



DEPARTMENT OF AGRICULTURE

Regional Field Office No. 02
Tuguegarao City, Cagayan



ANNUAL REPORT 2012

(Special Edition)



About the Department of Agriculture (DA)

The DA is the principal agency of the Philippine Government responsible for the promotion of agricultural development growth. In pursuit of this, it provides the policy framework, helps direct public investments; and in partnership with Local government units (LGUs) provides the support services necessary to make agriculture and agri-based enterprises profitable and to help spread the benefits of development to the poor, particularly those in rural areas.

The DA's primary mission is to increase the real incomes of farmers and fisherfolk, thereby contributing to the achievement of the national goals of alleviating poverty, generating productive opportunities, fostering social justice and equity, and promoting sustainable economic growth:

- To help ensure food security and support the national effort toward self-sufficiency in rice and corn;
- To help attain a favorable balance of trade by enhancing the competitiveness of the agricultural and fishery sectors in both domestic and foreign markets;
- To support the development of farmer and fisherfolk organizations; and
- To promote the development of labor-intensive and employment-generating agro-industrial enterprises.

In the pursuit of its mission and objectives, the Department adopts the following principles:

- Private sector enterprise shall be encouraged to promote the efficient allocation and effective utilization of resources, consistent with objectives of equity and social justice;
- The maximum participation of the people in the development process shall be encouraged since development proceeds only through the favorable interaction of all sectors;
- Development shall be promoted compatible with the preservation of the ecosystem in areas where agriculture and fisheries activities are carried out, exerting care and judicious use of natural resources in order to attain long-term sustainability; and
- Sound agricultural growth shall be pursued as the foundation for industrial development.

Functions:

In fulfilling its mandate and mission, The Department performs the following functions:

The creation of a policy environment conducive to increased incomes in agriculture. The DA actively advocates for the adoption of policies supportive of long-term sustainable growth in the sector as well as for the repeal or amendment of policies, which impede such growth.

The provision of agriculture and fishery infrastructure support (i.e., irrigation facilities, farm-to-market roads, fish ports, etc.) to encourage private sector investments in agriculture and fisheries.

The generation, verification, and dissemination of information relevant to productivity and development. The Department undertakes research and development programs, which (i) strengthen the linkage between research and extension; (ii) develop and broaden the adoption of low-cost productivity-enhancing production and processing technologies; (iii) identify and promote the sustainable use of resource capabilities; and (iv) assess commodity markets and conditions and prospects.

The production, testing, and dissemination of superior plant and animal germplasm. In support of private sector initiatives, the DA develops, produces and distributes superior crop varieties and breeds of livestock and fish suited to Philippine conditions, focusing on the extension, demonstration, and provision of parent stock and fish juveniles.

The facilitation of market access and the promotion of agro-based enterprises. The Department assists agricultural producers and agribusiness men, particularly low-income farmers, in processing and marketing their produce, linking them with processors and farmers, in processing and marketing agreements, and facilitating access to the international market. Moreover, it assists agricultural entrepreneurs in availing of financing by directing them to possible sources and by expanding credit guarantee and insurance facilities.

Regulation. The Department is mandated to exercise regulatory control over particular agriculture-related areas and concerns. The exercise of this control is conducted for the following objectives:

- To prevent the over-exploitation of resources to ensure their long-term productivity;
- To protect the health and safety of the populace;
- To prevent and/or contain the spread of plant, fish, and animal pests and diseases;
- To prevent manipulations in the markets of staple agriculture commodities and inputs;
- To protect domestic agricultural producers from unfair competition of imports made cheap through subsidies by exporting countries;
- To implement international commodity agreements which the Philippines has acceded to; and
- To ensure the quality of Philippine agricultural exports and increase their share in the world market.

About the Department of Agriculture (DA)

MANDATE

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

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

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

MISSION

To help and empower the farming and fishing communities and the private sector to produce enough, accessible and affordable food for every Filipino and a decent income for all.

VISION

A modernized smallholder agriculture and fisheries; a diversified rural economy that is dynamic, technologically advanced and internationally competitive. Its transformation is guided by the sound practices of resource sustainability, the principles of social justice, and a strong private sector participation.

About the Department of Agriculture (DA)

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“Marun” into “Green”: Have we Transformed?



LUCRECIO R. ALVIAR, JR., CESO III

Regional Executive Director

As stated in our 2011 Annual Report, we are looking ahead to transforming the Department of Agriculture – RFO 02 from “marun or marun-runut” into “green”. Having a mind-set of achieving inclusive growth among actors along the agribusiness value chains and being the major enabler of these chains in the Region, we believe that “charity must always begin at home”.

This transformation cliché for the DA-RFO2 wanted to make three (3) significant changes ‘inside’ agriculture. Firstly, we are building on our present (internal) human resources to keep up with the increasing budget and projects. The permanent employees of DA-RFO2 in 2011 was 289 warm bodies which then complemented by 407 casual employees and contracted/job-out services totalling to 696, a 58% increase of manpower in 2012. Secondly, we are renovating our dilapidated office buildings and laboratories, face-lifting our work stations, and modernizing our tools and operating systems. The facilities improved and rehabilitated located in our ten (10) research outreach stations and laboratories, and two (2) regional office compounds which is totalling to PhP 280.78 million, were sourced-out from other funding agencies. It was first time in contemporary history of DA-Region 02 that a Quarantine Office building is erected. Thirdly, implementation of programs and projects changes from the old approaches into climate-resilient and smart strategies.

Because of these enhancements, we are pleased to report that we sustain as a rice self-sufficient region and ranked first as national contributor to Philippine

palay production having about 1.6 million metric ton surplus, sustaining as 2nd palay producer in the country. For corn, region 02 is the highest producer in the country contributing about 25% to national production. This year, we are 127% sufficient in vegetables and contributing 8,000 metric tons to mega Manila requirement. Meanwhile, for livestock industry, we maintained as free-zone from foot-and-mouth disease (FMD) and avian influenza (AI) without vaccination. In organic agriculture, we had capacitated one Non-Government Organization (NGO) as third party certified organic fertilizer producer owing that the program just started 2011. We do not only excel in program implementation but we also top the performance in terms of financial management among regions. There was a significant drop of audit observations comparing 2011 and 2012 audit findings.

As we journey through the year, we traversed these rough and bumpy roads along the way, however, we struggled together to turn those roads smooth and “unbumpy” in order to realize our mission and commitments. My whole staff and I are always inspired by Theodore Roosevelt’s philosophy and I quote: “The Only Man Who Never Makes Mistakes is the Man Who Never Does Anything”.

Satisfied and comfortable human resources exude contentment. Inspiration and high efficiency are borne from this contentment, resulting to (“greening”) achievements.

Toward the second half of our six-year strategic plan, we shall carry on to achieve more and to do things better than today.

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A. Performance of the Agriculture and Fishery Sector in the Region

Performance of the Agri-Fishery Sector

The Cagayan Valley Region or Region 02's CY 2012 agriculture and fishery sector served as a major driver of economic growth in the Region. This growth is attributed from 13.87 percent increase of production for all crops, 2.59 percent increase in livestock and poultry production although it encountered a slow down in fishery with a decrease of 7.4 percent (see table below).

A substantial increase in grains production, i.e. palay and corn, was achieved based on the results of production performance surveys conducted by the Bureau of Agricultural Statistics (BAS).

