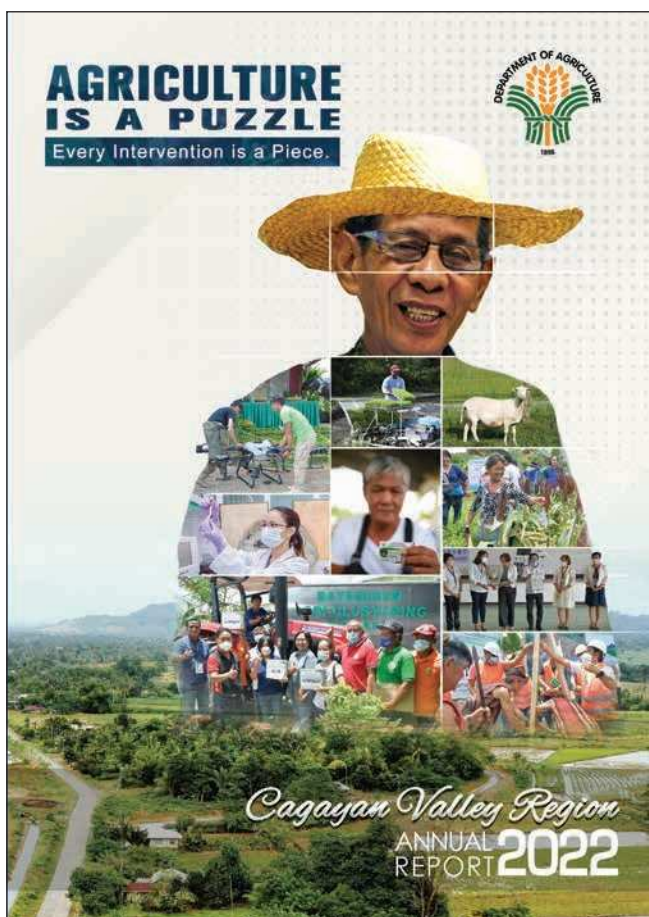


AGRICULTURE IS A PUZZLE

Every Intervention is a Piece.



Cagayan Valley Region
ANNUAL REPORT 2022



ABOUT THE COVER

In a region where its Agriculture Sector is wrought with varied circumstances every year, its pieces (sub-sectors) remain intact and firm. Thus, this year's theme, **“AGRICULTURE IS A PUZZLE, EVERY INTERVENTION IS A PIECE”**, highlights the importance of every contribution of our partners and other commodity industry value chain players towards the Cagayan Valley Region's economic growth.

The **farmer** in the image represents the whole of our society. As the backbone of the economy, every intervention - the pieces that make up the puzzle - matter most to them.

As the government's arm in agricultural development in the region, the Department of Agriculture Regional Field Office No. 02 swears to continuously strive to be better and more responsive and hopes to paint smiles on the faces of the people it stands for, the farmers, one at a time until the *puzzle* unfolds.

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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 to 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.

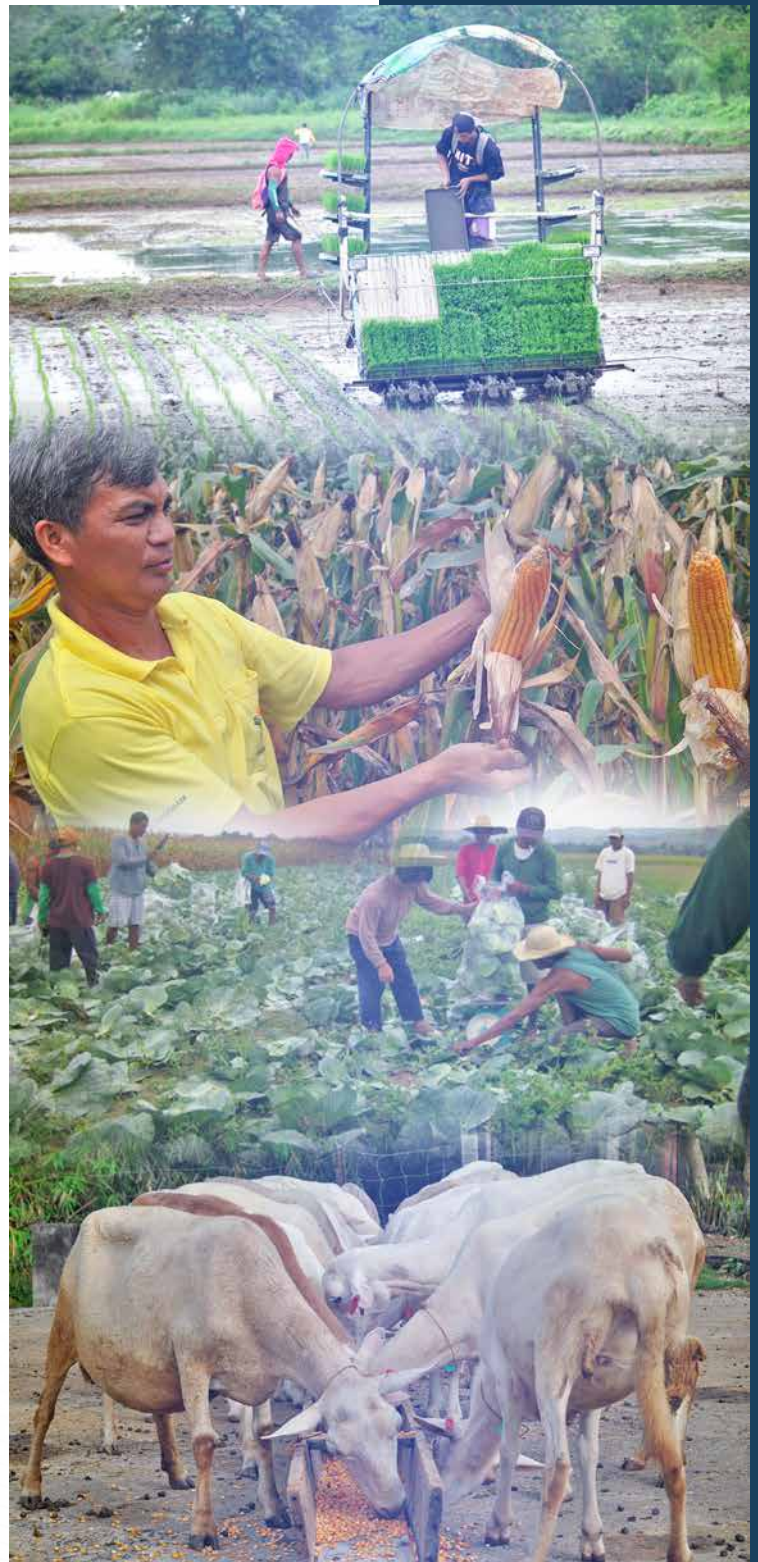
It shall also use a bottom-up self-reliant farm system approach that will emphasize social justice, equity, productivity, and sustainability in the use of agricultural resources.

Vision

A food-secure and resilient Cagayan Valley with prosperous farmers and fisherfolk.

Mission

To collectively empower farmers and fisherfolk and the private sector to increase agricultural productivity and profitability, taking into account sustainability and resilience.





Message

DAre to soar!

The 2022 storyline of the Cagayan Valley Region's agriculture sector unveils numerous success stories of our farmer-beneficiaries and transformative strategies devised to expedite the delivery of our products and services.

This year, the region was inevitably confronted with various challenges. However, geared by the mantra of attaining "Masaganing Ani at Mataas na Kita", DA RFO 02 managed to stay firm and magnified its commitment to boost the region's economy.

This was more exemplified through the distribution of seeds, agricultural machineries, equipment, facilities, and construction of irrigation services which catered a total of 474,935 farmer-individuals and 652 groups. These beneficiaries rated the delivery of projects or interventions to be at 100% in terms of satisfaction and timeliness criteria.

Under the Production Support Services (PSS), a total of 8,014,225.97 kilograms of seeds, 4,167,960 kilograms of planting materials, 1,199,787 bags of social ameliorants, 161 animals, 5,973 semen straws, 556,500 units of drugs, biologics, and vaccines, and 16,020 farm supplies were distributed in the region to increase productivity and the level of crops, livestock, and poultry production. Under the Extension Support, Education, and Training Services (ESETS), there were 33 various trainings conducted wherein a total of 1,581 farmers and Agricultural Extension Workers (AEWs) were capacitated. Under the Agricultural Machineries, Equipment, and Facilities Support Services (AMEFSS), there were 55 agricultural machineries and equipment distributed to reduce production cost, minimize post-harvest losses, and increase the value of agricultural commodities. Under the Irrigation Network Services (INS), a total of 440-hectare service area was generated from the constructed 90 units irrigation network.

Furthermore, the promotion and adoption of various R4D technologies or innovations promptly addressed crop failures and damage during the occurrence of weather-related events, climate phenomena, disease outbreaks, and new plant pests and animal diseases.

The increasing quantity of requested assistance for Biological Control Agents (BCAs) by our Farmers Cooperatives and Associations (FCAs) and Local Government Units (LGUs) revealed the technologies' high acceptance for balanced pesticide use strategy. This supports the production of pesticide-residue safe fresh farm products which was pioneered in the region.

The effective regulatory transboundary disease management was realized through the continuous issuance of certificates for African Swine Fever (ASF) zone upgrading from Red (infected) to Pink (buffer) and stringent monitoring of our borders. The marketing support and partnerships were further strengthened.

These are just few of the several results of teamwork approach in project, program, and/or activity (PPA) implementation. Indeed, the outstanding performance of the DA RFO 02 is attributed to the collective effort of all our partners and other commodity industry value chain players.

May the narratives of victories embedded between the pages of this report inspire us to cultivate more of our agricultural lands and more of our spirit of service-orientedness to persistently ensure a food-secure and resilient Philippines with empowered farmers and fishers.

Let us take a look at what we have grown through what we have gone throughout the year 2022 and pursue our call in the years ahead as we continually *DAre to soar!*


NARCISO A. EDILLO, M.A.Ed.
 Regional Executive Director



Executive Summary

The Field is Filled

In 2022, the field was filled for crop production. The agricultural land of the region had an area devoted to rice and corn of more than **50%** and **34%**, respectively. The traces left by the Covid-19 pandemic, disease outbreaks on crops and livestock, and natural calamities had posed challenges in the 2022 agriculture sector performance of the Cagayan Valley Region. Despite these arising concerns, the region's economy grew by **8.0%**, exceeding the 5.1% growth in 2021 and growth target of 5.8% to 6.8% for 2023. Our growth rate was higher than the country's Gross Domestic Product (GDP) growth rate of 7.6%.

The Cagayan Valley Region was the sixth (6th) fastest growing region in the country. The region's GDP at constant 2018 prices grew from Php389.9 billion in 2021 to **Php421.1 billion** in 2022. The Agriculture, Industry, and Service Sectors all registered growth in this year. The Agriculture, Forestry, and Fishing (AFF) Sector which accounted 27.9% of the economy grew by 0.5%. The main growth drivers were crop production and support activities, fishing, and aquaculture.

In September 2022, the Cagayan Valley Region notched another commodity identity as Kasibu, Nueva Vizcaya was dubbed as the **"Citrus Capital of Luzon"**. The region strived to retain its other commodity titles in the entire Philippines such as the **Corn Capital** (City of Ilagan, Isabela) with a total production of **1,960,108.42 MT** and 2nd Rank Rice Producer breaking the record for the past 15 years with a total production of **2,928,165.70 MT**. The region contributed **23.7%** and **14.8%** to the country's overall corn and palay production, respectively. Cagayan Valley was also known as the **Peanut Capital** (Enrile, Cagayan) with a total production of **3,296.83 MT** in **2,382.35 hectares** and **Mungbean Capital** (San Mateo, Isabela) with a total production of **6,195.95 MT** in **13,861.90 hectares**.

To maximize the region's comparative advantage in terms of production in both volume and area, major staples exceeded **100%** sufficiency level such as **rice (294.98%)**, **white corn (313.02%)**, **cassava (235.11%)**, **taro/gabi (144.77%)**, **bottle gourd/upo (110.07%)**, **squash fruit (168.12%)**, **banana-saba (400.49%)**, **pineapple (501.73%)**, **mango (353.38)**, **duck egg (377.92%)**, **chicken meat (127.57%)**, **beef (262.99%)**, **carabeef (342.16%)**, and **chevon (26.95%)**.

As one of the major grain producers and as part of the movement in addressing food sufficiency in the Philippines, the region remained as **a reliable local exporter of rice, corn, and other commodities to other regions**. The DA Cagayan Valley constantly creates transformative strategies in addressing agricultural productivity, profitability, and food safety. The National Agriculture and Fisheries Modernization and Industrialization Plan (NAFMIP) 2021-2030 served as the region's guide on how to (1) diversify incomes and employment of smallholder farmers and fisherfolk; (2) articulate the often underrated and implicitly-defined role of urban and agropolitan (peri-urban) areas in agrifishery growth; (3) optimize synergistic impacts using a spatial framework to geographically focus investments; and (4) match the supply and demand for nutritious food based on safe and balanced traditional Filipino diet (TFD) guided by nutrition and environmental science.

The overall 2022 agri-fishery sector transformation process and progress are attributed to the multi-sector participation among national government agencies, local government units, and private and non-government stakeholders.

Source: PSA and NEDA



2nd Rank
Cagayan Valley as
Rice Producer in the Philippines
2,928,165.70 MT
Total Production (2022)



1st Rank
Cagayan Valley as
Corn Producer in the Philippines
1,960,108.42 MT
Total Production (2022)



"Peanut Capital"
Enrile, Cagayan



"Mungbean Capital"
San Mateo, Isabela



"Citrus Capital of Luzon"
Kasibu, Nueva Vizcaya



Beneficiaries served by Program

Rice Program
 **461,551 Individuals**
25 Groups

Livestock Program
 **348 Individuals**
37 Groups

Halal Food Industry Development Program
 **60 Individuals**

Corn Program
 **11,373 Individuals**
29 Groups

Organic Agriculture Program
 **921 Individuals**
69 Groups

Other Support Services
 **682 Individuals**

High Value Crops Development Program
 **492 Groups**

PHYSICAL ACCOMPLISHMENTS by Program/ Project



DEPARTMENT OF AGRICULTURE
Regional Field Office No. 93

**SOLAR POWERED FERTIGATION
SYSTEM (SPFS)
RICE PROGRAM**

Location: Davao Oriental, Compost Valley
Municipality: Santa Barbara, Davao
District: Compost Valley
Project Code: 93-01-01-01

Project Start: 2011
Project End: 2015

Contact: 081-881-1111

Rice Program

CAGAYAN VALLEY AS A RICE-INDUSTRIALIZED REGION



Reinforced the delivery of the Production Support Services:



Hybrid seeds to 237,565 farmers covering 267,390 hectares and inbred seeds to 94,067 farmers covering 97,645 hectares in the provinces of Cagayan and Isabela. This intervention alone ensured the availability of 2,928,104.3 MT of rice produced in the two (2) provinces.



Fertilizer discount vouchers for Wet Season amounting to Php2,262.00 for hybrid and Php1,131.00 for inbred per hectare to 97,114 farmers covering 112,515 hectares to help farmers cope with the increasing price of inputs and increase their productivity



22,405 bags soil ameliorants to 12,185 farmers aimed at improving soil condition and enhancing soil nutrients



33,211 bags of procured seed reserves to rehabilitate areas affected by tropical storm Lorita, Karding, Maymay, and Paeng; a quick response strategy for calamity-affected areas in Region 02



787 bags of seeds to 94 farmers covering 787 hectares to support the registered seed requirement of seed growers in the region. These sustained the availability of certified seeds for procurement and distribution to farmers.



200 liters insecticide, 110 liters bactericide, 160 kg rodenticide, and 175 kg fungicide for the 683 hectares affected by pests and diseases. These served as another quick response strategy to affected farmers to avoid high production losses.

Intensified the conduct of activities under the Extension Support, Education, and Training Services



Conducted five (5) Rice Crop Manager (RCM) Campaigns, in collaboration with the Agricultural Training Institute (ATI), six (6) batches of training on Good Agricultural Practices, and four (4) batches training on the Operation and Maintenance of Farm Machineries and Equipment. These activities helped sustain the various interventions.



Aired radio programs 40 times. This was a massive information campaign strategy for technology dissemination especially to farmers in the remote areas.



Generated 95,000 Rice Crop Manager (RCM) recommendations a strategy on digital agriculture on fertilizer recommendation



Produced and distributed 40 Audio Visual Presentations (AVPs) and 15,000 copies of Information, Education, and Communication (IEC) Materials for better and wider information advocacy and technology dissemination



Provided incentives to 684 Agricultural Extension Workers (AEWs) in support to the LGUs who have been the strong partners of the Rice Program in the implementation of its projects or interventions



Carried out the distribution of the Agricultural Machineries, Equipment, and Facilities Support Services



Installed four (4) units recirculating dryers in the production area of four (4) FCAs for efficient custom-drying at village or commercial scale especially during wet season



Distributed eight (8) units hauling trucks to eight (8) FCAs to provide essential service; linking the FCAs to institutional or private buyers of rice produce



Constructed one (1) unit warehouse as a continuous intervention along the rice supply chain not only to enable cost-effective storage but also to help maintain the availability of rice



Expedited the implementation of projects and activities under the Irrigation Network Services

The Rice Program endeavored to make irrigation water for rice crop production at various stages.



Completed three (3)
Solar-Powered Fertigation
Systems (SPFS) covering a
24-hectare service area



Constructed two (2) Small
Water Impounding Projects (SWIP)
and three (3) Diversion Dams (DD)
generating a 128-hectare
additional irrigated rice area



Corn and Cassava Program

CAGAYAN VALLEY AS A PREMIER EXPORTER OF PROCESSED CORN AND BY-PRODUCTS IN THE PHILIPPINES

**SOIL ANALYSIS
BASED FERTILIZER APPLICATION
+ BIO-N BIOZOME & CARRAGEENAN**
FARMER/COOPERATOR : FELICIDAD LUCENA
ACTUAL AREA : 2,450 sq.m
PLANTING DATE : NOVEMBER 19, 2021
VARIETY : PIONEER 3774

NUTRIENT MANAGEMENT

TIME OF APPLICATION	KIND & QUANTITY OF FERTILIZER
During Planting	Organic Fertilizer - 2.5 bags Bio-N - 2.5 packs
Basal (up to 10 DAP)	16-20-0 - 0.5 bag 21-0-0 - 1.26 bags
Side-dress (30 DAP)	46-0-0 - 0.75 bag 0-0-60 - 0.26 bag Biozome - 1 kilogram
Vegetative stage (20 DAP)	Carrageenan - 0.7 liter
Vegetative stage (28 DAP)	Carrageenan - 0.7 liter
Vegetative stage (35 DAP)	Carrageenan - 0.7 liter

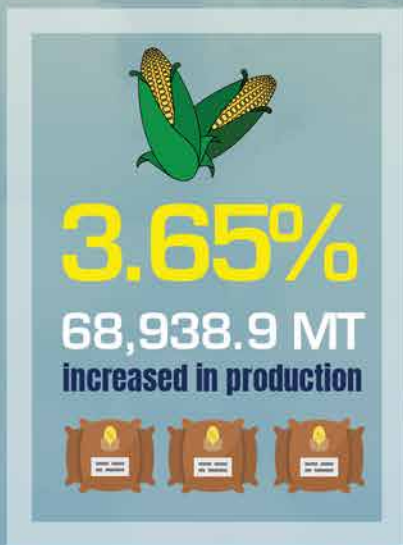
METHOD OF PLANTING: DOUBLE ROW
USING JABBER PLANTER

♦ DAP - Days After Planting

PEST MANAGEMENT

TIME OF APPLICATION	KIND & QUANTITY OF BIOLOGICAL CONTROL AGENT	KIND & QUANTITY OF CHEMICAL CONTROL
Before planting	Earwig - 2500 individuals	
Vegetative stage (9 DAP)		Insecticide - 0.24 liter
Vegetative stage (19 DAP)	Metarhizium - 10 packs	
Vegetative stage (25 DAP)		Herbicide
Vegetative stage (33 DAP)	Beauveria - 10 packs	
Vegetative stage (42 DAP)		Insecticide
Vegetative stage (53 DAP)	Isaria - 10 packs	
Reproductive stage (58 DAP)	T. chilonis - 13 cards	
Reproductive stage (58 DAP)	T. evanescens - 13 cards	

Top Corn Producer in the Philippines



REGION 02 Corn Production



Challenged to retain its title as the Top Corn Producer in the Philippines, Region 02 had a total corn production of 1,960,108.6 MT in CY 2022. The production was increased by 68,938.9 MT or 3.65% from the 1,891,169.70 MT CY 2021 production estimates. The increased production came from the expansion area in the region.

