area (ha)	Farmer Cooperators (n0)
Cagayan	61	2,106	2,960
Isabela	70	3,040	3,452
Quirino	20	680	266
Nueva Vizcaya	9	240	843
TOTAL	161	6,003	7,328





Participatory Techno Demo/Participatory Action Research (PTD/PAR) of LFT/FLE established.

Farmers are very effective in carrying out extension due to their actual and applied experience in rice production. Therefore, through the Local Farmer Technicians (LFTs)/Farmer-led Extension (FLE) Program, farmers play a key role as active partners in technology dissemination through the establishment of Participatory Technology Demonstration (PTD) and Participatory Action Research (PAR) across ecosystem.

To spur adoption of new and improved rice production technologies among farmers, 358 FLE and 196 LFT techno demo were established as learning field.

Technology Demonstration on Farm Mechanization

Eight (8) ha. technology demonstrations on crop establishment were conducted in five municipalities in the region.

The said activity highlighted the benefits of using mechanization technologies in rice production to spur adoption among farmers. 713 participants attended the field days that were conducted at Dadap, Solano, Nueva Vizcaya, Nueva Roxas and La Paz, Cabatuan, Isabela and Baculud, Amulung, and Fugu, Ballesteros, Cagayan.

Strategic Micro Agri-enterprises for Rice-based Farms and Communities

On-station and community-based demonstration farms were also established to showcase yield boosting and cost-reducing technologies to farmers.

On-Station Irrigated Lowland Model Farm

A total of six (6) hybrid rice varieties were showcased for promotion and farmers adoption namely: TH-82, Bigante Plus, SL-8H, SL-12, S6003 and NK5017 at DA-SCRC, Iguig, Cagayan. Highest computed yield per hectare of 10.01 MT/ha was obtained using S6003 followed by TH-82, NK5017, Bigante, SL-8H and SL-12 with respective yield of 9.87 MT/ha, 9.78 MT/ha, 9.70 MT/ha, 9.53 MT/ha and 8.41 MT/ha. More than 900 participants witnessed this finding during the harvest festival held in April 19, 2017 at the said research center.

The use of Rice Crop Manager and Soil analysis as basis of applying fertilizers were also showcased at DA-NCES, Abulug, Cagayan wherein PSB RC82 was used as test variety. Based from the result of the techno demo, yield of 5.80 MT/ha yield was obtained using RCM higher than soil analysis with yield of 5.20 MT/ha.

Irrigated Lowland Community Demo Farm

A total of four (4) hybrid rice varieties were showcased by DA-NCES, Iguig, Cagayan for promotion and farmers adoption namely: SL-8H, NK5017, RH-9000 and NK6003. NK 5017 was the highest yielder with yield of 7.80 MT/ha followed by RH-9000, NK6003, SL-8H with corresponding yield of 7.50 MT/ha, 7.20 MT/ha and 7.00 MT/ha.

DA-CVRC, City of Ilagan, Isabela and DA-SCRC, Iguig, Cagayan showcased the economic benefits of using mechanized transplanter in crop establishment. Result shows that this intervention made possible for the attainment of 7.35 MT/ha.

Community-based Mushroom Production, Processing and Marketing

To showcase that there is really “cash from farm trash like rice straws”, the Department of Agriculture-Regional Field Office No. 02 (DA-RFO 02), through its nine (9) research centers and experiment stations is actively implementing the Community-Based Mushroom Production Project (CBMPP). It is one of the Food Staple Sufficiency Projects (FSSP) that envisions in improving productivity and profitability of farmers in the rice-based farming communities especially in the rainfed areas.

Mushrooms are actually edible fungi that grow and obtain food from decaying lignocellulotic materials (saphrophytic). As food, it is a good source of carbohydrates, fats, proteins and food factors such as vitamins and inorganic compounds which are indispensable to good health. As crop, it is considered an immediate source of cash because of its short maturing period of more or less two months. Little space is required and minimal capital is incurred in the process. Rice straws and other farm wastes local available can be used as substrate. It is estimated that for a one-hectare rainfed rice area with an average yield of 2.7 metric tons (mt), produces the same volume of rice straw. By utilizing only 1-MT of rice straw as substrate, farmers can earn more or less P100,000.00 in a year. Likewise, mushroom spent can be composted to be applied in the field as organic fertilizers.

Through CBMPP, DA-RFO 02 aims to introduce mushroom as an appropriate farming system component that promote proper waste disposal while providing additional source of income in the farming communities. “The project consists of five (5) modules that focused in the important aspect of mushroom value chain from production to processing. Existing technologies and best practices are promoted through trainings and provision of reading materials in vernacular forms. To spur adoption, complicated processes in growing three (3) species of mushrooms namely; oyster, volvariella and milky are refined to make it low cost and easy to do by unemployed, youth and farmers.



Training and Training Related Events

Twenty one (21) batches of five (5) specialized training courses were conducted wherein a total of 1,319 participants attended the said activity.

Training Course	Batches (no)	Participants (no)
Training on the Proper Handling and Maintenance of Farm Machinery and Equipment	3	135
Refresher Course for AEWs	1	61
SIKAT SAKA Credit Program	7	610
Institutional development for SWISA	5	204
Strengthening Existing FSPs	5	309
TOTAL	21	1,319

Special Events

Conduct of AEW Congress

Three (3) batches were conducted by Field Operations Division (FOD) in collaboration with the DA research and experiment stations.

Province	Participants (no)
Cagayan	116
Isabela	237
Nueva Vizcaya	101
Quirino	23
TOTAL	477

Rice Achievers

In Region 02, there were 56 Agricultural Extension Workers (AEWs), 20 Local Farmer Technicians and one (1) province and one (1) city submitted as contenders for the said search for the Rice Achiever.

Category	Participants (no)
Outstanding Province	1
Outstanding City	6
Outstanding Agricultural Extension Workers (AEWs)	56
Outstanding Local Farmer Technicians	20
TOTAL	83



IEC Materials Disseminated

DWDA 105.3 Radio programs are being maintained from Monday to Saturday, 8:00 am-5:00 pm to promote agricultural technologies to farmers.

A total of 25 Audio-visual presentations of successful farmers and fisher folk were also produced for airing on television/radio and 51,049 Info advocacy materials were also produced and distributed to farmers.

Rice Crop Manager

Rice Crop Manager (RCM) is an important decision support tool that provides fertilizer recommendation for rice. To date, 56,721 RCM recommendations were provided to farmers.

Research & Development Services

Through the conduct of Research & Development projects/ studies, a number of breakthroughs and significant research results were attained and promoted..

1. Supported released new varieties as a result of the "Accelerating the Adoption of Next Generation Varieties for the Major Ecosystems in Region 02.
 - Irrigated lowland rainfed -9 NSIC Varieties
 - Irrigated Hybrid- 14 NSIC Varieties
 - Irrigated Special Purpose – 2 NSIC Varieties
 - Drought-Prone -13 NSIC
 - Saline Prone – 7 NSIC Varieties
2. Low-cost technologies derived from the Association Technology project.
 - Alternate Wetting and Drying (AWD)
 - Use of high quality seeds
 - Rice Crop Manager
3. Trichoderma spp as control for sheath blight and rice blast in upland rice.
4. The use of mechanized transplanter reduced cost of production to about P 6.30-6.72/kg. of palay vs. P 7.37-8.67/kg. of producing palay using the conventional farming method.
5. Database Management System of Machinery Equipments and Post-harvest facilities was developed to determine the sufficiency level of machinery and units gap. The information serves as basis in crafting Masterplan 2018-2022 of the RAFMech.
6. Results of using Flat Bed Dryers facilities during wet season can save rice farmers at least an average of P2,208.00 in the drying cost alone.





Irrigation & Network Services

Small Water Impounding Project

There were 44 SWIPs currently constructed in Region 02, 23 of which are found in Cagayan, 15 in Isabela, two (2) in Quirino and two (2) in Nueva Vizcaya. Barangabang SWIP was the only unit completed as of this date.

There were also ten (10) under-rehabilitation SWIP in Cagayan; seven (7) in Isabela and two (2) in Nueva Vizcaya totaling to 19 in the entire region.

Province	SWIP Construction			SWIP Rehabilitation		
	Project (unit)	Service Area (ha.)	FBs (no.)	Project (unit)	Service Area (ha.)	FBs (no.)
Cagayan	23	1,642	1,181	10	285	285
Isabela	15	632	467	7	237	203
Nueva Vizcaya	2	110	98	2	30	29
Quirino	2	55	30			
TOTAL	42	2,439	1,776	19	588	517

Construction of Diversion Dam

A total of 19 Diversion Dam (DD) is also under construction. There are ten (10) DD found in Nueva Vizcaya, seven (7) in Cagayan, one (1) in Isabela and one (1) in Quirino.

Two (2) units were already completed at Cagayan and Isabela. Three (3) DD were already completed namely: Cabiraoan DD (Gonzaga, Cagayan), Bitnong Molave DD (Dupax del Norte Nueva Vizcaya), Munguia, UMFA Diversion Structure, Dupax del Norte, Nueva Vizcaya.

Seven (7) DD were also under rehabilitation. Four (4) of which is found in Nueva Vizcaya and two (2) in Cagayan. Two (2) units were already completed in Cagayan and Nueva Vizcaya.

Province	DD Construction			DD Rehabilitation		
	Project (unit)	Service Area (ha.)	FBs (no.)	Project (unit)	Service Area (ha.)	FBs (no.)
Cagayan	23	1,642	1,181	10	285	285
Isabela	15	632	467	7	237	203
Nueva Vizcaya	2	110	98	2	30	29
Quirino	2	55	30			
TOTAL	42	2,439	1,776	19	588	517

Farm Machinery Support Services

Farm Machineries and Equipment

In response to the needs of marginal farmers, DA-RFO 02 implements different infrastructure and post-harvest projects which aim to boost agricultural productivity and reduce production losses. A total of 25 units four-wheel drive tractor, seven (7) units Precision seeder, five (5) unit Combine harvester and five (5) units hauling trucks were respectively distributed to different farmer groups.

Farm Machinery	Province	Organization (no.)	Units (no.)
Four-Wheel Drive Tractor (36 hp)	Cagayan	7	7
	Isabela	15	16
	Nueva Vizcaya	2	2
	Total	24	25
Rice Combine Harvester	Cagayan	2	2
	Isabela	2	2
	Nueva Vizcaya	1	1
	Total	5	5
Ride on Type Direct Palay Seeder (Precision Seeder)	Cagayan	1	2
	Isabela	3	3
	Nueva Vizcaya	2	2
	Total	7	7
Seed Cleaner	Cagayan	3	4
	Isabela	7	11
	Nueva Vizcaya	1	1
	Quirino	1	1
	Total	12	17



Multi-purpose Drying Pavement

A total of 117 out of 135 multi-purpose drying pavements were already completed, 47 in Cagayan, 61 in Isabela, 10 in Isabela and 19 in Quirino.

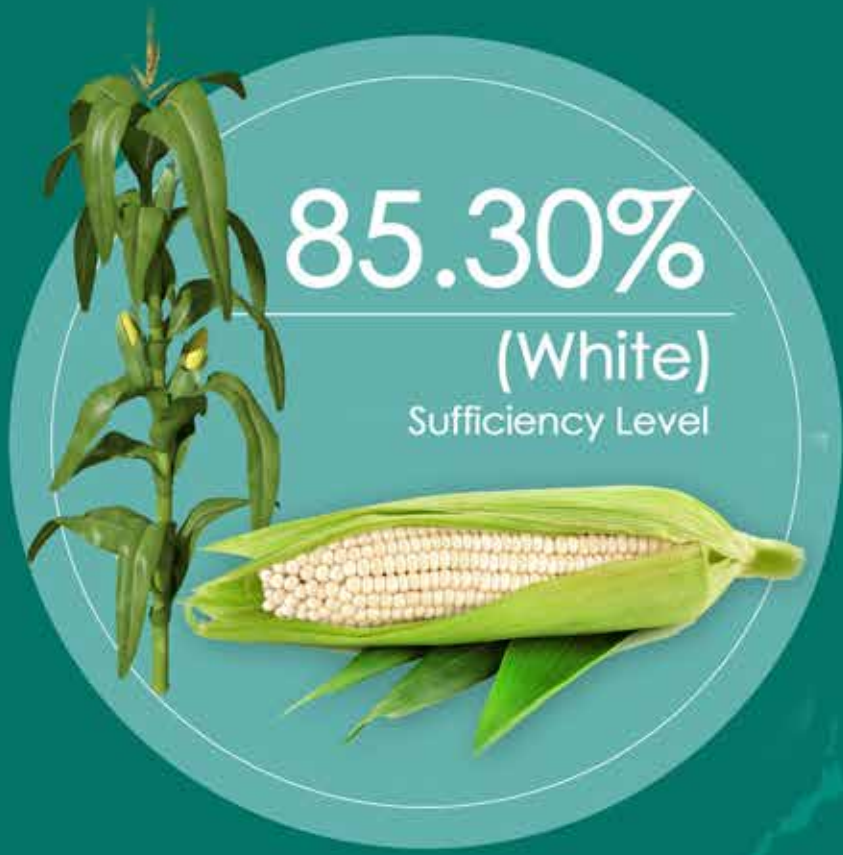
corn program



OUTSTANDING CORN FARMER

FELIX G. ANCHETA

Buena Suerte, Cauayan City, Isabela



1st Rank

Cagayan Valley as
Corn Producer in the Philippines

Table 1. Production by Province

CAGAYAN VALLEY	1,841,077.0
BATANES	246.3
CAGAYAN	499,775.0
ISABELA	1,100,911.0
NUEVA VIZCAYA	77,491.0
QUIRINO	162,654.0

Table 2. Production by Region

Philippines	7,920,505.15
CAR	242,850.0
ILOCOS REGION	558,462.0
CAGAYAN VALLEY	1,841,077.0
CENTRAL LUZON	258,746.0
CALABARZON	92,762.15
MIMAROPA	121,098.0
BICOL REGION	287,005.0
WESTERN VISAYAS	301,286.0
CENTRAL VISAYAS	146,470.0
EASTERN VISAYAS	73,481.0
ZAMBOANGA PENINSULA	234,455.0
NORTHERN MINDANAO	1,287,303.0
DAVAO REGION	256,735.0
SOCCSKSARGEN	1,257,177.0
CARAGA	119,980.0
ARMM	841,618.0
NEGROS ISLAND REGION	-

Source. Philippine Statistics Authority (PSA)

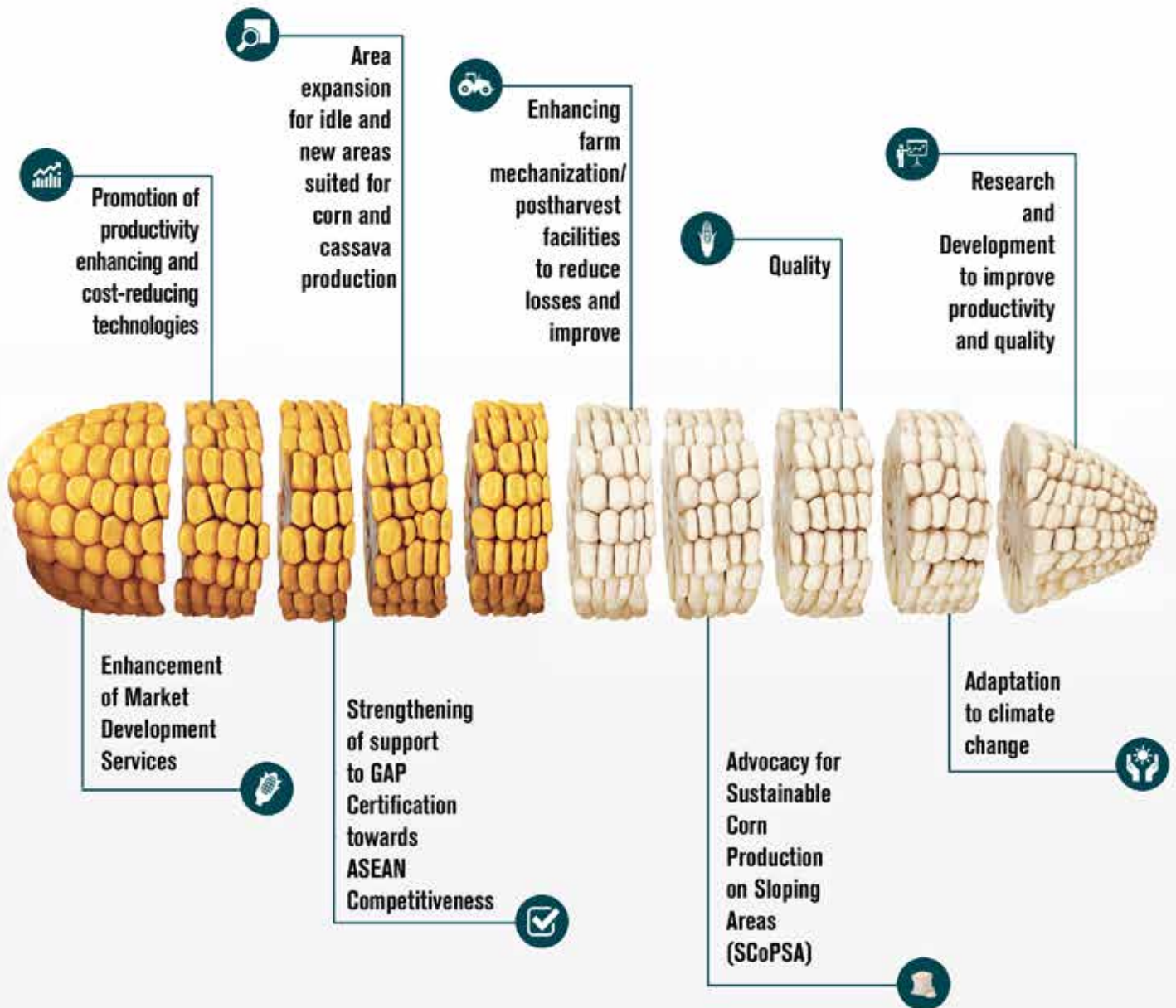
The Cagayan Valley Region aimed to sustain its position as a major producer, supplier and user of world class corn for food, feeds and industrial uses. As such for CY 2017, Corn Development Program focused on two (2) objectives as follows:

1. Increasing productivity from average yield from 4.05 MT/ha to 4.48 MT/ha.
2. Improving quality of production and reducing postharvest losses.



23.22%
of National Rice Production

The following strategies were implemented to answer the goals and objectives of the program:





Production Support Services

1. Ensured on-time provision/delivery of seed buffer stocks to calamity-stricken areas/affected farmers through distribution of 67,280 kg (out of procured 77,622 kg) and 302,904 kg conventional hybrids covering 16,828 hectares area planted that benefitted 24,619 corn farmers.
2. Supported promotion and utilization of location-specific and market-preferred improved varieties of cassava through on-station and on-farm planting materials production of 34.23 ha serving as source of distributed 404,055 seed pieces quality planting materials serving 37 farmer-beneficiaries and convey a total of 57 hectares expansion areas.
3. Enhanced promotion/ utilization of soil ameliorants (to support showcasing/attainment of 10-tons/ha potential yield) through provision/distribution of 16,045 kg. Biozome and Vital N to Corn Farmer-Led Extensionists (FLEs) and corn farmer-enrollees in the corn techno demo areas covering 4,102.3 ha with 2,657 farmer-beneficiaries.
4. Analyzed 19,924 soil samples covering 85,752 ha. of corn areas with 26,798 clients from Cagayan, Isabela, Nueva Vizcaya and Quirino that resulted to the development of 57 fertility maps and 57 pH maps being used as reference by recipient-municipalities/farmers.
5. Provided accurate information/laboratory analysis to 895 farmer-beneficiaries on the aflatoxin content of their 1,052 corn seeds samples in support to GAP application/certification thereby addressing food safety and competitiveness.
6. Helped minimize dependence on use of costly chemical pesticides in the control of corn borer, army worm, cutworm, earworm, semi-looper, hairy caterpillar and other lepidopterans attacking conventional hybrids and improved OPVs through biological control agents intervention as follows:
 - production and distribution of 523,100 and 520,800 trichogramma cards, respectively for 4,838 ha area benefiting 3,130 corn farmers.
 - production of 22,315,000 pieces of earwigs and distribution of 22,085,000 pieces serving 2,227 ha. with 1,508 beneficiaries.
 - production and distribution of 5,970 packs metarhizium for 193 ha with 193 beneficiaries.
7. Supported promotion/utilization of cost-reducing bio-fertilizer through production of 20,156 kg. and distribution of 20,148 kg. Bio-N for 5,755.3 ha with 4,732 beneficiaries.
8. Regularly conducted pest and disease surveillance and extended appropriate technical advises/prescription on pest control in 76,000 hectares production areas in close coordination with PLGUs, MLGUs and other stakeholders.

Marketing Development Services

1. Conducted five (5) market matching activities between corn farmer producers and traders/processors on the following dates and venues:

- April 5, 2017 at DA-QES, Aglipay, Quirino;
- April 21, 2017 at DA-IES, Gamu, Isabela;
- May 2017 DA-IES, Gamu, Isabela;
- July 14, 2017 at DA-MPC, Tuguegarao City, Cagayan, and
- August 31, 2017 at Binalonan, Pangasinan

2. Assisted 11 associations/ cooperatives/traders namely:

- Krisan Grains Trading
- 3-Shers Food Products
- Maddela Auto Saving MPC
- Maddela Integrated Farmers Savings Development Cooperative
- Villa Luna MPC
- Mindanao Grains Processing Center
- Sto. Domingo MPC
- Cuntapay's Trading Center, BMC Trading Center
- Baggao Progressive Farmers Credit Cooperative
- Nueva Vizcaya FLE Corn Growers
- Service Providers Association

Extension Support, Education & Training Services

1. Conducted and established 165 sites FLE techno demo and 26 sites for Sustainable Corn production on Sloping Areas (SCoP-SA) with 4,775 farmer-enrollees, attaining yield of 8-14 MT/ha.



2. Conducted and established 12 sites Cassava Techno Demo to support promotion of improved POT (fertilization, spacing and farming system) and location-specific varieties.

3. Capacitated/improved technical know-how of corn growers to produce high-yield and quality corn through the conduct of 6 Bantay Peste Brigade trainings, 16 Good Agricultural Practices (GAP) training and 10 other seed production and processing related trainings, technical briefings and meetings participated by 1,683 participants (Corn Farmer-Led Extensionist, Corn Farmers, Task Force Mais members/ DA Staff and AEWs).