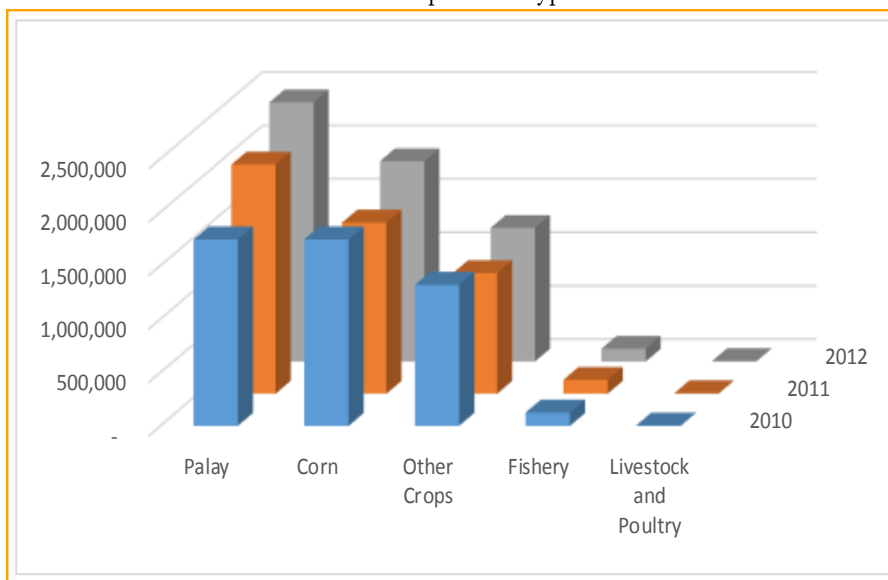
Compared with 2011 production levels, palay production grew by 13.1 percent or about 2,144,766 million metric tons (MMT) in 2011 to 2,425,433 MMT in 2012. Similarly to corn, a very high growth rate of 17.1 percent in production was achieved from about 1,601,687 metric tons (MT) to 1,875,385 MT.

The positive growth rate in grains production was attributed by the increased in area harvested and yield for both rice and corn commodities, particularly during the dry cropping season. An additional 19,650 hectares were harvested for palay production and more than 10,000 hectares for corn production. Across all ecosystems, palay yield increased from 3.81 metric tons per hectare (MT/Ha) in 2011 to 4.16 MT/Ha in 2012. Average yield of corn likewise increased from 3.79 MT/Ha to 4.34 MT/Ha in 2012.

Other factors that contributed to the incremental production include (1) adoption of proper climate-smart technol-

ogies by the farmers as taught by the Department of Agriculture; (2) timely government interventions like irrigation and use of registered and certified seeds; and (3) observance of appropriate planting calendar like the 5-in-2 approach implemented thru NIA-RO2.

On other crops, particularly the high value crops (HVC), average production in the region showed positive growth, which is 10.83 percent on banana, vegetables and root-crops. On non-food, industrial and commercial crops (NFICC) wherein the two banner commodities such as coconut and sugarcane belongs suffered a 2.43 percent decrease in 2011, it rebounded to an increase of 34.11 percent. This was due to the recovery of coconut trees from previous typhoons and increase demand of ethanol from sugarcane.



The production levels of livestock and poultry were on a down-trend since 2008 until 2010, but in 2012, there was an increase of 2.47% for livestock and

poultry. Swine increased by 1.71 percent and poultry gained 12.10 percent. This was due to more supply of broiler chicks to contract growers, availability of day-old-chicks and the establishment of dressing plant in the Region.

Region 02's 2012 contribution to national production accounts for 13.09 and 17.09 percent in palay and corn, respectively, which is still a very significant share to the staple food self-sufficiency target of the Aquino Administration.

Performance of the Agri-Fishery Sector

In terms of sufficiency level, rice and corn commodities are sufficient in Region 02. For rice, Region 02 posted a 288.86 percent sufficiency level for CY 2012. White corn production also recorded a 176.20 percent sufficiency level

more than to meet the requirement of human as food. These figures used NSO 2010 population data projected at 2.04 growth rate and rice per capita consumption was at 119 kg while corn was at 9.67 kg per capita consumption.

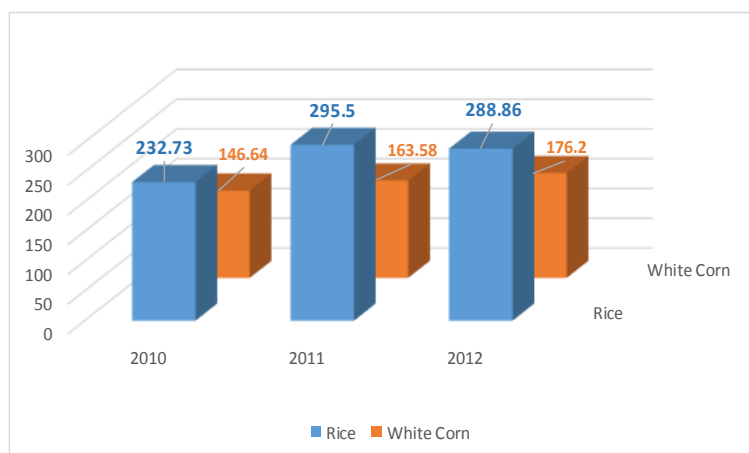
2012 Rice Sufficiency Level by Province

PROVINCE	Production (mt)	Population (2010 @ 2.04% projection)	Consumption (MT, @ 119kg per capita)	Surplus (MT)	Sufficiency Level (%)
CAGAYAN	875,721	1,166,357	138,796.43	273,563.08	297.10
ISABELA	1,216,535	1,527,513	181,774.08	391,067.92	315.14
NUEVA VIZCAYA	241,956	431,909	51,397.16	62,535.09	221.67
QURINO	91,221	179,690	21,383.16	21,570.98	200.88
TOTAL	2,425,433	3,322,498	395,377.26	746,710.63	288.86

2012 White Corn Sufficiency Level by Province

PROVINCE	Production (mt)	Population (2010 @ 2.04% projec-	Consumption (MT, @ 9.67kg	Surplus (MT)	Sufficiency Level (%)
CAGAYAN	35,675	1,166,357	11,278.67	19,045.08	268.86
ISABELA	26,401	1,527,513	14,771.05	7,669.80	151.92
NUEVA VIZCAYA	3,982	431,909	4,176.56	(791.86)	81.04
QURINO	543	179,690	1,737.61	(1,276.06)	26.56
TOTAL	66,601	3,322,498	32,128.56	24,482.29	176.20

Regional Rice and White Corn Corn Sufficiency Levels (2010—2012)





B. Milestones: The “Greening” in Progress

B.1. Our Programs and Projects

B.2. Our Regional & Provincial Facilities

B.3. Our Staff & Personnel

B.1. Programs and Projects

Programs:

1. Rice Program
2. Corn Program
3. High Value Crops Program
4. Livestock Program
5. Organic Agriculture Program

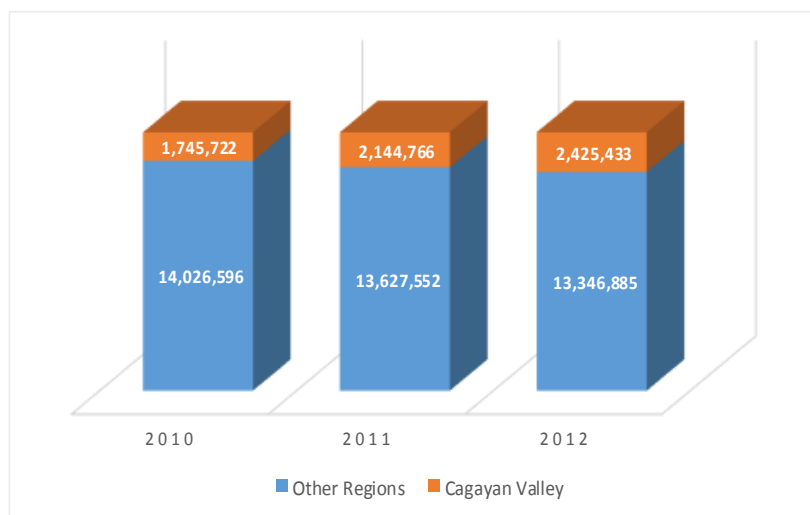
Other Major Final Outputs:

1. Research and Development
2. Agricultural Competitiveness Enhancement Fund (ACEF)
3. Policy and Planning
4. LFP—Casecnan Social Measures Project