Established 15 hectares on-station certified open-pollinated varieties (OPV) white flint and glutinous corn with a production of 30,000 kg benefitting 1,715 farmer-beneficiaries

Established two (2) hectares OPV yellow corn with a production of 4,000 kg benefitting 200 farmer-beneficiaries

Procured and distributed 5,362 bags of GM hybrid yellow corn to 5,362 farmer-beneficiaries under the Corn Seeds Assistance Program (roll-over scheme)

Distributed 16,666 bags of agricultural lime to 3,333 farmer-beneficiaries



Distributed 3,765,000 seeds of quality planting materials to 314 farmer-beneficiaries

Procured and distributed 1,055 bags of white corn seeds, 350 bags of OPV yellow corn seeds, and 10,672 bags of GM hybrid yellow corn seeds for the rehabilitation of corn areas affected by Typhoon Florita

Procured 2,381 liters of insecticide to mitigate and control fall army-worm (FAW)

btained numerous milestones under the Extension Support, Education and Training Services



Established 10-hectare Sorghum Techno Demo in Solana and Abulug, Cagayan; City of Ilagan, Isabela; Bagabag, Nueva Vizcaya; and Aglipay, Quirino



Established 50-hectare model farm for corn in Tunggui, Tumauni, Isabela, one (1) hectare model farm for sorghum in Aromin, Echague, Isabela and 30-hectare model farm for cassava in Rang-ayan, City of Ilagan, Isabela



Established four (4) sites for Sustainable Corn Production in Sloping Areas (SCoPSA) Technology Demonstration covering 12 hectares in San Pedro, San Mariano, Isabela; Butao, Diadi, Nueva Vizcaya; Dionisio, Nagtipunan, Quirino; and Bitag Grande, Baggao, Cagayan



Conducted four (4) Bantay Peste Brigades, four (4) production, and eight (8) cluster development trainings with 499 participants





Provided incentives to four (4) Provincial Corn Coordinators, 12 Municipal Agriculturists, and 142 Agricultural Extension Workers (AEWs) from the Provincial and Municipal Local Government Units as the strong partners of the Corn Program in its program or project implementation



Distributed 22,700 pieces of IEC materials, flyers, and booklets to corn and cassava farmers



Produced three (3) audio plugs and six (6) audio-video clips, aired over six (6) commercial radio stations and four (4) commercial cable TV stations in the region covering the following subject areas:

1. Industrialization Pillar of One DA Agenda: Villa Luna MPC, Cauayan City, Isabela as F2C2 Program recipient
2. Consolidation Pillar of One DA Agenda: The Rebirth of Alcala Processing Center in Alcala, Cagayan as F2C2 Program recipient
3. Industrialization Pillar of One DA Agenda: Corn Silage Processing of Tumauni, Isabela
4. Modernization Pillar of One DA Agenda: Double Row Planting Technology
5. Industrialization Pillar: Corn Silage Processing as a Good Source of Animal Feeds
6. Industrialization: Feed Formulation of a Corn Farmer- Mr. Felix Ancheta
7. Ang Bentahe ng Pagtatanim ng Corn-Soybean Inter/Crop Rotation



Researches conducted for further development.

Fueled by its commitment to aid our corn farmers, the following researches were undertaken:

Production-related Researches

Development and Improvement of OPV Corn Varieties in Region 02



Development and Improvement of OPV Corn Varieties in Region 02

Study 1. Population Improvement

Study 2. Variety Maintenance and Improvement

Study 3. Preliminary Yield Trial-On Station and On-Farm

Results

1. One (1) NSIC registered OPV White Corn variety (IES Glut 12) developed and commercialized for cornick processing taken by Big Brothers Cornick Processor located in Cauayan City, Isabela and Maharlika Farmers Association
2. Regeneration and simultaneous seed production of 191 native germplasm were collected locally
3. 50 International Maize and Wheat Improvement Center (CIMMYT) inbred lines were regenerated and their seeds were preserved for infusion to population growth
4. Inbred line development of 130 selected native accessions were progressing to season 4 (S4) to achieve homozygosity until season 7 (s7)
5. 175 glutinous elites and 63 elites recombined and crossed



Balanced Fertilizer and Pesticide Use Strategy of Yellow Corn in the River Flood Plains in Nueva Vizcaya

Result

1. The application of Site Specific Nutrient Management (SSNM) and Soil Analysis (SA) Fertilizer Recommendation obtained yield of 7.11 mt/ha and 9.21 mt/ha, respectively, while Farmers' Practice (FP) has only 6.72 mt/ha



Policy-related Research

Development and Improvement of OPV Corn Varieties in Region 02



Validation/Updating of Corn Cost Structure (per seed class/type and development zone considering source of financing)

Result

1. The vegetative stage was the most expensive stage of growing white and yellow corn.

Cost of Production of Corn During the Vegetative Stage (P/ha)

PARTICULARS	Broad Plains		River Flood Plains		Hilly Areas	
	Dry Season (2021-2022)	Wet Season (2021)	Dry Season (2021-2022)	Wet Season (2021)	Dry Season (2021-2022)	Wet Season (2021)
Corn Yellow	23,794.86	22,844.04	24,896.84	20,947.61	22,740.06	21,484.88
Corn White	20,968.36	17,649.56	25,558.15	21,519.03	28,375.98	24,521.19

Cost of Production of Corn During the Vegetative Stage (P/ha)

PARTICULARS	Broad Plains		River Flood Plains		Hilly Areas	
	Dry Season (2021-2022)	Wet Season (2021)	Dry Season (2021-2022)	Wet Season (2021)	Dry Season (2021-2022)	Wet Season (2021)
Corn Yellow	12.39	13.11	10.34	10.87	13.23	13.56
Corn White	21.42	18.59	26.55	25.68	21.79	21.28



Government subsidy (e.g. fertilizers and seeds) reduced the cost of production by:

1. 7% during dry season and 8% during wet season for yellow corn
2. 10% and 8% reduction in the production cost during dry and wet seasons, respectively, for white corn

Numerous agricultural facilities, machineries, and/or equipment were distributed to enhance mechanization on land preparation, planting, harvesting, and post-harvesting or processing to reduce production cost.



Machinery	FCA Recipient	Address
Four-Wheel Drive Tractor	Sto. Domingo Multi-Purpose Cooperative Esperanza Multi-Purpose Cooperative Amianan Farmers Entrepreneurs Agriculture Cooperative	Poblacion, Baggao, Cagayan Esperanza East, Aurora, Isabela Sta. Victoria, City of Ilagan, Isabela
Combine Harvester with Baler	Sto. Domingo Multi-Purpose Cooperative Carupian Tulung Tulong Amin A Pagsayaatan ti Mannelon Inc. Esperanza Multi-Purpose Cooperative Amianan Farmers Entrepreneurs Agriculture Cooperative Asosasyon ng mga Ama-Syudad Agriculture ng Ilagan ABRASA Multi-Purpose Cooperative Diffun Saranay Development Cooperative	Poblacion, Baggao, Cagayan Carupian, Baggao, Cagayan Esperanza East, Aurora, Isabela Sta. Victoria, City of Ilagan, Isabela San Vicente, City of Ilagan, Isabela Andres Bonifacio, Diffun, Quirino Andres Bonifacio, Diffun, Quirino
Cassava Chipper	Binalan Rural Development Association San Lorenzo Farmers Coop Association Blue Circle Grains Trading Agricultural Cooperative San Mariano Diversified Cooperative Banuar Upland Farmers Association	Binalan, Aparri, Cagayan San Lorenzo, Buguey, Cagayan Aromin, Echague, Isabela Alibadabad, San Mariano, Isabela Banuar, Cabarroguis, Quirino
Multi-Crop Drying Pavement	Asosasyon ng mga Ama-Syudad ng Ilagan Blue Circle Grains Agri-Coop Magapuy Multi-Purpose Cooperative Sto Domingo Multi-Purpose Cooperative San Lorenzo Farmers' Cooperative Association Diffun Saranay Development Cooperative	Pasa, City of Ilagan, Isabela Aromin, Echague, Isabela Magapuy, Bayombong, Nueva Vizcaya Masical, Baggao, Cagayan San Lorenzo, Buguey, Cagayan Saranay, Diffun, Quirino
Feed Mill	Esperanza Multi-Purpose Cooperative Poblacion, Villa Norte-Lusod Farmers' Association	Esperanza East, Aurora, Isabela Poblacion Norte, Maddela, Quirino
Feed Mixer	Esperanza Multi-Purpose Cooperative Poblacion, Villa Norte-Lusod Farmers' Association	Esperanza East, Aurora, Isabela Poblacion Norte, Maddela, Quirino

High Value Crops Development Program

**A FOOD-SECURE & RESILIENT CAGAYAN VALLEY WITH PROSPEROUS
HIGH VALUE CROPS FARMERS**



High contribution to the regional economy

Mungbean Industry



10,800 kg
provided
142.37 MT
harvested



2,916
farmers benefitted

423.25
hectares



Supported the Flow of Pariir Agriculture Cooperative, the Farm and Fisheries Clustering and Consolidation (F2C2) Program lead in the region with 360 members and 440 ha mungbean, in their highest volume contribution of 130,000 kg produce



Awarded processing facility to the said cooperative which supplies mungbean processed products (e.g. Instant ginisang munggo, mungbean noodles, sprouts) to the Department of Education (DepEd), Department of Social Welfare and Development (DSWD), and the Local Government Units of Isabela in their feeding programs. Moreover, the mungbean produced by the cooperative were sent to Japan, in collaboration with the Department of Trade & Industry (DTI) and Bureau of Plant Industry (BPI) for possible export market in the future.



Peanut Industry



3,500 kg
distributed  **229**
farmers benefitted



Distributed 3,500 kg of peanut seeds to 229 farmer-beneficiaries in Enrile and Alcala, Cagayan. The average yield obtained was 1.3 MT/ha during the dry season of 2021-2022. Damurog White Corn Growers Association in Alcala, Cagayan produced 7.2 MT while Enrile Farmers Credit Cooperative in Enrile, Cagayan produced 12.35 MT.



Assisted in the marketing of the peanut produce of Damurog White Corn Growers Association to the Local Government Unit of Alcala for P60/kg. Farmers stored 100-200 kg for planting in the next cropping.



Conducted a Technology Demonstration on the use of boron foliar fertilizer in Enrile, Cagayan. Results of the project showed that the average yield of peanut without boron fertilizer was 1.3 MT/ha while peanut with boron fertilizer produced an average yield of 2.1 MT/ha. An increase in yield of 0.8 MT/ha with a corresponding additional net income of P34,400.00 was recorded with the boron fertilization.



Garlic Industry



8%

Contribution to the country's garlic industry requirement

Distributed 20,000 kg of garlic planting materials covering 28 hectares with an expected production of 128 MT. Last cropping, the farmer's net income was P51,650.00/ha and it is expected to increase to P32,680.00/ha this season:

 Province of Batanes - 17,000 kg of garlic planting materials and 100 kg of organic fertilizer benefitting two (2) FCAs - Itabayat Garlic Growers Association and the Federation of Ivana Integrated Farmers Association (FIIFA)

 Province of Nueva Vizcaya - 3,000 kg of garlic planting materials benefitting the Woman Onion and Garlic Growers Association in Salinas, Bambang, Nueva Vizcaya



Onion Industry



1,845.6 kg
onion distributed



312.5 kg
organic fertilizers distributed

3 FCAs 1,211 farmers benefitted

4%



Contribution to the country's onion industry requirement



Facilitated the turnover of the P20,000,000.00 worth of onion cold storage facility along with its equipment on December 9, 2022 to the Federation of Aritao Farmers Onion, Garlic and Ginger Growers Associations, Incorporated (FAFOGGGA Inc.) to accommodate the 5% of the production area of Aritao, Nueva Vizcaya



Distributed 90 pieces pallets, 100 pieces plastic crates, six (6) units rain shelter, and three (3) units pump and engine sets to 3 FCAs of onion farmers in Nueva Vizcaya



Lowland Vegetables



235%

sufficiency level on basic food commodities such as lowland vegetables

Increased income of farmers by 10-20% through the technologies and interventions provided and introduced by the agency. Most of the FCA beneficiaries are GAP Certified in terms of vegetable production and now a producer of pesticide-safe vegetables in their provinces.



Distributed 564 pieces of plastic crates throughout the region



Provided/installed 16 pump and engine sets and 10 units of Solar-Powered Irrigation Systems (SPIS)



693.99 kg

lowland seeds distributed

8 FCAs 1,211 farmers benefitted



The given seeds will cover a total production area of 138.79 ha and will produce roughly 2,7758 MT. The farmer's average net income amounted to 1,097,999.2 year-round.



Installed four (4) units of rain shelter in the province of Isabela



Vegetable production was intensified in the region.

Highland Vegetables



257%
SUFFICIENCY RATE

Nueva Vizcaya is the main producer of highland vegetables. The area's favorable temperature makes it ideal for growing highland vegetables like cabbage, Chinese cabbage, broccoli, and carrots.

Distributed a total of 507.5 kg of seeds and 18,690 kg of organic fertilizer during the first semester of 2022 benefitting five (5) FCAs with 971 farmers. The given seeds were planted in 196.1 ha with a production of 2,537.5 MT.

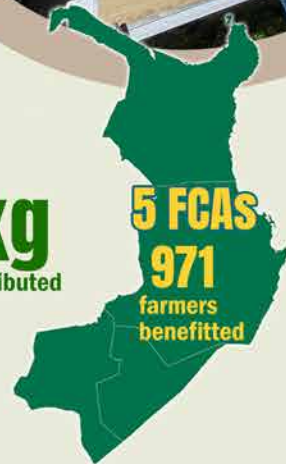


507.5 kg
lowland seeds distributed



18,690 kg
organic fertilizers distributed

5 FCAs
971
farmers benefitted



Established three (3) units of greenhouse in the Province of Nueva Vizcaya



Distributed 937 plastic crates throughout the region



Distributed one (1) unit hauling truck to the Acacia Highland Farmers Association. The farmers marketed approximately 130 MT of their produce to Nueva Vizcaya Agricultural Terminal.



Distributed eight (8) pump and engine sets to highland vegetable farmers

Mango



10,303.91
hectares of total production area generated

50,108.95 MT (6.84%)
contribution to national production

4.86 MT/ hectare
average regional production



Established five (5) mango sites for technology demonstration in the provinces of Cagayan, Isabela, and Nueva Vizcaya



Created livelihood opportunities for high value crops farmers

Banana



Cagayan Valley is the largest producer of banana in Luzon

Established three (3) banana sites for technology demonstration in the provinces of Isabela, Cagayan, and Quirino

Distributed bagging materials, fertilizers, and plastic crates to three (3) FCAs of Banana growers

Distributed 800 kg of organic fertilizer to banana growers to address the deteriorating organic matter content of soils due to cultivation and erosion

Tissue Culture Laboratory



Maintained two (2) tissue culture laboratories in Cagayan Valley wherein 4,053 pieces of tissue-cultured banana were produced and 4,041 pieces distributed to 128 farmers



Cacao



Provided tools and conducted technical briefings on cacao production and fertilizer application



Monitored a total of 45,322 trees in eight (8) sites nationwide with an expected production of 226 MT. An average yield of 5-7 kg of cacao fresh beans produced per tree.



Conducted Cacao Field Day last December 02, 2022. The Department of Agriculture has this growing cacao industry which makes it a potential contender to be a **chocolate hub not just in Luzon but in the whole nation**. Cacao farmers strive to engage themselves in value-adding making them more innovative and competitive farmers.





Citrus



529

HECTARES

production area of calamandarin, oranges, mandarin (satsuma and ponkan), and pomelos



Hailed as the

“Citrus Capital of Luzon”
(Kasibu, Nueva Vizcaya)



Implemented the rehabilitation of calamansi, ponkan, and satsuma trees through the Fertilization Program to contribute to the development of citrus industry in the region



Provided fertilizers as capital inputs to rejuvenate calamansi, ponkan, and satsuma trees, then conducted a technical briefing and provided technical assistance to ensure the sustainability of the project



Fertilized a total of 42,730 calamansi trees in 14 sites regionwide with a production of 427.3 MT



Installed two (2) units of Solar Powered Irrigation System (SPIS) at Malabing Valley Multi-Purpose Cooperative, Kasibu, Nueva Vizcaya



Maintained supplying calamansi to Mama Sita's Company in Pasig City since 2018 through the Aurora Citrus Farmers' Cooperative



Assisted the Aurora Citrus Growers in Bagnos, Aurora, Isabela thru the established processing facility. Now, they are one of the main suppliers of calamansi fruit for processing.