4. Instrumental in development of entrepreneurial skills of cassava farming households which is carried out in the conduct of 30 Livelihood Trainings, 4 GAP training and other cassava value-adding and production related trainings, technical briefings and meetings participated by 1,408 participants from Local Government Units, Cassava Farmers, Rural Improvement Club (RICs), DA Staff and AEWs.
5. Extended support to 143 Agricultural Extension Workers (AEWs) from the Provincial and Municipal Local Government Units.
6. Fast track technology access by corn farmers/stakeholders to improve technologies/ information through distribution 11,746 pieces IEC materials/flyers/booklets to corn and cassava farmers in Region 02. The titles of the distributed IEC materials are the following:
 - For Corn, namely; "Good Agricultural Practices(GAP) for Corn", "Aflatoxin", "Jabber Planter", "Apog", "Agricultural Lime", "Open Pollinated Variety (OPV) Corn", "Corn Production Guide", "Bio-N", "Natural Farming" and "Mais Recipe".
 - For Cassava, namely; "Cassava Production Guide" and "Cassava Recipe".





Research & Development Services

1. **Initiated the improvement/refinement and development of production technologies and varieties through the conduct of 6 R & D projects/studies that resulted to the:**
 - Development, NSIC registration and commercial release of Six (6) varieties of glutinous corn namely; IES Glut # 2, IES Glut # 4, IES Glut # 6, IES Glut # 8 and IES Glut # 10; Six (6) varieties of white flint, namely; IES 89-06, IES 89-10, IES 89-12, IES 09-02, IES 10-04 and IES 12-06; Five (5) varieties of yellow namely; IES CN 5, IES CN 7, IES CN 9, IES CN 11 and IES CN 13, and Two (2) other varieties undergoing testing at the National Cooperative Test (NCT) namely; CVRC Cn 15 and CVRC Glut # 12.
 - Development/establishment of fertilization/application guide on use of gypsum (CaSO_4) ameliorant in combination with Recommended Rate of inorganic and bio-fertilizers for improved soil fertility management particularly in low-yielding areas.
2. **Implemented Farmers' Participatory Technology Development Projects and monitored eight (8) studies/researches (on-station/on-farm).**
3. **Conducted two (2) researches on cassava pruning Techniques and rapid multiplication for New High Yielding varieties (cv35) and Micronutrient Fertilization/Amelioration in Region 02.**

Farm Mechanization & Postharvest Services



Enhanced mechanization on land preparation, planting, harvesting and post-harvesting/processing for reduced production cost through the allocated and distributed 23 units four-wheel drive tractor (2 units 36 Hp and 21 units 86 Hp), 3 units corn planter, 11 units combined harvester, 12 units cassava digger, 9 units mechanical sheller, 12 units cassava grater with presser, 8 units cassava pulverizer and 13 units cassava granulator. A total of 91 group farmer beneficiaries were benefited from the interventions.

Irrigation Network Services

Allocated and distributed 500 units Open Source Pumps (OSP) to corn farmers serving drought-prone production areas of 2,583.33 hectares.



high value crops program



OUTSTANDING HIGH VALUE CROPS FARMER

JOARD E. ARANDA

Matusalem, Roxas, Isabela



The High Value Crops Development Program in Cagayan Valley envisions to become self-sufficient in fruits and vegetables, affordable and safe to consumers empowering the High Value Crops producers and help them attain food sufficiency and economic growth.

The program aims to increase production, income and livelihood opportunities and provide access to affordable, safe and healthy food.

Technical Support Services

Vegetable Seeds

Vegetable is one of the major commodities under the HVCDP in the region to address the needs for vegetables.

Distributed 56,516 kilograms of assorted vegetables seeds and provided technical assistance to 74 farmer-group beneficiaries covering 447.13 hectares expansion areas and for sustainability of vegetable production in the region.

Commodity	Target (kg)	Distributed (kg)	Area Planted (ha.)	No. of Groups
Onion	540	540	112.32	5
Garlic	54,288	61,705	117.24	10
Lowland Vegetables	1,433	1,433	176.259	45
Upland Vegetables	255	255	41.31	14
Total	56,516	63,933	447.13	74



Buffer Stocking

Produced 6,095 kilograms assorted upland and lowland vegetables seeds out of the 6,095 kilograms target which will serve as buffer stock that will be distributed to areas damaged in

Commodity	Target (kg)	Produced (kg)
Lowland Vegetables	540	540
Upland Vegetables	5,650	5,650.6
Total	6,095	6,190.6





Planting Materials

Distributed 3,109,680 pcs. assorted planting materials and provided technical assistance to 70 farmer-group beneficiaries covering 943.40 hectares expansion areas.

Commodity	Target (kg)	Distributed (kg)	Area Planted (ha.)	No. of Groups
Citrus	60,000	60,000	126	41
Coffee	1,049,680	683,800	683.8	28
Sweet Potato	2,000,000	2,006,050	133.6	1
Total	3,109,680	2,749,850	943.4	70

Production Facilities

In support to vegetable seeds and planting materials production, facilities are maintained at the different Research Outreach Stations in the region.

Production Facility	Target (kg)	Remarks
Clonal Garden	3	Coffee mother plants were produced
Greenhouse	8	Vegetable seedlings were produced/distributed
Nurseries	6	Grow out seedlings
Foundation Scion Grove	4	Source of scions for asexual propagation
Seed Storage	4	Vegetable seeds are stored buffer
Total	25	

Farm Production-Related Machinery and Equipment

- Procured 30 units Pole Pruner for DA-RFO 02 stations and farmers associations in the region in support to the coffee fertilization techno demo.
- Established three (3) units Nursery in the province of Cagayan.
- Maintained production facilities like eight (8) units greenhouse and four (4) units seed storage which are located in the different research centers of the region.
- In support to planting materials production, production facilities such as clonal gardens (3 units), nurseries (6 units) and foundation scion grove (4 units) which are located at the DA-RFO 02 stations of region were maintained



Market Development Services

Market Related Events Conducted

- 148 participated
- Vegetable, Citrus, Coffee and Cacao Councils were formed
- One (1) local event participated
- Participated in the vegetable congress (Tacloban City)

Extension Support, Education & Training Services

Training and training related events conducted

- Eight (8) Package of Technology (POT) on Lowland and Upland Vegetables, Sweet Potato were also conducted in the Province of Cagayan 2 batches and 2 batches in the province of Isabela, Nueva Vizcaya-2 batches, and Quirino-1 batch.
- Ten (10) extension personnel were trained.

IEC Materials Disseminated

- A total of 5,951 IEC materials was distributed in the province of Cagayan during the conduct of Mega Field on Palay Festival 2017 sa Region Dos conducted in Northern Cagayan Experiment Station (NCES), Abulug, Cagayan on June 2017.

Radio/ Plugs Aired

- Nine (9) Radio Plugs was aired in the province of Isabela & Cagayan.

TV plugs produced

- Eight (8) TV plugs produced, an Audio-Visual Presentation (AVP) of the different priority commodities of the region



Techno Demo established/maintained

- Four (4) Technology Demonstrations on vegetable were already established in the province of Cagayan & Isabela.

Rehabilitation of Coffee Trees

- Seven (7) sites out of 10 sites and 70,112 of 128,650 trees fertilized.
- Conducted Technology Demonstration on coffee fertilization in four (4) sites with a total of 24,262 coffee Trees

Irrigation Network Services

Small Farm Reservoir

- Established 61 units Small Farm Reservoir in the province of Cagayan-35 units, Isabela-15 units and in the province of Nueva Vizcaya-10 units covering 30.5 hectares.

Spring Development

- Established 41 units Spring Development in the province of Nueva Vizcaya, Quirino and Cagayan in support to the upland vegetable industry. The spring development benefitted 41 groups with 189 farmer beneficiaries with a total of 473.3 hectares.
- Spring Development project composed of diversion/ intake structures, storage tanks (concrete/steel tank, 10 cu.m./plastic tank) and diversion pipes (high density polyethylene pipes and fittings).





Pump and Engine Sets

- Procured and distributed 20 units pump and engine sets to 20 farmers group in the region in support to lowland vegetable production.

Agriculture & Fisheries Equipment and Facilities Support Services

Cultivator

- Procured and distributed ten (10) units cultivator and 4 units vegetable seeder to 11 group beneficiaries and DA-RFO 02 stations in the region
- Procured four (4) units vegetable seeder and distributed to DA-Stations to Aritao Confederation of Onion, Garlic, Ginger Growers Association.
- For the production facilities, procured ten (10) units rainshelter and distributed Nueva Vizcaya- five (5) units and Isabela- five (5) units.
- Distributed 1,710 pcs. plastic crates to two (2) farmers group in the Province of Isabela.

Post Harvest Equipment and Facilities

Plastic Crates

- Procured 7,710 pcs. plastic crate which are distributed in the different Research and Experiment Stations.

Coffee Roasting Facility

- Constructed two (2) units Coffee Roasting Facilities in the region located at Kilkiling, Claveria, Cagayan and Bannawag, Angadanan, Isabela

Seed Processing Facility

- Constructed one (1) unit Seed Processing Facility at DA-QES, Aglipay, Quirino

Agricultural Tramline

- Constructed three (3) units agricultural tramline system in province of Nueva Vizcaya covering 1.778 meters with 85 hectares service areas to reduce postharvest losses and reduction of hauling cost per kilogram from P 2.00 to P 1.00 and hauling time from hours to minutes.
- Turn-over ceremonies of three (3) units Agricultural Tramline System located at Yabbi, Dupax del Norte, Nueva Vizcaya, Biruk and Ganao, Dupax del Sur, Nueva Vizcaya, last December 13, 2017 at Belance, Dupax del Norte, Nueva Vizcaya. Said event was attended by Regional Executive Director Lorenzo Caranguian, Gov. Carlos Padilla, LGU Officials and End Users.





**OUTSTANDING LARGE
ANIMAL RAISER**

CHARLEMAGNE P. ACIERTO

Sampaloc, Cabatuan, Isabela



**THE LIVESTOCK PROGRAM ENVISIONS
CAGAYAN VALLEY AS A MAJOR SOURCE
OF CATTLE, GOAT AND SHEEP OF
INTERNATIONAL STANDARDS**

To achieve its goal of promoting these commodities as source of quality and safe meat and milk, the following interventions were implemented:

Genetic Improvement

Genetic Improvement continues to be the main focus of the Livestock Program. It seeks to accelerate the production of genetically superior animals to support the increasing demand from the Local Government Units, progressive private farms and cooperatives and/or selected academic R & D stations and other stakeholders. Similarly, the program provides an important way for livestock raisers to enhance the performance of their herds



Through the efficient management of our well-developed and rehabilitated production facilities at the nucleus farms and production center in the region the DA-RFO 02 was able to provide the requirement for quality breeder animals. A total of 180 heads of large and small ruminants were distributed benefitting 76 livestock raisers.



Unified Artificial Insemination Program. Artificial Insemination (AI), is one of the most effective tools available to accelerate production of quality breeder goods. It seeks to increase conception rate from 30 to 40%. A successful AI program involves sound nutrition program (animals in good body condition), good records, an effective herd health program, adequate working facilities, accurate estrus detection and a well-trained AI technician. In support to this program, the DA hired and trained twenty (20) technicians. About 8,246 semen straws were distributed, 5,413 heads inseminated and 3,609 farmers benefitted from the program.



Another equally important component of the GIP is the establishment LGU Multiplier Farms (MF). Primarily it seeks to increase the LGU capacity to provide animal inputs for their constituents. These farms shall serve as a source of commercial grade animal inputs for livelihood of their constituents. Its purpose is mainly for production of breeder animals that were be trained in the production farm. To date, a total of 45 farms has been established all over the region.



Forage & Pasture Development. This program aims to maximize use of grassland-based production systems to feed livestock in the nucleus farms and production center thereby reducing reliance on imported, concentrate protein feedstuffs. A total of 595,400 pcs of forage cuttings produced from these livestock stations were distributed to 862 farmers for pasture development.



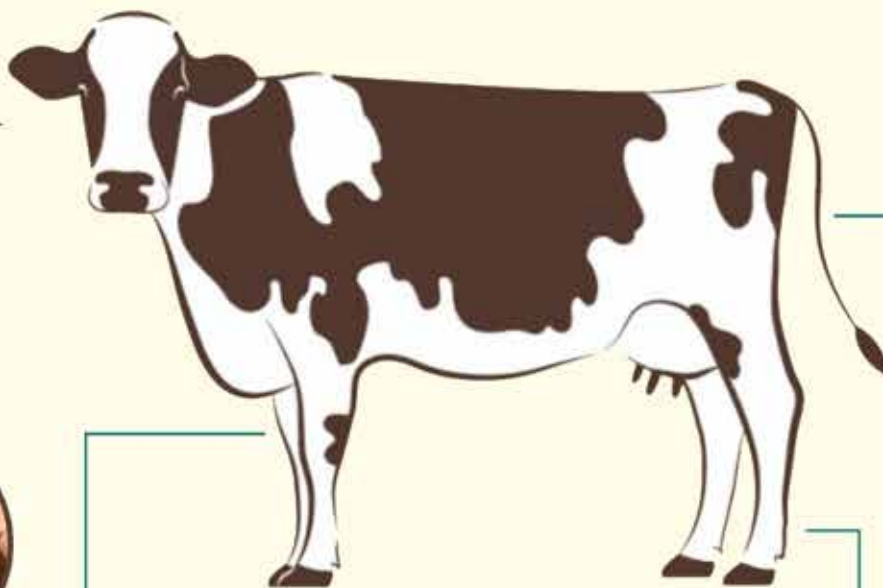
Animal Health Services



Animal Disease Diagnostic Services – 7,733 samples were analyzed by the Regional Animal Disease Diagnostic Laboratory benefitting 317 clients.



Drugs and Biologics Subsidy – 170,731 doses of drugs and biologics were distributed with 110,334 farmer beneficiaries.



Serological Surveillance – Conducted intensive sero surveillance for Avian Influenza and Foot and Mouth Disease. A total of 1,888 samples were collected from cloven hooves animals as well as poultry in high risk areas to maintain our freedom from these diseases.



Feed Analysis and Quality Control – The Feed Chemical Analysis Laboratory analyzed 1,471 feed samples for nutrient content. A total of 58 clients availed of the services.



Extension Support, Education and Training Services

Conducted 12 seminar/trainings on Good Animal Husbandry Practices in the provinces of Cagayan, Nueva Vizcaya and Quirino to support the Food Safety Act.



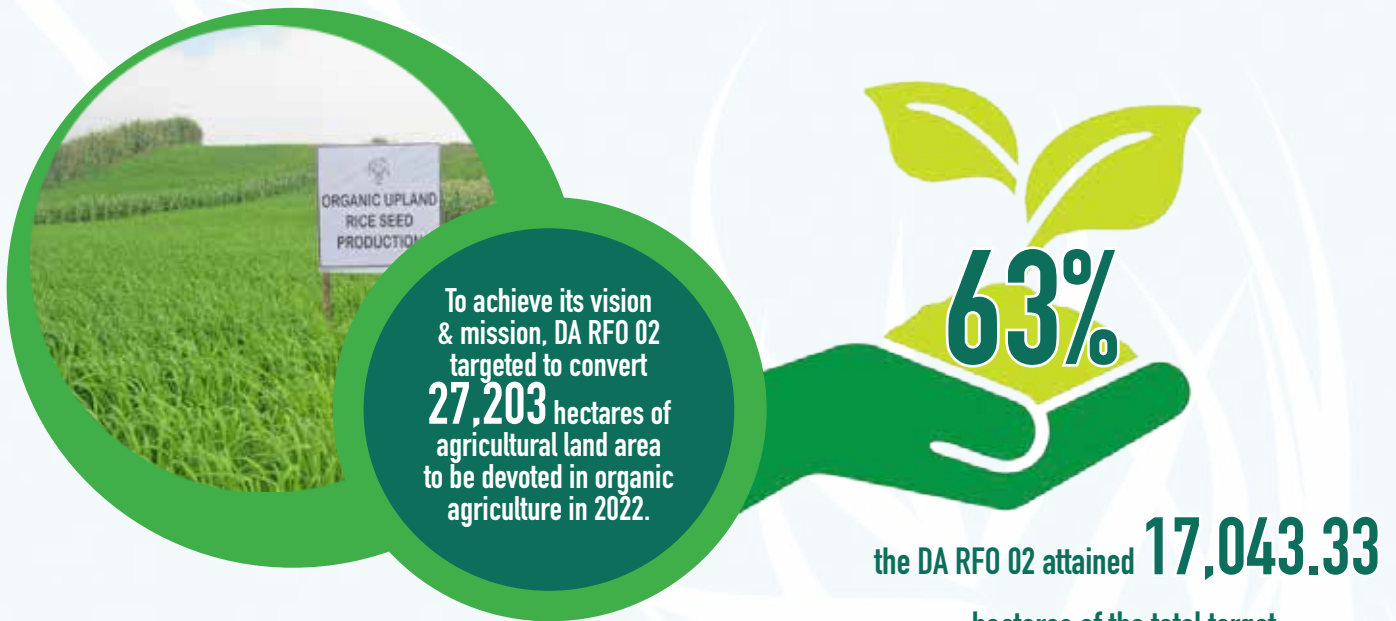


**OUTSTANDING MUNICIPAL
ORGANIC AGRICULTURE
FOCAL PERSON**

VICTORIA C. DAMIAN

Solano, Nueva Vizcaya

THE DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 02 envisions Region 02 to be a premier organic agriculture region in the country sustaining market supply of “certified” organically grown/prepared food, feeds and other agricultural input products.



Different interventions such as Production Support Services (PSS), Extension Support, Education and Training Services (ESETS), Market Support Services (MDS) and Provision of Agricultural Equipment and Facilities (PAEF) were provided to attain the programs’ goal.



Production Support Services

Production and Distribution of Assorted Organic Open Pollinated Varieties (OPV) Vegetables

This project covers the development of seed system for organic vegetables in the Five (5) provinces in Region 02. Seed production was undertaken as the prime activity of the two (2) Research Centers and three (3) Experiment Stations of the Department of Agriculture Regional Field Office No. 02. Seeds produced were distributed to farmers and farmer organizations.

In order to ensure the field operations to undertake and conforms to the National Organic Agriculture Standards, these will be mandated to apply for a Third Party Certification. Among the five (5) production sites, three (3) sites are already third party certified by the Organic Certification Center of the Philippine namely the Nueva Vizcaya Experiment Station (DA-NVES) based at Bagabag, Nueva Vizcaya, Cagayan Valley Research Center (DA-CVRC) located at San Felipe, City of Ilagan, Isabela and Southern Cagayan Research Center located at Iguig, Cagayan.

These stations are producers of organic inputs such as legumes seeds, root crops and OPV vegetable seeds. A total of 234 kilograms of assorted OPV vegetable seeds were distributed with 1,493 farmer beneficiaries.



Organic Upland Rice Production and Distribution

On-station seed production and distribution of Upland rice varieties will cater the needs of organic practitioners by providing organic seeds under lowland and upland ecosystems. Seed growers were reluctant to produce organically grown rice seeds due to low yield compared to conventionally grown rice seeds but due to health benefits most of the growers are now convinced to plant upland rice practicing organic farming. It will be established following the standards of producing organic rice seeds in a 6.0 hectares production area. Traditional Rice Varieties (TRV) like Dinurado, Calatrava, Bonkitan, etc. are recommended as these are proven to have good eating quality and are aromatic. TRVs that are adoptable in any ecosystems and its palatability one characteristics that consumers are taking into consideration. These TRVs will be mass produced under irrigated, rain fed and upland rice areas in Region 02.

Production and distribution of Upland rice varieties for farmers practicing organic farming at the provinces of Cagayan, Quirino, Nueva Vizcaya and Batanes to address the need of the increasing demand. Nueva Vizcaya Experiment Station (DA-NVES) was certified as "Organic upland rice seeds/producer" by OCCP. A total of 7,008 kilograms of upland rice seeds was distributed with 304 farmer-beneficiaries.





Organic Open Pollinated Variety (OPV) Corn Production and Distribution

In December 2011 the Department of Agriculture Regional Field Office No. 02 has embarked in a landmark activity of starting to produce purified/organic OPV white and yellow corn seeds and it has reached its three (3) years conversion period.

Production of OPV corn seeds to be distributed to local farmers and local seed producer's food and feeds should be sustained to address the need of the growing demand. To address these, the four (4) stations of the Department of Agriculture

Regional Field Office No. 02 shall maintain the seed production to cater the needs of farmers.

It aims to produce and promote organic OPV white corn seeds by continuous natural seed selection and seed purification; and the institutionalization of the Organic OPV Corn Seed System in Region 02.

On-station seed production of OPV Corn seeds is continuously undertaken for distribution to farmers practicing organic farming at the provinces of Cagayan, Quirino, Batanes and Nueva Vizcaya. The Nueva Vizcaya Experiment Station (DA-NVES) was certified as "Organic OPV Corn seeds/producer" by OCCP. A total of 6,056 kilograms of OPV corn seeds was distributed with 666 farmer-beneficiaries.

Distribution of Biocontrol Agents

Production and distribution of Earwig and Trichocard was done in support to Organic Upland Rice, OPV White Corn and Vegetables in Region 02 will be implemented at the Department of Agriculture-Cagayan Valley Integrated Agricultural Laboratory (DA-CVIAL), Regional Crop Protection Center (RCPC), Ilagan, Isabela and Southern Cagayan Research Center (SCRC) as the proponent.

Mass production of *Trichogramma Japonicum*, *T. chilonis* and earwig was done in support to organic farming. A total of at least 75,000 *Trichogramma* cards and 3,000,000 of earwigs were distributed to 375 and 350 hectares target area, respectively. Release of trichocards are during seedling, vegetative, reproductive stages and during maturity is optional stage at 50-70 cards and 10,000 pieces earwigs per release per hectare respectively.

Technical briefings were conducted to cooperators prior to the start of the implementation. Frequent monitoring was done to evaluate the proper usage and gain feedbacks on its effectivity.

There are 3,178,800 pieces earwig covering an area of 317 hectares with 111 farmer-beneficiaries and 76,910 pieces of trichocards covering an area of 769 hectares with 191 farmers-beneficiaries were distributed.



Republic of the Philippines



REGISTRATION NO. 2013000476

Having complied with the provisions of Republic Act No. 8339 and its amendments, the Office registers this:

UTILITY MODEL

the identification and claims of which are herein revealed and

This REGISTRATION grants unto the applicant an exclusive right throughout the Philippines to make, use, sell or import the

Utility Model herein as recited for the term of REGISTRATION and to REVENUE (P) 100

Production and Distribution of Biodewormer

Parasitism is still the number one constraint in small ruminant industry mainly due to development of drug resistance that enables worms to survive drug treatments. It is a worldwide phenomenon and found to be present in 41.2% of commercial small ruminant farms in Region 02. Research efforts for the past years were focused in reducing our dependence on drugs thus preventing the development of drug resistance.