RICE PROGRAM

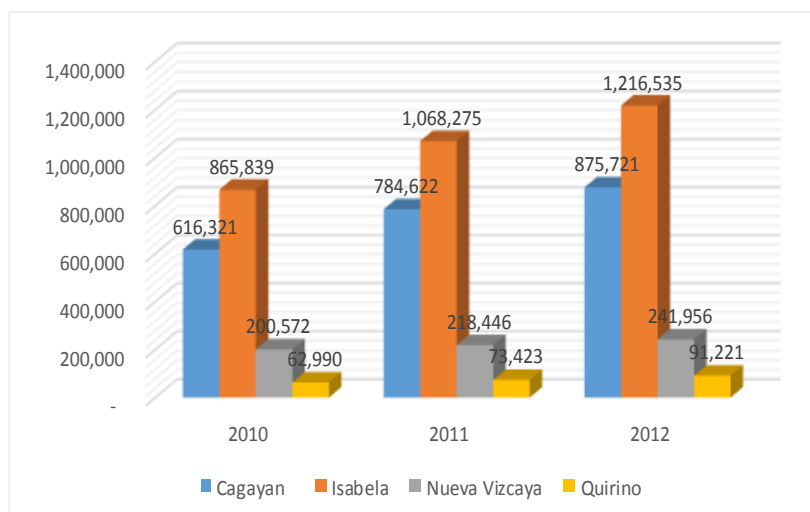
In 2011, palay production grew by 22.9% from 1,745,722 MT to 2,144,766 MT, however for 2012, it only grew by 13.08%, the production was at 2,425,433 MT (see figure 1). This increase in production was attributed to an additional area harvested of 17,898 hectares and increase in yield, across ecosystems, from 3.81 mt/ha last year to 4.16 mt/ha and other significant and efficient interventions implemented by the Department of Agriculture—Region 02.

Figure 1. Contribution of Cagayan Valley to the National Palay Production (MT), 2010-2012 (BAS)



Cagayan Valley Region contributed 13.45% to the national production of the rice food staple. Isabela produced 6.75%, followed by Cagayan at 4.86%, Nueva Vizcaya 1.34% and Quirino contributing 0.5% to the national production (see figure 2).

Figure 2. Palay Production (MT) in Cagayan Valley Region by Provinces, 2010– 2012 (BAS)



PRODUCTION SUPPORT SERVICES & FARM MACHINERIES

Seed Production and Distribution. In order to ensure availability of quality and recommended rice seed varieties which are resistant and suited to adverse environment like drought, saline, submergence in irrigated, rainfed lowland and upland areas, the ROS and accredited seed growers produced a volume of about 353,397 kilograms palay seeds.

Establishment and Rehabilitation of Community Seed Banks. With the advent of climate change and far distance of rice farmers to existing seed sources the office established four (4) units in the upland areas and rehabilitated eight (8) units in the lowland areas. For the newly established seed banks, four (4) units simple seed processing equipment and starter seeds of about 3,240 bags were also provided.

Disaster Response. Mainstreaming of climate change mitigation and rehabilitation within the program is a prerequisite in order to immediately prevent and respond to any calamity. Among the strategies is the stocking of buffer seeds of about 25,538 bags which will be distributed to affected farmers and ten (10) units small equipment were also provided. In response to pest outbreak control measures the Office procured and distributed 442 liters insecticides, 301 kilograms fungicides and 13,900 sachet rodenticides to affected areas by pests. A five (5) community-based biocontrol agent laboratories were also established and social preparation/technical capability to beneficiaries were also conducted.



Surveillance and Early Warning System

This activity plays a very significant role in the attainment of Food Self Sufficiency Program specially with the onset of climate change, rice crops are usually exposed to pest and diseases where all partners in rice program should closely watch rice areas in order to make necessary measures in the prevention and control the occurrence of any disease. To arrest and control the occurrence of common pest and diseases affecting rice,

the Office conducted training on pest surveillance and early warning system was conducted which was participated by about 101 Farmer Led Extension Workers, 179 Agricultural Technologists and 23 Provincial Coordinators.

A total of about 12,920.05 hectares rice area were reported infested by rodents, tungro virus and bacterial leaf as tabulated earlier.



Soil analysis. This activity is continuously undertaken which need to be updated every after three years. This is very necessary because the result of the analysis will reveal the best crop suited, the right kind and quantity of fertilizer to apply and when to apply in the area. For this year about 2,880 rice area samples were analyzed covering an area of about 5,952 hectares benefitting 1,764 walk-in and programmed farmers. This also serves as an input to soil mapping and delineation of adverse rice ecosystems. About 30 fertility maps were already prepared. In order to reach out and can cover far flung areas and immediately provide soil analysis result to clients, the office procured one unit mobile soil clinic.



Farm mechanization

There were two mini four wheel drive tractors positioned in the DA major rice production station area one (1) in Abulug Seed Farm Station and the other one is in Solana Breeding Station for the opening of new rice areas in the Station. On the other hand, there were 41 units hand tractors distributed to Irrigators Associations and LGUs.

RICE

IRRIGATION DEVELOPMENT SERVICES

One among the key interventions is to accelerate the construction and rehabilitation of Small Water Irrigation Projects in order to boost yield and cropping intensity of potential rice areas. Of the three units targeted for the

year, one is already completed servicing an area of 35 hectares and construction is on-going for the remaining two units with a service area of about 65 hectares benefitting about 30 rice farmer per unit.



OTHER INFRASTRUCTURE & POST HARVEST DEVELOPMENT SERVICES

To help reduce post harvest losses and to lengthen shelf-life of the palay which can meet the quality demand of consumers and price demand of producers. Among the accomplishment for this year, the office distributed to farmers 59,220 pcs. net laminated sacks at 10 meters each, procured and installed 46 flat bed dryers provided to farmer organizations/associations, rehabilitated 35 units flatbed dryers, distributed 53 units palay threshers, combine har-

vesters, funded and monitored the construction of 265 units Multi-Purpose Drying Pavements, rehabilitated the expansion of eight units warehouse, funded and monitored the installation of one unit Rice Processing Center with complete components, two units village type grain processing center, 81 units palay shed, 12 units rice reaper and 7 units moisture meter.



EXTENSION SUPPORT, EDUCATION & TRAINING SERVICES

With the limited or inadequate Extension workers in every Locality and in order to reach out far flung areas and to upgrade/update Extension Workers and farmers on new technologies among our accomplishments on this component, the office supported the development of Local Farmers as Technicians and conducted 109 Technology demonstrations, 541 Farmer Leaders Extension Led Technology Demonstration, conducted 6 grand field day, re-

tooling of 585 Agricultural Extension Workers and Farmer Associations, conducted technical briefing on Adverse ecosystems, continuous logistic support to about 500 devolved LGU Extension Workers, produced and distributed about 90,934 print materials to farmers and six trainings conducted for the service providers participated in by about 350 pax.



RESEARCH AND DEVELOPMENT SERVICES

Under the Rice R&D program, a total of P50,367,590 has been allotted for the different rice research and development services namely, 1) conduct of R&D, 2) R&D Support Services and Facilities, 3) Knowledge Product Management Services and, 4) the R&D Program Management.

A total of thirty (30) projects were funded and implemented. 165 trials were accomplished with a total of P28,513.55 allocated for these projects

For the development and promotion of appropriate technologies for lowland rice under favourable condition, there were ten (10) projects with fifty-six (56) trials conducted. For the development and promotion of appropriate technologies for lowland rice under unfavourable condition, there were five (5) projects with thirty (30) trials conducted. For the development and promotion of appropriate technologies for lowland rainfed rice, there were four (4) projects with eleven (11) trials conducted. For the development and promotion of appropriate technologies for upland rice, there were seven (7) projects with fifty-seven (57) trials conducted.

One of the major strategies implemented under the Rice Program is the conduct of Socio-Economic, Impact As-

essment Researches/Projects. For 2012, there were two policy researches conducted by RIARC entitled: "Rice Technology Adoption: An Analysis in Different Rice Ecosystems in Cagayan Valley (Phase I)" and the "Assessment of the Regional Rice Industry in the Philippines for Policy Formulation," which is in collaboration with PhilRice. AgCom also conducted an Assessment/Survey on the Awareness of Listenership of "Magsasakang Pinoy" and "Agri-Pinoy Bantay-Ani" radio programs of DA. PhilRice San Mateo also conducted a project on the Assessment in the Status of Rice-Corn Eating Households in Region 2.