Seed Storage



Maintained nine (9) greenhouses with 370,000 pieces of seedlings produced and 360,498 pieces distributed in support to the Plant, Plant, Plant Program

Foundation Scion Grove, Clonal Garden, and Budwood Garden



Supported three (3) foundation scion groves, four (4) clonal gardens, one (1) budwood garden with 16,000 seedlings, 11,895 trees, and 0.50 ha of cacao plantation as sources of various fruit trees in the provinces of Cagayan, Isabela, Nueva Vizcaya, and Quirino

IEC, Radio Plugs



Distributed 21,038 pieces of Information, Education and Communication (IEC) materials. These include malunggay flyers, pesticide safety sticker labels, bounty valley newsletter, Techno Guide for Banana - Tagalog version, Farmers Handbook on Introduce and Local Banana Cultivars in the Philippines



Produced two (2) TV plugs featuring Onion and Citrus industry in Cagayan Valley



Provided incentives to 78 AEWs who assisted 7,800 farmers



Conducted Onion Info Caravan cum Field Day in Aritao, Nueva Vizcaya that was attended by 1,200 farmers



Conducted School on the Air (SOA) on lowland vegetable production in the Province of Isabela with 522 graduates (512 farmers and 10 AEWs)



Distributed vegetable seeds to various schools and barangays to help ensure food availability and sustain production

Gulayan sa Paaralan

- Distributed 2,626 packs or 814.06 kg of 9-in-1 vegetable seeds (50 grams kangkong, 10 grams eggplant, 10 grams tomato, 50 grams pole sitao, 50 grams squash, 50 grams ampalaya, 20 grams upo, 20 grams okra, and 50 grams pechay amounting to Php 1,872,654.00 to nine (9) Schools Division Offices (SDOs) benefitting a total of 2,626 school-beneficiaries in the entire region
- Distributed a total of 945 pieces blow molding watering sprinkler, 315 pieces net garden shade, 3,150 pieces seedling tray, 945 pieces grab hoe, and 315 units of wheel barrow amounting to Php 2,756,659.50 to 315 schools in the region - 106 schools from Schools Division Office of Cagayan, 105 schools from Schools Division Office of Isabela, 75 schools from Schools Division Office of Nueva Vizcaya, and 29 schools from Schools Division Office of Quirino
- Conducted technical briefing on lowland vegetable and orientation on Gulayan sa Paaralan for four (4) SDOs namely, Schools Division Offices of Cagayan, Isabela, Nueva Vizcaya, and Quirino
- Increased number of learners (108,483) with improved nutritional status from wasted to normal through the Gulayan sa Paaralan
- Conducted a virtual Nutri-Poster Making Contest in the whole Cagayan Valley in relation to the celebration of 48th Nutrition Month with the theme “New Normal na Nutrisyon, Sama-samang Gawan ng Solusyon”

Gulayan sa Barangay

- Established a total of 68 Gulayan sa Barangay sites in Cagayan Valley during the first semester of 2022. There are 29 sites in the Province of Cagayan, 23 in Isabela, five (5) in Quirino, and 11 in Nueva Vizcaya. Since the actual price of the inputs is lower than the target price, we exceeded the target of 55 sites to 68.
- Distributed a set of vegetable seeds with a total of 129.2 kg (pechay, okra, pole sitao, squash, bitter melon, bottle gourd, sponge gourd, tomato, and eggplant), set of gardening tools (grab hoe, wheelbarrow, sprinkler, seedling tray), a mini nursery (2m x 3m), net shade, a mini tiller, plastic mulch, humus as soil conditioner, and potting media in each barangay



Livestock Program

CAGAYAN VALLEY AS A MAJOR SOURCE OF QUALITY STOCKS OF CATTLE, GOAT, AND SHEEP



Led the LEED

In support to the National Livestock Program, the DA RFO 02 implemented the Livestock Economic Enterprise Development (LEED) Project to help increase the income of smallholder farmers.



Provided technical assistance, inputs, and production support to help the smallholder farmers, bring their production into enterprise level by value adding and amplifying production



Established four (4) cattle multiplier farms composed of 30 heads upgraded cattle in Villaverde, Nueva Vizcaya, Aglipay, Quirino, and Sanchez Mira, Cagayan, and 20 heads upgraded cattle in San Pablo, Isabela; one (1) chicken multiplier farm composed of 1,000 ready-to-lay free-range chicken in Dupax Del Sur, Nueva Vizcaya; and one (1) duck multiplier farm composed of 1,200 ready-to-lay ducks in Abulug, Cagayan.

Implemented the INSPIRE Program

With its goal to restore quality and genetically superior breeder stocks and finishers, to implement strict biosecurity measures, and to help producers recover lost incomes and make available pork supply at affordable prices to consumers, the Livestock Program implemented the Integrated National Swine Production Initiatives for Recovery and Expansion (INSPIRE) Program in the region.



Calibrated repopulation program as one of the components of INSPIRE



Out of the 6,840 target, 2,148 sentinel piglets were procured and distributed as prelude to the repopulation in the different provinces and municipalities in the region affected by ASF

Validated 144 out of 187 Farmers Cooperative and Associations (FCAs) which applied for the Community-Based Swine Clustering Project



Verified that 86 FCAs were qualified



Conducted Groundbreaking Ceremonies to 35 FCAs and transferred their 1st tranche of fund with a grand total amount of P86,800,000.00



Endeavored activities under NAGRIP-UNAIP

The Unified National Artificial Insemination Program (UNAIP) under the National Animal Genetic Resource Improvement Program (NAGRIP) is a proven strategy to the improvement of breed of livestock and poultry.



5,973

semen straws distributed
for cattle and goat

Artificial Insemination
406 goat
3,696 cattle



Provided artificial insemination services to 3,696 heads cattle and 406 heads goat



Obtained a 720 resultant calf drop and 105 kid drop from the insemination activities

Supported the PNAD Program

The DA RFO 02 - Isabela Experiment Station has been recently established as Philippine Native Animal Development (PNAD) Center in Region 02. Having capacitated veterinarians, agriculturists, and biotechnologists, it continually develops and promotes technologies that increase production and profit amidst climate change.



Maintained and developed products and market for native animals towards agri-enterprise development



Produced a total of 115 heads piglets, 3,420 heads chicks, and 1,267 heads ducks offspring



Distributed 52 heads pig, 1,508 heads chicken, and 1,286 heads ducks to 10 different groups, and 15 individual farmers within the region



Treated good nutrition as vital aspect in the successful production thru Feed Development Program

This program is designated for ruminants (cattle and carabao) and small ruminants (goat and sheep).

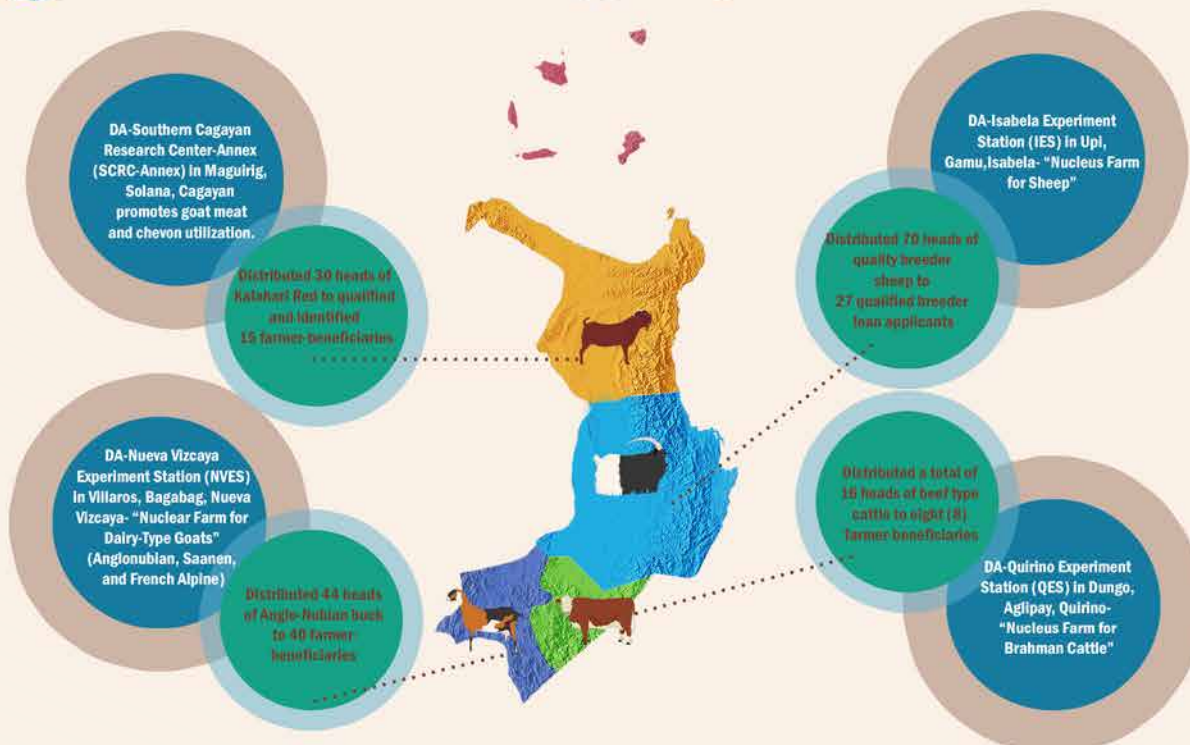
- Distributed a total of 413,460 pieces of planting materials for recommended forages as source of nutritious roughage to 11 groups and 241 individual recipients with plans of establishing improved pasture as source of forage for their stocks

Organized the animal health services - drugs and biologics distribution

- Assisted in the monitoring and surveillance activities. Blood sample collection and analysis were done on reported cases and suspected areas with potential entry and/or spread of the diseases.
- Conducted massive information campaign among Local Government Units and Livestock Raisers Association
- Distributed a total of 556,500 doses of drugs and biologics to requesting Provincial/Local Government Units and individual farmers



Conducted maintenance and upgrading of the DA Stations



Kept in touch with the livestock farmers through the AEWs/Meat Inspectors, production of print, advertisement, and audio-visual presentations (AVPs), and airing of radio programs, plugs, and jingles through the DZDA educational radio station

- Produced and distributed 1,000 copies of info-advocacy materials to farmers

- Provided incentives to 144 Agricultural Extension Workers/Livestock Inspectors and 52 Data Collectors/Meat Inspectors

Organic Agriculture Program

CAGAYAN VALLEY AS A PREMIER PRODUCER OF ORGANIC RICE, OPV CORN, AND VEGETABLES IN THE COUNTRY, SUSTAINING A MARKET SUPPLY OF “CERTIFIED” ORGANICALLY GROWN/PREPARED FOOD, FEEDS, AND OTHER AGRICULTURAL INPUT PRODUCTS



On-station seed production and distribution was implemented to develop seed system for organic vegetables, upland rice, and open-pollinated varieties (OPV) Corn in Region 02.



Assisted in acquiring certification from the OCCP-Inspection and Certification Services Inc. (OCCP-ICSI) for the six (6) production sites of organic inputs such as legume seeds, root crops, OPV vegetable seeds, organic upland rice seeds, and OPV corn seeds:

1. DA Nueva Vizcaya Experiment Station (NVES) in Bagabag, Nueva Vizcaya
2. DA-Cagayan Valley Research Center (CVRC) in City of Ilagan, Isabela
3. DA-Southern Cagayan Research Center (SCRC) in Iguig, Cagayan
4. DA-SCRC Cagayan Breeding Station (CBS) in Solana, Cagayan
5. DA- Quirino Experiment Station (QES) in Aglipay, Quirino
6. DA-Batanes Experiment Station (BES) in Basco, Batanes



Distributed 170 kg of assorted organic vegetable seeds, 6,165 kg of organic upland rice seeds, and 2,785 kg of organic OPV corn seeds to 921 individuals and 23 farmer groups

Rain shelter as one of the essentials in boosting the production of assorted vegetables or organic areas, the Program procured 20 rolls of UV Plastic Polyethylene and 16,000 pieces of seedling trays which were distributed to 16 organic farmer groups.



Gearred towards upgrading the DA-related production facilities to mitigate the effects of climate change and assure the availability and accessibility of organic seeds/planting materials and other organic farm inputs, the program upgraded seven (7) Research Outreach Stations in the region.



Awareness of farmers on organic agriculture as one of our primary concerns, the program devised ways to reach out to farmers.



Distributed 2,500 IEC materials and continuous radio plugging were conducted on a regular basis throughout the year to persuade farmers to switch to organic farming



Maintained eight (8) technology demonstration sites situated at the DA Experiment Stations and Research Centers. These serve as learning sites for students, farmers, and other organic agriculture stakeholders and enthusiasts.




Demonstrated different technologies related to organic farming. Additional techno-demo projects were maintained as expansion areas to cater to the needs of farmers in the locality.




The Technology Demonstration Projects were implemented as follows:

PROJECT TITLE	LOCATION/SITE
Management of Integrated Organic Farm Techno-Demo	Nueva Vizcaya Experiment Station, Bagabag, Nueva Vizcaya
Integrated Organic Agriculture Production System Demonstration Project	Isabela Experiment Station, Gamu, Isabela
Management of integrated Organic Technology Demonstration	Northern Cagayan Experiment Station, Abulug, Cagayan
Organic Crop-Livestock Integrated Demo Farm	Northern Cagayan Experiment Station, Abulug, Cagayan
Technology Demonstration on Mushroom-Vegetable Production cum Vermicomposting Technology in Support to Biomass Utilization	Southern Cagayan Research Center, Iguig, Cagayan
Technology Enhancement for Organic Production of Various Commodities under Batanes Condition	Batanes Experiment Station, Basco, Batanes
Technology Demonstration Showcase on Organic Bio-Intensive Gardening and Poultry Production	Cagayan Valley Research Center, City of Ilagan, Isabela
Management of on Station Integrated Organic Duck cum Corn Production	DA SCRC Annex, Solana, Cagayan

Notably, our Agricultural Extension Workers (AEWs) had immensely helped in the effective implementation of the Organic Agriculture Program at the Local Government Unit (LGU) level

 Granted incentives to 10 AEWs who served as frontline implementers of the Organic Agriculture Program to strengthen partnerships with the private sector, LGUs, NGAs, SUCs, and other stakeholders

Irrigation was intensified to sustain good production of vegetables and other crops and increase farmers' productivity.

 Distributed 11 units of dual purpose pumps and engines to 10 farmer groups regionwide on June 22, 2022. The project will support the irrigation system and contribute to the attainment of the NOAP target of 5% of the total agricultural land area to be devoted to organic farming.

Conducted technical briefing and distributed nine (9) units of cultivator machines and five (5) units of shredder machines to organic practitioners regionwide on June 22-23, 2022. Said equipment will be used in the production of organic fertilizer. Further, six (6) units of greenhouses were established to six (6) FCAs.



Halal Food Industry Development Program





Facilitated the conduct of two (2) orientations/briefings on the Advance Training cum Production of Halal Farming System and Production of DA-Assisted Halal Products, in collaboration with the Department of Trade and Industry Regional Office 02. Said activities were participated by 60 members held on March 14-15, 2022 at Flow of Pariir Agriculture Cooperative of Cabatuan, Isabela and Diffun Saranay Development Cooperative of Diffun, Quirino, respectively.



Provided assistance to said FCAs for Halal Product Certification. This is in collaboration with the Department of Trade and Industry Regional Office 02, DA RFO 02 AMAD, and DA RFO 02 Research Stations.

1. Instant Ginisang Munggo and Mungbean Noodles of Flow of Pariir Agriculture Cooperative
2. Coffee and Blends (Pure Robusta Coffee) of Diffun Saranay Development Cooperative



Spearheaded the monitoring of Pinoy Gourmix of Providers Multi-Purpose Cooperative in Naguilian, Isabela for their Halal Certificate renewal



Assisted the Alliance of Halal Integrity of the Philippines (AHIP) represented by Mr. Alejandro Hadji Ali T. Deron and Ms. Aminah Morada during the conduct of Ocular Audit/Inspection on the processing facilities and validation/evaluation of the documentary requirements of identified FCAs for certification. Initial result showed 90-95% compliance of the products to the standards for Halal Product Certification.



Market Development Services

PROVIDE EXCELLENT SERVICES TO ENTREPRENEURS TO ENSURE AGRIBUSINESS COMPETITIVENESS AND SUSTAINABILITY



Market price and inflow and outflow of agri-commodities were stringently monitored by the Agribusiness and Marketing Assistance Division (AMAD) to provide price awareness to producers/processors, buyers, and consumers and to determine status of supply.



Provided updated price and market information of identified agricultural commodities established by AMAD to the Consumer Affairs-AMAS, DA Management, RBPMT, Local Price Coordinating Council (LPCC), and Regional Tripartite Wages and Productivity Board 02 as reference of various stakeholders on the suggested retail price, price wage planting of commodities, planning purposes, and policy making



Gathered data at least twice a week particularly, every Tuesday and Thursday to 20 designated markets



Provided SMS Blasting to stakeholders



Consolidated prices of agri-commodities and transformed them into infographics



Monitored updated price of 36 agricultural commodities

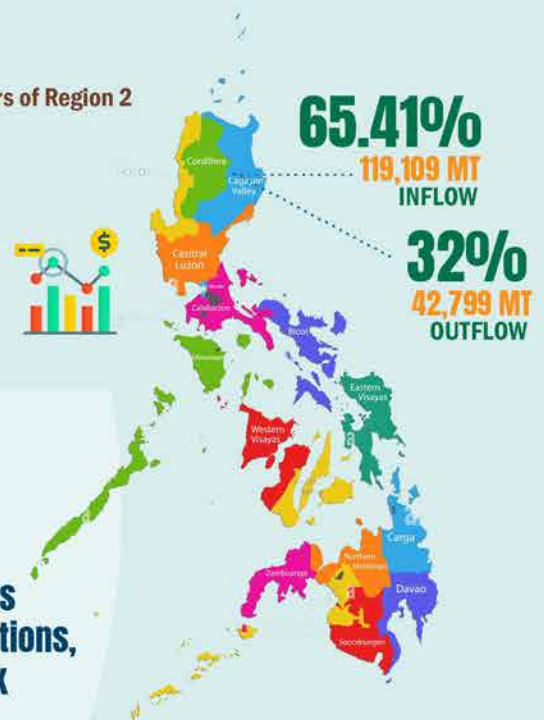
Monitored the inflow and outflow of vegetables at the Nueva Vizcaya Agricultural Terminal (NVAT) for CY 2022

INFLOW

119,109 MT wherein the highest percentage (65.41%) comes from the farmers of Region 2
 55,401 MT or 30.43% from the Cordillera Administrative Region (CAR)
 7,566 MT or 4.16% from Region 3
 14.59 MT or .01% from Region 1

OUTFLOW

48,239 MT or 37% to Region 3
 42,799 MT or 32% to Region 2
 33,426 MT or 25% to the National Capital Region (NCR)
 3,379 MT or 2.5% to Region 1
 3,217MT or 2.43% to Region 4-A
 6 MT & 4 MT to Regions 5 and 8, respectively



Facilitated the registration of 270 agri-fishery enterprises composed of 123 cooperatives, 31 associations, 17 corporations, and 99 individual enterprises in the Farmers and Fishers Enterprise Development Information System (FFEDIS)



D evelopment of stakeholders through capacity trainings, Kabataang Agribiz Competitive Assistance Grant Program, Enhanced KADIWA Financial Grant Assistance Program, and KADIWA Outlet were evident in CY 2022

Capacity Enhancement Training



Capacitated 10 entrepreneurs duly represented by different FCAs enrolled under the Agribusiness Support Promotion and Investment in Regional Enterprises (ASPIRE) for 2022. The said participants completed the series of trainings on Agribusiness Management provided by AMAD to enrich their knowledge and skills on Business Operation and Competitiveness and to improve their product presentation.



Conducted another batch of training for 17 FCAs under the Farm and Fisheries Clustering and Consolidation (F2C2) Program. The training module include Entrepreneurial Mindset, Financial Management, Bookkeeping and Business Plan Preparation, and Organizational Management, Leadership and Marketing.