Biological agents like fungi reduce our dependence on drugs and the development of drug resistance. *Arthrobotrys drechsleri* and *dactylella bembicoides* are species of nematophagous fungi found in 38% of the fecal and soil samples screened for larval trapping. *Arthrobotrys drechsleri* produced spores at

47.3 % is faster than the latter at 2 weeks incubation in rice medium. Also, it was able to decrease development of infective larvae in pasture by 72.66% when given as drench consisting of 2.7×10^6 spores per milliliter.

Since ecological and economical means increase productivity are vital to address Gastrointestinal Tract (GIT) parasitic infection in small ruminants in Region 02, recommendation of the use of the nematophagus fungi spore suspension (biodewormer) as alternative parasite control is an innovative and appropriate approach to adapt to the changing environment condition.

Mass production of biodewormer was done at the laboratory for the control of roundworms of small ruminants. Production was accelerated due to many requests from the clients since it was observed that it is effective in controlling roundworms. There were 1,762 animals administered with the Dewormer at 5ml per dose per animal for the period of five (5) days. The Dewormer is now registered at Intellectual Property Office (IPO).

Market Development Services

Market Related Events Funded/Assisted (Local /International Fairs and Exhibits.)

The DA-RFO 02 thru Agribusiness and Marketing Division conducted/participated in one (1) International and three (3) local fairs with 33 farmer groups as exhibitors. A seminar in enterprise development for producers (product packaging and labeling of organic products) was also conducted during the fairs to help the exhibitors in enhancing their products packaged and labeled.

Activity/Venue	Exhibitors/Date
Organic Trading Post Management Training and Bookkeeping cum Market Day	April 2017
Madrid Fusion at SMX Convention, Pasay City	April 6-8, 2017
Organic Trade Fair at CVIAL, Tuguegarao City	DA- STATIONS, ROTC, ATI, PAYOGA MPC, ABRA-SA MPC, LGCIE LUNDUYAN, VIZCAYA FRESH, CAVOFAMCO, PCC, ISU-ECHAGUE, MAKABAGONG GABAY SA KALUSUGAN, SONNY PACUNLA FARM, ISABELA BIOTECH AND AMANCIO DAIRY AND PRODUCE FARM, LGU, DIFFUN, CSU LALLO
Organic Trade Fair/Participation to NOAC, Cagayan de Oro City	Life Giving Center for Integral Evangelization Inc. (LGCIE) LUNDUYAN, October 23-26, 2017



Market Related Events Conducted (Regional Organic Agriculture Congress).

The 2nd Regional Organic Agriculture Congress was conducted last June 27-28, 2017 at Cagayan Valley Integrated Agricultural Laboratory (DA-CVIAL) , Carig Sur, Tuguegarao City, Cagayan. The activity serves as an avenue for organic practitioners in the region to share new trends and technology updates in organic agriculture.



Extension Support, Education and Training Services (ESETS)

Participation to 14th National Organic Agriculture Congress

Participation to 14th National Organic Agriculture Congress held on October 23-26, 2017 at Limketkai Atrium Mall, Cagayan de Oro City.

The highlights of the activity the awarding of Organic Agriculture Achievers Award in which Department of Agriculture Regional Field Office No. 02 (DA- RFO 02) awarded as National Finalist for two (2) categories namely Municipal Organic Agriculture Focal Person in the name of Ms. Victoria Damian of LGU Solano, Nueva Vizcaya and Province of Batanes. Special award was also given to Ms. Marina A. Acebedo, Organic Agriculture, Regional Focal Person.

Trade fairs and exhibit was also conducted hand in hand with congress in which DA-RFO 02 Agribusiness Marketing Assistance Division (AMAD) put up exhibit for DA-RFO 02. Third Party Certified Organic Products were displayed at the booth for promotion purposes.





Technology Demonstration Maintain

There are seven (7) technology demonstration sites maintained situated at the DA Experiment Stations. It serves as learning sites for students, farmers and other organic agriculture stakeholders and enthusiasts. Different technologies related to organic farming are demonstrated for farmers to adopt. Additional Techno-Demo projects were maintained as expansion areas in order to cater the needs of farmers which are more accessible within the locality.

PROJECT TITLE	LOCATION/SITE
Management of Integrated organic Farm Techno-Demo at Nueva Vizcaya Experiment Station	Nueva Vizcaya Experiment Station, Bagabag, Nueva Vizcaya
Integrated Organic Agriculture Production System Demonstration Project	Isabela Experiment Station, Gamu, Isabela
Technology-Demonstration on the Production of Organic Native Goat and Organic Fertilizer in Quirino Experiment Station	Quirino Experiment Station, Aglipay, Quirino.
Organic Crop-Livestock Integrated Demo Farm	Northern Cagayan Experiment Station, Abulug, Cagayan
Mushroom Production Cum Vermicomposting Technology in Support to Biomass Utilization towards Sustainability of Traditional Rice Production	Southern Cagayan Research Center, Iguig, Cagayan
Technology-Demonstration on the Utilization of Organic Fertilizer (Vermi Compost) to Vegetables Cum Dragon Fruit Production	Southern Cagayan Research Center- CBS, Solana, Cagayan
Technology Demonstration Showcase on Organic Bio-Intensive Gardening	Cagayan Valley Research Center, City of Ilagan, Isabela

Regional Organic Agriculture Achievers' Awards

Search for Outstanding Organic Agriculture Stakeholders was conducted to recognize their contribution and unwavering support in the implementation of RA 10068 and achievement of the National Organic Agriculture Program envisioned goals. There were five (5) categories who won in the Regional Search namely:

Category	Awardee	Award (Php)
Organic Agriculture Farming Family	Mr. and Mrs. Protacio D. Lagunday and Family, Villa Coloma, Bagabag, Nueva Vizcaya	50,000 ¹
Farmers' Group	Life Giving Center for Integral Evangelization Incorporated c/o Sister Bernadette T. Dawadeo, 16 Basa Sreet Lunduyan Pastoral Center, Bayombong, Nueva Vizcaya	100,000.00 ²
Provincial Local Government Unit	Batanes Province c/o Gov. Marilou H. Cayco, Basco, Batanes	500,000.00 ²
Provincial Organic Agriculture Focal Person	Engr. Noralyn G. Busa, Office of the Provincial Agriculturist, Bayombong, Nueva Vizcaya	25,000.00 ¹
City/ Municipal Organic Agriculture Focal Person	Ms. Victoria C. Damian, Solano, Nueva Vizcaya	20,000.00 ¹

¹Cash prize + check

²Grant + plaque. Prize is converted into non-monetary award equivalent (Project funding)

Out of the five (5) Regional Awardees, two (2) Categories were shortlisted as finalists at the National Level. The Province of Batanes and the Municipal Organic Agriculture Focal Person, Ms. Victoria Damian was evaluated by the National Organic Agriculture Evaluation Team. Only Four (4) was targeted but Local Government Units (LGU) submitted additional category. Due to available cash award, the LGU's were motivated to submit their nominees for recognition for their exemplary accomplishment.



Agricultural Machinery, Equipment and Facilities Support Services

Provision of Agricultural Equipment and Facilities

Agricultural facilities as well as equipments were distributed to organic farmers to improve productivity and profitability of the farm. As of November 30, 2017 seven (7) units of shredder machine with tea brewer and four (4) units greenhouse were distributed to organic practitioners in the region to produce quality organic fertilizer and to upscale the production of planting materials under greenhouse condition.

Name of Project	Beneficiaries	Location	No. of Units
Provision of seven (7) units-Shredder Machine w/ Tea Brewer	Baggao National Agricultural School	Sta Margarita, Baggao, Cagayan	1
	Claveria Rural & Vocational School	Dibalio, Claveria, Cagayan	1
	LGU Echague	Echague, Isabela	1
	Saint Joseph Parish MPC	Belance, Dupax Del Sur, Nueva Vizcaya	1
	DA-CBS	Maguirig, Solana, Cagayan	1
	PLGU Cagayan	Anquiray, Amulung, Cagayan	1
	DA BES	Basco, Batanes	1
			1
Establishment of four (4) units-Greenhouse	Green Meadow Development Foundation, INC	Sampaguita, Solana, Cagayan	1
	LGU Echague	Echague, Isabela	1
	Abrasa MPC	Andres Bonifacio, Diffun, Quirino	1
	Saint Joseph Parish MPC	Belance, Dupax Del Sur, Nueva Vizcaya	1



marketing support services





Market Development and Promotion

Farmers Market and Brown Rice Day/Agri-kapihan cum Bazaar/ International Food Expo/ AgriLink-AquaLink/Farmer's Market and Brown Rice Day/TienDA/ROAC

- Promotion of agri-fishery products through conduct or participation to trade fair. It is where buyers and sellers meet and involves the display and selling of products.

Market Linkage/Market Matching Facilitation

- Market matching aims to link framers/producers to buyers
 1. Market Linkage/ Matching for Rice were conducted at DA OSAC Training Hall on March 17, 2017 and July 20, 2017; on April 22, 2017 during the conduct of Agri-kapihan cum Bazaar at Quezon City Memorial Circle, Metro Manila and on June 27, 2017 at DA CVIAL Meeting Conference Hall. Farmers/Producers Organization had dialogue with Manila based buyers.
 2. 2nd REGIONAL ORGANIC AGRICULTURE CONGRESS on June 27-28, 2017 at DA-Cagayan Valley Integrated Agricultural Laboratory. Department of Agriculture (DA) Undersecretary for Administration, Agribusiness, and Marketing, and Regional Engagement Bernadette Romulo-Puyat graced the conduct of 2nd Regional Organic Agriculture Congress (ROAC). A total of more or less than 500 participants composed of organic

farmers, exhibitors all over the region, special guests from Region 3 and Region 6, attached government agencies, local and provincial government units, Department of Agriculture (DA) stations, private and non-government agencies participated the activity.

3. Farmers Market and Brown Rice Day conducted on December 6-7, 2017 at DA Gymnasium, San Gabriel, Tuguegarao City, Cagayan. The activity were participated by 22 exhibitors which comprises of farmers organization/cooperative, processors and DA RFO 2 Research Outreach Stations. The cutting of ribbons was spearheaded by the RED Engr. Lorenzo M. Caranguian, RTD Robert Olinares, AMAD Chief Vivien Delos Santos together with officials of Organic and Vegetable Councils in the region. The conduct of Farmers Market Day is in line with USEC. Bernadette Puyat "TienDA" in Metro Manila. RED Caranguian said during his speech that the official launching of Farmers Market Day will be on 2018 and it will be done once a month. Total Sales for the two day Farmers Market: total sales: P95, 611.00
4. Agri-Aqua Trade Fair in Region 02 June 6-8, 2017 at DA NCES, Abulug, Cagayan. This activity was done simultaneously with the Palay Festival 2017 sa Rehiyon Dos at DA-Northern Cagayan Experiment Station, wherein different varieties of rice, rice mechanization and vegetable technologies were showcased. During the event, about 1,000 visitors daily comprises of farmers, LGU Representatives, teachers and students from different schools, and other agricultural stakeholders' regionwide participated. During the fair, a total of PhP 533,860.00 worth of sales and PhP 1,683,425.5 worth of book orders were recorded.
5. TienDA Farmers and Fisherfolk Market Outlet is organized by Secretary Emanuel Piñol together with USEC Bernadette Puyat and ASEC. Leandro Gazmin. TienDA was launched last July 28-30, 2017 at BPI Compound, Malate, Manila. Senator Loren Legarda was the Guest Speaker wherein she congratulates the department for launching such event in the city of Manila to help farmers in selling their produce and consumers to buy agricultural commodities at farmgate prices. Agri-commodities brought to TienDA by region 2 exhibitors are lowland vegetables, upland vegetables, fruits and grains. TienDA was done twice a month after the launching in different strategic areas in Metro Manila. Total Sales for TienDA



6. AGRILINK/ FOODLINK/ AQUALINK 2017 was conducted October 5-7, 2017 at World Trade Center, G. Puyat Venue Extension corner D. Macapagal Blvd., Pasay City. This year's theme "Improved Varieties and Postharvest Facilities: Essential to Profitability" showcase the latest farm inputs and equipment, products and systems for farm use, processing facilities designed to increase cost efficiency in the agribusiness industry. The DA-RFO 02 has two booths, one in the central setting wherein different products from the Region was showcased, for the processed products FDA Certification is required while on the fresh produced it must be GAP Certified or organically grown. The products displayed were colored rice, purple corn, Satsuma, mungbean, gabi, carrots, beans, yellow ginger, peanut, squash, chicharabao, chicharica, bugnay and calamansi concentrate, coconut vinegar, calamansi juice. Another booth is in the retail area, there are two exhibitors from the region, RLGV Fruit Wine and Vizcaya Fresh from Alicia, Isabela and Bayombong, Nueva Vizcaya, respectively. In the three day event RLGV fruit wine total sales P 58,500.00 while Vizcaya Fresh total sales was P 11,936.00, aggregate sale P70,436.00.

Agribusiness Promotion and Development

Farm Business School

- The aim of the Farm Business School is to build farmers' capacity in entrepreneurial and management skills. It enables farmers to learn and improve their knowledge, change their attitudes and enhance their skills toward improved farm commercialization while working on their own farm.
 1. Farm Business School was conducted last March 27-31, 2017 at ATI, Cabagan, Isabela. A total of 60 farmers from 3 municipalities (Roxas, Mallig & Quezon) participated. These farmers received starter kit compose of vegetable seedlings, fertilizers, water hose and plastic crates for their farm activities.

Investment Forum

- Provides information on agribusiness/investment opportunities through conduct of investment forum. It aims to increase awareness of existing or potential investors in priority areas of investment in order to generate business interest or investment leads
 1. 1st Regional Business Forum and Matching for Coffee was conducted on July 18-19, 2017 at DA CVRC, San Felipe, City of Ilagan, Isabela. There are 150 coffee stakeholders and agency enablers which include farmers, cooperatives, businesspersons, academicians and other individuals and groups in Region 02 were convene in the said forum. One of the highlight of the forum is the creation of Coffee Industry Council.
 2. National Investment Focal Person Meeting & Workshop activity conducted last February 27 – March 3, 2017 at DA – Cagayan Valley Food Technology Development & Incubation Center, Carig Sur, Tug. City. It was participated by DA-AMAS and DA-AMAD nationwide. The said meeting/workshop was conducted to plan and discuss the different investment activities for national and regional for the year 2017.
 3. Regional Investment Forum & Matching for Highland & Lowland Vegetable last March 1-2, 2017 at DA RFO No. 02 – Gymnasium, San Gabriel, Tuguegarao City, Cagayan. The highlight of the activity is the creation of the Regional Vegetable Council.

Commodity Investment and Packaging

- Package investment proposal on priority agri-commodities for investment promotion to possible investors
 1. Commodity Investment Profile and Packaging together with CEZA, BFAR and PLGUs personnel on August 2-4, 2017 at DA CVRC, San Felipe, City of Ilagan, Isabela. The workshop aims to packaged potential investments in region 2.

Training and Business Plan Preparation

- Enhance the knowledge of farmer organizations on the preparation of business plan in their selected line of business
 1. Trainers Training on Business Plan Preparation for HVCDP beneficiaries was conducted last March 20-24, 2017 at DA – CVRC, San Felipe, City of Ilagan, Isabela. The activity aims to packaged business plans for the group beneficiaries under HVCP.

Agribusiness Industry Support and Development

Creation of Industry Council (per commodity)

- The councils were created/organized to act as partners of the Department in formulating plans for agriculture development
 1. 1st Cagayan Valley Business Forum and Matching for Citrus September 7-8, 2017 at DA-RFO 02 Gymnasium, San Gabriel, Tuguegarao City, Cagayan. Part of the forum was the creation of the Cagayan Valley Citrus Council. There were eight entrepreneurs (group/individual/processors/growers) participate as exhibitor. Different products and by-products of citrus were displayed for sale. And as whole, there were at least 180 citrus stakeholders attended including government representatives.
 2. Cagayan Valley Citrus Industry Development Council Meeting/Workshop conducted last December 7, 2017 wherein the discussion on the organizational matter was presided by Ms. Josephine Namujhe, Cagayan Valley Citrus Industry Development Council chairperson. The said meeting/workshop outcome is the main function of the council, line up of activities for 2018 and their plan to register the council under Securities and Exchange Commission (SEC).



Orientation on Food Safety and FDA Requirements and Processes

- The orientation was conducted to ensure that agri-processors products are align with the Food Safety Act requirements and it will not cause harm to the consumer when it is prepared or eaten according to its intended use.
 1. Orientation Food Safety and FDA Requirements and Processes conducted last June 22, 2017 at DA-CVIAL, Regional Government Center, Carig Sur, Tuguegarao City, Cagayan. The orientation was participated by a total of 102, which comprises of seven (7) Agri – Food Processors from Cagayan, 9 from Isabela, 5 from Quirino and 11 from Nueva Vizcaya. The Provincial and Municipal Local Government Units (P/MLGUs) are also present during the orientation. Ms. Consuelo R. Ricablanca, FDRO II from Food and Drugs Administration (FDA) discussed the Food Safety Act and FDA requirements and processes in getting License to Operate number (LTO). Meanwhile, Mr. Samuel Arquero, owner of MidEast Sweets shared his experience in managing his business and benefits of being registered to HALAL which opens and widens their opportunity not only in local but in international markets. Out of the 32 Agri – Food Processors, 21 are requesting and willing to undergo seminar regarding Good Manufacturing Practices (GMP) and Hazard Analysis and Critical Control Point (HACCP).
 2. Orientation on PUNLA/PLEA on July 12 and 13, 2017 in the province of Isabela. It was attended by 64 Organizations, 30 Municipal Agriculturist and/or representative, Assistant Provincial Agriculturist and staff; BRO Head and staff; PCIC Representative, DA AMAD Chief and staff and Agricultural Credit Policy Program and staff. The orientation is a follow-thru activity after Secretary Emmanuel Piñol announced the inclusion of Isabela as one of the pilot area in the Production Loan Easy Access (PLEA). The ACPC discussed the implementing guidelines of the program and duties and responsibilities of the parties.



research & development
support services



Implementation of Agriculture Research & Development Activities/Various Support Services

One of the major source of Research Fund is the implementation of Agriculture Research & Development a+ctivities formerly the Various R&D Support Services Budget. The budget for CY 2017 was P2, 733,000.00 allocated for the conduct of R&D, conduct of techno forum and maintenance of R&D Facilities.

Under the conduct of R&D, seven (7) projects were implemented: two (2) researches were focused on corn and five (5) under the Livestock Research.

Research Title	Imple- menting Agency	Funding Agency	Proponent	Brief Description
Corn R&D				
1. Fertilization and Soil Amelioration with Gypsum (Calcium Sulfate) and Potassium Nitrate; An Integrated Nutrient Management Approach to Corn Growing Areas of Region 02	DA RFO 02-CVRC	DA RFO 02 VSS	S. Tumamang/ R. Gulatera	Evaluate the efficacy of gypsum as soil ameliorant in increasing corn yield in region 02
2. Verification Trial on Rapid Multiplication of Cassava in Region 02	DA RFO 2 – QES	DA RFO 02 VSS	Rolando Pedro et.al.	Verification on the adaptability of rapid multiplication technologies to increase cassava production efficiency
Livestock R&D				
1. Effect of Tannin-Rich Forage in the Control of Nematode Parasite Infection in Goat	DA RFO 02-CBS	DA RFO 02 VSS	Charity Ver-soza	Determine the effect of different forages (ipil-ipil, kakawate, etc.) against parasite infection in goat.
2. Effect of Base Material & Additives on the Nutrient Content of Silage	DA-RFO 02-IES	DA RFO 02 VSS	Anita Asuncion	Identification of base material-additive combination that could approximate the nutrient content of silage.
3. Molecular Epidemiology of Emerging Infectious Animal Diseases in Region 02	DA-RFO 02-RADDL	DA RFO 02 VSS	Gerly Zulueta	Determine the epidemiology of diseases that causes mortalities to animals
4. Effect of probiotic supplementation on the pre-weaning performance of lambs in Region 02	DA-RFO 02-IES	DA RFO 02 VSS	Anita Asuncion	The project aims to determine the performance of pre-weaned lambs administered with probiotics
5. Assessment on the Performance of Artificial Insemination in Cattle in Region 02	DA-RFO 02-Research Division	DA RFO 02 VSS	Ariel Olarde	It aims to assess the effectiveness of artificial insemination in livestock production in Region 02

Furthermore, to facilitate the promotion of generated technologies, technology fora were conducted during the Farm Festival at Southern Cagayan Research Center (SCRC) and Pa-lay Festival 2017 at Northern Cagayan Experiment Station (NCES). There were also Agricultural Information and Technology Fora conducted in Cagayan and Quirino. These activities were conducted in collaboration with the Regional Agriculture and Fisheries Information Section (RAFIS). Topics discussed during the fora were technologies on rice, corn, high value crops and livestock.

The three (3) research facilities maintained were the establishment of nurseries for for-age, vegetables and plantation crops. These were established in Isabela Experiment Station (IES), Southern Cagayan Research Center-Cagayan Breeding Station (SCRC-CBS), and Quirino Experiment Station (QES), respectively.





farm-to-market road project



Farm-to-Market Road/Bridges Development Project

The Department of Agriculture released the FY 2014, 2015, 2016, 2017 and 2018 GAA to DPWH amounting to Five Hundred Sixty Eight Million Five Hundred Thousand Pesos (P568,500,000.00), Three Hundred Ninety Million Pesos (P390,000,000.00), Four Hundred Seventy Million Pesos (P470,000,000.00), Five Hundred Forty-Five Million Pesos (P545,000,000.00) and Five Hundred Twenty-Two Million (P522,000,000.00) respectively for the Farm-to-Market Road/ Bridges Development Program intended for the improvement/rehabilitation of priority Farm to Market Road projects identified by Farmer's Association and Local Government Units (LGUs) validated by DA- RAED staff following the Philippine Agricultural Engineering Standards (PAES).

The Department of Agriculture-Regional Field Office No. 2 is responsible in the Review of plans, design and cost estimates of proposed Farm to Market Road (FTMR) and Farm Bridges, Site Validation, Road Tracking and GeoTagging and supervision/monitoring of projects implementation.