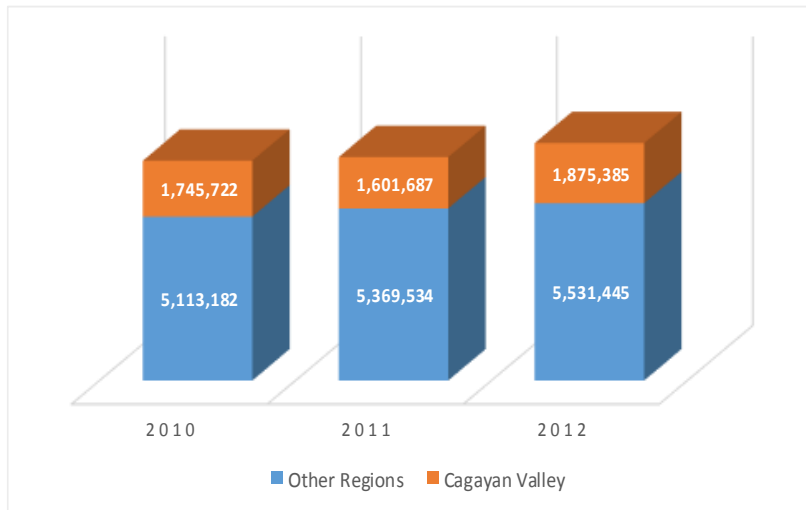
As part of the major rice research development services provided to various stakeholders, the Knowledge Product Management Services. There were a total of sixty modules aired covering five (5) provinces in the entire region. The modules contained different technologies in crop and livestock production.

In line with the battlecry of DA-RFO 2 in transforming agriculture from "marun" to green and response to the directive of the Honorable Secretary to strengthen and capacitate all R&D facilities and stations, a total of P15,110,000 was allotted for the improvement/upgrading of the four (4) R&D facilities in the region.

CORN & CASSAVA PROGRAM

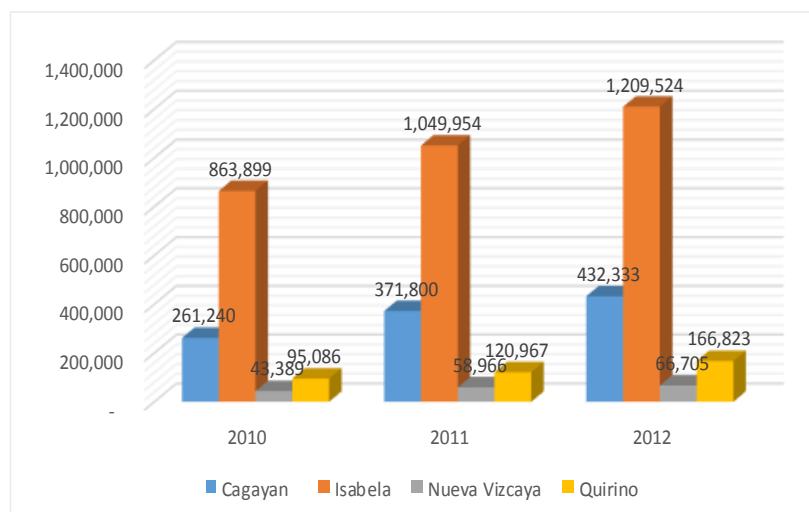
In 2011, corn production grew by 26.8% from 1,263,614 MT to 1,601,687 MT. For 2012, it grew by 17.09%. The production was at 1,875,385 MT (see figure 3). The increase in production was attributed to an additional area harvested of 17,898 hectares and increase in yield, across ecosystems, from 3.81 mt/ha last year to 4.16 mt/ha and other significant and efficient interventions done by the Department of Agriculture—region 02.

Figure 3. Contribution of Cagayan Valley to the National Corn Production (MT), 2010-2012 (BAS)



Cagayan Valley Region contributed 25.32% to the national corn production (white and yellow). Isabela produced 16.33%, followed by Cagayan at 5.84%, Quirino 2.25% and Nueva Vizcaya contributing 0.9% to the national production (see figure 4).

Figure 4. Corn Production (MT) in Cagayan Valley Region by Provinces, 2010 – 2012 (BAS)



CORN & CASSAVA

Corn Development Program is one of the priority commodity of the Department of Agriculture in region 02 since the region is suitable area for agricultural production primarily on corn.

PRODUCTION SUPPORT SERVICES

The different research outreach stations of DA RFO2 namely CVIARC, ASF, LMROS, HILROS & UPROS were tasked to produce white corn (OPV). This crop was purposely raised as additional cash crop, animal feed and also food consumption. This crop is considered high value because of its nutritional value. Hence, our stations produced and distributed 3,478 bags of registered seeds (RS) of OPV corn to farmer beneficiaries.

33,796 packets of Bio-N was also produced & distributed 32,731 packets by CVIARC & CVLMROS to corn Farmer-Led Extensionists (FLE). Method demonstrations were conducted to assist the farmer leaders on how to apply Bio-N, organic fertilizer and other yield booster.

Soil fertility mapping was also conducted through soil sampling. The maps covered 10,481.38 hectares of corn area (non-cluster) in the provinces of Cagayan and Isabela. There were 50 base maps developed, 15 fertility maps developed covering 129 barangays. For cluster corn areas, the fertility mapping covered a total of 12,320.82 hectares. Produced 50 base maps, developed 50 fertility maps covering 173 barangays.

Under the Biological Control Program, our stations, CVIARC and CVLMROS were able to produce 569,331 trichogramma cards and distributed 580,030 pieces for the control of corn borer covering an area of 5,770 hectares. A total 5,118 farmers were benefitted. Some cards were produced stocks from 2011.

A total of 1,435 earwigs (colonies) was also produced and

distributed 1,418 covering an area of 708.5 hectares with 638 farmer beneficiaries.

Some areas with continuous cropping has been validated by the Pest & Diseases Surveillance Team and confirmed that corn plant hopper and stalk rot disease infested some areas in the region. The surveillance team conducted information drive and conducted IPM. They introduced and promoted the application of metarizhium and earwigs as control method in all provinces of the region.



To help corn farmers attain optimal yield through better and more effective preparation of land and consequently enhance corn production, the program distributed 13 units of 4 Wheel Drive Tractor with 75 power take off horsepower accompanied with sub-soiler and trailing harrow farm implements.

POST HARVEST DEVELOPMENT SERVICES

The program distributed 2 units hammer mill. This equipment was designed and constructed from locally available materials for grinding grain particles such as maize, millet, guinea corn and other coarse materials into smaller or finer size particles. We have also distributed 7 units of corn grit mill which is used for processing corn kernel into food grade grits. We have also distributed 5 units of cassava granulator, 3 for Isabela, 1 for Nueva Vizcaya and 1 for Quirino.

9 units of Village type Corn Post Harvest Processing Center were also distributed to Cagayan—4, Isabela—2, Quirino—2, and Nueva Vizcaya—1. This processing center is a two stage drying system for corn.

HVCD PROGRAM

VEGETABLE INDUSTRY DEVELOPMENT PROGRAM



SPICES

PRODUCTION SUPPORT SERVICES

Seeds. Four hundred (400) kgs onion seeds and 4,667 kgs garlic bulbs were distributed to members of Aritao Onion and Garlic Growers Association, Aritao, Nueva Vizcaya and 700 kgs garlic. Bulbs also provided to farmer beneficiaries in six (6) municipalities of Batanes.

Farm Equipment and Machineries. Procured 17 units knapsack sprayers which were distributed to the same group of farmers in N. Vizcaya and Batanes.

Support to Farm Production. Support to farm production includes 5 heads draft animal and 5 units small farm implements (moldboard plow). The draft animals were issued to members of association in Aritao, N. Vizcaya.

Production Facilities Established and Maintained.

Seed Storage. There was a delay on the construction/establishment of 5 units seed storage due to problems on transport of building materials from main land to Batanes. This production facility is included in the construction of Rootcrops Training Center at DA-IAROS, Basco, Batanes. Completion target will be on the first semester of 2013.

Organic/ Biological Fertilizer Plant. Construction/establishment of 5 units organic/ biological fertilizer plant at DA-IAROS is on-going.

Soil Analysis instrument

Soil Test Kit. Distributed 30 units soil test kit to the same group of farmers in N. Vizcaya and Batanes Provinces.