Facilitated a Digital Marketing Training-Workshop which was participated by 15 FCAs and young entrepreneurs under the Kabataang Agribiz

Young Farmers Challenge Fund (YFCF): Kabataang Agribiz Competitive Assistance Grant Program



Implemented a special project focusing on enterprising youth aged 18-30 years old with viable Business Model Canvass



Facilitated the awarding of grant assistance amounting to Php50,000.00 each to 111 young entrepreneurs. Said assistance served as their start-up capital for their proposed business enterprises. The winners composed of 19 from Cagayan, 49 from Isabela, 32 from Nueva Vizcaya, nine (9) from Quirino, and two (2) from Batanes. Out of the 111, seven (7) young entrepreneurs were awarded as Regional Winners.



Supported the two (2) enterprises which were qualified to the National Level Competition. Fortunately, the Automated Irrigation and Nutrient Management System Innovations (AIRIN) Innovations was one of the national winners and garnered Rank 1 under the Digital Agriculture category with a prize of Php300,000.00. It was awarded last December 15, 2022 in Laoag City.

KADIWA Outlet/Stores



Established five (5) KADIWA market outlets/stores in Region 02 in partnership with Farmer Cooperatives Associations (FCAs), Research Centers and Experiment Stations, and Local Government Units (LGUs)



Generated a total volume of 129,342.75 kg of agri-fishery products with a total sale of Php16,268,349.00. Aside from the KADIWA stores, the KADIWA on wheels and KADIWA ng Pasko generated a total gross sale of Php10,113,080.00 and Php287,223.00, respectively.



Provided a job for 39 local producers receiving a daily incentive of P270.00 - P300.00



Services/activities such as business linking and trade fairs and exhibits were facilitated/undertaken to institute higher level of market and business opportunities to Farmers and Fisherfolk Cooperatives and Associations (FCAs) and Agri-fishery Enterprises in Region 02.



Facilitated five (5) market linkage activities to new buyers:

1. Ube producers of Balligui Irrigators Association of Maddela, Quirino & Emma's Special Foods Manufacturing One Person Corporation;
2. Sweetpotato, taro and ube suppliers & Bahaghari Global Food Inc.
3. Yellow corn FCA producers & Region IV-A Feedmillers
4. Rice and corn FCA producers to W. L. Foods in Valenzuela City
5. Peanut producers & Jockers/Mabuhay Foods Corporation and Dizon Farms



Sustained/strengthened market linkages among the following buyers and suppliers:

1. KLT Fruits Incorporated, an institutional buyer and exporter of agri-products in Dasmariñas, Cavite, and Illuru Sur Malaueg Mango Growers and Workers Association (mango supplier) in Rizal, Cagayan. A total of 57,888 kg of mango valued at Php1,637,976.00 were supplied by the latter. Buying price ranged from Php27.00 to Php30.00/kg.
2. White corn farmers in Alcala, Cagayan, Barcelona Food Products, Inc. in Santiago City, and 3-Shers in Cauayan City, Isabela. A total volume of 16,750 kg valued at Php382,860.00 were supplied by the former. From the prevailing price of Php15.00 to Php16.00/kg, the buyers bought the white corn from Php21.00 to Php24.00/kg. Considering this difference, the farmers of Alcala, Cagayan had an additional gain of Php6.00 to Php8.00/kg.
3. MLGU Alcala thru the Damurug Farmers Association supplied 19,119 kg of unshelled peanut to Jocker's Foods Industries valued at Php2,308,600.00. Additional income of Php9.00 to Php13.00/kg was obtained considering the buying price of Php47.00/kg by Jocker versus the prevailing price of Php34.00 to PHP38.00/kg.
4. The Buenavista Multi-Purpose Cooperative in Santiago City, a consistent supplier of good quality unshelled peanut, supplied a total volume of 124,063 kg valued at Php7,237,679.00 to Dizon's Farm and Jocker's Foods Industries. The buyers' price ranges from Php50.00 to Php70.00/kg compared to the prevailing price of Php42.00 to Php45.00/kg. Therefore, additional income of Php5.00 to Php25.00/kg was obtained by the farmers.
5. Other commodities like onion, garlic, squash, and cabbage were also linked to other buyers in Cauayan City, Isabela, Bulacan, Santiago City, Baguio City, Cavite, Quezon City, and Taguig City.
6. Nine (9) FCAs and one (1) individual producer were linked to 10 institutional buyers with a total volume of 278.9 metric tons valued at Php12,674,885.00. The commodities were white corn, peanut, ube, onion, sweet potato, taro, mango, and garlic.
7. Agrizcaya Cooperative Federation, Bambang, Nueva Vizcaya had continuously supplied gabi and sweetpotato to Bahaghari Global Food Inc. and sweet potato to Jest Trading in Bulacan. Agrizcaya also forged an agreement with the Department of Education (DepEd) under the school-based Feeding Program to supply a total volume of 224,000 packs of banana chips valued at Php4,032,000.00.
8. The Integrated Farmers' Cooperative, Inc. in Namabalan, Tuguegarao City, Cagayan and San Agustin Dairy Cooperative in Masaya, San Agustin, Isabela, both recipients of the Enhanced KADIWA Financial Grant Assistance, supplied toned carabao milk with a total volume of 6,576 liter valued at Php624,720.00.



Trade Fairs and Exhibits

1. Provided wider market to 26 FCAs and 12 individual agri-fishery enterprises through the conduct of two (2) trade fairs and exhibits in malls conducted on April 6-10, 2022 and October 27-30, 2022 with a total gross sale of Php1,018,261.00
2. Showcased products of Research Centers and Experiment Stations and Learning Sites in collaboration with Agricultural Training Institute (ATI), Agro-Tourism sites of Department of Tourism (DOT), Farmers' Cooperatives and Associations (FCAs) and Micro, Small, and Medium Enterprises (MSMEs) assisted by Bureau of Fisheries and Aquatic Resources (BFAR), Department of Trade and Industry (DTI), and Department of Science and Technology (DOST)

Integrated Laboratory Services

BALANCED FERTILIZER & PESTICIDE USE FOR A FOOD SAFE AND SECURE REGION 02





INTEGRATED LABORATORY DIVISION

Initiated Accreditation and Certification to PNS ISO/IEC 17025:2017



Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

**DEPARTMENT OF AGRICULTURE
REGIONAL FIELD OFFICE 02
INTEGRATED LABORATORY DIVISION**
Department of Agriculture – Cagayan Valley Integrated Agricultural Laboratory Enrile Boulevard, Regional Government Center, Carig Sur, Tuguegarao City, Cagayan

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Biological testing** specified in the Scope of Accreditation.

Accreditation Number:	LA-2022-394A
Scope Reference:	ATEL-1-0522-294A
Accreditation Validity:	May 30, 2027
Certificate Validity:	August 30, 2023
Date Issued:	May 31, 2022

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.



JAMES E. EMPENO
Director IV
Philippine Accreditation Bureau



**PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2022-394A**

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-LAC-AP Communication).



Philippine Accreditation Bureau

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The Philippine Accreditation Bureau granted the Integrated Laboratory Division the PNS ISO/IEC 17025:2017 Accreditation. The DA Regional Field Office No. 02 Integrated Laboratory Division (ILD) and Regional Animal Disease Diagnostic Laboratory (RADDL) were the first ILD & RADDL to become ISO/IEC 17025:2017 accredited among other regional offices in the country.

The Regional Feed Chemical Analysis Laboratory (RFCAL) and Regional Animal Disease Diagnostic Laboratory (RADDL) were assessed by the Philippine Accreditation Bureau for ISO/IEC 17025:2017 accreditation on January 17-19, 2022.

Six (6) test parameters were recommended for RFCAL: crude protein, crude fiber, crude fat, moisture, ash, and Aflatoxin analyses of feed and feed ingredients. Meanwhile, there were three (3) test parameters recommended for RADDL: African Swine Fever - Polymerase Chain Reaction (ASF-PCR) Taqman Assay, Rabies-Direct Fluorescent Antibody Test, and Avian Influenza HemoAgglutination-HemolInhibition (AI HA-HI).

Led the provision of agri-laboratory services to ensure a food safe and secure Region 02

The RFCAL is a research and development facility which provides modernized and agri-laboratory services for feed quality control and monitoring. Its sub-unit, the Regional Food Technology Development and Incubation Center (RFTDIC), provides testing and non-testing services related to food quality and safety to help facilitate application of food processors for FDA registration/accreditation.

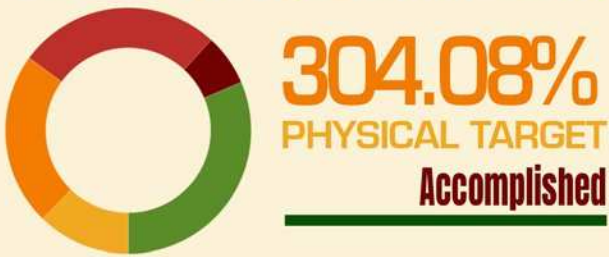
Analyzed a total of 1,853 feed samples from 130 feed establishments, wherein 81% of the samples collected in the whole region were found compliant to BAI Feed Nutrient Standard.

Additionally, for the testing activities of food samples, a total of 242 food samples from Research Centers and Experiment Stations, LGUs, State Universities and private food processors were assisted for Nutritional Facts, Microbiological Testing and facilitated for DTI and FDA registration. RFTDIC also conducted trainings on Basic Food Safety for Food Handlers, Basic Food Sensory Training and Meat Processing for participants from different DA-assisted food processors and Research Centers and Experiment Stations (RCES) of DA RFO 02.

Facilitated an aflatoxin analysis on grains. A total of 1,172 corn samples and 138 peanut samples were collected from 11 different Farmers' Cooperatives and Associations (FCAs) in the region. Ninety percent (90%) of the samples collected were compliant to Aflatoxin Maximum Level in corn (PNS/BAFPS 15:2004) 50 ppb and peanuts (PNS/BAFS 175:2015) 20 ppb as may be attributed to the improved post-harvest mechanization/interventions provided by the DA RFO & LGUs.



Delivered beyond what is expected. The various laboratories of the ILD exceeded the attainment of its targeted deliverables for CY 2022.



The Regional Animal Disease Diagnostic Laboratory (RADDL) is an existing research and development facility which provides efficient animal disease diagnostic services to livestock farmers, performs a variety of disease diagnostic surveillance and procedures, and generates information and technologies on the prevention and control of priority livestock diseases.



Analyzed a total of 26,607 samples: 2119 feces, 546 blood, 146 organs/tissues/swabs, 103 dog heads, 12,111 serum, and 11,582 whole blood/environmental/oropharyngeal swabs. The actual accomplishment surpassed the annual target samples of 8,750



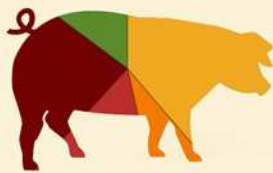
Exceeded its annual target; providing 62,000 of biodewormer doses to 21 individual small ruminant farmers in Piat, Sto. Niño, Lal-lo, Baggao, Buguey, Gattaran, and Peñablanca, Cagayan, municipalities in Quirino, and Delfino Albano, Gamu and San Manuel, Isabela. These doses were administered to a total of 1,200 heads sheep and goat

11,170

Avian Influenza (AI)

8,366

African Swine Fever (ASF)



Analyzed a total of 11,170 Avian Influenza (AI) samples
A total of 8,366 out of 8,651 African Swine Fever (ASF) samples analyzed were found negative of the disease



8,040
Individuals

174
Groups

21
Small Ruminant Farmers



Served a total of 8,040 individuals, 174 groups and 21 small ruminant farmers on the biodewormer products



Assisted in the Restocking/Repopulation/Sentinelling activities of the DA-Livestock Program through prompt diagnosis/confirmation of blood samples for AI and ASF and in the surveillance activities of the Regulatory Division for other priority animal diseases in the region







Conducted trainings for the City/Municipal Local Government Units of Cauayan City, Isabela, Santiago City, and Sta. Ana, Cagayan on the use of ASF-Convective Polymerase Chain Reaction (CPCR) assay kit on July 27, 2022 at the Regional Animal Disease Diagnostic Laboratory, Carig Sur, Tuguegarao City, Cagayan

The Regional Soils Laboratory (RSL) and its satellite laboratory, Ilagan Soil Laboratory (ISL), provide technical information, analysis, and ameliorant recommendations relative to soil condition and plant nutrient requirements to aid farmers in attaining optimum yield from their crops to reduce cost of inputs, and to maintain soil health.

-  Developed a total of 28 Soil Fertility Maps for Rice, Corn, and High Value Crops based on the 7,470 soil fertilizer recommendations for posting in six (6) Local Government Units (LGUs) and 13 Farmers' Cooperatives and Associations (FCAs) regionwide
-  Provided soil fertilizer recommendations to a total of 2,806 farmers covering 2,526.92 hectares. The Soil Fertility Map is a friendly and economic fertilizer recommendation guide to help individual farmers increase their crop yield and reduce production cost











The Mobile Soils Laboratory. It was able to serve 961 soil fertilizer recommendations to 874 rice, corn and high value crops farmers from seven (7) far-flung areas in Maddela and Saguday, Quirino; Cabatuan, Cauayan City, and Echague, Isabela; Bambang, Nueva Vizcaya, and Pamplona, Cagayan.

-  Increased demand of biofertilizers such as Compost Fungus Activator (CFA), Bio-N, and legume inoculant as part of promoting the Balanced Fertilization Strategy (BFS) which resulted to the establishment of Biofertilizer & Bio-Control Agents Laboratory in the Provincial Capital of Isabela amounting to Php150,000,000.00
-  Accomplished over 100% of its target on the provision of bio-fertilizers
-  Distributed about 115,000 packs of CFA to 19 LGUs, seven (7) FCAs, and 984 walk-in clients covering 5,750 ha of rice areas which helped convert 28,750 tons of rice straw into N-P-K fertilizer
-  Distributed 21,397 packs of Bio-N corn, 2,424 packs of mungbean, and 1,480 packs of peanut inoculant to FCAs/LGUs covering 3,566 ha of corn areas, 565 ha of mungbean areas and 112.5 ha of peanut areas for additional source of nitrogen




The Regional Crop Protection Center (RCPC) is deeply involved in the implementation of the Integrated Pest Management (IPM) programs on rice, corn, high value crops and applied researches geared to the development of integrated control approaches of major pests of different crops in the region.

Pest Surveillance and Monitoring

-  Maximized the use of Rapid Test Kit technology in the 15 LGUs in Region 02 for the checking of major vegetable producers to monitor the level of pesticide residues on locally-produced vegetables
-  Used the sophisticated machine called Gas Chromatograph/Mass Spectrometer Machine to confirm and identify specific Organophosphate pesticides
-  Conducted retooling of 104 Agricultural Extension Workers (AEWs) on Pesticide Residue Analysis using the Rapid Test Kit at/in Santiago Public Market, Santiago City, and in Belance, Dupax del Norte, and Dupax del Sur, Nueva Vizcaya in support to the implementation of Food Safety
-  Facilitated the Upskilling of Analysts on the Use of Rapid Test Kit (RTK) for Pesticide Residues at NCPC, UPLB, Los Baños, Laguna attended by 15 AEWs of Region 02
-  Facilitated the briefing and monitoring on the level of pesticide residues to 35 FCAs - major vegetable producers in Region 02
-  Established Surveillance and Early Warning System (SEWS) across the region
-  Received awards and recognitions in the 2022 Research for Development and 33rd CVAARRD Regional Symposium on Research, Development, and Extension Highlights (RSRDEH)
 1. 1st Place (Input Subsystem Category entitled, “Technology Commercialization of Biological Control Agents (BCAs) and Rapid Test Kit (RTK) in the Promotion of Pesticide Residue-Safe Vegetables in Cagayan”
 2. Special Award on the Sustainable Adoption of Technologies/Interventions of Food Safety entitled, “Assessment, Evaluation, and Commercialization of the Biological Control Agents (BCAs) and Rapid Test Kit (RTK) for Pesticide Residue-Safe Vegetables”
-  Total area infested and infected with pests in Cagayan Valley Region

Crop	Area monitored & validated (ha)	Insect pests and diseases monitored	Remarks
Corn	14,922	Fall Armyworm, Rodents, Aphids, Corn Smut, Stalk Rot	14,922 ha treated
Rice	13,217	Brown Plant Hopper (BPH), Leaf Folder, Stemborer, Whorl Maggot, Rice Bug, Golden Apple Snail, Rice Black Bug, Rodents, Rice Blast, Sheat and Neck Rot, Bacterial Leaf Streak, Bacterial Leaf, Blight, Brown Spot	13,217 ha treated
High Value Crops	171	Onion Armyworm, Onion Twister, Melon worm, Bean rust, Egg-plant Fruit and Shoot Borer	171 ha treated

-  Determined to extend its services to the farmers in the region, the RCPC 02 conducted Massive Spraying on Citrus and Mango and established Pheromone Traps in the four (4) provinces in the region

DA RFO 02 - Regional Crops Protection Center (RCPC) Bagged Awards in CY 2022

Pagasa Award



DA RFO 02 Women Advocates received CSC Pagasa Award for Food Safety in Cagayan Valley.



In-House Agency Review on September 27, 2022



Best Paper - Outscaling of Container Straw Mushroom Cultivation in Isabela



3rd Best Paper - Pest Risk Identification Management (PRIME) Project in Region 02



3rd Best Paper - On-Stations Assessment & Management of Fall Armyworm (FAW) Input Subsystem



3rd Best Poster - Outscaling of Upland Rice Farming System in Jones, Isabela



4th Best Poster - On-station of Spawn Production in Support to Mushroom Enterprise in Isabela

PRIME National Summit on November 10, 2022




3rd Best Poster


Research for Development Services


ENSURE THE AVAILABILITY OF RESOURCES FOR THE EFFICIENT IMPLEMENTATION OF R4D PROJECTS AND ACTIVITIES IN THE REGION LEADING TO THE GENERATION AND DEVELOPMENT OF APPROPRIATE AND LOCATION-SPECIFIC TECHNOLOGIES AND INFORMATION





Responsible in the implementation of R4D projects and activities, the Research Division led the following activities:

- 

Assisted the Research Centers and Experiment Stations (RCES) in crafting the Provincial Research for Development/Extension Agenda and Program (PRDEAP). The Cagayan Valley Regional Research for Development and Extension Network (CVRRDEN) member-agencies such as State Universities and Colleges (SUCs), Philippine Rice Research Institute-Isabela Branch (PhilRice-Isabela), Agricultural Training Institute - Regional Training Center 02 (ATI-RTC 2), Department of Science and Technology (DOST), Department of Trade and Industry (DTI), Provincial/Municipal/City Local Government Units (P/M/CLGUs) and Regional Agriculture and Fisheries Council Chairperson provided inputs in the crafting of the said provincial RDE agenda.
- 

Utilized the crafted PRDEAP as a reference in updating the Regional Integrated Research for Development and Extension Agenda and Programs (RIRDEAP)
- 

Conducted four (4) Participatory Rural Appraisals (PRA) in the provinces of Cagayan and Nueva Vizcaya. The results of PRA were used as guide in packaging research project proposals.
- 

Generated/facilitated the approval of a total of Php65,760,000.00 (regular funds under the GAA) to continuously implement 51 projects and other various R4D programs and activities in the region
- 

Spearheaded resource generation from outside sources through the packaging and endorsement of 67 R4D and Research Facilities Development (RFD) proposals. Four (4) projects were funded by the Bureau of Agricultural Research which generated an amount of Php16,749,990.05 for CY 2022. Two (2) projects were also approved but waiting for the release of a Notice to Proceed from the said bureau for implementation in CY 2023.