A total of 76.94 kilometres or 102 projects/sites are targeted regionwide for FY 2014, 51.966 kilometres (120 projects/sites) for FY 2015, 59.325 kilometres (117 projects/sites) for FY 2016, 64.933 kilometres (150 projects/sites) for CY 2017 and 52.200 kilometres (94 projects/sites) for CY 2018 to be improved and rehabilitated and will benefit more or less 234,410 farmers. For FY 2014, 102 projects/sites are all completed, for FY- 2015 120 projects/sites were 51.746 or 99.58% ongoing/completed, for FY 2016 projects/sites were 58.007 km or 97.78% , for FY- 2017 out of the project total target, a total of 56.397 km or 87% has been constructed/completed and FY-2018 , it consists of 94 projects/sites distributed to the different Provinces, 5 projects from Batanes, 20 from Cagayan, 37 from Isabela, 12 from Nueva Vizcaya and 20 from Quirino all projects are ongoing pre-construction activity. Various issues and constraints were experienced during the implementation of the projects and to name a few, these were: 1) Inadequate construction materials to be sourced out in the locality (Batanes), 2) Un-predicted weather condition that cause project site not accessible/workable and 3) Presence of Right-of-Way problems (ROW).



philippine rural development project

IPLAN Component

1. Value Chain Analysis (VCA)

The Regional Project Coordinating Office No. 02 – IPLAN Component of the Philippine Rural Development Project had prepared eleven (11) Value Chain Analyses (VCAs) for Cagayan Valley that include Dairy, Upland rice, Organic Garlic, White corn, Seaweeds (*Gracilaria* spp.), Pineapple, Mandarin, Onion, Coffee, Banana and Rice. The Upland Rice, Dairy and Mandarin were approved by the National Project Coordination Office (NPCO) last September 21, 2016, March 6, 2017 and July 14, 2017 respectively, and the Onion was approved as a cluster-wide VCA wherein the Region 02 report was subsumed.

The Coffee and Banana VCA were endorsed to the Project Support Office-Luzon A Cluster and National Project Coordination Office for further review and approval.

For Pineapple VCA, a Regional Stakeholders' Consultation was conducted last February 28, 2017 for finalization. It was endorsed to PSO/NPCO last April 27, 2017 and after a thorough review by the NPCO, the said VCA report was revised and re-endorsed to NPCO for approval.

A Regional Stakeholders' Consultation was also conducted for White Corn last March 7, 2017 as well, to update the data, constraints, opportunities and interventions in the VCA report in compliance with the comments and recommendations from NPCO.

The Seaweeds (*Gracilaria* spp) and Organic Garlic VCAs were also re-endorsed to NPCO after the compliance were completed. The RPCO2-IPLAN Staff conducted the formulation of the Regional Rice VCA which started last May 2017 and as of December 31, 2017, the said report was at its finalization stage of the initial draft report.





2. Provincial/City Commodity Investment Plan (P/CCIP)

Cagayan Valley Region (Region II) has five (5) Provincial Commodity Investment Plans already approved by their corresponding Sangguniang Panlalawigan (SP) and/or their Provincial Development Council (PDC). An independent chartered City, Santiago City in Isabela had also crafted its own City Commodity Investment Plan (CCIP) and was approved by its City Development Council & Sangguniang Panlungsod. These five provinces and city had adopted their own commodity/ies shown in the table below. The said provinces are likewise updated and enhanced their P/CCIPs.

Province/ City	Commodity	For Updating/ Inclusion
BATANES	Organic Garlic	Beef Cattle, Sweet Potato
CAGAYAN	Dairy, Carabao Mango	Peanut, Rice, Corn, Cacao and Pineapple
ISABELA	Dairy, Mungbean, Tilapia and Aromatic/Pigmented Rice	White Corn, Pineapple, Mango and Seaweeds
NUEVA VIZCAYA	Onion, Mandarin, Tomato	Pineapple, Coffee, Corn
QUIRINO	Coffee, Banana Chips	Dairy, Aromatic/Pigmented Rice, Beef Cattle and Ube
SANTIAGO CITY	Peanut, Mungbean, Carabao Mango and Beef Cattle.	Tilapia, Muscovado

These Commodity Investment Plans were crafted through the RPCO2 IPLAN initiative.

During the workshop, the PCPT solicited the commitments of concerned entities/agencies and institutions for funding commitments of the other interventions under their concern for the upgrading of the commodity value chains.

3. Harmonization of Plans & Processes & other Activities of IPLAN

For the mainstreaming of PCIPs to the PLGU plans, RPCO2 IPLAN initiated a conference with NEDA, DILG, PLGU-PPDC, DPWH, DTI, DOT, DOST, DENR, DAR and other DA-attached agencies in Region II to discuss the strategies on how to mainstream or incorporate the PCIP to regional and provincial plans. It was agreed that other projects/interventions identified in the PCIP which are concerns of other National Government Agencies (NGA) like DTI, DOST and the like, must be adopted/integrated in the Annual Investment Plans of respective NGAs through the endorsement of the Regional Development Council (RDC).

Activities on harmonization of planning processes between DA-Regular (PMED) and the PRDP (IPLAN), was undertaken the PMED of DA-RFO2 prepared its Regional Development Plan for 2017-2023 and preliminary activity for the RDP, the Commodity Roadmaps covering banner programs were updated wherein the Value Chain Analyses reports and PCIPs are the main references.

For the engagement with Batanes, which is PRDP unfunded province, the IPLAN Component together with Regional Core Planning Team (RCPT) spearheaded the conduct of re-organization and orientation for the new Local Chief Executives (LCEs) of Batanes and assisted them in the prioritization of IBUILD and IREAP subprojects and site validation last January 23-27, 2017.

On September 26-28, 2017, the NPCO-PSO-RPCO2 IPLAN and M&E Unit spearheaded the conduct of Assessment on the Institutionalization of Commodity Investment Plan (CIP) at the Local Government Unit (LGU) in the province of Batanes. As the PRDP reached its 3rd year of implementation, the assessment was conducted to determine the effectiveness and usefulness of the CIP in Batanes as a planning tool in creating investments and opportunities on agri and fishery sectors and evaluate the impact of CIP in the LGU development process. As a result of the assessment, it was shown that the CIP of Batanes was not fully utilized because of some hindering factors and challenges that needs to be addressed. But despite of the issues that impeding on the utilization of the CIP, a strong collaboration and active participation of the other agencies in the formulation of the PCIP was given a big influence in the development of the economy of the province.

The DA-Region II Regional Management Committee (DA-RMC2) were re-oriented regarding PRDP and its project updates last April 21, 2017 during their business meeting.

On the last quarter of 2017, to support the formulation of the Agriculture and Fisheries Modernization Plan (AFMP) 2018-2023, the RPCO2-IPLAN Component and DA-RFO2 PMED spearheaded the Orientation/ Consultation Workshop on the Regional Agriculture and Fisheries Modernization Plan (RAFMP) 2018-2023 cum Appreciation Course on Vulnerability and Suitability Assessment (VSA), Expanded- Vulnerability and Suitability Analysis (E-VSA), Value Chain Analysis (VCA) and the Provincial Commodity Investment Plan (PCIP) on the five (5) provinces and city of Region II. The activity was to capacitate every Provincial/City/Municipal Agriculturist, Planning Coordinators and other Technical Staff on the Local Government Units (LGUs) on the PRDP Planning tools for the harmonization of Plans and Budget Processes in the agricultural sector.



IREAP Component

1. Enterprise Prioritization and Business Modelling Workshop

The Provincial/ City/ Municipal Project Management and Implementing Unit assisted by Regional Project Coordination Office identifies and prioritize enterprises. The product segment/ enterprise was assessed and prioritized based on the following criteria: a. Importance of the product segment enterprise in the local economy, Market Potential, Resource Base, Environmental Impact and Women's participation.

I-REAP Component had conducted five (5) workshops on Enterprise Prioritization (EP). EP for rice was conducted last April 5, 2017 for the Province of Cagayan. Priority enterprise was Rice Processing and Marketing Enterprise; For the Province Isabela, EP for Tilapia and White corn was conducted last August 10, 2017. Priority enterprises were Tilapia Production & Marketing Enterprise and Fingerling Production & Marketing Enterprise, White corn Production & Marketing Enterprise and White corn Processing & Marketing Enterprise, respectively. In addition, EP for Upland rice/Pigmented Rice was conducted last August 18, 2017. Priority enterprise was Aromatic/Pigmented Rice Production and Marketing Enterprise; EP for Mungbean for the City of Santiago was conducted last August 11, 2017. Priority enterprises were Mungbean Seed Production & Marketing Enterprise and Mungbean Production & Marketing Enterprise; EP for Tomato for the Province of Nueva Vizcaya was conducted last August 24, 2017. Priority enterprise was Tomato Processing & Marketing Enterprise.

After the product segment was selected, the P/C/MPMIU assisted by RPCO formulated a business model which is one of the pre-implementation process that a particular enterprise undergoes before it can be issued with a No Objection Letter (NOL) from World Bank, the National Project Coordination Office (NPCO) or Project Support Office (PSO). This process is being done to ensure that farmers belonging to be a particular industry will be benefit from the proposed enterprise. A total of three Business Modeling (BM) workshops were conducted: August 22, 2017 for Mungbean Seed Production & Marketing Enterprise and Mungbean Production & Marketing Enterprise; August 23, 2017 for Tilapia Production & Marketing Enterprise, Fingerlings Production & Marketing Enterprise, White corn Production & Marketing Enterprise, White corn Processing Marketing Enterprise and Aromatic/Pigmented Rice Production and Marketing Enterprise; August 25, 2017 for Tomato Processing & Marketing Enterprise.

2. Proponent Group Selection and Validation

One of the major activities under the Philippine Rural Development Project–Enterprise Development are the Proponent Group Selection and Validation that will implement the proposed enterprise.

Proponent Group Selection for Mungbean Seed Production & Marketing Enterprise and Mungbean Processing & Marketing Enterprise for the Province of Isabela was conducted last March 14-15, 2017. PG Selection for Mungbean Production & Marketing Enterprise and Mungbean Seed Production & Marketing Enterprise for the City of Santiago was conducted last August 23, 2017. Moreover, PG Selection for Aromatic/Pigmented Rice Production & Marketing Enterprise, Tilapia Production & Marketing Enterprise, Fingerling Production & Marketing Enterprise, White corn Production & Marketing Enterprise and White corn Processing & Marketing Enterprise for Isabela was conducted last August 24-25, 2017.

Proponent Group Selected were as follows:

1. Mungbean Processing & Marketing Enterprise - San Mateo RIC Federation.
2. Mungbean Seed Production & Marketing Enterprise – Cabatuan Savings and Development Cooperative.
3. Mungbean Production & Marketing Enterprise – Farmers Council Irrigators Association, Inc. Santiago City .
4. Mungbean Seed Production & Marketing Enterprise – G10 Council of Irrigators Association.
5. Aromatic/Pigmented Rice Production and Marketing Enterprise - Isabela Grains Production and Marketing Cooperative, Rizal Roxas, Isabela.
6. Tilapia Grow out Production and Marketing Ent. - Ramcor Farmers multi-Purpose Cooperative (RAMFARMCO), Planas Ramon, Isabela.
7. Fingerling Production and Marketing - Cagayan Valley Fish Farmers Multi-purpose Cooperative, Salinungan West San Mateo, Isabela.
8. White corn Production & Marketing Enterprise – Asosasyon ng mga AMA ng Siyudad ng Isabela, Ilagan City, Isabela .
9. White corn Processing & Marketing Enterprise – Cabisera 18 Farmers Credit Cooperative, Ilagan City, Isabela.

After selection of PGs, field validation was conducted prior packaging of the Business Plan for the enterprise.

Through the leadership of the I-REAP staff from Project Support Office (PSO), Regional Project Coordination Office (RPCO) had conducted Proponent Group (PG) Validation last April 5-7, 2017 for the PG of Mungbean processing and Marketing Enterprise and Mungbean production and Marketing Enterprise in San Mateo RIC, Cabatuan and Luna, Isabela, respectively. Proponent from the result and validation, Cabatuan Savings and Development Cooperative were found eligible for the project Mungbean Seed Production and Marketing Enterprise. Also, area of mungbean production were visited and validated. PSO required the PG to submit their Farmers Profile and Board Resolution for the establishment of the warehouse.



Also, another validation was conducted last August 30-31, 2017 for the PG of the following I-REAP Subprojects:

Sub-Projects	Province	Proponent Group	Result
White Corn Processing and Marketing Enterprise	Isabela	Cabisera 18 Farmers Credit Cooperative	Confirmation from PSO will be sent upon compliance of lacking documents. And can undergo up to 3 million (micro-enterprise)
White Corn Production and Marketing Enterprise	Isabela	Asosasyon ng mga AMA Siyudad ng Ilagan (AMA-SILA) Inc.	Confirmation from PSO will be sent upon compliance of lacking documents. And can undergo up to 3 million (micro-enterprise)
Aromatic/Pigmented Rice Production and Marketing Enterprise	Isabela	Isabela Grains Production and Marketing Cooperative	Already confirmed by PSO to undergo Business Planning. And can undergo up to 15 million (small enterprise)
Tilapia Grow out Production and Marketing Enterprise	Isabela	Ramcor Farmers Multi-Purpose Cooperative (RAMFARMCO)	Already confirmed by PSO to undergo Business Planning. And can undergo up to 50 million (medium enterprise)
Fingerling Production and Marketing	Isabela	Cagayan Valley Fish Farmers Multi-purpose Cooperative	
Mungbean Production and Marketing Enterprise	Isabela	Farmers Council, Irrigators Association, Inc.	Already confirmed by PSO to undergo Business Planning. And can undergo up to 15 million (small enterprise)
Mungbean Seed Production and Marketing Enterprise	Santiago City	G10 Council, Irrigators Association, Inc.	
Organic Fertilizer Production and Marketing Enterprise	Santiago City	United-bangspavilca Council, Irrigators Association, Inc.	Confirmation from PSO will be sent upon compliance of lacking documents. And can undergo up to 15 million (small enterprise)

Out of eight (8) enterprises, only five (5) enterprises were confirmed by the Project Support Office (PSO) to proceed in business planning preparation.

3. Business Planning and Coaching

A four (4) day activity participated and attended by the different components and unit staff from RPCO, P/CPMIU and Technical expert of tilapia, aromatic rice and mungbean; and five Proponent Groups from Isabela and Santiago City. The activity aims to package a Business Plan of the proposed enterprises for the I-REAP Component subprojects for 2017.

The RPCO assisted the following Proponent Groups:

- Farmers Council IA – Mungbean Production and Marketing Enterprise
- G10 Council IA – Mungbean Seed Production and Marketing Enterprise
- Ramon Farmers Production and Marketing Cooperative – Tilapia Grow out Production and Marketing Enterprise
- Cagayan Valley Fish Farmers Cooperative – Fingerlings Production and Marketing Enterprise
- Isabela Grain MPC – Aromatic/ Pigmented Production and Marketing Enterprise



4. Business Plan Pre-technical Review

The four (4) day activity was participated and attended by the different components and unit staff from RPCO, P/CPMIU and Technical expert of tilapia, aromatic rice and mungbean; and the 3 Proponent Groups from Isabela and Santiago City. The activity aims to polish the business plans of the PGs which will be scheduled for RPAB. Likewise, procurement, finance, GGU, I BUILD, I REAP and I PLAN components from NPCO PSO and RPCO reviewed the Business Plans, including attachments.

The following Business Plans were presented and evaluated by the Joint Panel.

- Mungbean Production and Marketing Enterprise of Farmers Council IA
- Mungbean Seed Production and Marketing Enterprise of G10 Council IA
- Tilapia Production and Marketing Enterprise of Ramon Farmers Multi-Purpose Cooperative.

In the last day, there were agreements/ timelines given to the RPCO, P/CPMIU and PG before scheduling of RPAB

5. Joint NPCO-PSO-RPCO Business Plan Technical Review

The four (4) day activity was participated and attended by the different components and unit staff from RPCO, P/CPMIU and Technical expert of tilapia, aromatic rice and mungbean; and the 3 Proponent Groups from Isabela and Santiago City. The activity aims to polish the business plans of the PGs which will be scheduled for RPAB. Likewise, procurement, finance, GGU, I BUILD, I REAP and I PLAN components from NPCO PSO and RPCO reviewed the Business Plans, including attachments.

Venue of the Activity: Ivory Hotel, Tuguegarao City.

The following Business Plans were presented and evaluated by the Joint Panel.

- Mungbean Production and Marketing Enterprise of Farmers Council IA
- Mungbean Seed Production and Marketing Enterprise of G10 Council IA
- Tilapia Production and Marketing Enterprise of Ramon Farmers Multi-Purpose Cooperative.

6. Monitoring of I-REAP SPs and SLPs

A monthly Enterprise Operation Monitoring conducted to the approved regular subprojects and approved Small Livelihood Project (SLPs).

The group monitored the enterprise operations of I-REAP regular subprojects (SPs) and followed up compliances of SLPs in the Province of Quirino last February 2-3, 2017. For regular Subprojects: Quirino Banana Enterprise and Quirino Coffee Enterprise, the procurement unit already conducted pre-procurement conference on February 2, 2017 and bid opening scheduled on March 9, 2017. For SLPs, IMA and Schedules 1-10 of St. Joseph and SCUFA is for signature of Governor. Likewise, for Tres Reyes and Villa Pascua documents requesting for the release of funds were on process. PPMIU committed to submit all documents on February 17, 2017.

Another monitoring in the Province of Quirino was conducted last March 10, 2017. For the Regular SPs: Quirino Coffee Enterprise - on going operation of for the processing of brewed coffee. A total of 157 packs @ 180 gms is ready for sale. However, Quirino Banana Enterprise didn't operate for three months (January-March) due to the effect of cold spell in their bananas.

8. Training on the Creation of Enterprise Operations Manual

The I-REAP Small Livelihood Projects (SLPs) with NOL 1 were conducted at Ivory Hotel Buntun Highway, Tuguegarao City, Cagayan last December 6-7, 2017 (1st batch) and December 19-20, 2017 (2nd batch). The objective of the activity is to develop enterprise operations manual and enhance the management capability of the participating cooperatives and associations. Participants during the first (1st) batch was the 8 SLPs from Cagayan namely: Paddaya Dodan IA of Aparri, Cagayan; Dungul Gulasing IA of Sta. Teresita, Cagayan; Bacring SWIP IA of Amulung, Cagayan; Solana West Farmers Coop, Gadu RIC MPC, Kaparyaan Divert DAM IA, Cagayan Seed Producers MPC and Sampaguita Farmers Marketing Coop of Solana, Cagayan. Moreover, participants during the second (2nd) batch was the 8 SLPs from Isabela and Quirino namely: Jupiter IA, Minante Farmers Coop, Timek iti Mannalón IA, Faustino IA and New Life IA of Cauayan City, Isabela; North Siffu MPC and Roxas Hybrid Seed Growers MPC of Roxas, Isabela; and St. Joseph Pedlisan MPC of Quirino. The activity were actively participated by the Chairman and President of each Proponent Groups together with the P/MPMIU I-REAP staff of each LGU's.

9. Training on Good Agricultural Practices (GAP) for Mungbean and Peanut cum Seed Growers Accreditation & Certification

The activity conducted on July 11-14, 2017 at Cabatuan Isabela. Two batches (50 farmers/batch) of training were conducted for the mungbean farmer members of Flow of Pari-ir Agriculture Cooperative. Likewise, same training were conducted on July 18-21 and July 25-26, 2017 at Wilmer's Resort and Hotel, Santiago City. Two batches (50 farmers/batch) of training were conducted for the mungbean farmer's members of Farmers Council of IA, Group of 10 and UBANGS. Two batches (50 farmers/batch) of training were conducted for the peanut farmer's members of Santiago City Peanut Growers Association (SCPGA). The training aims to enhance the participants' knowledge, skills and orientations necessary for quality peanut and mungbean seed production. And to produce a trained and accredited Peanut and Mungbean Seed Producers for Isabela and Santiago City.



10. Small Livelihood Sub-projects

A total of 37 Proponent Groups, 13 Proponent Group in Cagayan, 20 in Isabela and 4 in Quirino Province were awarded with 4-wheel drive tractor with accessories under the Small Livelihood Program (SLP) of the Philippine Rural Development Project (PRDP). Recipients received one unit tractor with complete accessories (rotavator, cage roller and trailer).

11. A Joint Field visit between PSO and RCPO Representatives to on-going I-REAP Sub-projects in the province A JOINT FIELD VISIT BETWEEN PSO AND RPCO REPRESENTATIVES TO ON-GOING I-REAP SUBPROJECTS were conducted last October 18-19, 2017.

The Quirino Coffee Enterprise of Mataga-ay Coffee Growers Producers Cooperative in Jose Ancheta, Maddela, Quirino were the first PG visited. Currently, the cooperative has 166 members with a total coffee production area of 616 hectares. Its expected volume of production by February to April is 30,000 kilograms. Only 40% of members' produce was absorbed/procured by the cooperative during the last harvest season due to financial constraints. The cooperative has an outstanding loan from the Provincial Government of Quirino (PGQ) amounting to P400,000.00 as trading capital for their piloting activity. They can avail higher amount from PGQ upon liquidation of their previous loan. About 20 hectares of their members' production area are being enrolled for organic coffee production and certification by FDA. The PG also requested for the inclusion of a 5-km FMR within their production area.

Likewise, the Quirino Banana Enterprise of Cofcaville Banana Farmers Producers Cooperative (CoBaFPCo) in Cofcaville, Maddela, Quirino was recently reorganized to strengthen their operation. It has 36 total members and is expected to increase by the first quarter of 2018 upon implementation of their planned merging with Cofcaville Upland Farmers Association (CUFA), a Muscovado processor within the locality. CUFA has 100 current members. To date, CoBaFPCo occupies their temporary office within the CUFA-owned building. The cooperative currently processes at least 200 kgs of fresh bananas per day, with 2 processing days per week. DENR and ISU-Echague, Isabela have awarded mahogany, gmelina and fruit bearing trees to least 6 members of the cooperative to serve as windbreaks for their banana plantation. The cooperative has a current loan application to PGQ amounting to P400,000.00.

13. NPCO PSO RPCO PPMIU and Management Staff of San Agustin Development Cooperative (SaDaCo) Meeting re 3.2 subcomponent proposal

The meeting was conducted last October 17, 2017 at DA – OSAC Conference Hall, Carig Sur, Tuguegarao City. The meeting was participated by the I-REAP staff from NPCO, PSO and RPCO, Magnolia and San Agustin Dairy Cooperative (SADaCo). Dairy Carabao Enterprise of San Agustin Dairy Cooperative (SADaCo), San Agustin, Isabela is one of the 2015 proposed subproject under the Philippine Rural Development Project – Enterprise Development Component (PRDP I-REAP).