MARKET DEVELOPMENT SERVICES

Market studies/research activities. We have conducted one (1) market survey on Onion in Nueva Vizcaya.

IRRIGATION DEVELOPMENT SERVICE

Small-scale irrigation project

Small Farm Reservoir. From the 4 units SFR target in Batanes, constructed 2 units particularly in the municipalities of Mahatao and Itbayat. Construction of 2 units is still on-going.

High Density Polyethylene pipe (HDPE) and Water Plastic drum. Installed 1,930 meters HDPE pipe and distributed 62 pieces water plastic drum to onion and garlic farmers of Aritao N. Vizcaya and Dibtung Farmers Association, Ivana, Batanes.

OTHER INFRASTRUCTURE AND POSTHARVEST DEVELOPMENT SERVICES

Processing Equipment and Processing Facility. Procurement of 3 units garlic grinder and construction of 2 units garlic processing facility for Batanes is on-going. Expected to be accomplished on the 1st semester of CY 2013.

EXTENSION SUPPORT SERVICES, INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced and distributed 530 copies print materials (POT for Onion and Garlic Production) to farmer beneficiaries, stakeholders, planners, walk-in clients/students region-wide.



CHOPSUEY, PINAKBET AND MALUNGGAY

PRODUCTION SUPPORT SERVICES

Seeds/Planting Materials. To sustain sufficient supply of

quality and affordable vegetable throughout the year, 200 kilograms upland vegetable seeds particularly tomato, snap beans, sweet pepper and cauliflower were procured and distributed to vegetable growers of Ambaguio and members of Besong Farmers Association, Kayapa, N. Vizcaya (50% of the total cost of vegetable seeds was paid by the individual farmer beneficiary on a Plant Now Pay Later Scheme). Part of the upland vegetable seeds distributed also covered the members of the Namuccayan Vegetable Growers Association , Sto. Nino, Cagayan and Mataga-ey Sustainable Resources Development Association (MASRADECA), Maddela ,Quirino.

For lowland vegetable, 288 kgs. OPV seeds (Pinakbet type) were provided to members of Santiago City Vegetable Growers and Marketing Cooperative (SVGMC), Santiago City, Bunggoy Mannalon ni Rosa (BuMaRo), Gamu, Isabela, and Namuccayan Vegetable Growers Association (NVGA), Sto. Nino,Cagayan. Part of the distributed seeds also covered the seed requirement of walk-in clients regionwide.

Indigenous vegetable (Malunggay) was promoted in the province of Quirino. Ten thousand (10,000) pieces planting materials were provided to members of Coffcaville Upland Farmers Association (CUFA), Maddela, Quirino and some were planted in the production site of DA-CVUPROS, Aglipay, Quirino.

Farm Equipment and Machineries. To help our vegetable farmers in maintaining a good crop and definitely more produce, 29 units knapsack sprayer were distributed to members of association/cooperative (Besong Farmers Association, City Santiago Vegetable Growers and Marketing Cooperative, Namuccayan Vegetable Growers Association, & Coffcaville Upland farmers Association) regionwide . For the maintenance of seed production area, 2 units tractor and 2 units multi-crop cultivator were provided to DA-CVHILROS, Bagabag Nueva Vizcaya, DA-CVIARC-IES, Ilagan City, Isabela, and DA-CVUPROS, Aglipay, Quirino.

Support to Farm Production. Issued fifteen (15) heads draft animals and 15 units small farm implements (Moldboard plow) to the same group of upland, lowland and indigenous vegetable farmers regionwide and DA-Research Outreach Stations (DA-CVIARC, Ilagan, Isabela, DA-CVLMROS, Iguig, Cagayan, & DA-CVUPROS, Aglipay, Quirino).

Gulayan sa Paaralan. In support to Gulayan sa Paaralan Project we have established 526 school gardens regionwide out of the 500 target. Gulayan sa Paaralan includes the conduct of technical briefing of agriculture teachers

(elementary and high school) under the Department of Education, provision of garden tools, assorted vegetable seeds and organic fertilizer.



Production Facilities Established and Maintained.

Rainshelter. To protect plant materials from excessive rainfall and sunlight, 100 units rainshelter were established in various barangays of Kayapa, Dupax del Sur, Dupax,del Norte, Kasibu (Kasibu National Agricultural school), N. Vizcaya, Cagayan State University (Piat Campus, Piat, Cagayan) and, Quezon, Isabela.

Greenhouse. For the production of vigorous/healthy and disease free seedlings, we have established 5 units greenhouse in Isabela (municipalities of Sta. Maria, San Pablo, Sto. Tomas, Cabagan and Tumauni.). We also maintained 2 units greenhouse in DA-CVIARC, Ilagan, Isabela and DA-CVLMROS, Iguig, Cagayan to nurture young vegetable seedlings and other plant materials before replanting and exposing to direct sunlight.

Screenhouse/Nethouse. Maintained 2 units screenhouse in DA-CVHILROS, Bagabag, Nueva Vizcaya.

Leaf Tissue Analysis Laboratory. There was a delay on the construction/establishment of the laboratory due to problems on transporting building materials from main land to Batanes. This production facility is included in the phase II of seed storage facility project at DA-IAROS, Basco, Batanes. Completion target will be on the first semester of 2013.

Organic/ Biological Fertilizer Plant. For the production of organic fertilizer and other soil ameliorants (like CFA, and bio-N), we have maintained 3 units organic biological fertilizer plant in three (3) DA-Research Outreach Stations (DA-CVIARC-IES, DA-CVLMROS and DA-CVHILROS).

Biological Control Agent Plant. Construction/establishment of one (1) unit biological control agent plant is on-going at DA-IAROS. The facility is for the mass production of biological control agents like Trichogramma, Earwig,

Metharizium, etc.

Soil Analysis instrument

Soil Borne Diseases Detection Instrument. Procured one (1) unit upgradable Polymerase Chain Reaction (PCR) machine which can be used to detect diseases both for plants and animals. This machine was provided for the DA-Integrated Laboratory at Carig Tuguegarao City.

Soil Test Kit. 55 units soil test kit were provided to the various group of farmers (association/cooperative) region-wide, some vegetable growing municipalities of Cagayan (Solana, Lallo, Alcala, Iguig, Tuguegarao & Camalaniugan), Maddela Institute of Technology, Maddela, Quirino, and DA-ROS.

MARKET DEVELOPMENT SERVICES

Market studies/research activities and market-related events. We have participated in philfoodex and agri aqua fairs.

CREDIT FACILITATION SERVICES

Project Proposal Developed and Proposal Facilitated for Funding. Developed 5 project proposals and facilitated the funding of 3 additional proposals.

IRRIGATION DEVELOPMENT SERVICES

Small-scale irrigation project

Spring Development. To ensure good crop establishment, normal crop growth & development to attain high yield, we have installed 15 units small-scale irrigation project (Spring development) in N. Vizcaya (Kayapa and Dupax Norte), coastal town of Isabela (Palanan, Maconacon and Divilaca), DA-PCC, Solana, Cagayan and DA-CVUPROS, Aglipay, Quirino.

Windmill. Two (2) units windmill (an alternative irrigation system) were installed in DA-CVIARC-IES and Quirino State University, Diffun, Quirino.

High Density Polyethylene Pipe (HDPE). We have installed/provided 22,460 meters HDPE pipes to group of Upland Vegetable farmers (Besong Farmers Association), lowland vegetable growers (Santiago City Vegetable Growers and Marketing Cooperative and Namuccayan Vegetable Growers Association), Cagayan State University (Piat Campus), LGU-Quezon, Isabela and DA-Research Outreach Stations and DA-Satellite station (DA-CVIARC-IES, DA-CVHILROS, DA-CVUPROS & DA-PCC, Solana, Cagayan).

Water Plastic Drum. Distributed 168 pieces water plastic

drum to the same group of upland, lowland and indigenous vegetable growers regionwide.

OTHER INFRASTRUCTURE AND POSTHARVEST DEVELOPMENT SERVICES



Processing Equipment. Procured 3 units vegetable dehydrator and to DA-Research Outreach Stations (DA-CVIARC, DA-CVLMROS, & DA-CVHILROS).