Identified location-specific/proven technologies/breakthroughs from the implementation of 51 regular and 20 externally-funded projects during the series of On-site/Online R4D Monitoring, Pre-In-House, and Annual Agency-In-House Reviews

The following were the technologies provided to the Field Operations Division for their reference and in support to the commercialization of research results to cluster areas:



Rice

Input System

1. NextGen Rice Varieties in Saline Areas
 - Scaled-up NextGen Rice Varieties (NSIC Rc480, NSIC Rc27, and NSIC Rc31 SR) in saline and rainfed areas
2. Established information on Direct Tissue Planting (DTP) Technology for mother spawn production
3. Low-cost Mushroom House using Sawali Walling

Production System

1. Use of Soil Fertility Maps (SFM) based on the results/recommendation of Soil Laboratory Analysis (SLA)
2. Use of PRIME Open Data Kit (ODK)/digital application
3. Adjusted planting calendar using early maturing variety (NSIC Rc480)
4. Use of Mechanical Rice Transplanter in Solar-Powered Irrigation System (SPIS) in Isabela and National Irrigation System/Communal Irrigation System (NIS/CIS) in Cagayan
 - a. Palay Check System by PhilRice
 - b. Mungbean after rice
 - Varieties: Pag-asa 7 (UPL Mg7)
 - Fertilization: Focus on Organic Fertilization Technology
 - (1) Rhizobium inoculant (seed dressing)
 - (2) Organic foliar fertilizer (either of the ff: Amway AG, Vermi-tea or Carrageenan)
5. Rice+Poultry (Poultry & Duck) Integration
6. Use of locally fermented feed technology in Muscovy duck production as an alternative to commercial feeds
Feed ingredients to five (5) heads of duck in one (1) month
7. Use of Land Laser Leveller (LLL) and Mechanical Transplanter (MT)
8. Mini Transplanter, Hydraulic assisted Leveler Mounted to Handtractor, Multi-purpose Weeder/Cultivator Retrofitted to Brush Cutter
9. Modified Planting Calendar using mechanical seeder and rice transplanter.
 - a. Modified Planting Calendar
 - Wet Season: from mid-June to mid-October to mid-May to mid of September
 - Dry Season: from November to March to December to April
10. Established information on the Locally Developed Machinery and Postharvest Facility.
 - a. Walking-type Agriculture Tractor
 - b. 10 Row-Direct Seeder Mounted to Four-Wheel Tractor (Medium)
 - c. Mini-Rice Transplanter
 - d. Engine-Driven Mobile Multi-Pass Rice Mill
 - e. 3-Ton Engine-Driven Mobile Recirculating Dryer
 - f. Walking-type Agricultural Tractor (Jumb
 - g. 3-ton Engine driven Mobile Recirculating Dryer
11. Sling hydro-powered pump Utilizing Cagayan River and its Tributaries in irrigating crops

RESEARCH, DEVELOPMENT AND EXTENSION BUILDING



4 Enhancement and Commercialization of Developed Mungbean-based Food Products in Cagayan Valley

Vanessa Joy F. Calderon, Rose Mary G. Aquino, Camille O. Francisco, Rolando D. Pedro, Sheryl A. De Guzman & Precious Nurela C. Javier

Rationale

DA-CVRC initiated the development of mungbean-based products in 2018, and officially launched the brand "Mung Bean" in 2019 in support to the local mungbean farmers in Region 20.

Cagayan Valley will rank as one of the top mungbean producing regions with a total annual production output of 6,866 mt which makes Cagayan Valley 132.24% sufficient in terms of demand for the said crop (PSA, 2019).

Market Research undertakings such as Focus Group Discussion (FGD) and Market Survey leads to further improvement of these products. Furthermore, in order to sustain its commercialization and mass production, the FLOW of the Agriculture Cooperative in Cabatuan, Subila was chosen and specialized as the partner manufacturer of the food products.

Objectives

- To conduct a market research on mungbean food products
- To apply the processing and packaging technology for mungbean products.
- To develop a business model for potential buyers engaged in mungbean processing business and conduct a commercialization; and
- To establish financial viability and profitability analyses of developed products

Mechanology

Highlights of accomplishment

Food Processing Technological Model (Mungbean-based Food Products)

Guidelines or a Quantitative Process for Processing Technology

Three (3) iterations of Focus Group Discussion conducted to three (3) age cohorts (18-24, 25-34, 35-44) to identify key factors for product development.

Market Research to one (1) Highly Urbanized City as one of the product target consumers (Metro Manila).

Final Indicators

Indicator	Target	Actual	Percentage
Market Share (%)	10.00%	12.50%	125.00%
Customer Satisfaction (%)	85.00%	90.00%	105.88%
Production Cost (₱)	₱1.50	₱1.20	80.00%

Product Commercialization Highlights

68,593 pieces of Mungbean Food Products in 1 year operation

29 School Districts under the Department of Education (DepEd) Division Office - Cagayan Valley

₱2.5 Million

₱0.5 Million

10 Capability Building Activities



Postharvest & Processing Subsystem

1. Database system on machineries, equipment, and facilities
2. Information Generation on the Performance Verification of Grain Losses using Different brand of Combine Harvester
3. Modified Substrate Bagger Machine
4. Rice-based Food Products (Pawa)
5. Developed Mushroom Products (Mushroom squares, balls, siomai, dumplings, cubes)
6. Straw Mushroom Production for Urban and Peri-Urban areas using container
7. Mushroom cultivation through mass propagation technology
 - a. Production of mushroom quality planting materials using tissue culture production technology (culture media, pure culture, grain spawn)
 - b. Cultivation through the utilization of tissue culture, fruit production, and processing introduced to the youth using low-cost materials



Corn

Input System

1. OPV corn varieties with market demand (IES #12 for cornick processing by Big Brothers of Cauayan City, Isabela and Barcelona Food Products of Santiago City)
2. Fall Armyworm (FAW) Pest Management
3. Crop diversification
 - a. DS (November-December): Peanut – Corn
 - b. WS (April-May): Sweet Potato – Corn
 - c. Green corn on follow period (October-November) -Sweet Pearl



High Value Commercial Crops

1. Bio-Control Agents (BCAs) and Rapid Test Kit (RTK)
 - a. Application of different Biological Control Agents (BCAs) before planting and/or during seedlings, vegetative and reproductive stage, for the management of insect pests and diseases;
 - b. Use of Rapid Test Kit (RTK) to check the compliance on pesticide residue Maximum Residue Limits (MRLs) and Pre-Harvest Interval (PHI)
2. Micro-Propagation Techniques
 - a. Mass Production of Lowland and Indigenous Vegetables
 - b. Mass Production of Upland Vegetables and Legumes Quality Seeds and Seedlings
3. Macro-Propagation Techniques for Mass Production of Quality Planting Materials on Sweet Potato
4. Saba whole Corn Macro-propagation
 - a. Use of Thiadiazuron and Benzylamioipurine in inducing bud and shoot formation
5. Banana Tissue Culture Propagation Technique

Postharvest & Processing Subsystem

1. Pinoy GOURmix enhanced with mushroom powder
2. Mang Bean based products
3. Agribusiness Developed Processed Products Technology Business Incubator (ADePt-TBI)



Livestock

1. Genetic breeding
 - a. Establishment of baseline information on the Productive and Reproductive Performance of Crossbreeds of Sheep
 - b. Crossbreeding of Male Dorper (D) to female St. Croix (SC)
 - c. Crossbreeding of Katahdin (K) male parent and Dorper (D) female parent
2. Rice-wash based probiotics for Small Ruminants
3. Corn Silage Production for small ruminant (Goat and Sheep)
4. Formulated feeds using mungbean and cowpea as alternative protein sources for every growth stages of swine and poultry

Intensified technology transfer to technology takers.

The Research Division facilitated the awarding of Technology Transfer Certificate and signing of Memorandum of Understanding (MOU) and Licensing/ Marketing Agreement (LMA) in the transfer of 15 technologies/products/information to 32 technology business incubatees/technology takers. These takers were capacitated on the procedures/protocols or technical know-how and profitability analysis of the transferred technologies.

1. Intensified partnership with the Isabela State University which resulted in one (1) published research result on June 13, 2022 in the ISU Linker: The Journal of Emerging Research on Agriculture, Fisheries, and Forestry (TJERAFF)
2. Endorsed eight (8) research results for possible publication in the journal for CY 2023
3. Promoted/transferred various technologies through Field Days, Technology Forum, broadcasts, and social media to reach more farmers and other stakeholders. Municipalities expressed their willingness to adopt the technology on Balanced Fertilization and Pesticide Use Strategy on corn and rice and to allot a portion of their budget for its implementation starting CY 2023 in preparation for the Mandanas Ruling.
4. Strengthened the partnership with PLGU Nueva Vizcaya and regularly monitored the Balanced Fertilization and Balanced Pesticide Use Strategy on citrus which made the Municipality of Kasibu, Nueva Vizcaya the "Citrus Capital of Luzon" under Administrative Order No. 18, Series of 2022
5. Packaged R4D Digest, Press Releases, and Audio Visual Presentations of various matured technologies
6. Discussed technology on double-row planting on corn in the webinar series of DA-BAR
7. Facilitated the endorsement of the technology on off-season onion production to DA-BAR and presented it during the 7th National Research and Development Conference hosted by the Department of Science and Technology
8. Conducted the CVRRDEN Technology Forum for Locally Developed and Fabricated Machineries, Equipment, and Processed Products in partnership with the Regional Agricultural Engineering Division (RAED), to showcase and promote technologies on locally fabricated machines and equipment from inventors, manufacturers/fabricators and from Government Research Institutions which addressed the reduction of labor, cost, and risk and the increase of production to attain Masagana 150 (7.5 MT/ha); 200 (10 MT/ha) with milled rice cost at P25-30/kg (1 passing milling)
9. Showcased and recognized a total of 41 locally developed machineries along the different segments of value chain and 23 local fabricators composed of 17 individuals, Farmers' Cooperatives and Associations (FCAs) and local manufacturing companies organization and six (6) CVRRDEN-member agencies
10. Showcased developed R4D technologies/products during the 16th Padday na Lima Regional Trade and Investment Fair particularly the different flour (rice, corn, squash, ube, and banana)



Designed activities to capacitate the R4D researchers. In CY 2022, the Research Division spearheaded three (3) capacity-building activities.

Experts from the University of the Philippines – Visayas, Bureau of Agricultural Research, and National Academy of Science and Technology were tapped as Resource Speakers during the activities.

- 1. Experimental Design and Data Analysis for Agricultural Research**
- 2. Scientific Career System (SCS) Orientation: “Be a Career Scientist”**
- 3. Training cum Workshop on R4D Proposal Preparation and Technical Writing**

The division facilitated the processing/submission of complete requirements of researchers for the approval of the Magna Carta for Researchers (RA 8439). In partnership with Human Resource Management Office and Budget Section, the division led the preparation of various documents and facilitated the renewal of contract of 59 R4D Personnel and 36 new applicants. With these efforts, researchers from the Research Centers/Experiment Stations and R4D implementing units are now claiming incentives (subsistence and laundry allowances) and honoraria in conducting R4D projects.

DA RFO 02 - Research Division Garnered Various Awards on Regional and National Symposia

1. 3rd Place in the Photo Contest and 2nd Place in the Video Contest (DA-QES)
 - a. Department of Agriculture Bureau of Agricultural Research (DA-BAR) Agri-fisheries R4D Photo and Video Contest 2022
2. 3rd Place Best Development Paper Award - “Enhancement and Commercialization of Developed Mungbean-Based Food Products in Cagayan Valley”
 - a. National Symposium for Agriculture, Aquatic and Natural Resources Research and Development (NSAARRD) 2022, held via blended platforms, onsite at University of the Philippines Los Baños (UPLB), Laguna, and online via Facebook Live in DOST-PCAARRD’s official Facebook Page on November 10, 2022
3. 1st Place Best Paper Award under the Agriculture Fisheries and Natural Resources Category - “Upscaling and Sustaining Commercialization of Enhanced Pinoy GOURmix Food Products” of DA RFO 2 CVRC
 - a. Cagayan State University’s (CSU) 3rd Regional Agriculture, Fisheries, and Natural Resources, Engineering and Technology Virtual Research Conference (RAFNET) 2022 on December 14-15, 2022
4. 1st Place Best Paper Award under the Engineering and Technology Category - “Performance Verification of Grain Losses using Different Brand of Combine Harvester in Region 02” of DA RFO 02 RAED
 - a. Cagayan State University’s (CSU) 3rd Regional Agriculture, Fisheries, and Natural Resources, Engineering and Technology Virtual Research Conference (RAFNET) 2022 on December 14-15, 2022
5. 2nd Place Best Poster Award under the Development Category - “Technology Commercialization of Biological Control Agents (BCAs) and Rapid Test Kit (RTK) in the Promotion of Pesticide Safe Vegetables in Cagayan”
 - a. 33rd CVAARRD Regional Symposium on Research, Development & Extension Highlights on November 23-24, 2022
6. The Research Division is the 1st implementing unit with No Non-Conformities (NC) and Opportunities for Improvement (OFI) since the implementation of ISO in CY 2017 in DA RFO 02 as identified by the external evaluators during the First Surveillance Audit (Remote) of ISO 9001:2015



Regulatory Services

TRAILBLAZING THE IMPLEMENTATION OF FOOD SAFETY ACT OF 2013



Recognizing the importance of Food Safety, the Regulatory Division continued the advocacy of Food Safety Standards on the production of both crops and livestock.



Conducted 20 technical briefings on Good Agricultural Practices (GAP) which were attended by 1,702 participants; composed mostly of vegetable growers and rice farmers



Endorsed 87 new applicants for PhilGAP certification to the Bureau of Plant Industry (BPI). In addition, 71 applications for the renewal of their certification were also endorsed. Of the 158 applications endorsed, 115 were inspected by the National Inspectorate Team. In 2022, there were 17 certificates approved and released.



GAP Certified Farms

Province/ Municipality	Commodities			Total
	Rice	HVC	White Corn	
Cagayan	12	7	-	19
Isabela	10	60		70
Nueva Vizcaya		40	4	44
Quirino	9	1		10
Total	31	108	4	143

Enhanced the Food Safety implementation through legislative support.

Of the total 15 municipalities in the Province of Nueva Vizcaya, 11 already passed their Food Safety Ordinances.



Assisted the FCAs within the major vegetable producing areas in the region to comply in the production of Pesticide Residue-Safe Vegetables. To date, Certificates of Compliance were issued to 39 FCAs (5 in Cagayan, 3 in Isabela, and 31 in Nueva Vizcaya)



Awarded 4,000 PhilGAP Traceability Stickers to the following farms:

Name of Farm	Location	No. of Stickers	Remarks
Grandeza Integrated Farm	Ballesteros, Cagayan	1000	Pineapple
Sangui Gold Farm	San Guillermo, Isabela	1000	Dragon Fruit
Nipahoy's Farm	Kasibu, Nueva Vizcaya	1000	Pepper
RMD Farm	Kasibu, Nueva Vizcaya	400	Pepper
Elison B. Pedro	Kasibu, Nueva Vizcaya	200	Citrus



Food Animal Husbandry Practices (GAHP) promotion was undertaken to ensure the adoption of livestock and poultry farmers to food safety standards.

It also aims to provide safe and quality animal products to the consumers, to promote the welfare and comfort of both the workers and animals, and to safeguard the environment.



Conducted 10 technical briefings on Animal Welfare Act of 1998 (RA 8485 as amended by RA 10631) to protect and promote the welfare of all terrestrial, aquatic, and marine animals in the Philippines by supervising and regulating the establishment and operations of all facilities utilized for breeding, maintaining, keeping, treating or training of all animals either as objects of trade or as pets



There were 300 participants composed of farm technical personnel, farmers' cooperative leaders, animal facility owners, veterinarians, and technical personnel from the different Municipal Agriculture Offices in the five (5) provinces of Region 02 who attended the activity through face-to-face and online



Facilitated the registration of 36 animal facilities

Type of Facility	No. of Facility Registered	
	Renewal	New
Veterinary Clinic	4	4
Poultry Breeder	8	2
Layer Farm	2	3
Broiler Farm	4	2
Hog Farm	1	2
Swine Stockyard	-	1
Pigeon Racing Facility	-	1
Duck Farm	1	
Hatchery	1	
Total	21	15



Inspected three (3) farms - MJB Hatchery in Diffun, Quirino (hatchery), LP Lim Farm, Inc. in Ramon, Isabela (breeder farm), and G. Antonio Poultry Farm in San Manuel, Isabela (broiler farm)



Issued 40 Animal Research Clearances to students in various schools, colleges, and state universities in the region



Assisted six (6) Animal Event Veterinarians and four (4) Animal Event Organizers in acquiring certification to conduct Animal Event from Bureau of Animal Industry (BAI). There were five (5) animal events held within the year



Apprehended the illegal transport of pigeons intended for illegal racing activity in Sta. Praxedes, Cagayan on July 03, 2022 through the assistance of the Philippine National Police (PNP)

Under the supervision of the Transboundary Plant Pest Monitoring Unit, stringent monitoring of plant materials shipped in the region was conducted, in coordination with the Regional Quarantine Checkpoints Personnel and the Bureau of Plant Industry Satellite Office Region 02. Shippers carrying Clearance of Domestic Transport (CDT) issued by BPI Central Office passed through the checkpoints while shippers who neglected to acquire CDT were sent back to their origin.



Monitored a total of 5,851,072 planting materials/seedlings with CDT issued by BPI Central Office and BPI Regional Satellite Office 03



Heightened the quarantinable pests awareness campaign among farmers in coordination with BPI and LGUs for monitoring and surveillance thru posting of advisories



Posted advisories of perennial pests observed from high value crops, rice, and corn. Pest advisories were published through the Transboundary Plant Pest Surveillance Region 02 Facebook Page, reaching 28,298 people/viewers



Conducted a consultative meeting and technical briefing with Quarantine Personnel on March 17, 2022 at the DA-CVRC, City of Ilagan, Isabela. The activities aim to further strengthen the collaboration between DA RFO2 and DA-attached agencies such as BAI, BPI, and BFAR in manning the regional checkpoints

License to operate and product registration for feeds via online application were undertaken pursuant to Administrative Order No. 41, Series of 2020.



Assisted 405 feed retailers, distributors, dealers, and manufacturers



Conducted eight (8) orientations on RA 1556 otherwise known as the Livestock and Poultry Feeds Act and DA Administrative Order No. 08, Series of 2004, otherwise known as the Licensing of Handlers and Accreditation of Transport Carriers with 263 participants



Facilitated two (2) virtual meetings for all Livestock Inspectors, Municipal Agriculturists, and Business Permit and Licensing Officers (BPLO) in the region. The meetings were intended to update the Local Government Units (LGUs) on current policies, laws, rules, and regulations on online registration of animal feed establishments

Analysis results of the 1,572 feed samples collected from feed establishments were provided.

In coordination with the Integrated Laboratory Division (ILD), results of feed analysis for the last three (3) years were reviewed. A total of 75 feed establishments were found to have sustained their compliance to BAI's Animal Feed Standards.