The Philippine Carabao Center (PCC) had linked the group with Magnolia Incorporated as one of their market outlet for raw milk. However, for SaDaCo to be qualified as a supplier of Magnolia, the Proponent Group (PG) is required by the Company to have a Microbiological Equipment to ensure quality of their raw milk. During the meeting, it was found out that the PG also needs a Microbial Testing Lab for the Dairy Milk, and there are concern-parties that needs to be involved before the proposal will be packaged.



IBUILD Component

Among the components of PRDP, the I-Build shares the biggest chunk of the project's budget allotment. In 2017, there are 22 approved I-Build Sub-projects with a total cost of P1,257,142,309.16. This component is expected to establish a network of strategic rural infrastructure linking priority value chains in targeted project areas that are identified through the regional AFMPs. These infrastructure projects include Farm-to-Market Roads (FMRs), Bridges, Communal Irrigation Systems (CIS), Small Water Impounding Projects (SWIP), Portable Water Systems (PWS), production and post-production facilities and other support infrastructure such as fish landings, fish sanctuary/protected area guardhouses and others.

From the approved I-Build Projects for CY 2017, six (6) subprojects are 100% completed, three (3) FMRs from the province of Quirino, two (2) FMRs and Infrastructure Support from Isabela. There are seven (7) FMRs on-going construction from the province of Cagayan (3), Isabela (2) and Quirino (2). Four SWIPs are on-going from the province of Isabela, the only province from Luzon A Cluster with approved SWIP sub-projects. There are three (3) with NOL2 sub-projects in the province of Isabela. Out of the proposed sub-projects from 2015 and 2016, six (6) sub-projects were issued NOL1 from the province of Isabela with a cost of P101,556,000 that includes, FMR, SWIPs, CIS and Diversion Dam for the year reported.

A total of eight (8) sub-projects were endorsed by RPAB-2 to PSO for review and issuance of NOL1. These sub-projects consist of four (4) FMRs (Isabela-3 and Cagayan-1) and four (4) CIS from Isabela.

ISUPPORT Component

The Social and Environmental Safeguards (SES) is one of the program support unit of the PRDP to ensure the sub-projects to be implemented are not only technically, economically and financially viable, but are also environmentally and socially sound and sustainable. Pursuant to this mandate, the SES Unit undertook or initiated a number of activities during the year under review.

To ensure the inclusion of social and environmental considerations and safeguards in the planning, design and implementation of all sub-projects, the SES staff actively participated in six (6) business planning and joint technical review sessions apart from the three (3) coaching sessions conducted for the staff of participating municipal LGUs. In the In-house coaching sessions, emphasis was on the compliance to required content of the discussions on social and environmental analysis portions of Business Plans (BP) for I-REAP as well as Feasibility Studies (FS) for infrastructure of I-Build sub-project proposals. Additionally, SES monitored compliance of the participating LGUs to the documentary requirements that form part of the Annexes to the BP and FS.

A total of 24 I-BUILD and four (4) I-REAP sub-projects proposals were validated during the year. The initial validation determines the eligibility of the sub-project proposal for consideration under the PRDP financing.

Compliance monitoring activities focused on a total of 45 sub-project proposal in various stage of implementation, i.e. Awaiting issuance of NOL 1 or 2, On-going, Sustainability Completed, Completed.

Cognizant of the training needs of the PRDP hired staff, the SES Unit initiated two (2) trainings: the "Seminar on Code of Conduct and Ethical Standards for Government Workers" which was designed to engender professionalism and desirable work ethics among the hired staff; and the "Seminar on Adoption of Climate-Smart Strategies for PRDP Sub-Projects" which tackled the impact and the mitigation of climate-related issues confronting project implementation.



bottom-up budgeting project



BOTTOM-UP BUDGETING

Bottom-up Budgeting (BuB) is a well thorough strategy to reduce poverty incidence in the country. The initiative makes planning and budgeting processes of both local and national government more participatory, empowering local organizations and communities through genuine involvement and strengthening the convergence mechanism of the delivery of national services in the community and aims to ensure the inclusion of funding requirement for the development of the needs of the poorest municipalities and cities in the program budgets of the NGA's.

For CY 2014 Bottom-up Budgeting (BuB) Project a total of One Hundred Ninety-Four (194) projects were funded with total allocation of Two Hundred Forty-Nine Million Four Hundred Forty-Five Thousand Pesos (P249,445,000.00). The projects were undertaken by forty-six (46) municipalities from the five (5) province of Region 02. Of the 194 projects, One Hundred Eighty-Five (185) or 95.36 percent were completed with a total disbursement of Two Hundred Forty-Seven Million Seven Hundred Ten Thousand Seven Hundred Forty-Six and 26/100 Pesos (P247,710,746.26) or 99.30 percent.

For CY 2015 a total of One Hundred Seventy-Nine (179) projects was allocated with Two Hundred Twenty-Seven Million Nine Hundred Seventy-Eight Thousand Pesos (P227,978,000.00). The projects were undertaken by Seventy-Four (74) municipalities from the five (5) province of Region 02. Of the 179 projects, One Hundred Seventy-Two (172) or 96.09 percent were completed with a total disbursement of Two Hundred Sixteen Million Seven Hundred Forty-Six Thousand Three Hundred Forty-Five Pesos (216,746,345.00) or 95.07 percent.

For CY 2016 a total of One Hundred Sixty-One (161) projects was allocated with Two Hundred Fifty-Five Million One Hundred Thousand Five Hundred Fifty Pesos (P255,100,550.00). The total budget allocation was 100% obligated with a total of Two Hundred Four Million Nine Hundred Eighty-Three Thousand Four Hundred Thirty-Five Pesos (204,983,435.00) or 80.35 percent disbursement, however only One Hundred Seven (107) or 66 percent was accomplished with Seventy-one (71) municipalities as recipients of the different project in Region 02.



other notable achievementst



DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE NO. 02 IS NOW
ISO 9001:2015 CERTIFIED
 REGISTERED QUALITY MANAGEMENT SYSTEM
 CERTIFICATE N° CIP/5310/17/11/1015

The Department of Agriculture-Regional Field Office No. 02 (DA-RFO 02) Battlecry : Transformation of the Agriculture from **“Marun to Green”** is a move to modernize Cagayan Valley's agriculture from its old form. This battlecry focused on the re-engineering of the DA facilities from dilapidated to climate-smart and state of the art structures and facilities, all equipped with modern and sophisticated equipment including its personnel through capability-building and professionalization. On same year, the region also welcomed the new leadership with its brave attempt to further move forward eyeing for a stronger agri-fishery sector with its new **Battlecry: “Towards Agri-Preneurship”**.

In the delivery of its service commitments, the DA-RFO 02 has consistently maintained the delivery of “best” services to its clients and stakeholders. This is evidenced by the various recognitions received to name a few are the following:

- Natatanging DA-Regional Field Unit in 2011 2012 during the Rice Achievers Awarding Ceremonies last March 2013 at PICC;
- Sigkat Award by PLGU Cagayan for the agency's ability to open more opportunities to the agriculture sector that greatly benefitted the farmers in the province;
- Consistent National Awardee in various Research and Development Projects, National Gawad Saka, National Organic Agriculture, Rice and Quality Corn Achievers' Award; and
- CSC Award of Maturity Level 2 in Recruitment, Selection & Placement, Performance Management, Learning and Development, and Rewards and Recognition last December 27, 2016.

In the agency's pursuit to uphold quality service delivery to all its clients/customers and stakeholders, the development of a Quality Management System certified under ISO 9001:2015 has been successfully achieved by the DA-RFO 02 on December 19, 2017 covering its two office sites in Tuguegarao City and seven Research Centers and Experiment Stations in the five provinces with the following scope:

'Design, development and provision of regional agricultural policies and programs, products and services related to research and development, agribusiness and marketing, irrigation and farm-to-market road networks, agricultural equipment and facilities support, and regulation of agricultural product quality.'

The ISO 9001:2015 Certificate is valid for three years until December 18 December 2020, subject to satisfactory results of annual surveillance audits.

The agency's ability and commitment to meet client/customer requirements serves as the corner stone of our Quality Policy and our certification to the ISO 9001:2015 reinforces our role as model in the entire Department of Agriculture.





APPENDIX TO
CERTIFICATE

N° CIP/5310/17/11/1015

Department of Agriculture -
Regional Field Office No. 2

Southern Cagayan Research Center

Igulig, Cagayan, Philippines

Cagayan Breeding Station

Solana, Cagayan, Philippines

Northern Cagayan Experiment Station

Abulug, Cagayan, Philippines

Batanes Experiment Station

Basco, Batanes, Philippines

Cagayan Valley Research Center

Iligan, Isabela, Philippines

Isabela Experiment Station

Gamu, Isabela, Philippines

Quirino Experiment Station

Aglipay, Quirino, Philippines

Nueva Vizcaya Experiment Station

Bagabag, Nueva Vizcaya, Philippines

Renato V. NAVARRETE Chairman and President

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Region 02's NATIONAL AWARDEES GAWAD SAKA 2017



NATIONAL WINNER



Katangi-tanging Corn Farmer

FELIX G. ANCHETA

Buena Suerte, Cauayan City, Isabela

Ang lungsod ng Cauayan bilang isa sa mga pangunahing pinanggagalingan ng produktong mais sa Probinsya ng Isabela at iba pang mga produkto sa agrikultura ay muli na namang nagpakitang gilas dahil kay Ginoong Felix G. Ancheta ng Barangay Buena Suerte ng nasabing lungsod sa pagkapanalo niya sa 2016-2017 Gawad-Saka Search for Agricultural Achievers bilang natatanging magsasaka ng mais sa buong Rehiyon dos.

Si Ginoong Ancheta ay ipinanganak noong ika-11 ng Enero, 1960 at pangalawa sa limang magkakapatid. Taong 1985 nang siya ay ikinasal kay Ginang Virginia Andres Ancheta at sila ay nabiyayaan ng tatlong anak.

Sa kanyang murang edad, si Ginoong Ancheta ay unang namasukan bilang motor pool foreman sa bayan ng Cosmos, Laguna noong 1981. Nang siya ay nakakita ng mas magandang oportunidad, nakipagsapalaran siya sa ibang bansa sa loob ng apat na taon upang matustusan ang mga pangangailangan ng pamilya.

Nang matapos ang kanyang kontrata sa ibayong-dagat, ginamit ni Ginoong Ancheta ang sweladong pinaghirapan na pambili ng 1.3 ektarya ng lupang sakahan. Dito na siya nagkainteres magtanim ng mais habang siya ay nagtatrabaho bilang isang

driver sa Isabela Provincial Capitol kung saan siya ay nanungkulan sa loob ng limang taon.

Sa ngalan ng serbisyo publiko, si Ginoong Ancheta ay umupo bilang Punong Barangay sa loob ng 11 taon at hinirang bilang Katangi-tanging Punong Barangay sa lungsod ng Cauayan noong 2012 dahil sa kanyang dedikasyon at tapat na paninilbihan.

Makalipas ang ilang mga taon, inilaan ni Ginoong Ancheta ang kanyang oras sa diversified farming katulad na lamang ng pagtatanim ng mais, palay, gulay, pag-aalaga ng mga hayop at pagkakaroon ng fishpond. Dahil sa ipinamalas na galing sa pagsasaka at paghahayupan, isa siya sa mga napiling Farmer Led Extensionists (FLE) sa lungsod ng Cauayan.

Sa kagustuhang mapalawak pa ang kaalaman sa larangan ng agrikultura, naging aktibo si Ginoong Ancheta sa pagdalo sa mga trainings at seminars partikular sa corn at swine production na inorganisa ng Kagawaran ng Pagsasakarehiyon dos. Sapamamagitan ng paggamit sa mga teknolohiyang natutunan, tumaas ang ani at kalidad ng mais ni Ginoong Ancheta. Kaya naman, naibenta niya ang mga produkto sa mataas na halaga.

Mula sa kanyang kinita sa pagmamaisan, muling nakapagpundar si Ginoong Ancheta ng 1.2 ektaryang maisan at napalawak niya ang pag-aalaga ng baboy. Napagkalooban din siya ng isang unit ng flatbed dryer mula sa Kagawaran ng Pagsasaka na ngayon ay pinakikinabangan na rin ng mga kapwa nya magsasaka sa panahon ng tag-ulan.

Sa dati nitong inaani na lima hanggang anim na tonelada sa kanyang maisan, pumapalo na ngayon sa mahigit 11 tonelada kada ektarya ang inaani ni Ginoong Ancheta. Imbes na ibenta ang produkto, naisipan niyang iproseso na lamang at gawing feeds upang ibenta at bilang pakain sa mga alagang baboy. Sa katunayan, nakapagpatayo na rin si Ginoong Ancheta ng sarili niyang meat shop na siyang nagbukas din ng trabaho sa mga nangangailangan.

Maliban pa sa 2.5 ektarya ng mais na kanyang sinasaka, kumikita na rin siya mula sa dalawang ektaryang palayan na kanyang nabili sa pamamagitan ng pagbebenta ng kanyang ani sa mga kooperatiba. Napakikinabangan din niya ang ipa ng palay sa paggawa ng feeds na ipinapakain niya sa mga

alagang isda.

Noong 2016, nabigyan si Ginoong Ancheta ng four-wheel drive tractor mula sa Kagawaran ng Pagsasaka sa ilalim ng Small Livelihood Program (SLP) ng Philippine Rural Development Project (PRDP). Mula sa kanyang mga kinita sa pagsasaka at paghahayupan, nakapagpundar pa ng isang unit ng four-wheel drive tractor at isang bagong kotse si Ginoong Ancheta. Sa kasalukuyan, nakapagtapos na ng pag-aaral ang tatlo niyang mga anak at ngayon ay propesyonal na sa mga napiling larangan.

“Walang imposible basta’t ito’y iyong gugustuhin, samahan pa ng tiyaga at pananalig sa Diyos, magtatagumpay ka!” Ito ang payo ni Ginoong Felix Ancheta sa mga nais makipagsapalaran sa larangan ng agrikultura.

Sa ngayon, si Ginoong Ancheta ang ipinagmamalaki at pambato ng buong rehiyon dos at umaasa na maiwi ang karangalan bilang Katangi-tanging Magsasaka ng mais sa buong Pilipinas.

NATIONAL WINNER

Wala na ngang mas itatamis pa sa tagumpay na nilalasap ngayon ng isang magsasaka ng tubo sa bayan ng Piat, Cagayan mula sa katas ng kanyang paghihirap at pagsusumikap sa bukid.

Hindi makakailang magsasaka si Ginoong Richard B. Biraquit dahil sa kinagisnang trabaho ng kanyang mga magulang bilang magsasaka sa Adduru Sugarcane Farm-Villalaida Development Corporation (V.D.C) sa kanilang lugar. Siya ang panganay sa dalawang anak.

Sa murang edad, nabuksan ang kanyang isipan na tumulong din sa pagtatrabaho sa pastulan. Natutunan niyang magpastul simula noong siya ay inaanyaya ng kanyang tiyuhin na walang inaasahang bayad.

Katangi-tanging Sugarcane Farmer
RICHARD B. BIRAQUIT
 Sto. Domingo, Piat, Cagayan

Dahil sa hirap ng buhay, nakatapos lamang si Richard sa hayskul sa Cagayan State University, Piat, Campus. Nagbakasali si Richard na lumuwas sa Maynila at nakapasok sa trabaho bilang guwardiya sibil na may dalawang taon.

Nang maisipang umuwi sa probinsya, matapos maoperahan sa sakit na appendicitis, hindi pa rin siya huminto sa pagtatrabaho at namasukan bilang utility man na seasonal basis at hindi nagtagal ay naging Turntable operator sa Cagayan Sugar Corporation (CASUCO) na ngayon ay Cagayan Robina Sugar Milling Corporation (CARSUMCO) taong 1990. Kapag off-season sa trabaho, nagtatrabaho din siyang tractor operator sa Baggao, Cagayan.

Taong 1997 naman niya nakilala ang kanyang napangasawa na si Ginang Jocelyn D. Leonador, taga Gonzaga, Cagayan na noon ay isa namang Analyst sa parehong pinagtatrabahuhan. Bagamat nagsama ng dalawampung (20) taon ay hindi sila biniyayaan ng anak, sa halip ay nag-ampon sila ng bata.

Sa sumunod na taon, nagka-interes si Mang Richard na magsaka ng tubo (sugarcane) sa kanilang 1.5 ektarya mula sa nakuhang lupa ng kanyang ama sa programa ng ahensya ng Department of Agrarian Reform.

Ipinangtustos niya ang kanyang kaunting naipon para sa kakailanganin niya sa tubuhan. Bagito man sa pag-iimplenta ng kanyang proyekto, sumangguni siya sa ilan sa mga indibiduwal sa kanilang bayan na magtutubo na nagtagumpay sa ganitong negosyo. Sa kanyang pagsusumikap na madagdagan ang kaalaman sa industriya ng pagtutubo, nagbasa-basa rin siya ng ilang mga libro para sa makabagong teknolohiya sa pagsasaka ng tubo.

Kasabay ng pagiging abala nito sa tubuhan, nahalal siyang Kapitan sa kanilang barangay. Bilang aktibong lider, marami na rin siyang naiambag sa kanilang lugar mula 2007 hanggang taong kasalukuyan.

Sa kanyang pangalawang operasyon ng pagtatanim taong 2009 ay nagrenta pa ito ng 1.5 ektarya dagdag sa una niyang sakahan. Ang mga materyales na ginamit niya rito ay mula sa kanyang kinita sa una niyang taniman.

Naging seryoso si Richard sa kanyang sakahan pagdating sa pagpili ng mga itatanim hanggang sa pag-aani. Dahil dito, tumaas ang kanyang kita dahil sa taglay na mataas na sugar content ng kanyang mga tubo.

Nakapagpundar din siya ng sariling Small Farm Reservoir (SFR) para matiyak ang sapat na suplay ng tubig sa kanyang tubuhan at naglagay ng babuyan

(piggery) sa kanilang bakuran. Bukod dito, siya ay nakabili ng 3.0 ektarya palayan at 1.5 ektarya na maisan.

Nadagdagan pa ito ng 2.0 ektarya noong 2010 at pinabuti ang kanyang SFR para matubigan ang kanyang tanim na palay at masustina ang tubig sa kanyang fishpond. Naengganyo rin siyang magtanim ng mga gulay sa kanilang bakuran bilang dagdag kita.

Sa tuloy-tuloy na pag-unlad ng kanyang sakahan, ganun din ang pagpalawak ng kanyang tubuhan. Sa kasalukuyan, nakapagpatayo na rin siya ng manupaktura ng suka habang nakatanggap siya ng "portable protractometer" mula naman sa Department of Trade Industry (DTI).

Nakatulong rin sa kanya ang Sugarcane Regulatory Administration (SRA) pagdating sa pangangasiwa ng kanyang produksyon ng tubo at makakuha ng ideya para umusbong ang kanyang negosyo. Aktibo rin siyang nakikilahok sa mga ilang pagsasanay at programa ng ahensya upang maensayo ang kakayahan sa pagtatanim ng tubo.

Ayon sa kanya, naging sikreto niya ang pagpapahalaga sa bawat pagdalo niya sa mga pagsasanay at seminar na kanyang nagamit sa pagsasaka ng tubo.

"Bukod sa sipag, sinasamahan din ito ng kagustuhang matuto para sa makabagong kaalaman na magagamit mo rin balang araw," aniya.

Sa layuning makatulong, nakumbinsi niya ang may dalawampu't pito (27) na katao sa kanilang munisipiyo para sumubok sa ganitong larangan.

Sa luwang ng kanyang tubuhan, nabigyan niya ng trabaho ang may dalawampung (20) kataong manggagawa sa kanilang lugar na katuwang niya kapag siya ay nasa barangay hall bilang Kapitan ng kanilang barangay.

Marahil ito na nga para kay Mang Richard ang tagumpay na hinangad niya sa kanyang pamilya. Sa sariling sikap at pagiging bukas ng isipan sa hamon ng buhay ang kanyang naging sandata para siya ay makalaspang ng maginhawang buhay.

NATIONAL WINNER

Si Ginoong Wilfredo G. Britanico o “Kapitan Willy” ng brgy. Saranay, Cabatuan, Isabela ang hinirang ngayon taon bilang Katangi-tanging Small Animal Raiser sa Gawad-Saka Search for Agricultural Achievers sa buong rehiyon dos.

Nagsimulang makipagsapalaran sa larangan ng agrikultura si Kapitan Willy noong 2011. Sa pamamagitan ng integrated farming system, nagsimula siya sa apat na ektaryang sakahan at nag-alaga ng mga hayop. Subalit hindi ito naging madali kay Kapitan dahil sa mga hindi inasahang pagsubok sa pagtatanim. Maliban sa madalas na pag-atake ng mga peste, mataas din ang presyo ng mga farming inputs at mababa ang presyo ng palay.

Dahil sagana sa damo at legumbre ang sakahan, napag-isipan ni Kapitan Willy na mag-alaga ng mga kambing at karnero. Nagsimula muna siyang bumili ng isang upgraded buck, limang upgraded does, isang pure breed ram at pitong pure breed ewes. Lalo pang pinalago ni Kapitan ang kanilang forage area sa pamamagitan ng pagtatanim ng napier grass at iba pang masusustansiyang damo.

Sa maayos na pamamahala at pakain sa mga alaga, tumaas ang bilang ng mga ito sa mga sumunod na taon. Noong 2015, nakapagbenta si Kapitan Willy ng 13 head growers na may 130% return of investment (ROI). Sa karnero, naipagbili niya ang kanyang 14 head growers na may 123% ROI. Sa sumunod na taon, muling nakabenta si Kapitan ng mga alagang kambing na kinabibilangan ng 16 head growers na may 147% ROI samantalang 21 head growers naman sa karnero na pumalo hanggang 140% ang ROI.

Tuwing panahon ng taglamig, hindi rin nababahala si Kapitan sa kapakanan ng mga alaga dahil sa pamamaraan niya ng pagdisenyo ng kanilang bahay sa pamamagitan ng pagkabit ng mga karagdang ilaw at pangtakip. Bilang resulta, bihirang nagkakasakit ang mga alaga at kaunti lamang ang naitatalang namamatay.

Katangi-tanging Small Ruminants Raiser

WILFREDO G. BRITANICO

Saranay, Cabatuan, Isabela

Maliban pa dito, ginagawa ring organikong pataba ni Kapitan ang mga dumi mula sa mga alaga. Ginagamit niya ito sa mga tanim niyang gulay, fruit trees at maging sa forage production. Sa ganitong paraan, nakakatipid siya sa gastusin sa farming inputs habang tumataas naman ang kanyang ani.