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Technology Demonstration. Established 2 upland vegetable technology demonstration (on-station – DA-CVHILROS, Bagabag and on-farm- Besong, Kayapa) and 3 lowland vegetable technology demonstration (on-station – DA-CVIARC & DA-SWMS, Ilagan and DA-CVLMROS, Iguig, Cagayan). The purpose of these is to showcase different interventions in producing vegetables such as using mulch, different source of organic fertilizer, trellising and irrigations.

We have also conducted two (2) mega field days specifically in Besong, Kayapa and DA-CVHILROS which the former was attended by *Secretary Proceso J. Alcala* and 2,500 farmers and stakeholders regionwide.

Organizations Strengthened. Three (3) vegetable growers association were strengthened (Santiago City Vegetable Growers and Marketing Cooperative, Bunggoy Mannalon ni Rosa (BuMaRo). and Namuccayan Vegetable Growers Association).

INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced 1,590 copies print materials on upland, lowland & indigenous vegetables and distributed to farmer beneficiaries, stakeholders, planners, walk-in clients/students regionwide.

Radio Plugs. Aired 21 HVC DP episodes in the *Magsasakang Pinoy* radio program of DA-RFO 02.

Support to Agricultural Extension Workers (AEWs). Supported 48 Agricultural Extension Workers regionwide (in the form of incentives).



MANGO

PRODUCTION SUPPORT SERVICES

Planting Materials. Some farmers in the region are interested to establish new mango plantation due to increasing prospect of the mango industry but because of limited supply of quality plant materials (there is only one accredited nursery operator in the region and cannot supply the requirements of the growers) we have provided 7,702 pieces of grafted mango seedlings to two (2) mango growers association (Tumauini Mango Producers Association, Tumauini, Isabela and Aritao Mango Producers Association, Aritao, Nueva Vizcaya), LGU-Claveria (planted in Claveria Eco-Park) and also to walk-in clients.

Farm Equipment and Machineries. Provided 10 units power sprayer (for use in the application of flower inducer specially for off-season mango production) and 9 units knapsack sprayer to the 2 mango growers association, LGU-Ambaguio and DA-Research Outreach Stations (DA-CVHILROS, DA-CVUPROS, & DA-CVIARC).

Support to Farm Production. Five (5) heads draft animals and 5 units moldboard plow were provided to Tumauini Mango Producers Association, DA-CVIARC-IES and DA-CVHILROS.

ganic/ Biological Fertilizer Plant. Maintained one (1) unit organic/biological fertilizer plant In DA-CVHILROS.

Soil Analysis instrument

Soil Test Kit. Issued 22 units soil test kit to the same group of farmers in Tumauini, Isabela and Aritao, N. Vizcaya.

Credit Facilitation Services

Project Proposal Developed and Proposal Facilitated for Funding. Developed one (1) project proposal (Mango) and facilitated its funding.

IRRIGATION DEVELOPMENT SERVICES

High Density Polyethylene Pipe (HDPE). Installed 6,000 meters HDPE pipes in the production area of DA-CVHILROS.

Water Plastic Drum. Distributed 54 pieces water plastic drum to the same group of farmers in Tumauini, Isabela and Aritao, N. Vizcaya.

OTHER INFRASTRUCTURE AND POSTHARVEST DEVELOPMENT SERVICES

Processing Equipment. Two (2) units vegetable dehydrator were provided to DA-Research Outreach Stations (DA-CVIARC-IES & DA-CVHILROS).

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Organizations Strengthened. Strengthened one (1) group of farmers (Tumauini Mango Producers Association).

INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced and distributed 530 copies of print materials (POT on Mango Production) to farmer beneficiaries, stakeholders, planners and walk-in clients.

Radio Plugs. Aired 9 episodes on Mango Production in the Magsasakang Pinoy Radio Program.

PUMMELO, RAMBUTAN AND DURIAN

PRODUCTION SUPPORT SERVICES

Planting Materials. There were 9,613 pieces grafted seedlings (3,103 pieces Pummelo, 3,510 pieces Rambutan, and 3,000 pieces Durian). Bulk of these planting materials were provided to DA- Research Outreach Stations and satellite stations regionwide planted in the Foundation Scion Grove (serve as mother plant) within the station.

Some of the seedlings were also distributed to walk-in clients within the region.

Farm Equipment and Machineries. Ten (10) units knapsack sprayer were provided to farmers beneficiaries and some were issued to DA-Abulug Seed Farm, Abulug, Cagayan for use in the maintenance of existing and newly established foundation-scion grove and production area in the station.

Support to Farm Production. Provided four (4) heads draft animal with small implements (mouldboard plow), 2 of which were issued in DA- ASF and the other 2 heads to farmer beneficiaries.

Production Facilities Established and Maintained.

Screenhouse/Nethouse. Out of 7 units screenhouse/nethouse target, 6 units were established in DA-Research Outreach Stations and Satellite Stations (DA-CVIARC-IES, DA-CVHILROS, DA-CVUPROS, DA-ASF, and DA-PCC). Establishment of one (1) unit at DA-IAROS was delayed due to transport problem going to Batanes.

Seed Storage. Established one (1) unit seed storage facility in DA- ASF. The facility is use to maintain the viability of seeds and prevent storage pest infestation.

Foundation-scion Grove. Established 3 units Foudation – scion grove particularly in DA-CVUPROS, DA-PCC and DA- ASF to ensure immediate sources of seeds and scion materials for disposal to farmer recipients.

Maintenance of existing 2 units foundation-scion grove in DA-ASF and DA- CVHILROS was also implemented by following the recommended technologies like fertilization, weeding, pruning and pest/disease management.

Nursery. Maintained existing four (4) units nursery structure in DA-ASF, DA- CVIARC-IES and DA-CVUPROS.

Organic/Biological Fertilizer Plant. Maintained one (1) unit organic/biological fertilizer plant in DA- ASF.

Soil Analysis instrument

Soil Test Kit. Issued 22 units soil test kit to DA-ASF for distribution to farmer beneficiaries.

CREDIT FACILITATION SERVICES

Project Proposal Developed. Developed one (1) project proposal on citrus.

IRRIGATION DEVELOPMENT SERVICES

High Density Polyethylene Pipe (HDPE) and Water Plastic Drum. Provided 54 pieces water plastic drum and installed

6,000 meters HDPE pipes in the production area of DA-ASF.

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Technology Demonstration. Conducted one (1) technology demonstration (On-station) at DA- ASF.

INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced and distributed 500 copies of print materials (Pummelo and Rambutan Production Guides) and distributed to farmer beneficiaries, stakeholders, walk-in clients/students.



COFFEE

PRODUCTION SUPPORT SERVICES

Planting Materials. Procured and distributed 101,250 pieces coffee seedlings to farmer beneficiaries in the convergence areas in Isabela (municipalities of San Mariano, Angadanan, San Guillermo, Echague, and Cordon), members of one (1) farmer association (Cooperative for Rural Development (CORDEV) – Cauayan, Isabela), and farmer beneficiaries in San Manuel & San Agustin, Isabela.

Farm Equipment and Machineries and Support to Farm Production. Distributed 9 units knapsack sprayer, 5 heads draft animal, 5 units small farm implements (moldboard plow), and 22 units soil test kit to the farmer beneficiaries in the convergence area.

Production Facilities Established and Maintained

Nursery. Established six (6) units nurseries in DA-CVIARC-IES, DA-CVUPROS convergence municipalities (Angadanan & Cordon) and at Quirino State University, Diffun, Quirino. These facilities were provided for the propagation of planting materials for future planting expansion areas.

IRRIGATION DEVELOPMENT SERVICES

High Density Polyethylene Pipe (HDPE) and Water Plastic

Drum. Distributed 5,000 meters HDPE pipes and 54 pieces water plastic drum to the same farmer beneficiaries in the convergence area.

OTHER INFRASTRUCTURE AND POSTHARVEST DEVELOPMENT SERVICES

Processing Equipment. Provided four (4) units processing equipment (coffee depulper & coffee dehuller) and two (2) units postharvest equipment (fermentation tank) to DA-CVIARC-IES, and LGU - Angadanan.

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Organizations Strengthened. Strengthened one (1) group of farmers in the convergence area.

INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced and distributed 500 copies of print materials (POT on Coffee Production).



CACAO

PRODUCTION SUPPORT SERVICES

Planting Materials. Procured and distributed 25,406 pieces quality planting materials. Bulk of these seedlings were provided to members of three (3) farmers association/organization (Pureg Tribal Community Progress Association, Pureg, Sanchez Mira, Cagayan; Lasam Cacao Farmers Association, Lasam, Cagayan; and Masisit Multipurpose Cooperative, Sanchez Mira), to LGU- Claveria (for Claveria Eco-Park), LGU-Cabagan, Isabela, LGU-Dupax del Norte, Nueva Vizcaya and to DA-Research Outreach Stations/Satellite Stations nationwide.

Farm Equipment and Machineries and Support to Farm Production. Distributed 9 units knapsack sprayer, 6 heads draft animal, 6 units small farm implements (moldboard plow) and 20 units soil Test Kit to Pureg Tribal Community Progress Association and to Lasam Cacao Farmers Association.

Production Facilities Established

Nursery. For year round supply of quality plant materials, established/provided 6 units nurseries to Pureg Tribal Community Progress Association, DA-Research Outreach Stations/Satellite stations (DA-ASF, DA-CVIARC-IES, DA-CVUPROS, and DA-PCC).

CREDIT FACILITATION SERVICES

Project Proposal Developed. We have developed one (1) project proposal on cacao.

IRRIGATION DEVELOPMENT SERVICES

High Density Polyethylene Pipe (HDPE) and Water Plastic Drum. Installed/distributed 5,000 meters HDPE pipe and 54 pieces water plastic drum to Pureg Tribal Community Progress Association and to DA-ASF.

OTHER INFRASTRUCTURE AND POSTHARVEST DEVELOPMENT SERVICES

Postharvest Equipment and Processing Facility. Provided 2 units postharvest equipment (Cacao dryer) and 2 units processing facility (Tablea) to Lasam Cacao Farmers Association and DA-ASF.

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Organizations Strengthened. Strengthened one (1) group of farmers (Lasam Cacao Farmers Association).

INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced and distributed 500 copies of print materials (POT on Cacao Production).



BANANA-SABA

PRODUCTION SUPPORT SERVICES

Planting Materials. Distributed 32,700 pieces banan-saba seedlings to two (2) farmers Association/Cooperative (Kapagaran Banana Growers Association, Allacapan,

Cagayan and 2 sites of Masisit-Dacal Livelihood Cooperative, Sanchez Mira based & Iguig based) and to walk-in clients.

Farm Equipment and Machineries. Provided 9 units knapsack sprayer to the same association/cooperative (Kapagaran Banana Growers & Masisit-Dacal Livelihood Cooperative), DA-CVLMROS and to DA-Quarantine office, Tuguegarao city.

Support to Farm Production. Procured/Allocated five (5) heads draft animal and 5 units small farm implements (moldboard plow) to the same group of farmers.

Soil Analysis instrument

Soil Test Kit. Issued 22 units Soil test Kit to LGU-Iguig, LGU-Allacapan, LGU-Baggao, LGU-Rizal, DA-CVLMROS and DA-Regional Soils Laboratory, Tuguegarao, Cagayan.

CREDIT FACILITATION SERVICES

Project Proposal Developed. Developed one (1) project proposal on Banana-saba.

IRRIGATION DEVELOPMENT SERVICES

High Density Polyethylene Pipe (HDPE) and Water Plastic Drum. Five thousand (5,000) meters HDPE pipes were distributed to the 2 farmers association/Cooperative, LGU-Dupax del Norte, and DA-PCC. Also issued 54 pieces water plastic drum to the 2 groups of farmers and to farmer beneficiaries from Iguig, Cagayan.

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Organizations Strengthened. Strengthened one (1) group of farmers (Kapagaran Banana Growers Association).

INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced and distributed 500 copies of print materials (POT on Banana Production).

Support to Agricultural Extension Workers (AEWs). Supported 10 Agricultural Extension Workers regionwide (in the form of incentives).

KAMOTE AND UBE

PRODUCTION SUPPORT SERVICES

Planting Materials. Distributed 353,328 pieces sweet potato planting materials to farmer beneficiaries in 6 municipalities of Batanes (Basco, Mahatao, Ivana, Uyugan, Sabtang and Itbayat) and 3,333 kg. yam tubers were provided to

DA-Research Outreach Stations (DA-IAROS, DA-CVLMROS, DA-CVIARC-IES, DA-CVUPROS, and DA-CVHILROS), and to farmer beneficiaries in 3 municipalities of Batanes (Basco, Mahatao & Ivana).

Support to Farm Production. Procured/Allocated five (5) heads draft animal and 5 units small farm implements (moldboard plow) to Provincial Breeding Station, Itbayat, Batanes and to farmer beneficiaries from Sabtang, Uyugan & Itbayat.



Production Facility Established

Planting Materials Production Laboratory (Tissue Culture Laboratory). Delayed construction of one (1) unit laboratory in DA-IAROS, Batanes due to problem on transport of building materials to Batanes. This will be part of the Rootcrops Training Center at Basco.

IRRIGATION DEVELOPMENT SERVICES

High Density Polyethylene Pipe (HDPE). Provided 930 meters HDPE pipe to Chadpidan Agrarian Reform Beneficiaries, Basco, Batanes.

OTHER INFRASTRUCTURE AND POSTHARVEST DEVELOPMENT SERVICES

Processing Equipment and Processing Facility. Two (2) units processing equipment (Rootcrops chipper and Rootcrops grinder) is for delivery and construction of one (1) unit Rootcrop processing facility at DA-IAROS is on-going.

INFORMATION AND ADVOCACY

Information Education and communication (IEC). Reproduced 350 copies of print materials (POT on Sweet potato and Yam Production) and distributed to farmer beneficiaries, stakeholders, walk-in clients/students regionwide.

LIVESTOCK PROGRAM

PRODUCTION SUPPORT SERVICES

GENETIC IMPROVEMENT PROGRAM

The government stock farms of the region are strategically located in the provinces where the different Research Outreach/Satellite Stations or the satellite stations of the Department. The Nucleus Farms are all in the mainland provinces while the Production Center is in Batanes island.

In Quirino province, the region's Cattle Development Program is showcased in the Cagayan Valley Upland Research Outreach Station (CVUPROS). It is the cattle breeding area for the Brahman species. For the year, the herd produced was 16 calves.



To upgrade the genetic make-up of the existing breeder base in the region, the Small Ruminant Genetic Improvement Program focused on the production and promotion of purebred goats like Fullblood Boer and Kalahari Red at the Cagayan Breeding Station, Maguirig, Solana, Cagayan while Anglo Nubians are concentrated at Cagayan Valley Hillyland Research Outreach Station (CVHILROS), Tappaya, Bagabag, Nueva Vizcaya. Purebred sheep like Katahdin and St. Croix are also found at Isabela Breeding Station, Gamu, Isabela. For the year 2012, 56 Boer & Kalahari Red and 32 Anglo Nubian kids were produced while the Isabela Breeding Station at Gamu, Isabela produced a total of 43 lambs.

ARTIFICIAL INSEMINATION

The Unified National Artificial Insemination Program (UNAIP) advocates the massive production of cattle and carabao for meat, draft and dairy. Now, goat has already been included. The program aims to help sustain and meet the growing demands of the population while improving the quality of life among animal raisers especially

in the rural areas.

The UN-AIP is implemented region-wide through a collaborative and serious efforts among stakeholders like the Philippine Carabao Center, the Department of Trade and Industry Region 2 for the Dairy Development Component, the Local Government Units, Non-Government Units and the Private Sectors such as Village-Based Artificial Insemination Technicians (VBAIT), the Canadian Executive Service Organization-Volunteer Adviser (CESO-VA) who provided trainings to both dairy extension workers and dairy animal raisers in the field of extension and animal nutrition.

For CY 2012, UNAIP has provided artificial insemination services on Carabao with 11,675 heads over 9000 heads targeted or 129.7%; Cattle with 3,564 heads over 3,000 heads targeted or 118.8%; and Goats with 1378 heads over 1,120 heads targeted or 123%. The average performance rating on artificial insemination services is 123.83%.