Awarded Certificates of Compliance to six (6) feed establishments: RH Agri-Poultry Supply, Birung Store, Tolentino's Mini Grocery, Joynoy Sari-Sari Store in Piat, Cagayan, and Willy's Cereal Trading Corporation and Iringan Rice and Feeds Center in Tuguegarao City, Cagayan



Assisted 169 handlers on their registration and 296 transport carriers on their accreditation to ensure the safety and welfare on the transport of live animals



To ensure the health and welfare of animals, the Animal Disease Surveillance and Monitoring Unit developed the following policies and strategies:



Prevention, control, management, and eradication of priority livestock and poultry diseases in support to the Food Safety Act (RA 10611)



Monitoring of the four (4) Major Regional Quarantine Checkpoints to ensure all commodities entering the region are free of dreadful animal diseases



Implementation of Standard Operating Procedures (SOPs) and guidelines for animal disease control, and Extension Support, Education and Training; and conduct of consultative meetings with LGU personnel and other stakeholders on Animal Health and Welfare

One major concern of the Regulatory Division is the emergence of various animal diseases such as African Swine Fever (ASF), Avian Influenza (AI), and Foot and Mouth Disease (FMD).

Hence, the following specimens were collected and submitted to ILD for analysis:



African Swine Fever (ASF) - Blood Samples - 1,208, Environmental Swabs - 1,096, Organ Samples - 9



Avian Influenza (AI) - Blood Samples - 3,224, Environmental Swabs - 3,224



Foot and Mouth Disease (FMD) - Blood Samples - 565



Regarding the African Swine Fever (ASF) which has been the biggest threat to the swine industry, the Regulatory Division closely coordinated with P/MLGUs in the crafting/passing of four (4) provincial and 76 municipal/city “Bantay ASF sa Barangay” (BABay ASF) Ordinances and the zone progression of 46 municipalities from red (infected) to pink (buffer) zone.



Assisted the Livestock Program in the conduct of environmental swabbing on identified recipients of the Integrated National Swine Production Initiatives for Recovery and Expansion (INSPIRE) Project



Conducted Information, Education, and Communication campaign on the dreadful effects of ASF in partnership with State Universities and Colleges (SUCs)

Year 2022 posed a challenge with the incidence of Avian Influenza (AI). It has high morbidity and 100% mortality with the ability to infect humans. With the unavailability of vaccines, surveillance activities were undertaken for early detection of the disease.



Conducted intensive surveillance in migratory bird sites and on the Bureau of Animal Industry (BAI)-identified high-risk areas which resulted in the early detection of AI virus in municipality of Cauayan City, Alicia, and Gamu, Isabela. The containment procedures were successful in culling 4,776 poultry and indemnifying affected farmers with a total of P318,315.00

The Philippines still remains Foot and Mouth Disease (FMD) free. This indicates active border control. Meanwhile, personnel from the Regulatory Division remain vigilant in its monitoring and surveillance to prevent the occurrence of such zoonotic disease. These activities are attributed to the active coordination of the DA RFO 02 and the LGUs.

Vaccination plays a big role in the prevention of rabies and anthrax infection in the region. The Animal Disease Monitoring and Surveillance Unit was able to vaccinate a total of 586 dogs and cats against the rabies virus and 27 animals against anthrax. Proper disposal of dead animals through burning/burying was also conducted.

Other Programs and Projects



Farm-to-Market Road Projects

DA RFO 02 WORKED ON THE ONCE LESS-TRAVELLED ROAD, AND THAT HAS MADE ALL THE DIFFERENCE.



CY 2022

P639,000,000.00

53.245 km (46 project/sites)



9,865

beneficiaries served



Geared towards providing better services to the farmers through easy access and transportation of goods from remote areas to the market or various trading centers, the Department of Agriculture Regional Field Office No. 02 had intensified the establishment of farm-to-market road projects in the region.

The Department of Budget and Management (DBM) released the budget for the projects directly downloaded to the Department of Public Works and Highways (DPWH) - Engineering Offices of Region 02. With the total funding of P639,000,000.00 for CY 2022, the project would cover 53.245 km (46 project/sites) and benefit 9,865 beneficiaries with service area of 9,242 ha. To date, 43.738 km; 75.26% accomplished (20 ongoing & 26 completed projects/sites) were already constructed and the rest are still ongoing.



Climate Change - Adaptation and Mitigation Initiative in Agriculture (CC-AMIA)

ENABLE LOCAL COMMUNITIES TO MANAGE CLIMATE RISKS WHILE PURSUING SUSTAINABLE LIVELIHOODS





Established/maintained five (5) AMIA Villages in Lucban, Benito Soliven, Isabela, Sta. Victoria, City of Ilagan, Isabela, Calamegatan, Buguey, Cagayan, Nararagan, Ballesteros, Cagayan, and Giayan, Nagtipunan, Quirino



Supported seven (7) expansion areas through scaling up of Climate Resilient Agriculture (CRA) technologies and practices. These are located in Maluno Sur, Maluno Norte, and Yeban Norte, Benito Soliven, Isabela; Mala Weste, Maddalero, and San Lorenzo, Buguey, Cagayan; and San Jose, San Mariano, Isabela



Facilitated a Business Planning activity which was attended and participated by Nararagan United Farmers Association (NUFA) members on March 29-31, 2022 at the Southern Cagayan Research Center, Iguig, Cagayan. The crafted business plans were submitted to the DA-Agri Business and Marketing Assistance Division (AMAD).



Conducted a four-day hands-on training on Climate-Resilient Agriculture Technology for Mushroom Production at the AMIA Village in Nararagan, Ballesteros, and Calamegatan, Buguey, Cagayan on August 9-12 and September 20-22, 2022, respectively



Conducted a technical training on Climate Resilient Agriculture (CRA) Practices/Farm Management last August 19, 25, and September 30, 2022 at the AMIA Village in Giayan, Nagtipunan, Quirino, Calamegatan, Buguey and Nararagan, Ballesteros, Cagayan





Conducted two-day hands-on training on Citrus Product Development, Labeling, and Marketing on November 16 - 17, 2022 in Nararagan, Ballesteros, Cagayan to develop the adaptive capacity of the citrus growers and to increase their income eventually

Introduced different climate-resilient agri-fishery technologies through the conduct of various trainings/seminars/activities:

1. Pre-site Validation and Initial Data Gathering for the Proposed CC-AMIA Sites
2. Participatory Climate Resiliency and Vulnerability Appraisal (PCRVA)
3. Participatory Rural Appraisal for High-Value Crops
4. Climate Resilient Farm Business School in collaboration with the Agricultural Training Institute (ATI)
5. KADIWA Trade Fair and Cagayan Valley Citrus Industry Forum



Provided/established agri-fishery equipment, machineries, and/or facilities.

1. AMIA Climate Information and Learning Center
2. Two (2) units of Multi-Purpose Drying Pavement (MPDP)
3. PandeRise Processing Facilities



Provided sustainable business opportunities and livelihood programs to increase resilience in managing climate risks while pursuing sustainable livelihood.

1. HVCDP interventions during the High-Value Crops Week celebration
2. Swine dispersal
3. Sheep house with 11 heads sheep
4. Mushroom house with 1,000 fruiting bags
5. Cattle house with 20 heads cattle
6. Broiler house 482 heads broiler
7. Ready-to-lay chicken shed with 282 heads broiler
8. Swine house with 25 heads swine



Assisted in the BP2 dispatching operations and in supporting the beneficiaries who wanted to pursue agriculture/agribusiness as a means of living upon going back to their respective provinces.

Led the following activities for the BP2 beneficiaries:

1. Site validation and initial data gathering for the BP2/AMIA site
2. Participatory Climate Resiliency and Vulnerability Appraisal (PCRVA)
3. Validation and assessment of the AMIA and BP2 projects in Region 02
4. Orientation/re-orientation for the implementation of the BP2 Program CY 2022 and
5. Capability-building activities for BP2 Program Beneficiaries on Agri- Entrepreneurial and Management Skills Training
6. Technical training on CRA Practices/Farm Management
7. Distribution of livelihood assistance to BP2/AMIA Program beneficiaries



Established 11 BP2 sites with 440 farmers through various Climate Resilient Agriculture (CRA) technologies implemented and adopted.

- | | |
|--|--|
| 1. Union, Cauayan City, Isabela | 7. Iguig, Cagayan |
| 2. Minante 1, Cauayan City, Isabela | 8. Kimbuan, Dupax Del Sur, Nueva Vizcaya |
| 3. Matusalem, Roxas, Isabela | 9. Cabagan, Isabela |
| 4. Naguillian Norte, City of Ilagan, Isabela | 10. Aurora, Isabela |
| 5. Annafunan, Tumauní, Isabela | 11. Reina Mercedes, Isabela |
| 6. Mozzozzin Norte, Sta. Maria, Isabela | |




Kabuhayan at Kaunlaran ng Kababayang Katutubo (4Ks) Project


REACHING OUT TO THE INDIGENOUS CULTURAL COMMUNITIES/INDIGENOUS PEOPLES (ICCs/IPs)





Attained 96% in the overall physical accomplishment and 100% in the financial obligation with a total of Php9,484,000.00. A total of 94.68% or Php8,979,000.00 was disbursed from the total allocation.

 Conducted consultative meetings with the Indigenous People (IP) Organizations leaders and members, Indigenous Peoples Mandatory Representatives (IPMRs), Provincial, Municipal and Barangay Local Government Units (PMBLGU), the National Commission on Indigenous People (NCIP), and other concerned agencies

 Conducted IP community needs assessment through Focus Group Discussions (FGD), open forum, and interviews to analyze their needs, weaknesses, and strengths per individual and/or group

 Conducted capacity building to help the project recipients upskill their production and management on high-value crops, livestock, and poultry







 Distributed agricultural inputs and equipment such as GM hybrid corn seeds, ube planting materials, and fruit-bearing species such as rambutan, lanzones, sweet pomelo, and mandarin, hand tractor with a two-row planter, and a fiber glass boat

 Conducted geo-tagging and project monitoring in the nine (9) ancestral domains in the region to identify and check the existing problems and needs of the recipients in managing the above-mentioned inputs














SOCIAL PREPARATION COMPONENT

The following activities were conducted in coordination with the Department of Agriculture-Southern Cagayan Research Center (DA-SCRC), National Commission on Indigenous Peoples (NCIP), MLGUs, participating Agta ICCs/IPs Organizations, and other concerned agencies.










-  Consultative meetings on February 2 and 16, 2022 for the Agta ICCs/IPs of Palau Island, San Vicente, Sta. Ana, Cagayan and Dibuluan, San Mariano, Isabela, respectively
-  Capacity building on Proper Crop Management of Lowland Vegetables and Production Management of Native Chickens and Ducks and project site validation in the targeted area under the ancestral domain of Agta ICCs/IPs in Sitio Andarayan, Dibuluan, San Mariano, Isabela on March 8, 2022
-  Capacity building on Native Chicken and Duck Production Management among the Agta Indigenous Peoples of Palau Island, San Vicente, Sta. Ana, Cagayan on March 15, 2022
-  Project site validation on March 16, 2022 in the targeted area under the ancestral domain of the Agta ICCs/IPs of Palau Island, San Vicente, Sta. Ana, Cagayan
-  Inter-agency meeting with the National Commission on Indigenous Peoples (NCIP) Regional Office and Batanes Station Office, Municipal Office of Basco, Batanes, different farmers and fisherfolk associations, and Ivatan Indigenous Cultural Community (ICC) regarding the implementation of 4Ks Project in Basco, Batanes
-  Department of Labor and Employment (DOLE) legal registration of the Agta ICCs/IPs Organization of Sitio Andarayan, Dibuluan, San Mariano, Isabela and Sitio Bagsang, Sta. Clara, Gonzaga on March 9 and 29, 2022, respectively



PRODUCTION AND LIVELIHOOD COMPONENT

-  Site validation on April 21, 2022 in the Ancestral Domain of Agta ICCs in Dibulo, Dinapigue, Isabela regarding the possible installation of Solar Power Irrigation System (SPIS) for high value crop production.
-  Distribution of livelihood-agricultural inputs such as ube, ginger, and assorted vegetable seeds ready for production in the coming planting season in the Bugkalot ICCs in Belance, Dupax Del Norte, Nueva Vizcaya on May 11, 2022.
-  Distribution of the first batch of vegetable seeds and delivery of hand tractor with a two-row planter for the Agta (ICCs/IPs) in Sitio Bagsang, Sta. Clara, Gonzaga, Cagayan.
-  Distribution of upland rice seeds, inorganic fertilizer (under SARO 2021), and assorted vegetable seeds for the Agta ICCs/IPs in San Vicente, San Pablo, Isabela on May 18, 2022.
-  Distribution of ube planting materials and cariton for the Agta ICCs/IPs in Dibulo and Digumased, Dinapigue, Isabela on May 27, 2022.
-  Project monitoring and distribution of assorted vegetable seeds for the production area of high value crops and native chicken and ducks.
-  Distribution of assorted vegetable seeds and project monitoring for the production area of high value crops and native chicken and ducks in San Mariano, Isabela on May 26, 2022.
-  Distribution of 13.82 kg of lowland and upland vegetable seeds in Sitio Bagsang, Sta. Clara, Gonzaga, Cagayan on June 1, 2022.
-  Distribution of assorted vegetable and corn seeds in Sitio Dioryong, Disimungal, Nagtipunan, Quirino on May 24 and June 2, 2022.
-  Distribution of assorted seedlings in Belance, Dupax Del Norte, Nueva Vizcaya on June 2, 2022.
-  Distribution of assorted fruit bearing trees and fiber glass bangka for Agta ICC/IPs in Dinapigue, Isabela on June 15, 2022.



-  Preparation of communal area for the vegetable, fruit bearing trees, and poultry in Dibuluan, San Mariano on June 16, 2022.
-  Project launch for the Mabegsak A Magsikaw Nga Agta Ti Dibuluan Association in Sitio Andarayan, Dibuluan, San Mariano, Isabela on July 6, 2022. An intervention amounting to Php 755,901.41 was awarded to the said Agta Association.
-  Awarding of certificate from the Department of Labor and Employment (DOLE) to the Mabegsak a Magsikaw nga Agta ti Dibuluan Association in Dibuluan, San Mariano, Isabela as legitimate workers' association.
-  Turnover of program interventions to the Chanarian-Tukon Farmers Association, Kayhuvukan Farmers Association and Kaychanarian Farmers Association of Basco, Batanes on July 13, 2022.
-  Meeting with Agta ICCs/IPs of Sitio Magamut, San Vicente, San Pablo, Isabela as requirement for the application of Certification Precondition (CP). Said group also conducted a signing of community resolution as proof of their acceptance of the project on July 19, 2022.
-  Field validation in preparation for the jetmatic pump installation in the Ancestral Area of Agta Indigenous Peoples/Indigenous Cultural Communities (IPs/ICCs) in Dibuluan, San Mariano, Isabela on September 15, 2022.
-  Distribution of 60 packs of open-pollinated variety vegetable seeds to the Agta ICCs/IPs in Sitio Bagsang, Sta. Clara, Cagayan and Sitio Pureg, Callungan, Sanchez Mira, Cagayan on November 10, 2022.
-  Project monitoring of fruit-bearing trees and vegetable production area under the Ancestral Domain of Agta ICCs/IPs in Dibulo, Dinapigue, Isabela on November 16, 2022.
-  Turnover and Awarding of Certificate of Bangka and signing of Memorandum of Agreement of the fiber glass bangka worth Php116,500.00 thru Ms. Josefa Vetriolo, Indigenous Peoples Organization leader, on November 17, 2022.



Philippine Rural Development Project (PRDP)

RPCO - CAGAYAN VALLEY: DELIVERING SERVICES WITH RIGOR AND VIGOR



PROJECT DEVELOPMENT OBJECTIVES



5%

INCREASE ANNUAL REAL FARM INCOMES OF PRDP IN HOUSEHOLD BENEFICIARIES

7%

INCREASE VALUE OF ANNUAL MARKETED OUTPUT

30%

INCREASE INCOME FOR TARGETED BENEFICIARIES OF ENTERPRISES BENEFICIARIES

20%

INCREASE IN NUMBER OF FARMERS AND FISHERFOLK WITH IMPROVED ACCESS TO DA SERVICE

PRDP has established Regional Project Coordinating Offices (RPCOs) in each DA regional office to closely coordinate with the Provincial/Municipal/City Local Government Units (P/M/CLGUs) and to ensure the full performance of DA Regional Field Offices (RFOs) including mobilization of DA-attached agencies.

The DA RPCO 02 is orchestrating the operationalization of the PRDP across the region through its four (4) main components, namely: I Local and National Level Planning or I-PLAN, Infrastructure Development or I-BUILD, Enterprise Development or I-REAP, and Project Implementation Support or I-SUPPORT in collaboration with the Provincial/Municipal/City Local Government Units as the project lead implementers.

PRDP COMPONENTS



I-BUILD Infrastructure Development

It aims to improve the links from production areas to markets to enhance the efficiency of transporting agricultural products. It also aims for higher productivity as a result of increased cropping intensity and yields, food security and improved health from readily available potable water and lower post harvest losses resulting in higher volume of outputs and more efficient support facilities.



I-REAP Enterprise Development

It aims to engage broad sections of the sector in the production of marketable surplus through investments in strategic segments of priority commodity value chains and strengthening collaboration between DA and the Local Government Units. It shall strengthen and develop viable agri-fishery based enterprises through efficient value chain of key regional agri-fishery product.



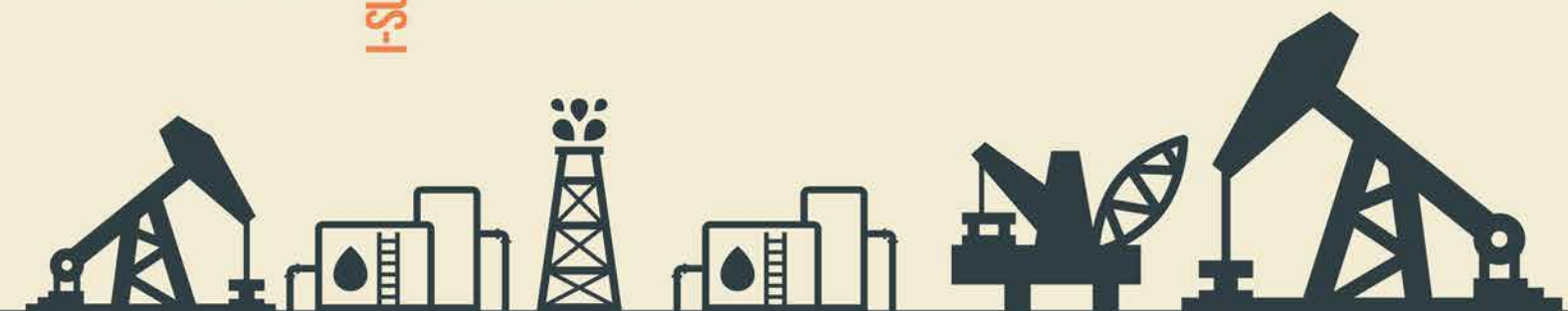
I-PLAN Local Planning

It aims to enhance the Agricultural and Fisheries Modernization Plan through science-based tools and to harmonize regional and provincial Agriculture and Fisheries Modernization Plan through the formulation of the Provincial Commodity Investment Plan using value chain approach.