Bilang isang Punong Barangay, naging bukas palad din siya sa mga nangangailangan at mapagmalasakit sa kanyang nasasakupan. Isa sa mga matagumpay na proyekto ni Kapitan ay ang pagbabahagi ng mga seedlings at kagamitan sa pagtanim sa Saranay Elementary School at nanalo bilang Best School Implementer ng Gulayan sa Paaralan Program ng Kagawaran ng Edukasyon at ng Pagsasaka noong 2014. Bukod din sa anim na permanente niyang tauhan sa bukid, nakakapagbigay din siya ng trabaho sa kanyang mga kabarangay tuwing panahon ng taniman at anihan.

Sa kasalukuyan, lalong naging produktibo ang apat na ektaryang integrated farm ni Kapitan Willy dahil dumami na rin ang kanyang mga alaga at mga pananim. Sa katunayan, mayroon na siyang dalawang bucks, 16 does, limang growers at 11 kids. Nadagdagan din ang kanyang mga alagang karnero na kinabibilangan ng dalawang ram, 28 ewes, limang growers at siyam na lambs.

Naparami na rin ni Kapitan ang mga alaga niyang native na baboy mula sa isang boar, limang sows at 32 growers. Ang kanyang poultry ay binubuo naman ng

225 heads ng upgraded na manok, 132 na pato, 14 na bengala at anim na pabo.

Sa kanyang gulayan, makikita rin ang mga sari-saring gulay tulad ng upo, talong, patola, upland kangkong, kalabasa at marami pang iba. Samantala, napapaligiran pa ito ng mga fruit trees kagaya ng mangga, papaya, saging, kalamansi at kung anu-ano pa.

Sa ngayon, isa na rin sa pinagkakaabalahan ni Kapitan ay ang pagpapalago sa kanyang dalawang fishponds na naglalaman ng 2,500 fingerlings.

“Dahil sa suporta ng asawa ko at apat kong anak, naging posible lahat dahil inspirasyon ko sila dito. Maraming salamat din po sa mga sumama sa akin sa aking paglalakbay at hindi niyo ako iniwan hanggang sa huli. Sa mga assistance din ng gobyerno na nakatulong sa aking kabuhayan, salamat po. At kay Lord, thank you for all these blessings,” pahayag ni Kapitan Willy.

Hindi matatawaran ang dedikasyon at pagsisikap ni Kapitan Willy bilang isang magsasaka, tagapag-alaga ng hayop at isang lider. Kaya naman, umaasa ang Kagawaran ng Pagsasaka Rehiyon dos at buong Lambak ng Cagayan na maipanalo ni Kapitan ang parangal bilang Gawad-Saka National Winner for Most Outstanding Small Ruminants Raiser. Mabuhay ka!

Si Ginoong Charlemagne P. Acierto ang hinirang ngayong taon bilang natatanging Large Ruminant Raiser sa Regional Gawad-Saka Search for Agricultural Achievers ngayong taon.

Si Ginoong Acierto o mas kilala bilang si Mang Boyet ay tubong Sampaloc, Cabatuan, Isabela. Nagtapos man sa kursong Business Administration, mas pinili ni Mang Boyet ang magsaka na lamang kaysa sa makipagsapalaran sa buhay sa Maynila.

“Naisip ko na magagamit ko pa rin naman yung pinag-aralan ko dahil gusto ko talagang maging isang agripreneur,” ani Mang Boyet.

Nagsimula si Mang Boyet sa pagpapalago ng kanilang maisan at lumaki ang produksyon nito. Subalit sa kalaunan, unti-unting ring bumaba ang presyo ng mais kaya naisipan niyang mag-integrated farming.

Sa tulong ng BRO Program na inilunsad ng Pamahalaang Panlalawigan ng Isabela, isa si Mang Boyet sa mga maswerteng benepisyaryo ng nasabing programa. Isa sa mga layunin ng programa ang makatulong sa mga maliliit na magsasaka sa pamamagitan ng livestock dispersal program, livelihood development, crop insurance at iba pa.

Noong 2008, binakuran niya ang humigit kumulang limang ektaryang lote sa Sitio Subasta, Saranay, Cabatuan, Isabela. Sa nasabing lupain, inilaan ni Mang Boyet ang apat na ektarya para sa pagpapalaki ng mga baka, samantalang ang natitirang isang ektarya ay inilaan niya sa pag-aalaga ng tupa at tinamnan ng mga puno at sari-saring gulay. Simula noon, pinangalanan nya na itong AU Integrated Farm.

Mula sa sinimulang apat na alagang baka ni Mang Boyet, dumami ang mga ito kada taon


NATIONAL WINNER

Katangi-tanging Large Animal Raiser

CHARLEMAGNE P. ACIERTO

Sampaloc, Cabatuan, Isabela

hanggang sa umabot ng 30 ang kanyang stocks at dalawang bulls. Naging maganda ang takbo ng negosyo ni Mang Boyet sa pagtatanim kaya ginamit ang perang kinita para sa pagpapalawak ng kulungan ng mga alaga. Wala ring nasasayang na produkto sa kanyang maisan dahil ginagawa niyang pakain sa mga alaga ang giniling na corn husk at corn shells.

Samantala, ang “Paiwi” o animal dispersal ay ginagawa ni Mang Boyet sa kanilang lugar sa pamamagitan ng 50-50 sharing scheme. Siya rin ay nagkusang nagbigay ng mga libreng kasangkapan sa pagtatanim ng napier grass sa kanyang mga kasamahan sa pamamagitan ng by-back agreement.

Ang mga inisyatibo ni Mang Boyet ay nagbukas din ng mga trabaho sa kanilang komunidad.

“Masaya ako hindi lamang dahil guminhawa ako kundi dahil kahit papaano nakatulong din ako sa mga kasamahan ko na kumita. Noong una, hindi ko talaga inaasahan na ganito ang magiging kinalabasan. Wala palang masama kung susubukan mo lang at alam mo sa sarili mo na may patutunguhan yung ginagawa mo,” pahayag ni Mang Boyet.

Sa kasalukuyan, patuloy na namamayagpag si Mang Boyet sa napiling larangan at umaasang lamawak pa ang karanasan at kaalaman upang mas lalong makatulong pa sa kanyang kapwa.

NATIONAL WINNER

Considered to be a male dominated field, Vivian N. Taniza sets the exception and rose among the ranks of the most successful fisherfolk and women entrepreneur in the field of fisheries.

Her entry to the field and entrepreneurship and eventual success were inspired by poverty and the challenges she has gone through even at a very young age.

A high school graduate and a mother of two at the age of 23, Vivian did not succumb to life's adversities. Today, forty-five year-old Vivian enjoys the fruits of her labor and she continues to support people, the community and the fisheries sector through her passion and commitment to her craft.

Seasoned by her long years of experience and discovery in hatchery operation and grow-out management of fish, and the varied learning and skills she gained from participating in various trainings and seminars, Vivian is undoubtedly a formidable force to reckon with.

For Vivian, the secret to a successful hatchery operation are receptiveness to technologies and a persistent attitude towards innovation. The best practices that she introduced to her farm have greatly helped in managing and mitigating the adverse effects of climate change in hatchery operation which redounds to high production and income.

First, Vivian had to increase the depth of all the fishponds from half meter to one and a half meters starting in 2012 to lower the water

Outstanding Fisherfolk (Aquaculture Fisheries)

VIVIAN N. TANIZA

Victoria, San Mateo, Isabela

temperature especially during summer time. She also installed shading by using water lilies enclosed in a bamboo frame in the pond, which help mitigate extreme heat especially from the months of March to June. The practice of installing shading in the pond allowed the farm to produce adequate fingerlings in the midst of climate change.

A concrete tank was also installed next to the ponds particularly along the water canal which is used as conditioning tank for fingerlings. Because the tank lies just beside the ponds, the fingerlings collected are easily transported and thus suffer less stress. Vivian also applies salt to fishponds to control fish fungal disease.

Vivian also practices what she terms as “luglug” or manual rotavation of pond bottom to speed up the release of toxic gases and eliminate leftover fry. By employing ‘luglug’ Vivian is able to shorten pond preparation time and thus more production cycle for her hatchery. This process is done during the first day of pond preparation. On the next two days, the breeders are released to the ponds. On the tenth day, collection of fry starts up to the fifteenth day. Fry collection is done thrice a day to ensure that all fish fries are collected, thus higher total production. Vivian explained that they have to shorten the days of production to fifteen days particularly during summer time because the water at this time warms quickly, and when prolonged, the eggs will not hatch.

As mentioned, Vivian installed hapa within the ponds. The fry (SRT) that were collected in the morning are placed in the hapa in the meantime.

Later in the afternoon, the fry will be transferred to the nursery ponds. Different from the usual practice of using washtub to transfer fry, Vivian places the fry to oxygenated plastics before the fry are transferred to the nursery ponds to reduce mortality.

Another best practice is that Vivian combines 2 female and a male burasi or common carp together with the tilapia breeders in the ponds for a clever reason. The common carp turns the water murky (like a smokescreen) and thus, facilitate mating of the tilapia.

She also makes sure that breeders are used for two years only to ensure high productivity and quality fingerlings after observing that the frequency of spawning declines with breeders' size and age. Likewise, breeders used for a long time produce poor quality fry and fingerlings manifested with their slow growth, while some progenies have body deformities.

Blessed through the years, Vivian gives back to the community. She serves as a leader in various organizations, extends help to his fellow hatchery operators especially the small-time operators, and opens her farm to be a show window for outstanding hatchery operation.

For and in consideration of the above, VIVIAN N. TANIZA, a woman, a hands-on and passionate fish farmer, a supporter and partner of the government, a leader who values premium service to clients deserves to carve a name in the roster of Gawad Saka Outstanding Agricultural Achievers.

Katangi-tanging Rural Improvement Club

STO. DOMINGO RIC

Sto. Domingo, Alicia, Isabela

Sa buhay ng sinopaman, kailanman hindi maikukubli ang mga pagsubok habang hinahatak ang daan patungo sa hinahangad na kaunlaran. Subalit, sa halip na ituring itong hadlang patungo sa karangyaan sa buhay, ay ginawa nila itong inspirasyon tungo sa inaasam-asam na kaginhawaan sa buhay.

Ito ang naging pundasyon ng “Sto. Domingo Rural Improvement Club” ng Alicia, Isabela na siyang nagluklok sa kanila at itinanghal bilang Katangi-Tanging Samahan “Outstanding Rural Improvement Club” sa buong Rehiyon Dos sa ilalim ng “Gawad-Saka Search”. Sa ngayon, sila ang pambato ng Kagawaran

ng Pagsasaka sa Rehiyon Dos sa nasabing kompetisyon sa Nasyonal lebel.

Taong 1990 ng simulang buuin ang Sto. Domingo RIC na may 50 miyembro sa ilalim ng pamumuno ni Mrs. Alicia Vallesteros. Ito ang kauna-unahang organisasyon ng mga kababaihan sa nasabing Barangay na kung saan nagsisilbing tulay para mapalapit ang bawat miyembro sa isa't isa. Subalit, dahil sa kakulangan ng pondo, hindi nila naisakatuparan ang pangunahing layunin ng kanilang samahan na mapaunlad ang buhay ng mga kababaihan.

NATIONAL WINNER



Pagkaraan ng apat na taon, may pagbabago sa liderato ng nasabing samahan. Sa pagkakataong ito, binigyan ng pansin ang pag-unlad ng buhay ng mga kababaihan. Inumpisahan nila ang paggawa ng mga panuntunan kagaya ng pagbayad ng “Annual Due” sa halagang sampung piso (P10.00) na kung saan nakalikom sila ng halagang P1,400.00 sa 70 na miyembro.

Upang madagdagan ang nilikom na kontribusyon, kailanman hindi nangutang ang nasabing samahan, bagkus ay gumawa sila ng resolusyon sa ibat ibang sector ng pamahalaan at sa ilang kilalang politiko na nakapagbigay sa kanila ng halagang P11,400.

Sa kagustuhang umunlad ang buhay ng mga kababaihan sa kanilang Barangay, ginamit ng kanilang samahan ang perang iyon bilang puhunan sa mga

proyekto kagaya ng paggawa ng sabon, mga candies, balut, mga bag, sombrero, Christmas decors at pananahi ng mga damit. Pinagkatiwalaan sila ng Kagawaran ng Pagsasaka at naging benepisaryo sila ng proyektong hog dispersal project na kung saan 20 na miyembro ang unang biniyayaan ng 20 baboy.

Dahil na rin sa patuloy na pag-unlad na kanilang samahan, nahikayat ang iba pang kababaihan sa kanilang lugar na siyang dahilan na sumanib na rin sa Sto. RIC na kung saan umabot na sa 200 ang kanilang miyembro. Upang mapangalagaan ang samahan, nagdesisyon ang grupo na mangoklekta ng P25.00 sa bawat miyembro upang may maitulong sila na nagkakahalaga ng P5,000.00 sa miyembro ng kanilang pamilya na namayapa na.

Sa kalaunan, sinang-ayunan ng bawat miyembro

na ang annual fee nila na 10.00 ay magiging P25.00 at ang mortuary fund nila ay magiging P50.00.

Upang lalong mapaigting ang kanilang samahan, nagdesisyon ang RIC Sto. Domingo na idaos ang kanilang regular na meeting tuwing ikatlong sabado ng buwan at assembly meeting dalawang beses sa isang taon para pag-usapan kung papano patakbuhin ang kanilang samahan.

Samgapanahong iyon, ang isang mahalagang napag-usapan at nadesisyonan ng RIC Sto. Domingo ay ang pagpapatayo ng kanilang sariling opisina o RIC Building. Kasabay din nito ay ang pagpapatayo ng Solar Dryer na kung saan halos 100 porsyento ng mga magsasaka sa barangay ay nabebenepisyohan.

Taong 2003, nang nagkaroon uli ng reorganisasyon ang nasabing samahan, at nangako ang bagong officers na ipagpatuloy ang sinimulang mga proyekto ng dating namuno.

Pagkaraan ng apat na taon, pinagtuunan ng RIC Sto Domingo ang pagsasaayos sa kanilang proyektong "Communal Fishpond" na may lawak na 1,000 metro kwadrado. Itinuturing nila ito na isa sa pinakamahalagang proyekto ng kanilang samahan dahil sinusuplayan nito ang pangangailangan ng kanilang barangay sa isda na nakapagbigay ng dagdag na kita sa kanilang grupo. Sa taong ding ito, umabot na sa 267 ang kanilang miyembro

Taong 2008, kasabay ng paglobo ng kanilang miyembro na umabot na sa 282 katao, nadagdagan ang proyektong pinagkakaabalahan ng Sto. Domingo RIC. Pinasukan na rin nila ang pagpaparenta ng mga gamit pang catering services.

Sa kagustuhang mas lalong palawakin at paunlarin ang mga proyektong pang agrikultura ng kanilang samahan, hindi na nagdalawang isip ang buong pamunuan at miyembro ng RIC Sto. Domingo na tanggapin ang programa ng Kagawaran ng Pagsasaka na may kaugnayan sa "Integrated Farming". Ito ang paggawa ng mga organikong pataba sa pamamagitan ng "vermi-composting" na kung saan nakatanggap din sila suporta sa Barangay LGU.

Ang mga na produce nilang organikong pataba ay hindi lamang ginamit sa kanilang communal garden kundi maging sa mga individual na gulayan ng bawat miyembro. Dagdag pa diyan ay nakapagbenta na rin sila ng vermi-cast sa halagang P300.00 kada sako.

Naging aktibo ang kanilang samahan hindi lamang sa ikauunlad ng kanilang komunidad kundi maging ang iba pang aspeto ng buhay kagaya ng dedikasyon sa trabaho at "excellent public relations" na nakapukaw sa atensyon ng iba pang ahensiya ng pamahalaan tulad ng DOLE, ang Lokal na Pamahalaan ng Alicia at ang Municipal Agriculture Office na naging daan upang nabigyan sila ng halagang P139,350.00 upang

magsilbing dagdag na puhunan para sa income generating project na "Meat Processing". Hindi lamang puhunan ang natanggap ng kanilang samahan kundi maging libreng pagsasanay sa paggawa ng tocino at longganisa mula sa TESDA.

Naging instrumento din sila sa implementasyon ng mga programang may kaugnayan sa kapaligiran, wastong segragasyon o pagrecycle ng mga basura, nutrisyon at feeding programs at pagpapaganda ng buong Barangay sa pamamagitan ng pagtayo ng gulayan at "kiosko" sa bawat purok na pwedeng gawing pasyalan o "Agri-Eco Tourism" destinasyon sa naturang Bayan.

Pinapangunahan din nila ang pag-oorganisa ng mga aktibidades tuwing selebrasyon ng Mother's Day, Valentine's Day at Christmas Day.

Taong 2010, umabot sa 316 ang kanilang miyembro at sila din ang naideklarang "Most Outstanding RIC" sa Rehiyon Dos at naging nanominado rin sa National Level ng nasabing kompetisyon. Subalit hindi nila napagtagumpayan ang nasabing kompetisyon noong mga panahong iyon,

Makalipas ang limang taon, 2015, lalong umarangkada ang mga proyektong pangkabuhayan ng nasabing samahan. Muli nilang binuhay ang "rug making" project sa tulong ng Agriculture Office na nagbigay ng 50 kilos ng retaso ng tela. Sa ngayon ay sila na ang nagsisilbing wholesaler at suplayer ng mga natahing retaso sa merkado sa kanilang bayan maging sa kalapit na Barangay.

Naging memorable at highlight din ng kanilang samahan ang taong 2015 dahil sa proyekto nilang "Rice Coffee". Hindi nila sukat akalain na ang produkto nilang ito ay naging patok sa merkado ng minsang sumali sila sa selebrasyon ng Araw ng Alicia at natikman ng isa sa mga empleyado ng Department of Trade and Industry (DTI). Napag kasunduan din ng buong grupo na pasukin ang proyektong "Smoke Tilapia".

Sa ngayon, patuloy pa rin ang pangarap ng buong pamunuan ng Sto. Domingo RIC na mapaunlad ang buhay ng bawat miyembro at ng buong komunidad sa pamamagitan ng pag sustain ng kanilang income generating projects, maempowerang mga kababaihan at maging kapaki-pakinabang na organisasyon hindi lamang sa Cagayan Valley Region kundi maging sa buong Pilipinas.

NATIONAL WINNER



Outstanding Municipal Fisheries and Aquatic Resources Management Council

GONZAGA MFARMC

Gonzaga, Cagayan

The municipality of Gonzaga is a major source of fish and fishery products for Cagayan Valley Region. The town is blessed with a 25-mile coastline where corals, mangroves, seaweeds and various marine life forms abound. It also has pristine rivers flowing from its watersheds that provide irrigation to its vast rice lands. This northeastern coastal town of 36,303 individuals (2010 Census) hosts an extensive fishing ground where many of its inhabitants depend on as a source of livelihood and which had contributed in the town's economic and cultural progress for many generations.

The rapid development of Gonzaga's fishery sector is largely credited to the concerted efforts of the town's fisherfolk through their Municipal Fisheries and Aquatic Resources Management Council (MFARMC). Organized in July 25, 2000 following the passage of Philippine Fisheries Code of 1998 R.A. 8550 and later the Basic Fisheries Ordinance of Gonzaga in 1999, the Gonzaga MFARMC was envisioned to empower and represent the town's 1,536 registered fisherfolk in local governance particularly in matters concerning

the management of fisheries and aquatic resources, sourcing out of alternative livelihood opportunities and other basic social services. The council also serves as a conduit of national government agencies such as BFAR, DOST, DSWD, DENR, CSU and many other offices, as well as NGOs, in the implementation of their various fishery-related programs.

Recognizing the vital function of the MFARMC, the LGU has issued Executive Orders mandating the membership of the Council to various local bodies and committees, most notably the Local Poverty Reduction Action Team, where it had identified and recommended important projects for the fisherfolk and the general community alike, under the Bottom-up Budgeting (BuB) Program.

Under the BuB, Fisherfolk Associations were able to avail of post-harvest facilities such as five units Multi-Commodity Solar Tunnel Dryers (MCSTD) and the Upscaling of the Integrated Fish Processing Laboratory, each worth 1.5 million pesos. Other projects under the BuB implemented for 2016 and 2017 are the Coral Transplantation within the Marine Protected Areas

and Procurement of Fishing Boats and Gears to be distributed to all active fisherfolk associations. These projects were the result of MFARMC's lobbying with the local government during planning workshops and consultations. Aside from the BuB, other projects were also established to increase the productivity of the fisherfolk such as the seaweeds warehouse, elevated solar dryers, seaweeds culture, payaos, and fishing gears.

Other notable local policy recommended by the MFARMC include the color-coding of municipal fishing vessels (Ord. No. 08 s. 2009) and the registration and licensing of fisherfolk, fishing vessels and fishing gears (Ord. No. 01 s. 2015).

To further bolster the burgeoning demand for value-added fish and seaweed-based products of its women members, the Council actively participates in the annual Aggao Nac Cagayan Agro-fishery and Livestock Trade Fair. The week-long activity features major agricultural products coming in Cagayan Province's 28 municipalities and lone city. Also, the Council participated in the Agrilink Trade Fair and Forum for EU Market, held at the World Trade Center on October 15-17, 2015. Attendance to the trade fair enabled them to realize the potentials of their fast gaining popular seaweed-based noodles and chips products both for the domestic and global markets. To date, 19 other alternative livelihood projects are operated by the fisherfolk in the municipality.

Living to its avowed mandate as guardian to Gonzaga's fishery resources, the Gonzaga MFARMC maintains its vigilance against poachers, illegal fishing practices, and activities that undermine the fragile marine and aquatic resources. The three additional multi-purpose fiberglass boats awarded to fisherfolk likewise strengthened the fisheries law enforcement teams thus led to the lower incidence and commission of violations to fishery laws. The quick response of the Council's Bantay Dagat team to marine wildlife stranding also helped rescue of various endangered species.

The MFARMC also called the attention of the Sangguniang Bayan of Gonzaga for their prudent study on the application of private entities in the conduct of offshore mining within Gonzaga's coastal waters, through Resolution No. 01 series of 2015. This led to the disapproval of said mining application, thus the coastal resource was saved from possible destruction, and with it the livelihood of the fisherfolk. The Council also proposes closed season for the fishing of "ipon" or goby fry.

One more notable accomplishment of the Council is their strong participation in the implementation of the nationwide Fisherfolk Registration (FishR) and Fishing Vessel and Gear Registration (BoatR). Through the assistance of the MFARMC in information dissemination and actual data gathering, the municipality came in second in the registration of all its municipal fishing boats for Region 02 and one among the First 100 Municipalities in the Philippines and received fisheries project grant amounting to two million pesos. Along this line, the MFARMC also enabled the massive licensing and permitting of municipal fishing boat operations which have been at all time high through the continuous implementation of the BoatR.

Another top priority of the MFARMC is climate change adaptation and mitigation activities. These include planting of more than two hundred thousand pieces mangrove propagules as part of its coastal reforestation and protection; coral transplantation; tree planting in 125 hectares within the Baula and Wangag Watershed Forest Reserve pursuant to Coastal Resource Management Plan; promotion of payao to shorten fishing time that reduce fuel and carbon emission; maintenance of three Marine Protected Areas; regular coastal clean-up drive and establishment of a community fish landing center and onshore storage facilities for boats and gears that help prevent loss or damage from extreme weather disturbances.



2017 GAWAD SAKA OUTSTANDING ACHIEVERS

Portion of MFARMC prize it garnered as 2nd Placer in the Gawad Saka last year, went to painting of registration number of municipal fishing boats, livelihood assistance to fisherfolk organizations, insurance coverage of the Council members and procurement of office materials and equipment. Thus, in recognition of its various advocacies and accomplishments in promoting the sustainable management of the fishery resources of Gonzaga and in upholding the economic well-being of its stakeholders, the Gonzaga MFARMC was proclaimed the Most Outstanding MFARMC during Regional GAWAD SAKA Search awarding rites in 2014, 2015 and 2016. The Council also became a National Finalist in the 2014; awarded as third place winner in the National Level in 2015 and garnered 2nd place last year.

Another noteworthy award received by the Council is the Special Citation given by TOFARM in the Search for the Outstanding Farmers of the Philippines as an exemplary model in the Agriculture Initiatives Category. Some members were also recipient to numerous individual awards. With the multiple recognitions earned by the Council from its

outstanding achievement, the MFARMC of Gonzaga has strived more to become responsive to the needs of its members and the community as evidenced from its array of accomplishments in the succeeding years. They have also linkages with their fellow fisherfolks in the adjacent municipalities as Gonzaga MFARMC have representation in the Integrated FARMC, composed of different fisherfolk organization in the Province of Cagayan. They are as well, represented as officers and members to the Panlalawigang Alyansa ng mga Lokal na Organisasyon.

Acknowledging its mandate as conduit of the local fisherfolk to the government, the Gonzaga MFARMC continues to extend its services for the common benefit of its members especially for the welfare of their fellow fisherfolks with utmost regard to the protection and conservation of their source of livelihood, they and remain an active and responsible partner of the Local Government for good governance.

It is for these reasons that MLGU Gonzaga strongly nominates the Gonzaga MFARMC to the 2016-2017 GAWAD SAKA SEARCH for OUTSTANDING MFARMC.

REGIONAL WINNER/NATIONAL NOMINEE

Walang Puwang ang Pagkabigo Patungong Tagumpay"! Ito ang nagsilbing biblyla ni Ginoong Leomar C. Aday na siyang nagdala sa kanya sa rurok ng tagumpay dahil sa pagkapanalo niya bilang natatanging Magsasaka ng Rice-Based Integrated Farming System sa buong Rehiyon Dos. Bilang regional winner, siya ay nominado sa Nasyonal ng nasabing kategorya sa Gawad -Saka.

Itinuturing na mabait, maunawain at may takot sa Diyos si Ginoong Aday o mas kilala sa tawag na Kap Junior. Isa rin siyang magiting at tapat na tagapaglingkod bilang ama ng barangay na kanyang sinasakupan, ang Barangay Annaguan, Rizal, Cagayan.

Naisangsangayan a Mannalona
LEOMAR C. ADAY JR.

Anaguan, Rizal, Cagayan

Kilala si Kap Junior bilang mapagmahal na ama at binayayaan sila ng kanyang butihing asawa na si Ginang Rosanna Gamma Galang ng apat na anak, dalawang lalaki at dalawang babae.

“Pamilya”, ito ang kanyang naging inspirasyon kung bakit mas lalo niyang pinaigting ang pagtatrabaho sa kanilang bukirin.

Sa murang edad, namulat na si Kap Junior sa simple at payak na pamumuhay. Pagtatanim ng saging, tradisyunal na klase ng palay at ibat-ibang uri ng gulay at prutas ang kinagisnan nyang pangunahing ikinabubuhay ng kanyang mga magulang. Ito ang dahilan kung bakit akala niya ay hindi-hindi na siya makatuntong sa kolehiyo.

Sa kabila ng lahat ng mga paghihirap, hindi siya nawalan ng pag – asa. Nakatapos siya ng kursong bokasyunal sa tulong ng kanyang butihing tiyahin. Sinimulan niya ang maging auto mechanic sa isang kompanya ng bus para mai-apply ang kanyang natutunan at pinag – aralan.

Subalit makalipas ang isang taon, nagdesisyon siyang umuwi sa lugar na kanyang pinamumunuan sa kasalukuyan upang pagyamanin ang sinimulang sakahin ng kanyang magulang noong kalakasan pa nila.

Sa walong magkakapatid ng pamilyang Aday, bukod tangi si Kapitan Junior Aday ang nakakitaan ng malapit ang puso sa larangan ng pagsasaka na siyang dahilan upang ipagkatiwala sa kanya ng kanyang mga magulang ang bukirin na kanilang sinasaka.

Dahil sa katangiang yun na may pagmamahal sa pagsasaka, ipinangako ni Kap Junior na hinding hindi niya bibiguin ang mga magulang sa pamamagitan ng paglinang at pagyamanin ang lupang minana sa mapagmahal na mga magulang na nagdala sa kanya kung saan na siya ngayon bilang isang “golden reaper”.

Taong 1987 ng nagsimula si Kap Junior sa isang (1) ektaryang taniman ng palay na nakadipende sa sahod-ulan o “rainfed lowland”. Tinamnan niya ito ng barayti ng palay na angkop sa kanilang lugar na nakapagbigay sa kanya ng magandang ani at kita na siyang ginamit niyang pambili ng dagdag na ektarya ng bukirin.

Naging masipag si Kap Junior kaya mabilis ang kanyang pag – asenso. Ginawa nya ang lahat ng kanyang makakaya upang pagyamanin ang kabuuang 3.5 ektaryang lupa na kanyang sinasaka;

2.7 ektarya ay dinibelop nya at tinamnan ito ng palay; ang 100 kwadradong metriko - ginamit niya sa pag – aalaga ng hayop tulad ng baboy; 2000 kwadradong metriko - ginawa niyang fishpond; 2484 kwadradong metriko tinamnan ng mga gulay, at ang natitirang 2444 kwadradong metriko ay tinamnan ng mga saging, cacao, rambutan at ibang prutas na kanyang nadiskubre pagkatapos ng bagyong Lawin.

Hindi pa rin siya tumigil at sa kagustuhang mas mapabuti, mapalawak at mapaunlad ang kanyang hanapbuhay, dumalo siya sa iba’t – ibang trainings, seminars, forum at workshops. Humingi din siya ng tulong sa Municipal Agriculturist (MA) Office at iba pang ahensiya na konektado sa pagtatanim ang adhikain, at mga technical assistance para lalo pang pagyamanin ang kanyang lupa.

Hindi naglaon, pinasok din niya ang pagtatanim ng hybrid rice na pinaniniwalaang 15 porsiyento ang maaring maidagdag sa ani kung ikumpara sa mga inbred na nakasanayang itanim ng kanyang mga magulang.

Ang inbred na barayti ng palay ay self-pollinated, kaya isang klase ng halaman lamang ang kailangan sa pagbuo ng mga butil nito. Ang hybrid naman ay nabubuo mula sa pagsasama ng itlog at polen ng dalawang magkakaibang bulaklak (cross pollination).

Sadyang napakapositibo ni Kap Junior sapagkat naniniwala siya na ang isang “produktibong magsasaka” ay kinakailangang din maging “wais” sa pamamagitan ng tama, wasto at kapaki-pakinabang na paggamit at pagproseso sa mga inaakala nating “farm waste” kagaya ng dumi ng hayop. Naniniwala sya na sa ganitong paraan, hindi lamang lupang sakahan ang napoprotektahan kundi pati ang ating kalikasan at higit sa lahat ang ating kalusugan”.

Naging mapalad din si butihing Kapitan sa kadahilanang ang lupang sinasaka ay sagana sa tubig na nagmumula sa ilog patungong Alsong Cave na siyang pangunahing kailangan ng hybrid na palay upang maparami ang produksyon nito.

Sa pagpupursige niya, umabot siya sa puntong nakapagpagawa ng sariling irigasyon na kanal na daanan ng tubig diretsong taniman ng palay. Habang tinatahak niya ang tagumpay, sinubukan din niya ang pag – aalaga ng mga cultured na tilapia, hipon o sugpo sa tulong ng Kagawaran ng mga Pangisdaan at mga Yamang – Tubig o (BFAR). Ito rin ang simula na nasali siya sa iba’t – ibang

sangay ng ahensya na may layuning tumulong sa pagpapalago ng pangkabuhayan.

Sadyang napakasipag ni Kap Junior, walang siyang sinasayang na oras sapagkat pinasok din niya ang paggawa ng mga bamboo craft gaya ng mga upuan, lampshades at iba pang mga disenyo o ukit sa pakikipagtulungan sa Department of Trade and Industry Rehiyong Dos (2) ng Shared Service Facility habang hinihintay ang anihan ng palay.

Malaki ang pasasalamat ni Kap Junior sa pagpondo ng Kagawaran ng Pagsasaka Rehiyon Dos sa multi – purpose drying pavement (MPDP) sa kanilang Barangay bilang patuyuan ng kanilang mga inaning palay, mais at iba pa. Ang nasabing pasilidad ay nagsisilbi ding temporaryong lugar tuwing nagsasanay ang kanyang mga Kabarangayan ukol sa Climate Smart Farm Business School (CSFBS) na naglalayong ituro at ihanda ang mga magsasaka sa paggamit ng mga makabagong teknolohiya para sa mas produktibo at masaganang pagsasaka.

Sa kasalukuyan, ang sinasakakupan ni Kap Junior ang napiling benepisaryo ng mechanical dryer na galing din sa Kagawaran ng Pagsasaka –Rehiyon Dos upang mapaganda ang kalidad ng mga inani nilang palay.

Nakapagpatayo na rin siya ng sariling “talipapa” upang duon na ibebenta ang mga inaning gulay, mga huling cultured na isda at iba pang produkto na naggmumula sa sariling bukirin para sa mas mabilisang distribusyon ng pangunahing pagtugon sa mga pangangailangan ng kanyang barangay.

Tunay nga na isang ehemplo at karapat dapat na tularan ang pinagharapang buhay at mga nabuong pangarap ni Kap Junior na kanyang tinatamasa ngayon.

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REGIONAL WINNER/NATIONAL NOMINEE

Kilala ang bayan ng Roxas, Isabela bilang isa sa mga pangunahing pinanggagalingan ng mga produktong gulay sa buong rehiyon. Sa katunayan, ito ang pangunahing ikinabubuhay ng mga magsasaka dito. Katulad na lamang ni Ginoong Joards Aranda ng barangay Matusalem, Roxas, Isabela na ngayon ay umunlad ang pamumuhay, kasama ang kanyang maybahay at tatlong anak dahil sa pagtatanim at pagbebenta ng gulay.

Taong 2007 nang nagsimula si Ginoong Aranda sa kalahating ektarya ng lupang sakahan na naisangla sa kanya sa halagang P15, 000. Nagtanim siya ng talong at mga legumbre at ibinenta ang kanyang mga produkto sa merkado. Hindi na nagdalawang isip si Ginoong Aranda na magtanim ng mas maraming gulay nang makita niyang mataas ang pangangailangan sa mga pamilihan.

Sa kagustuhang palawakin ang kanyang hanapbuhay, nagtulungan silang mag-asawa sa pamamahala sa bukid. Naging aktibo rin ang kanyang maybahay sa pagsali sa Rural Improvement Club (RIC) sa bayan at sa pagdalo sa mga trainings at seminars sa food processing. Sa pamamagitan nito, nakakagawa ng atsara, tomato jam, embotidong talong at chili powder ang kanyang asawa at itinitinda sa mga kalapit na barangay at bayan. Sa loob lamang ng isang taon, kumita ng mahigit P244, 000 ang mag-asawa mula sa katas ng kanilang pinagsikapan.

Noong 2010, pumasok sa isang kasunduan si Ginoong Aranda nang ialok sa kanya ang anim na ektaryang lupang sakahan at nakisosyo sa may ari ng nasabing lupain. Sinang-ayunan ng dalawang panig na si Ginoong Aranda ang mamamahala sa sakahan at maghahati sila sa kita. Kada taon, umaabot sa hanggang 156, 000 ang kanilang tubo sa sakahan. Ngunit matapos ang mahigit dalawang taong kasunduan, napagpasyahan ni Ginoong Joards na magsarili sa negosyo at binili ang lupa sa kasosyo.



Katangi-tanging High Value Crops Farmer

JOARDS E. ARANDA

Matusalem, Roxas, Isabela

Nang maitatag ang proyekto ng Kagawaran ng Pagsasaka na Isabela Agri-Pinoy Trading Center (APTC) sa bayan ng Roxas noong 2014, lalong namayagpag ang kanyang karera sa pagpoprodyus ng mga gulay. Naging no. 1 supplier ng mga sari-saring gulay si Ginoong Aranda sa nasabing trading center. Halos araw-araw dinadagsa ang mga produkto niyang kamatis, sibuyas, bawang at mga pinakbet type na gulay. Ngayong taon, umabot na sa P2.3 milyon ang kinita ni Ginoong Aranda mula sa pagbebenta ng mga gulay sa APTC. Mula sa kanyang kinita, nakapagpundar na siya ng sariling bahay, tricycle, mga kagamitan sa pagsasaka at lupang sakahan. Nahikayat din si Ginoong Aranda na magtanim ng palay at mag-alaga ng mga hayop.

“Hindi po siguro ako ganito ngayon kung wala din ang gobyerno na tumulong sa akin. Malaki po ang pasasalamat ko sa LGU Roxas dahil palagi po

silang nandito na gumagabay sa akin. Hindi rin po nagkulang ng suporta ang DA dahil sobra po ang biyaya na dumating sa pamilya ko noong naitatag ang APTC. At yung technologies na naituro ng DA sa akin, malaking bagay yun dahil gumanda ang ani ko. Salamat po sa inyo at sa lahat ng mga tumulong sa akin,” pahayag ni Ginoong Aranda.

Kaya naman, ngayong taon, si Ginoong Joards Aranda ang itinanghal sa Gawad-Saka Search Winner para sa Katangi-tanging High Value Crops Farmers sa Rehiyon Dos. Pasok na rin siya bilang nominado ng rehiyon sa nasyonal na kategorya ng nasabing kompetisyon.

“Magsumikap lang po sa buhay, subukan po ninyong magtanim at doon niyo po masasabi, may pera sa lupa,” pagwawakas ni Ginoong Aranda.



REGIONAL WINNER/NATIONAL NOMINEE

Katangi-Tanging Municipal Agricultural and Fishery Council (MAFC)

NAGTIPUNAN MAFC

Nagtipunan, Quirino

Maituturing sentro ng turismo ang bayan ng Nagtipunan sa probinsya ng Quirino dahil sa taglay nito sa yamang agrikultura. Ito rin ang may pinakamalaking parte ng lupain sa Quirino na may sukat na 1,607.40 square kilometers o halos kalahati ng probinsya.

Sa lawak ng lupain, kaakibat rin ang malaking responsibilidad sa mga lokal na pisyal sa pag-unlad sa sektor ng agrikultura at sa pangisdaan.

Dahil dito, binuo ang Municipal Agricultural and Fishery Council (MAFC) sa munisipalidad ng Nagtipunan noong February 25, 1985. Taong 2008 naman nahalal bilang tagapangulo si Ginoong Ian Ballesteros hanggang ngayon. Ang MAFC ay binubuo ng 40 na miyembro na kinabibilangan ng mga barangay AFC.

Ang Municipal Local Government Operations Office (MLGOO) ang nagbukas ng oportunidad sa MAFC, Nagtipunan na maging bahagi sa Local Development Council sa munisipyo.

Bigo man sa unang inisyatibo nitong mapabilang sa pagbuo ng polisiya sa kaayusan at pagpapalawig sa agrikultura at palaisdaan sa probinsya, pinatunayan ng konsehong ito sa taong 2008 ang kanilang gagampaning tungkulin.

Pormal itong kinilala sa Local Development Council noong 2010 sa naging pagpayag ng Regional Agricultural Fishery Council (RAFC) sa dating mayor ng munisipyo ang kahalagahan ng AFC sa lugar ng Nagtipunan.

Sa parehong taon din nang magsimulang imbitahan ng MAFC-Nagtipunan na obserbahan ang naka-ugaliang produksiyon ng maisan doon. Naging daan ito para matuldukan ang labis-labis na paggamit ng mga non-selective herbicide (glyphosate) sa mga upland farm na nagdudulot ng pagguho ng lupa sa mga mabababang lugar. Kasabay nito ang paghain ng resolusyon ng RAFC Quirino na umabot pa sa RAFC-R02 para matigil ang patuloy na paggamit ng glyphosate sa upland areas hanggang 18 degrees slope.

Sinundan rin ito ng pangalawang resolusyon mismo ng RAFC sa taong 2011 na umabot naman sa national level at agad namang tinugunan ng Kagawaran ng Pagsasaka.

Nagbunga ang adhikaing ito sa pag-endorso ng RAFC 2 at Department of Agriculture-Regional Field Office No. 2.

Dahil sa kanilang isinulong, inilunsad ang Sustainable Corn Production in Sloping Areas program (SCOPSA) noong April 30, 2014 sa DA-Quirino Experiment Station sa pagdaraos ng Grand Harvest Festival.

Ang SCOPSA ay isang programa para masolusyonan ang problema sa isyu ng soil erosion o pagguho ng lupa na ngayon ay kinikilala na bilang National Program.

Katuwang rin sa pag-iimplenta ng soil conservation program ang DA-Bureau of Soil and Water Management (DA-BSWM), Quirino State University (QES), CropLife Philippines, Lokal na pamahalaan ng Nagtipunan at mga representante ng AFCs.

Isinagawa naman sa pakikipagtulungan ng Kagawaran ng Pagsasaka, CropLife Phils at ng Municipal Agriculturist Office (MAO) ang kauna-unahang SCOPSA Technology Demonstration Farm (TechnoDemo) sa barangay San Dionisio II, Nagtipunan at ginaya rin ng ibat-ibang probinsya sa rehiyon dos.

Mula noon ay naging aktibo na ang MAFC sa anumang development committee sa LGU bilang representante ng mga magsasaka at mangingisda. Kinikilala ring miyembro ang MAFC sa Local Poverty Reduction Action Team (LPRAT), sa Municipal Peace and Order Council (MPOC), Sa Bids and Awards Committee (BAC), Municipal Nutrition Council (MNC), Municipal Disaster Risk Reduction Management Council (MDRRMC) at sa Municipal Development Council (MDC) at sa iba pang development councils.

Aktibo rin ang MAFC sa mga aktibidad na isinasagawa ng LGU-Nagtipunan at sa iba pang mga ahensya ng gobyerno. Sa matatag na relasyon ng MAFC sa ibang ahensya ay marami na ring resolusyon ang naaprubahan at project proposals ang naisakatuparan na. Kabilang sa mga ito ay ang kanilang adbokasiya sa pagsusulong ng programang SCOPSA na pinunduhan ng Agricultural Training Institute (ATI) sa pagsasagawa ng may walong (8) Farmers Field School-SCOPSA sa ibat-ibang barangay sa munisipyo ng Nagtipunan. Nakakuha rin sila ng pinansyal na suporta mula sa LGU-Nagtipunan at paggawa ng mga ordinansa mula sa legislative body para sa implementasyon ng SCOPSA sa buong bayan.

Sa tulong ng Kagawaran ng Pagsasaka rehiyon dos ay nakapagtatag na rin ng 23 hectares compact demo sa munisipalidad ng Nagtipunan. Nagbigay rin ang ahensya ng iba pang tulong sa MAFC tulad ng seedlings, kalabaw, multi-purpose drying pavement at iba pang kagamitan sa pagsasaka.

Pinunduhan din Philippine Red Cross ang dalawa pang FFS na isinagawa naman sa barangay Landingan at Disimungal.

Sa ngayon ay kukuha pa sila ng anim pang miyembro ng MAFC na tutulong sa kanilang programang SCOPSA sa malawakang produksiyon ng seedlings na ipapamahagi sa mga barangay at sa mga magsasaka na sumusuporta sa SCOPSA.

Malaki rin ang pasasalamat ng kanilang tagapangulo sa ipinapakitang suporta ng

Kagawaran ng Pagsasaka sa mga katulad nilang magsasaka para mapanatili ang kaayusan sa sistema ng pagsasaka doon.

Samantala, ipinagbubunyi ng lokal na pamahalaan sa Nagtipunan ang unti-unting pagkilala sa ginagampanang tungkulin ng MAFC sa bayan. Umaasa silang masusungkit ng MAFC ang taunang "GAWAD SAKA" pang-nasyunal ngayong taon.

Ayon sa kanilang Alkalde na si Ginang Nieverose

Meneses, manalo man o matalo sa taunang prestihiyosong parangal na isinasagawa ng Department of Agriculture, makakaasa pa rin sila ng tulong mula sa kanilang munisipyo

"Ang adhikaing tinatahak ngayon ng MAFC ay isang malaking karangalan sa buong bayan ng Nagtipunan! Makakaasa kayo ng malaki at tuloy-tuloy na suporta sa ating munisipyo para mapalawig pa ang sektor sa agrikultura,"aniya.

REGIONAL WINNER/NATIONAL NOMINEE



Sinong mag-aakala na ang dating simpleng kakanin ay dinadagsa na ngayon ng masa? Ang bawat pagtitiyaga ay may kapalit na ginhawa ika nga.

Si Ginang Maria Gloria Guifaya o Aling Maria ang itinanghal na regional winner ngayong taon sa 2016-2017 Gawad-Saka Search sa Lambak ng Cagayan para sa Katangi-tanging Agri-Entrepreneur. Siya ay ipinanganak at lumaki sa Magassi, Cabagan, Isabela ngunit hindi naglaon ay lumipat ang kanilang pamilya at naninirahan sa Magsaysay, Naguilian, Isabela. Taong 1975 nang siya ay ikasal sa edad na 17 at nabiyayaan ng tatlong anak.