I-SUPPORT Project Support

It aims to provide efficient and effective project management and implementation, establish a standard on services and technical assistance and effective mode of engagement with LGUs.





PRDP RCPO 02

at a Glance



PRDP ANNUAL REPORT

Local Planning

21 Value Chain Analysis Reports

- Dairy
- Mango
- A/P Rice
- Peanut
- Coffee
- Garlic
- Mungbean
- Tilapia
- Pineapple
- Whitecorn
- Onion
- Sweet Potato
- Banana
- Mandarin
- Onion
- Tomato

13 CLUSTER-WIDE (North Luzon)

08 CLUSTER-WIDE (North Luzon)

16 COMMODITIES TRANSLATED INTO PCIPs

06 Provincial & City Commodity Investment Plans



CAGAYAN ISABELA
NUEVA VIZCAYA
QUIRINO
DATANES
SANTIAGO CITY

PHP1.24B

NON PRDP INVESTMENTS BY VALUE CHAIN ENABLERS AS A RESULT OF PCIP LEVERAGING

Rural Infrastructure

148,592 TOTAL INDIVIDUAL REACHED FROM COMPLETED SUB-PROJECTS
38,785 HOUSEHOLD BENEFICIARIES REACHED
20,774 HOUSEHOLD BENEFICIARIES WITH ON-GOING SUB-PROJECTS



54 COMPLETED I-BUILD SUB-PROJECTS



Rural Enterprise

72 PROPONENTS GROUP



1 ON-GOING ENTERPRISE SUB-PROJECTS
2 UNDER PROCUREMENT

22,878 MEMBERS ASSISTED

- 14,358
- 9,520

669 MEMBERS WITH ON-GOING SUB-PROJECTS

57 I-REAP COMPLETED PROJECTS

37 RESTORATION RENOVILITATION
16 UPGRADING EXPANSION
07 START-UPS



Project Support



44 OPERATIONS AND MAINTENANCE (O&M) OF COMPLETED SUB-PROJECTS AUDITED
29 SUB-PROJECTS GENERATED "GOOD" RATING



12 RAPID APPRAISAL OF EMERGING BENEFITS (RAEB) CONDUCTED

02 RAEB CONDUCTED IN 2022

- CONTINUOUS CONSULTATION WITH IDENTIFIED PROJECT AFFECTED PERSONS (PAPs) AND BENEFICIARIES
- ADHERED TO THE PHILIPPINE PROCUREMENT PROCESS
- ENSURED THAT THE SUB-PROJECTS WERE FINANCIALLY VIABLE AND WITHIN THE BUDGET
- CONDUCTED SEVERAL JOINT INSPECTIONS (JIT) AND PROVIDED ABT CERTIFICATIONS
- DOCUMENTED THE SUCCESS STORIES AS WELL AS LESSONS LEARNED TO AVOID PREVIOUS MISTAKES AND PROVIDE A BASIS FOR IMPROVEMENTS



Total Disbursement for I-REAP & I-BUILD sub-projects for 2022

PHP 388 MILLION
TOTAL DISBURSEMENT FOR I-REAP & I-BUILD SUB-PROJECTS FOR CY 2022



The Department of Agriculture - Philippine Rural Development Project (DA-PRDP) Regional Project Coordination Office 02 (RPCO 02) - Cagayan Valley highlighted its gains for 2022 and gears up for the implementation of the PRDP Scale-up in 2024.



Eight (8) approved value chain analyses; six (6) were translated into Provincial/City Commodity Investment Plans of five (5) provinces and one (1) chartered city



1.24 Billion Philippine Pesos in terms of non-PRDP investment by value chain enablers as a result of PCIP leveraging. The I-PLAN Component was responsible for the attainment of the above-specified results



Nine (9) commodities were adopted from a total of 13 available cluster-wide VCAs of North Luzon-A. Currently, the region has 16 commodities translated into the P/CCIPs with Provincial Development Council (PDC) and Sangguniang Panlalawigan (SPs) endorsement



114 approved subprojects under I-REAP (60 SPs) and I-BUILD (54 SPs) (98 - Completed and on various stages of implementation, 12 - On-going, 4 - Under procurement process)

These investments include the construction of farm-to-market road (FMR)/FMR with bridges, civil works (i.e. postharvest/processing facility, solar dryer, warehouse with and without solar dryers, etc), communal irrigation system (CIS), warehouse with solar dryer/s and investments for start-ups, upgrading or expansions, and restoration and/or rehabilitation of civil works and other subprojects amounting to a total of 388.01 Million Philippine Pesos with fund sources under the original loan (I-BUILD - 31 SPs; I-REAP - 57 SPs), first additional financing (I-BUILD - 10 SPs), and second additional financing (I-BUILD - 13 SPs; I-REAP - 3 SPs) under Official Development Assistance (ODA) - World Bank and Government of the Philippines (GOP) both from DA and the LGUs.

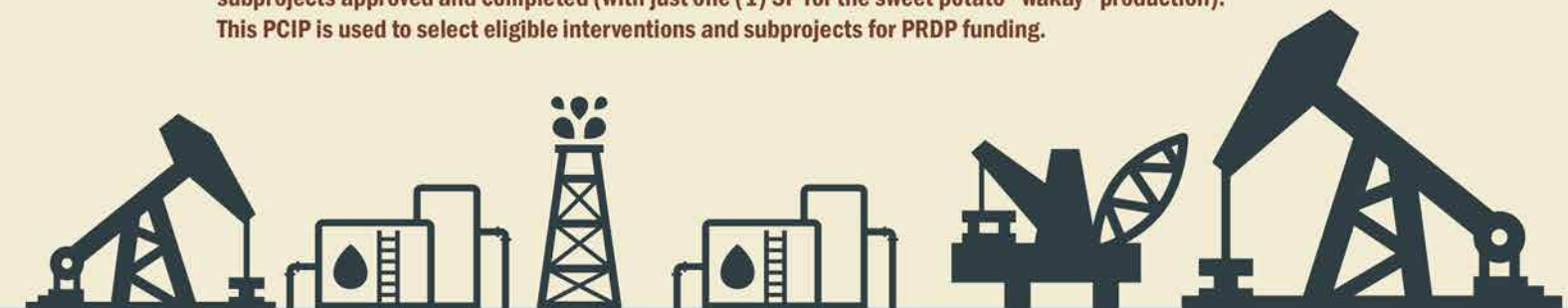
Subproject Type	Under OL	Under AF1	Under AF2	Total
Farm to Market Road (FMR)	10	5	8	23
Farm to Market Road (FMR) with Bridge	3	-	1	4
Civil Works	7	1	-	8
Communal Irrigation System (CIS)	1	4	4	9
I-BUILD SPs	31	10	13	54
Start-up	6		1	7
Upgrading/Expansion	14		2	16
Restoration/Rehabilitation	37			37
I-REAP SPs	57	-	3	60
Overall Total	88	10	16	114

OL – original loan AF – additional financing 1 AF2 – additional financing 2

As of December 31, 2022

Accomplishment by Province

1. Isabela achieved the highest ranking in terms of SP funding for both I-REAP and I-BUILD components from the first loans to the second additional financing. The province received 50 subprojects (SPs) in all, and 8 more are ongoing.
2. Cagayan has a total of 22 approved SPs (21 completed and 1 ongoing).
3. Quirino has 17 approved SPs (15 completed; 1 ongoing; 1 ongoing procurement process).
4. Nueva Vizcaya has eight (8) approved SPs (6 completed; 2 ongoing).
5. Santiago City has seven (7) approved SPs (5 completed; 1 ongoing; 1 ongoing procurement process).
6. Batanes with an outdated provincial commodity investment plan ranked the lowest in terms of the number of subprojects approved and completed (with just one (1) SP for the sweet potato “wakay” production). This PCIP is used to select eligible interventions and subprojects for PRDP funding.



The DA - Regional Field Office 02 and Project Support Office (PSO) - North Luzon Cluster commended the PRDP - RPCO 02 for its achievements. Further, the region is encouraged to maintain or even improve its performance as the Project prepares for the implementation of the proposed 600 million dollar-worth (national budget) PRDP Scale-Up that will be implemented from 2024 to 2028.



FINANCIAL PERFORMANCE FOR THE CALENDAR YEAR 2022



RCPO 2

388.01 Million Pesos

Total Disbursement

356.85M or 94%
I-BUILD COMPONENT

378.27M
Total Target

356.85M or 94%
I-REAP COMPONENT

25.79M
Total Target



For the I-BUILD Component, most of the approved subprojects under Additional Financing 2 (AF2) have a decrease in contract amount compared to the First No Objection Letter (NOL1) amount resulting in a negative variance of 21.42M. However, in terms of financial accomplishment, RPCO2 remains on top among the regions in the North Luzon Cluster. The review of billing documents at the LGU level before submission to RPCO, timely submission of financial reports, and good relationships among stakeholders, particularly contractors, LGUs, and PSOs, are key factors in expediting the disbursement.

Under AF2 of IREAP Component, funds are now being downloaded directly to the Proponent Groups. The financial management and bookkeeping capacity of the Proponent Groups (PGs), liquidation of fund transfers, and timely submission of required financial reports by the DA and other oversight agencies are among the challenges under financial implementation.

Moreover, an operational fund is allocated to the region to allow the various components/units to deliver their specified roles and functions in project implementation amounting to **Php36,679,850.00** (cumulative) in which **Php31,649,227.90** were obligated and **Php29,134,569.45** are for disbursement.

Total Project Beneficiaries Reached

The Management Information System (MIS), a monitoring tool for recording the overall number of project beneficiaries reached, is routinely updated and maintained in the region. By the end of 2022, RPCO 02 recorded a total of 70 proponent groups served with 22,807 individual members (13,908 males and 8,899 females) who benefited from the investments in rural enterprises. Further, a total of 38,785 household beneficiaries with 148,592 total individuals are directly and indirectly benefited from the rural infrastructure investments across the region. Another advantage of this project is recorded in terms of the employment of both skilled and unskilled workers for the construction of all the facilities and civil works of the project.

PRDP's Best Practices

I-PLAN Component



Building strong relationships through constant coordination with the PLGUs in the conduct of PRDP-related activities



Consultation and participation of industry key stakeholders from the private and public sectors to harmonize and validate PCIP constraints and interventions



Strengthening/ capacitating the partner LGUs through constant re-orientations, training, and capacity development activities that highlight the value of having updated PCIPs




Collaboration with other national government agencies to harmonize interventions at the provincial and regional level and using PCIP as a guide for funding investments outside the PRDP (non-PRDP-funded projects)



Initiating the updating of the PCIPs for other provinces







I-BUILD Component

-  Immediate actions from management through series of management meetings, especially when the implementation of a subproject encounters problems like negative slippages, slow construction pace and others
-  Continuous communication with LGU on subproject concerns
-  Building good rapport with the LGU counterparts and Contractors' representatives
-  Updating the LGUs on new policies being implemented by the NPCO or World Bank



I-REAP Component

-  Provision of technical assistance to the proponent groups using various digital platforms and E-commerce
-  Regular monitoring of the enterprise operation and management of all SLP and regular SP
-  Close coordination with proponent groups and P/C/MLGUs for smooth and steady implementation of the project
-  Provision of online and offline mentoring and coaching, trainings, and other relevant capacity building and technical assistance in partnership/coordination with other DA agencies





I-SUPPORT Component

Monitoring and Evaluation



Participation of DA RFO 02 regular and contractual staff in the M&E activities (O&M audit and RAEB) through an approved memorandum routed within the regional office



Participation of the PPMIU, MLGU, BLGU, and PG during the conduct of M&E activities



Issuance of Special Orders (SO) to define roles and responsibilities of assigned team/staff



Finance



Integration of Implementation Management Agreement (IMA) result in closer monitoring of the LGU in projects. It also paved way for easier conduct of monitoring and evaluation of DA project

Procurement



Provision of technical assistance and conduct of actual group workshop on the documents on the completion of the subproject. These improve the disbursement, liquidation, and utilization of the fund by the PG



Close coordination, monitoring, and good relationship between the RPCO and the PGs



Use of legal bases and World Bank Procurement Regulation as guide in all procurement-related action and activities

Social and Environmental Safeguards

Monitoring and Evaluation



Provision of technical assistance to LGUs in the preparation of the FS and BP and in the completion of required documents



Conduct of writeshops and mentoring sessions for proponent MLGU staff and PGs



Geomapping and Governance



Conduct of actual field coaching to LGUs and contractor on the use of AGT tools in compliance with the AGT requirements



Provision of technical assistance in the proposed subproject requirements to fastrack issuance of NOL



Provision of subprojects maps which are readily available online



Advance review of geotagged photos to fastrack issuance of AGT Certificates as one of the attached documents for progress billing



Active monitoring of GGU requirements like posting of transparency board on site and geotagging of all activities



Conduct of actual field coaching to LGUs and contractor on the use of AGT tools in compliance to the AGT requirements



Collaboration with other PRDP staff in collecting and taking geotagged photos to ensure timely updating of MIS



RPCO 2 RECEIVED 13 AWARDS DURING THE NORTH LUZON CLUSTER GENERAL ASSEMBLY

Awards/ Recognition/ Distinction	Recipient
1. Region that initiated the conduct of a new Value Chain Analysis (VCA) for Mushroom in the Cluster	I-PLAN Component Cagayan Valley Region
2. Region with the most number of ongoing I-REAP subprojects under AF-2	I-REAP Component Cagayan Valley Region
3. LGU with the highest performance rate of sustainable enterprise subprojects in Cagayan Valley	I-REAP Component LGU Cauayan City, Isabela
4. First region to physically complete I-BUILD Subprojects under OL and AF-1	I-BUILD Component Cagayan Valley Region
5. Region with the highest number of Approved Infrastructure Subprojects under AF-2	I-BUILD Component Cagayan Valley Region
6. LGU with the highest AF-2 subproject disbursement rate (Contract Cost/ Disbursement)	MPMIU-Finance Unit Ramon, Isabela
7. LGU with the most number of approved AF-2 subprojects	MPMIU Ramon, Isabela
8. LGU with the highest AF-2 subproject physical accomplishment rate (at 39%)	MPMIU Ramon, Isabela
9. LGU with the highest positive slippage of an AF-2 subproject (19% slippage)	CPMIU Santiago City
10. Best CLGU in the adoption and practice of Applied Geotagging Tools (AGT) in the Cagayan Valley Region	CPMIU-GGU Unit Santiago City
11. Region with the most number of conducted M&E activities in the cluster (PG Profiling, RAEB, CMT)	M&E Unit Cagayan Valley Region
12. Region with the most number of completed procurement processes for I-BUILD and I-REAP subprojects	Procurement Unit Cagayan Valley Region
13. Special Award for being one of the two accredited Climate Resilient Agriculture Office (CRAO) Resource Speakers on Climate Resiliency and Vulnerability (CRVA) in the North Luzon Cluster	I-PLAN Component Mr. Jonazon Jeff T. Factora Planning Specialist, RPCO2 I-PLAN



DEPARTMENT OF AGRICULTURE
PC-02 TUGUEGARAO CITY, CAGAYAN

TRANSFORMING PHILIPPINE AGRICULTURE
OneDA Reform Agenda: Family with Love
PEY PILLAY & SE LATECHIA

Other Highlights



DA RFO 02 Marked its 5th Year of Institutionalizing Quality Management System Certified to ISO 9001:2015

In 2022, the DA RFO 02 marked its 5th year of institutionalizing the Quality Management System (QMS) and is gearing towards its recertification in September, 2023 prior to the expiration of ISO Certificate in December, 2023.

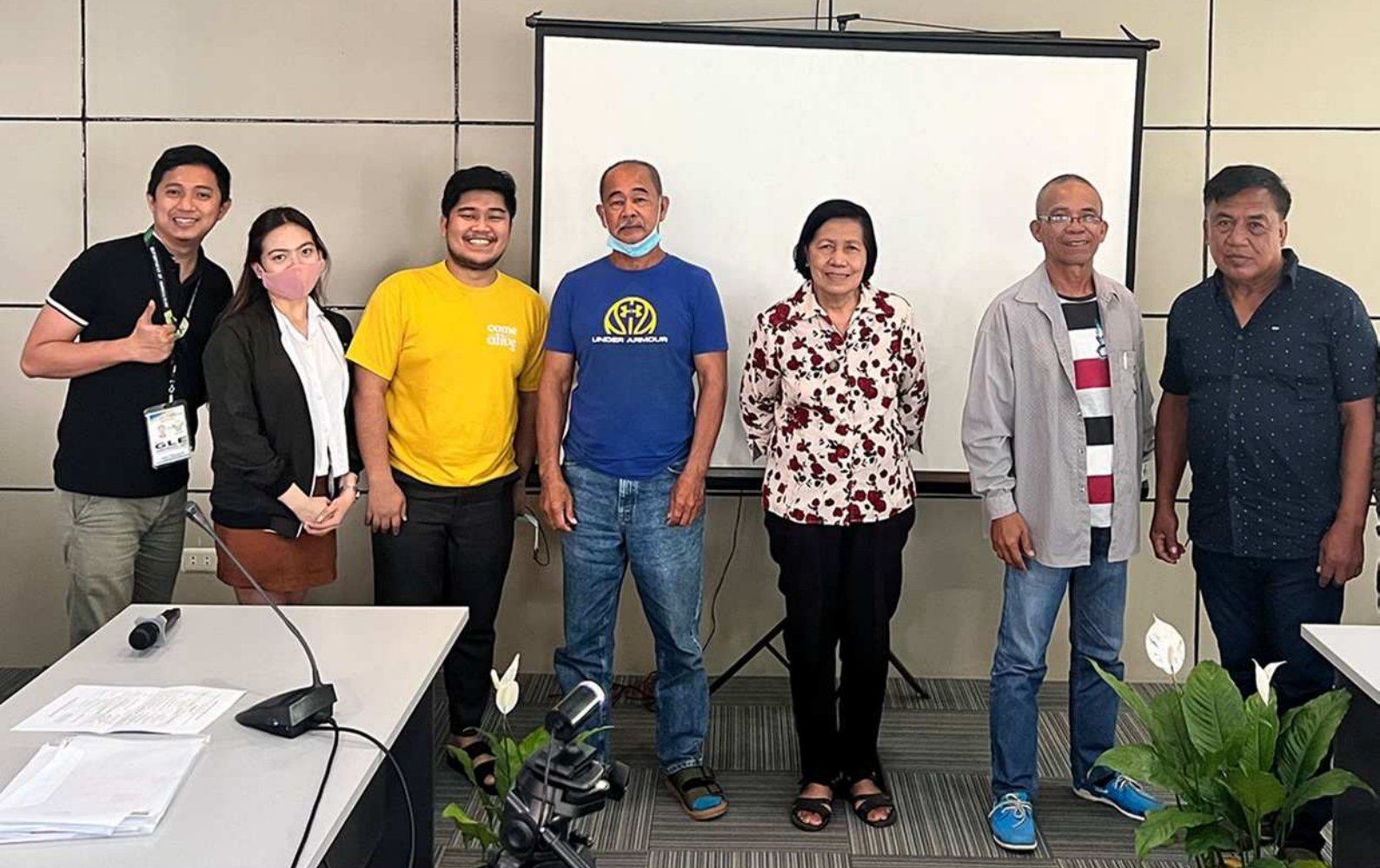


The Department of Agriculture Regional Field Office No. 02 (DA RFO 02) successfully conducted its 2nd Surveillance Audit for ISO 9001:2015 Quality Management System (QMS) on November 15-16, 2022 thru an off-site (virtual) methodology using the GoToMeeting platform, **attaining zero (0) nonconformity**, the first since its establishment in 2017. The audit areas covered the two (2) Research Centers (SCRC and CVRC) and six (6) divisions/sections (PMED, FAD, Research, Regulatory, Integrated Laboratory Division and RAFIS), the Top Management and Internal Quality Auditors at the Regional Office.