Sa kanyang murang edad, naipamulat na sa kanilang magkakapatid ang pagtulong sa mga magulang. Dito nakitaan ng interes at galing sa pagluluto si Aling Maria. Kaya naman napagpasyahan ng pamilya na subukang magluto at magtinda ng kakanin upang may pang tustos sa kanilang mga gastusin sa araw-araw. Bilang panganay sa magkakapatid, ipinangalan kay Aling Maria ang kanilang simpleng negosyo, ang

Katangi-tanging Agri-Entrepreneur **MARIA GLORIA L. GUIFAYA** **MARIA'S NATIVE BIBINGKA**

Magsaysay, Naguilian, Isabela

"Maria's Native Bibingka".

Nagsimula ang pamilya sa paggawa ng kakanin mula sa kamoteng kahoy. Hango sa estilo at kultura ng mga Ybanag sa paggawa ng bibingka, pumatok sa panlasa ng mga mamimili ang kakanin. Ngunit sa kabila ng magandang takbo ng negosyo, nagkaroon ng malubhang karamdaman ang nanay ni Aling Maria. Mabigat man sa loob ng mag-anak, sinikap pa rin nilang igapang ang kanilang hanapbuhay.

Bilang isang ina, asawa at ate, si Aling Maria ang tumayong magulang sa kanyang mga kapatid at siya ang namahala sa kanilang negosyo. Dahil tumaas ang demand sa kanilang produkto, si Aling Maria ay nakatanggap ng mga modernong kasangkapan sa pagluluto sa pamamagitan ng pag-loan sa Small Enterprise Technology Upgrading Program o SET-UP mula sa Department of Science and Technology (DOST) na nagkakahalaga sa P600, 000. Dahil sa proyektong natanggap, nakakagawa na ng mahigit 100 pakete ng bibingka si Aling Maria na pumapalo sa P70, 500 ang kinikita kada buwan. Dinadayo rin ng mga balik-bayan ang kanyang pwesto at nakakarating pa sa ibang bansa ang kanyang produkto.

Sa paglago ng Maria's Native Bibingka, nakapagpatayo na ng sariling bahay si Aling Maria. Nakapagpundar narin siya ng isang second hand na tricycle at nakabili ng lote na ngayon ay tinatamnan na ng palay na malagkit at kamoteng kahoy. Sa kasalukuyan, ginagawa na rin ang konstruksyon ng kanilang restaurant upang mapalawak pa ang kanilang merkado at ang pagnenegosyo sa pagkain.

Nagbukas rin ng oportunidad ang negosyo ni Aling Maria sa anim nitong trabahador at nakatanggap pa ng kumpletong benepisyo mula sa Social Security System (SSS), libreng pagkain at kasera. Nakakatulong din si Aling Maria sa mga magsasaka sa pamamagitan ng pag-supply sa kanya ng kanilang mga produkto partikular ang kamoteng kahoy, niyog at bigas na malagkit.

Sa pakikipag-ugnayan sa Kagawaran ng Pagsasaka Rehiyon Dos, malaki ang pasasalamat ni Aling Maria sa pagbabahagi ng kaalaman at tulong sa teknikal na aspeto upang mapaganda ang kanyang produkto katulad ng Proper Packaging and Labeling with Good Manufacturing Practices katuwang ang iba pang mga ahensiya.

"Masarap magtrabaho kapag mahal mo ang ginagawa mo at alam mong nakakatulong ka sa iyong kapwa, maging positibo lang sa buhay kahit ano pang pagsubok ang dumating," pahayag ni Aling Maria.

Sa katangiang taglay ni Aling Maria, naniniwala ang Kagawaran ng Pagsasaka Rehiyon Dos na malayo pa ang kanyang mararating at umaasang maipanalò ang nasyonal na kategorya bilang Katangi-tanging Agri-Entrepreneur.

Kapag nagtutulungan ang pamilya, bubuhos ang biyaya. Ito ang prinsipyong pinanghahawakan ni Ginoong Ronnie Galamay o Kapitan Ronnie na siyang nagdala sa tinatamang tagumpay ngayon ng kanilang pamilya. Sa ipinamalas na determinasyon sa larangan ng agrikultura, ang pamilya ni Kapitan Ronnie ng Brgy. Bagong Sikat, San Mateo, Isabela ang hinirang ngayong taon bilang Gawad-Saka Regional Winner for Outstanding Farm Family. Si Kapitan Ronnie din ang nominado ng rehiyon sa nasyonal na kategorya ng nasabing parangal.

Bata pa lamang si Kapitan Ronnie ay nakagawian na niyang tumulong sa mga magulang sa pagtaguyod ng kanilang pamilya. Habang siya ay nag-aaral, inilalaan niya ang kanyang bakanteng oras sa pagpapaunlad sa kanilang munting sakahan. Subalit nang dumating ang isang matinding kalamidad sa kanilang lugar, tinamaan ang kanilang maisan at palayan na tanging pinagkukunan nila ng kanilang ikinabubuhay. Mabigat man sa kanyang kalooban, napilitan siyang huminto sa kursong Bachelor of Science in Civil Engineering at ibinangon ang kanilang pamumuhay. Iginugol niya ang oras sa pamamahala sa kanilang sakahan at sa pagsali sa organisasyon ng mga kabataan sa kanilang barangay. Sa loob ng maraming taon, nagsilbing Kabataan Barangay President si Ginoong Galamay hanggang sa nakilala niya ang kanyang naging kabiyak na si Ginang Daisy Paculor Galamay.

Mula sa isang ektaryang sakahan na ipinamana ng magulang ni Kapitan Ronnie, naging responsible ang mag-asawa sa kanilang apat na anak sa pamamagitan ng pagbubukid. Ngunit doble kayod man ang dalawa, hindi pa rin sapat ang kanilang kinikita upang mairaos ang pamilya. Napilitang makipagsapalaran sa ibayong dagat si Ginang Daisy upang matulungan ang asawa.



REGIONAL WINNER/ NATIONAL NOMINEE

Katangi-tanging Farm Family **RONNIE V. GALAMAY** **AT ANG KANYANG PAMILYA**

Bagong Sikat, San Mateo, Isabela

Habang abala sa pagsasaka, umupo rin bilang Barangay Kagawad sa loob ng tatlong taon ang nominado hanggang sa siya ay nailuklok sa kanyang kinalalagyan ngayon bilang Punong Barangay ng Bagong Sikat. Bilang isang lider, pinatunayan ni Kapitan na ang paglilingkod sa kapwa ay nakikita sa gawa at pag-assenso ng komunidad.

Kaya naman noong 2007 hanggang 2015, siya ay napiling Board of Director at Farmer Led Extensionist (FLE) ng kanyang sinasakupan. Sa tulong ng Kagawaran ng Pagsasaka, sinubukan ni Kapitan Ronnie na magtanim ng isang ektaryang hybrid rice na nagsilbing demo site sa kanilang barangay. Mula sa 50 hanggang 60 na kaban na dating inaani, umabot ng mahigit 180 na kaban ng palay ang kanyang sinaka. Lubos ang pasasalamat ni Kapitan dahil malaki ang naiambag nito sa kanyang pamilya at maging sa kanyang mga kapwa magsasaka na nahikayat subukan ang mga teknolohiyang ipinakilala ng nasabing Kagawaran.

Sa kasalukuyan, ang ilan sa mga anak ni Kapitan Ronnie at Ginang Daisy ay nakapagtapos na ng pag-aaral at may kanya-kanya ng trabaho at pamilya. Gayunpaman, hindi nakakalimot ang kanilang mga anak sa responsibilidad na kanilang ginagampanan tuwing panahon ng taniman at anihan. Sa katunayan, nakapagpundar na sila ng mga kagamitan sa pagsasaka katulad ng combine rice reaper at harvester, second hand na elf at iba pa sa tulong ng kanilang panganay na anak na nakikipagsapalaran sa ibang bansa.

"Hindi ko po pinalaki sa luho ang mga anak ko. Gusto ko pong matuto silang harapin ang mga pagsubok ng buhay. At kapag napagtagumpayan na nila yun, masarap sa pakiramdam bilang magulang nila na nakikita kong nagpurpursige talaga yung mga anak namin. Very proud ako sa kanila," pahayag ni Ginang Daisy.

Samantala, hiningi naman ni Kapitan Ronnie ang pagkakataon upang pasalamatan ang mga tumulong sa kanila sa likod ng kanilang tinatamang tagumpay.

"Sa Diyos po kami humugot ng lakas kaya po namin nalalampasan lahat. Kung hindi din po dahil sa kanya, hindi kami mabibiyayaan ng mga mababait at responsableng mga anak. Hindi ko po maipaliwanag yung saya naming mag-asawa ngayon dahil pinarangalan po ng DA yung pagsisikap ng aming pamilya. Salamat po inyong lahat,!" pagwawakas ni Kapitan Ronnie.

Nang makaipon, bumili ang mag-asawa ng isang ektaryang sakahan at pinalago ang pagtatanim ng palay. Umuwi ng bansa si Ginang Daisy upang may katuwang si Kapitan Ronnie sa kanilang kabuhayan. Dahil nagbunga ang kanilang pagsisikap, muling nakapagpundar ang pamilya ng isang ektaryang maisan. Naging maganda ang pasok ng kita sa pamilya kaya naisip ni Kapitan Ronnie na makipagsapalaran din sa pag-aalaga ng baboy at manok, pagtatanim ng kamote, mani at tabako. Mula sa kanilang produkto, nagsimula si Ginang Daisy ng isang maliit na negosyo kasama ang kanyang anak sa pamamagitan ng pagbebenta ng mga kakanin, kamoteng butchi, kamote chips at adobong mani. Upang maitawid ang

kanilang edukasyon, tumutulong naman ang iba nyang mga anak sa pagtatrabaho sa bukid at sa pag-aalaga ng mga hayop.

LIST OF MATURED TECHNOLOGIES

Rice Technologies

- Released new varieties as a result of the “Accelerating the Adoption of Next Generation Varieties for the Major Ecosystems in Region 02”
 - Irrigated lowland rainfed -9 NSIC Varieties
 - Irrigated Hybrid- 14 NSIC Varieties
 - Irrigated Special Purpose – 2 NSIC Varieties
 - Drought-Prone -13 NSIC
 - Saline Prone – 7 NSIC Varieties
- Low-cost technologies derived from the Assoc Tech project
 - Alternate Wetting and Drying
 - Use of high quality seeds
 - Rice Crop Manager
- Trichoderma spp as control for sheath blight and rice blast in upland rice
- Use of mechanical transplanter
 - Use 20 kg seeds/0.50ha; seedlings transplanted 15DAS
 - Increased yield by 0.35-0.74mt/ha
 - Reduced cost by P0.27-0.48/kg
 - reduced labor by 14-17 MD/ha
- Database Management System of Machinery Equipments and Post-harvest facilities was developed to determine the sufficiency level of machinery and units’ gap. The information can be used as basis in crafting Masterplan 2018-2022 of the RAFMech.
- Results of using FBD facilities during wet season can save rice farmers at least an average of P2, 208 in the drying cost alone

Corn Technologies

- New approved and registered CVRC OPV varieties
- Nutrient Expert Software – a comprehensive decision-support tool which provides instant fertilizer recommendation without internet connectivity.



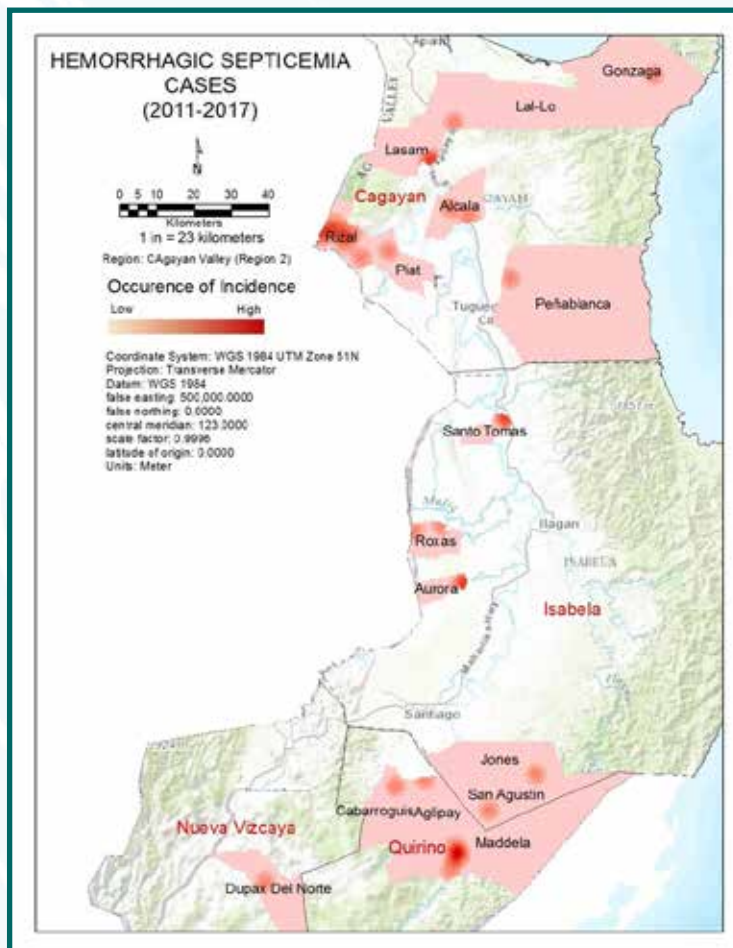
Fruits

1. LRALviar Pride- a new NSIC registered longan variety with NSIC code : NSIC 2016 Lg01.



Livestock

1. Developed map for Hemorrhagic septicemia (HS) in Region 02 for preventive management of the disease



DA-QUIRINO EXPERIMENT STATION WAS ACCREDITED AS **AGRI-TOURISM FARM BY THE DEPARTMENT OF TOURISM (DOT) AS COVERED BY ACCREDITATION NO. AGR-R0200000071-2017 ISSUED BY DOT LAST JUNE 27, 2017.**



Accreditation No. **AGR-R02-00000071-2017**

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DUNGO, AGLIPAY, QUIRINO

having complied with the requirements prescribed by the Department of Tourism is hereby granted
ACCREDITATION *as a*

AGRI-TOURISM FARM/SITE

pursuant to the provisions of Republic Act No. 9593 and the Rules and Regulations promulgated by the Department of Tourism to implement the intent and purpose of the said Republic Act.

Issued on 27 June 2017 in the City of Tuguegarao, Cagayan, Philippines.

FOR THE SECRETARY:



VIRGILIO M. MAGUIGAD, EnP
Regional Director



This accreditation is valid until 26 June 2018 unless sooner cancelled, revoked, or suspended for cause.

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Maize Silky Sip, a healthy twist to an unusual drink

Corn Silky SipMaize or corn silk (*Maydis stigma*) is a collection of fine, soft, fiber-like yellowish threads from the flower of the maize plant that is generally considered as a waste product.

However, this is no longer the case for the research team from the Cagayan Valley Research Center (CVRC) of the Department of Agriculture–Regional Field Office (DA-RFO) 2 in Ilagan, Isabela, as they continuously diversify the many uses of corn, this time, focusing on the silk.

The Cagayan Valley region is dubbed as the Philippines’ corn capital being the country’s top producer of corn. Together with other agricultural crops in the region such as rice, farmers rely heavily on corn for livelihood. With investments on research and development (R&D), CVRC, led by its Station Manager Rose Mary Aquino, explored the potentials of the maize silk in the hopes of adding more product value and at the same time increasing the income of corn farmers in the province.

“So far, ang dine-develop namin ay coming from the grains of corn such as noodles and coffee, among others. Then we came to ask ourselves, ano ang pwede nating gawin sa waste?” Aquino shared. Such idea inspired her and her team to come up with a project to develop a product using silk.

Traditionally, maize silk is used for its diuretic properties, among others. Indigenous Western communities were known to have been using maize silk as remedy for urinary tract infections (UTI), kidney and bladder infections.

In the medical world, diuretics are medications designed to increase the amount of water and salt expelled from the body in the form of urine. These medicines are often prescribed to help treat high blood pressure, as it reduces the amount of fluid in the blood vessels. Additionally, diuretics can aid in weight loss, too.

Other health claims of corn silk according to some studies include its ability to regulate blood sugar levels; a good source of Vitamin C; has anti-inflammatory properties; and facilitates blood clotting. In fact, a study on the phytochemical components and antioxidant activity of various extracts of corn silk demonstrated that it is rich in phytochemicals such as alkaloids, amino acids, carbohydrates, phenolic compounds, terpenoids, steroids, proteins and tannins, and has also exhibited high antioxidant properties.

Focusing on these health benefits, Aquino’s team looked into utilizing the silk as a healthy juice drink, adding to the existing product line of corn called the Mangi Maxi.

Derived from the words Mangi, an Ibanag term for corn, and Maxi, which means to maximize, Mangi Maxi offers a wide array of corn products such as coffee, noodles, and pastries to name a few.





With a brand name Maize Silky Sip, this newest addition to the Mangi Maxi product line is a healthy juice drink made out of corn silk. Processed through boiling and fermentation, it is blended with lemon grass using honey as sweetener to make the taste more appealing especially to the health-conscious market.

The Maize Silky Sip is currently packaged in a 350-ml glass bottle and priced at Php 25. It was given third prize for “Best Product” category from the recently held 13th Agriculture and Fisheries Technology Forum and Product Exhibition organized by the Bureau of Agricultural Research (BAR) on 8-10 August 2017.

However, to further improve the packaging without compromising market competitiveness, the research team is now collaborating with the Department of Science and Technology (DOST) to analyze and establish its nutritional value and especially to determine appropriate natural preservatives that can prolong the shelf life of the product. Presently, a bottle of the Maize Silky Sip can last for up to five days.

Also, in collaboration with the National Nutrition Council of the Philippines, the research team is looking into the possibility of promoting the Maize Silky Sip safe for infant use, targeting those who suffer from pediatric UTI.

With funding support from BAR, under its National Technology Commercialization Program (NTCP), this product development project takes off from the existing projects on white and purple corn implemented by DA-RFO 2.

“For now, we are undergoing field trials to establish when is the best stage to gather the silk of the maize plant, without affecting the grains,” said Aquino. Her team is also set to establish data on the silk’s storability, and to determine the best corn variety to use for the Maize Silky Sip.

“We are hoping that one day, this product can compete with the highly commercialized natural fruit juices available in the market. Not only does the Maize Silky Sip juice promote our local corn industry, but more importantly, it will help uplift the lives of our corn farmers,” Aquino added.

Ingredients: Water, corn silk extract, sugar, honey, non-artificial plant-based flavoring.

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Net Content: 350 ml

Maize Silky Sip is a refreshing and healthy drink made from boiled corn silk. It has diuretic properties and antioxidants from added honey and other plant-based flavorings.

Serve Chilled

Cagayan Valley, being the top producer of corn in the Philippines, contributes about 23.9% to total corn production in the country. Through the initiative of the Department of Agriculture – Cagayan Valley Research Center (DA-CVRC), an increase in the consumption of corn as food staple was seen in the region as a result of its development activities.

An effect of the increase in the production of corn in the region is the increase of corn by-products such as the corn silk. Corn silk is traditionally considered as waste material in corn production. As part of its research and development activities, the DA-CVRC formulated a product that would add value to what is commonly regarded as an agricultural waste. As per initiative of the center, it utilized corn silk extract as an ingredient for the production of corn silk juice (Maize Silky Sip) which is regarded as a traditional medicine for several illnesses in humans.

In this regard, it is important to strengthen the study on the health benefits and medicinal properties of corn silk extract as well as the marketability of products from corn silk extract to enable farmers to utilize more products from parts of corn and ultimately increase their income.

- Maize Silky Sip won 3rd most innovative product during the 13th National Technology Forum at DA-BAR
- Important alternative natural-based treatment
- Numerous studies point to the many medicinal properties of corn silk such as treatment of cystitis, edema, kidney stones, diuretic, prostate disorder, and urinary infections as well as bedwetting and obesity
- Other treatments corn silk are used for are anti-fatigue activity, anti-depressant activity, kaliuretic and antioxidant activity
- Consists of proteins, vitamins, carbohydrates, calcium, potassium, magnesium and sodium salts, volatile oils and steroids, and saponins

WHY CORN SILK?

- Health Benefits**
 Corn silk has diuretic properties, treats urinary tract infection and keeps kidney stones at bay.
- Added Benefits**
 Its ingredients like honey and plant-based flavorings provide for additional antioxidants in the body.
- Additional Income for Farmers**
 Processing corn silk provides additional income for farmers because more parts of the corn is utilized.

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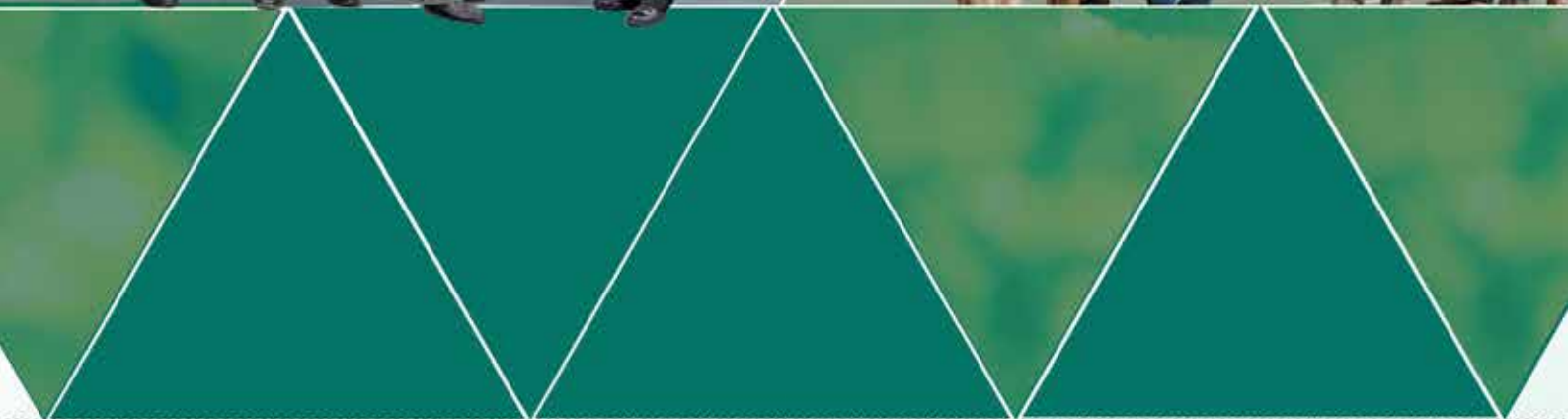
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