This milestone was the result of the unwavering support and commitment of the Top Management to QMS, perseverance of the different Implementing Units across the region in complying with the requirements of the standard, and continuous capacitation of Internal Quality Auditors, QMS Coordinators, Document Control Officers, and Records Custodians.

The implementation of the QMS is spearheaded by the QMS Coordination Office, seated at the Planning, Monitoring and Evaluation Division (PMED), with Director Rose Mary G. Aquino as the Chairperson, Ms. Kay S. Olivas as the Vice-Chairperson, Ms. Bernadette T. Galoso as the Action Officer.

Further, the QMS Coordination Office spearheaded the conduct of other QMS regular activities such as IQA consultation meetings, updating of QMS manuals and templates, consultation meeting with the DCOs/RCs, internal audit, management reviews, and capacity buildings/trainings.



ADING Exceeded its 2022 Targets

Through the initiative of the Department of Agriculture Regional Field Office No. 02 Agriculture Dialogue and Information Network Group (ADING) Program, series of activities were conducted; exceeding its 2022 targets.

In 2022, the ADING Program staff facilitated the conduct of seminars on Price Monitoring last March 14, Procurement Process Law last April 29, and Fisheries Code of the Philippines, Price Act, and Basic Consumer Rights and Responsibilities last June 28.

Out of the 12 targeted, there were 15 Field Validation Activities completed; covering more than 25 projects, programs, and activities. Further, out of the 24 targeted, there were 50 Bids and Awards Committee (BAC) meetings attended.

Throughout the year, the ADING Program undertaken ten (10) Price Monitoring activities and seven (7) Community Dialogues.

Cagayan Lending Center: Top Performing Lending Center in Luzon Cluster in Terms of the Number of Accounts and Loans Released

On July 12-15, 2022, the Cagayan Lending Center was hailed as the **top performing** lending center in Luzon Cluster in terms of the number of accounts and loans released. The awards were received by the Agricultural Competitiveness Enhancement Fund (ACEF) Program- Regional Coordinating Unit (RCU) members during the Mid-Year Cluster Assessment of ACEF Program Implementation held at the Hotel Casiana, Tagaytay City.

Driven by its commitment, the ACEF Program-RCU commits to strengthen its program implementation to enhance the competitiveness of the agri-fishery sector in the region.





Four-Phase Process of Document Tracking System (ORED Context) Operationalized in 2022

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The Planning, Monitoring and Evaluation Division – Information and Communication Technology Unit (PMED-ICTU) operationalized the four-phase process of Document Tracking System (ORED Context) in 2022.

The first phase, Project Initiation and Stakeholders Gathering, was conducted on February 23, 2022.

The second phase, Review and Finalization of the System Requirement and Specification, was facilitated on March 9, 2022.

The third phase, Review and Finalization of the Design Specification Document, was undertaken last April 13, 2022.

The last phase, Pilot Testing to the Field Operations Division, was conducted last September 7, 2022.



DA Regional Management Committee 02 conducted its Four Regular Business Meetings

The Department of Agriculture Regional Management Committee 2 (DA RMC2) meets regularly every quarter to discuss the most pressing issues in the agriculture and fishery sector and to ensure that the programs, activities, and projects of the different member agencies are responsive, complementary, and not repetitive.

The 1st Quarter Business Meeting was conducted last February 16-17, 2022 in Piddig, Ilocos Norte. The DA RMC2 member agencies joined the RCI SRD 2 team in visiting the convergence area of Piddig, Ilocos Norte to benchmark on their good agricultural practices that could be emulated by Region 2 to maximize the interventions given by national government agencies to recipients.





The 2nd Quarter Business Meeting was held last May 26-27, 2022 at the Agri Beach Resort, Dinadiawan, Dipaculao, Aurora. During the meeting, Director Narciso A. Edillo relayed the Marching Orders of Secretary William D. Dar.

The 3rd Quarter Business Meeting was held last August 26, 2022 at the NIA MARIIS, Ramon, Isabela. The Department of Agriculture Memorandum Order No. 58 S. 2022 regarding the Strengthening of Regional Coordination, Guidelines for the Formulation of a Multi-Year Plan (2023-2028) for the Agriculture and Fisheries Sector, Devolution Transition Plan (DTP) Schedule of Interagency Workshops for all P/MLGUs, and Presentation of Budget per Agency/Bureau (2022 & 2023 NEP) were presented and discussed by the member-agencies.

The 4th Quarter Business Meeting was held last December 9, 2022 at the National Irrigation Administration Pantabangan Lake Resort Hotel in Fatima, Pantabangan, Nueva Ecija. The following agenda were tackled during the meeting:

- Casecan Multi-Purpose Irrigation and Power Project (CMIPP)
- Updates on the DA RFO 02 Rice Program
- Updates on African Swine Fever (ASF) and Avian Influenza (AI)
- PCA-HVCDP Diversification Project under the Coco Levy Fund
- Updates on Province-led Agriculture and Fisheries Extension Systems (PAFES)

137 FCAs Accredited to the Civil Society Organization

Province	INSPIRE Program	Various DA Projects
Cagayan	20	32
Isabela	31	34
Nueva Vizcaya	2	5
Quirino	4	8
Batanes	1	-
Total	58	79

Geared towards the objectives of promoting people empowerment by strengthening people's organization, cooperatives, and non-governmental organizations and establishing mechanisms and processes for their participation in government-decision making on the implementation of agriculture and fisheries programs and projects, the Department of Agriculture Regional Field Office No. 02 assisted a total of 137 FCAs in their accreditation to the Civil Society Organization.



Regional Convergence Initiative for Sustainable Rural Development 02 conducted its Four Regular Business Meetings



1st and 2nd Quarter Business Meeting on February 17, 2022 in Piddig, Ilocos Norte. The DA RMC2 and RCI-SRD2 of Cagayan Valley conducted joint meetings to ensure the synchronization of activities of national and local agencies to that of DA and its attached agencies.



3rd Quarter Business Meeting at Cuisina Trinidad, Junction Luna, Libertad, Abulug, Cagayan on September 16, 2022. Aside from the member-agencies, municipalities of Abulug, Pamplona, Claveria, and Sta. Praxedes, Cagayan presented their municipal component.



4th Quarter Business Meeting on December 1, 2022 at the Cagayan State University - Sanchez Mira Campus. Updates on National Convergence Initiative for Sustainable Rural Development 2 (NCI-SRD2), 2023 Firm-ed-up Major Plans/Activities for the Agro-Forestry Abundance and Productivity using Integrated Technologies through Barangay-Based Agricultural Ventures and Advancement (AgaPIT-BAVA)-Areas by location by each member-agency and the proposed bamboo project were presented/discussed during the meeting.

“

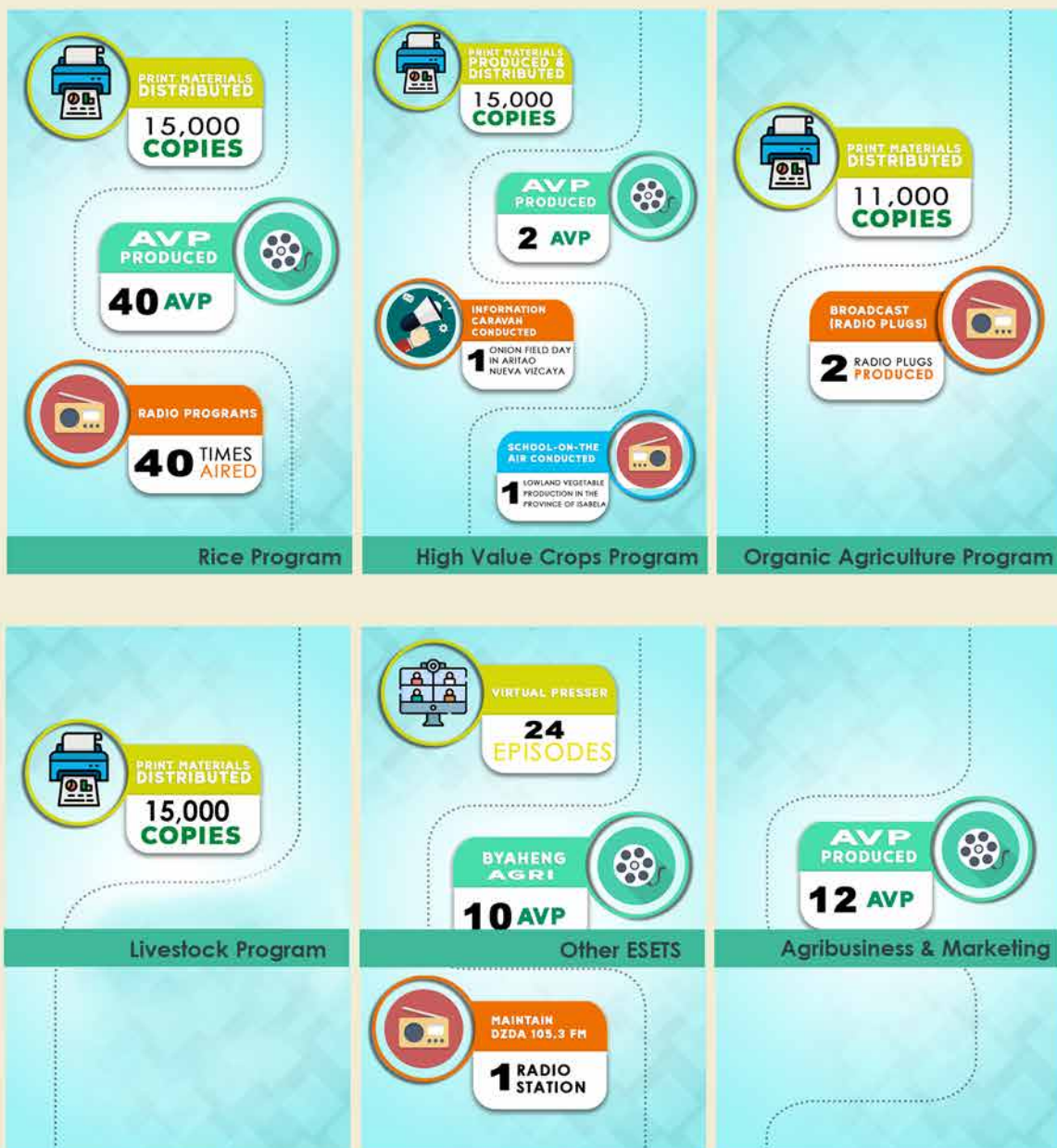
Kung maaari ay magkaroon tayo ng mga special economic zones sa mga siyudad o bayan para hindi na lalabas ang ating mga produkto, mas kikita ang mga magsasaka at magkaroon ng trabaho at mas malawak na oportunidad ang mga mamamayan. - RED Edillo

”



Information Dissemination Activities Intensified in 2022

As the information arm of the Department of Agriculture Regional Field Office No. 02, the Regional Agriculture and Fisheries Information Section (RAFIS) intensified its broadcast services through the upgrading the DZDA's coverage and livestreaming activities to regional scope and continuous linkage with public and private media entities for wider reach of information dissemination activities.



SUCCESS STORIES/TESTIMONIES



ROAD TO RURAL DEVELOPMENT

By: Mark Anthony Gallibu



Gone are those days when farmers and residents of Solana and Amulung, Cagayan had to take the dusty and bumpy long ride just to reach downtown.

Geared towards the goal of stimulating the economy and empowering rural communities, the World Bank through the Department of Agriculture - Philippine Rural Development Project (DA-PRDP) and the Provincial Local Government Unit of Cagayan (PLGU Cagayan) allotted an amount of **Php198,000,000.00** for the construction and completion of the **20.25-kilometer Iraga-Bayabat Farm-to-Market Road (FMR)**.

Velaria S. Maguddayao, the Village Chief of Pacac-Paqueño, recalled her plight of travelling to Tuguegarao City for about **2.5 hours**.

Maguddayao, a farmer, also shared her difficulty of saving money for fare back then, due to the low buying price of her agricultural produce dictated by middlemen.

The construction and rehabilitation of the Iraga-Bayabat FMR and bridges started on March 28, 2017. Two years later, on March 4, 2021, the Regional Operation and Maintenance Audit Team (ROMAT) of the DA Regional Field Office No. 02 conducted its second Operation and Maintenance Audit wherein the projects were rated **"Fair"**.

Today, the Iraga-Bayabat FMR provides access to 10,000 hectare-agricultural land and 1,000-hectare residential area within its Road-Influence Area (RIA). The RIA covers 27 barangays, namely, Iraga in Solana, Cagayan and Abolo, Agguirit, Alituntung, Annabuculan, Annafatan, Bacuit, Balauini, Bauan, Bayabat, Calintaan, Caratacat, Casingsingan Norte, Casingsingan Sur, Cordova, Dafunganay, Goran, Logung, Masical, Nangalasawan, Nanuccauan, Pacac-Grande, Pacac-Pequeño, Palacu, Palayag, Tana, and Unag in Amulung, Cagayan.

The barangay officials, residents, and farmer-beneficiaries expressed their joy and gratitude for their long-held sentiments were finally addressed. Through the FMR, several farmers and locals managed to establish their small businesses. Evidently, the Iraga-Bayabat FMR is now becoming their **road to rural development**.

TILL THE LAND REAPS ITS SUCCESS

By: Mark Anthony Gallibu



Situated in the western part of Isabela province in Northeastern Philippines, Ramon, Isabela, the “**Tilapia Capital of the Philippines**”, an agriculture-dependent town, is one among the typhoon-prone municipalities.

In 2015, Typhoon Lando devastated their vast rice area. A total of 2,990 hectares were partially damaged as per record of the Municipal Agriculture Office. The officers of Ramcor Farmers Multi-Purpose Cooperative (RFMPC), a proponent group in barangay Planas, also conducted assessments which indicated that approximately 35% of rice crops was destroyed, and farmers incurred an average loss of Php10,696,875.00 in their farming business.

Aside from the climate risks and hazards, the lack of agricultural machineries, facilities, or equipment has been a perennial issue on their agricultural production. In response, to address climate change havoc and cost reduction on farming operations, the Department of Agriculture Philippine Rural Development Project (DA-PRDP) **awarded a four-wheel drive tractor with attachments such as one (1) unit rotavator, one (1) unit cage roller, and one (1) unit trailer under the PRDP’s Small Livelihood Program (SLP).**

Jacinta Apoy, RFMPC Manager, affirmed on how the given intervention uplifted their farming systems. Back then, each member spends a total of Php 5,000.00 per hectare for hand tractors.

At present, the cooperative manages farm mechanization for its members and greatly contributes to the growing rice industry of Ramon.

PAVED ROADS: A BRIGHT FUTURE AHEAD

By: Mark Anthony Gallibu

Gateway to the landlocked, mineral-rice Province of Quirino, the municipality of Diffun, with a landscape characterized by a mixture of relative flatlands and mountains, offers a taste of rural life. However, access to remote areas has been a deterrent to its development.

Hence, to allow a more convenient transportation and help boost the eco-tourism of the municipality, the Department of Agriculture Philippine Rural Development Project (DA PRDP) recently awarded the now completed 8.073-kilometer Ricarte Sur-Magsaysay Farm-To-Market Road (FMR) valued at Php130,148,951.31 in cost-sharing terms of the World Bank, the Government of the Philippines, and the Local Government Unit of Diffun, Quirino. Said FMR is benefitting 729 households with a total population of 3,229 with 547 farmers within its Road Influence Area (RIA).

The project-beneficiaries couldn't help but look back of their struggles back then. Carolina Silvestre, a corn farmer, shared her challenges in accessing basic services such as food and health, and in hauling their agricultural produce to the market. She recalled, she had to go through the arduous terrains.

Liza Eugenio, the Village Chief of Ricarte Sur, said that residents from the small community sometimes compromised their basic needs because of the dire situation. She even narrated how they use hammocks to transport patients to a nearby hospital.

Doña Imelda Village Chief, Edna Plan, also recalled an experience when they brought a patient to the hospital using a hammock hung on a bamboo pole, carried by two men.

Corazon Agustin, a 60-year-old resident, shared her childhood memory when she carried 10 kilograms of unripe bananas to the market while crying in the middle of the rough roads. This reminds her on how she fought for life during those days.

Ronelio Antonio, a corn farmer from Doña Imelda, also shared his struggle of walking for three hours or riding a carabao under the scorching heat just to bring his produce to the nearest market.

While Melanie Sibayan, a coffee farmer from Doña Imelda, narrated her journey during her high school days. She had to walk through the mountainous area to reach her school.

Those stories of difficulties experienced by the residents now turned into stories of victories for their long-time dream of a better road finally came true.

As attested by the residents and farmers of various crops such as rice, corn, coffee, cassava, cacao, and high value crops, they are greatly benefitted by the quality road the DA PRDP has awarded to them. The intervention transformed their way of living.

Aside from the easier marketing of their produce, the villagers became more participative in community programs or development activities as the FMR has shortened their travel time going to their destinations.

Through the paved road, the villagers envision that a brighter future lies ahead of them.

FINANCIAL PERFORMANCE

As of December 31, 2022



Programs/Activities Projects	MOOE ('000)		CAPITAL OUTLAY ('000)		TOTAL ('000)		BUR
	ALLOTMENT	OBLIGATION	ALLOTMENT	OBLIGATION	ALLOTMENT	OBLIGATION	
GENERAL ADMINISTRATION SUPPORT SERVICES	16,523	16,523	-	-	16,523	16,523	100%
SUPPORT-TO-OPERATIONS	197,079	197,079	5,047	5,047	202,126	202,126	100%
OTHER SUPPORT SERVICES	20,808	20,808	1,890	1,890	22,698	22,698	100%
FARM-TO-MARKET ROAD NETWORK PLANNING AND MONITORING SERVICES	5,600	5,600	-	-	5,600	5,600	100%
REGULATORY SUPPORT	2,326	2,326	-	-	2,326	2,326	100%
OPERATIONS	3,145,647	2,822,367	354,466	354,466	3,497,113	3,176,833	90.84%
LOCALLY FUNDED PROJECTS	32,763	32,763	1,948	1,948	34,711	34,711	100%
Total	3,137,193	3,137,193	386,133	386,133	3,781,097	3,460,727	91.527%



ALLOTMENT
3,703,272
MOOE

386,133
CAPITAL OUTLAY

OBLIGATION
3,411,309
MOOE

386,133
CAPITAL OUTLAY



Cagayan Valley Region
**ANNUAL
REPORT 2022**



DEPARTMENT OF AGRICULTURE

Regional Field Office No. 02

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