As a result of the artificial insemination services last CY 2011, the following are the number of F1 (cross bred) over the target set: Carabao with 1,134 heads over 987 heads targeted or 114.8%; Cattle with 736 heads over 624 heads targeted or 117.9% (33 heads of the 736 F1 monitored are dairy-based animals); and 833 goats over 674 heads targeted or 123.4%. On Anglo Nubian crossbred monitoring, the program has attained a performance rating of 118.7%. The general average rating of animal production for CY 2012 is 123.2% which means "very satisfactory".

LIVESTOCK

DAIRY DEVELOPMENT

The Cagayan Valley Dairy Development Program was approved for implementation on March 26, 2006. It is a collaborative effort among regional line agencies spearheaded by the Department of Agriculture, the Provincial and Municipal Government Units, State Universities, Non-Government Organizations and the private sector.



Not all municipalities in the region are covered by the program. In the province of Cagayan, there are eight municipalities identified. These are Amulung, Alcala, Solana, Tuguegarao City, Iguig, Enrile, Piat and Penablanca. In Isabela North, the dairy zone municipalities are – San Pablo, Cabagan, Tumauini, Ilagan, Naguilian, Cauayan City, Mallig and Roxas. The municipalities of Alicia, Echague, Jones and San Agustin are the dairy zones in South Isabela.

The Philippine Carabao Center, Isabela State University and the Quirino State University are the Institutional Dairy Zones. The dairy zones served as the sources of dairy animals for milk collection. The National Dairy Authority has established two dairy multipurpose farms in the region namely: Aljuron Farms at Gamu, Isabela and Malaya Dairy Cooperative at Mallig, Isabela.

All the dairy zones are efficiently provided with Artificial Insemination Services, Deworming, Vaccination, and Vitamin-Mineral Supplementation. The dairy animal raisers, producers and processors were equipped with matured technologies especially in animal health management, feeds and feeding, breeding, forage production, dairy processing and value adding which was made possible with the assistance of the Canadian Executive Service Organization – Volunteer Advisers and Japanese International Cooperation Agency with P1M initial funding to support the National Industry Cluster Capability Enhancement Program

(NICCEP) on dairy effective October 2012 to 2014.

To date, there are 315 animals (cattle and carabao) on milk line and 20 heads dairy goats with a milk yield of more or less 200,000 liters. The milk requirement of local milk processors is 2,600 liters/day or 949,000 liters annually. For this, we need 860 animals on the milk line. With the annual per capita consumption of 18.89 liters, Region 02 population of 3 million will need 56 million liters annually and 51,142 animals to be on the milk line in order to be self-sufficient. Although the Dairy Program is an emerging commodity of the department, it is officially governed by a Dairy Board which is spearheaded by the private sector.

For the dairy industry to succeed, a strong policy advocacy in the local government unit level is strongly recommended:

Conservation of female breeders;

- Increase AI technicians and technician deployment to conduct massive AI;
- Develop sustainable animal health reproductive management plan;
- Advocate continuance of EO 624 re: animal slaughter ban (slaughter only animals that are matured) to be implemented by LGUs; and
- Counterparting on breeder stock infusion and continuous genetic improvement.

FORAGE DEVELOPMENT

To complement the Small and Large Ruminant Genetic Improvement Program the Forage and Pasture Development Program is in place to sustain the requirements of the herd in the Region and assure proper nutrition thus attaining productivity and good health. The Department maintains 48 hectares of forage production and pasture areas and distributed a total of 2,268,669 pieces of planting materials and 59 kilograms of forage seeds such as Bracharia Humidicola, Napier, Indigofera, Desmanthus, Flemingia and Setaria to livestock raisers in the region.

BREEDER LOAN

At least 58 bucks, 40 rams and 11 bulls have been loaned out to qualified livestock raisers after a thorough evaluation of their capabilities to raise purebred animals. There were also 11 does, 94 ewes and 3 heifers distributed during the year. Periodic monitoring of animals is conducted and

LIVESTOCK

technical assistance in terms of animal health and production is provided as part of the extension delivery services to beneficiaries.

ANIMAL HEALTH SERVICES

Implementation of the Animal Health Services is a continuing program comprising different activities to prevent and control emerging animal diseases that pose great economic losses and potential risk to human health.

With this, Region 02 remains free from Avian Influenza (Bird Flu) and Foot and Mouth Disease through collabo-



orative efforts with our Local Government Units by way of regular monitoring and surveillance of these diseases.

Annual vaccination for CY 2012 showed a remarkable accomplishment, wherein 73,663 over 65,000 or 113% of cattle and carabao have been vaccinated against Hemorrhagic Septicemia while 7,294 over 7,000 or 104 % of artificially inseminated ruminants have been dewormed.

Rabies vaccination have also been administered to 90,510 over a targeted 98,000 dogs regionwide.

In line with these activities, the Philippine Animal Health Information System or PhilAHis was successfully deployed in the 5 provinces of Region 02 which provides an efficient animal health reporting system from LGUs to the national level. Likewise, Trainings and Seminars were conducted to update Livestock Technicians on disease situation: its prevention, control and treatment.

DISEASE DIAGNOSTIC SERVICES

The Regional Animal Disease Diagnostic Laboratory conducted several technical assistance to clients which included the diagnosis of the following:

a. Brucella abortus Diagnosis: 131 samples

- b. Equine Infectious Anemia with Coggins' test: 4 samples
- c. Blood parasite detection with direct blood smear examination: 130 samples
- d. Newcastle disease with the use of ELISA test: 90 samples
- e. Infectious Bursal disease in poultry, hog cholera in swine and caseous lymphadenitis in caprine through necropsy: 4 clients/samples
- f. Rabies through FAT: 45 samples/clients
- g. Avian Influenza through
 - ELISA Test: 142 samples
 - HA-HI Test: 823 samples
 - AGID Test: 7 samples
- h. Bluetongue through AGID test: 27 samples
- i. Caprine arthritis & encephalitis through ELISA test: 220
- j. Bacterial Isolation of Bacillus sp. E. coli, Streptococcus sp., Pasteurella sp., Staphylococcus sp., Actinomyces sp. and Corynebacterium pseudotuberculosis through API Test: 12 clients/samples
- k. Determination of blood calcium, phosphorous and magnesium levels of animals through Blood Chemistry Analysis: 150 samples
- l. Blood picture of animals through complete blood count & differential count: 184 samples
- m. Parasite identification from feces through fecalysis: 1,304 samples



RESEARCH AND DEVELOPMENT

Different researches have also been conducted with the following titles:

- Research on Native Forages
- Piloting of Organic Production of Livestock and Poul-

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try

- Productive and Reproductive Performance Evaluation of Anglo Nubian Goats in CVHILROS
- Collaborative Research with BAI and RADDL
 - * Development of Antigen for the Rapid Diagnosis of Hemorrhagic Septicemia in Region 02
 - * Technology Commercialization on the Use of Organic Dewormer for the Control of Parasitic Gastroenteritis of Small Ruminants in Region 02.

EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

Conduct of Trainings

Region 02 pioneered the conduct of Livestock Agricultural Extension Workers Congress at the Cagayan Valley Lowland and Marine Research Outreach Station, Minanga, Iguig, Cagayan attended by 289 participants.

Likewise, retooling of 98 Agricultural Extension Workers was conducted to enhance their capabilities.

The Regional Animal Product Development Center conducted 16 lecture/demo on Meat Processing with 70 walk-in participants. It also processed 254 kilograms of meat and developed 10 meat products.

LGU extension workers, On-the-Job Training and research students, livestock raisers and the like were accorded technical assistance especially Hands-on-Training on Disease Diagnostic Techniques and on the conduct of their thesis researches.

Operationalization of the Farmers Information Technology Service (FITS) Center

Technical advisory and consultancy on veterinary services for animal treatments, vaccination and deworming to walk-in clients were immediately and properly addressed. The station managers or their designates conducted technical briefings whenever lakbay-aral groups, visitors from within other regions, students from SUCs and other stakeholders visit the Research Outreach stations in the different provinces, hence, distributing 2,800 IEC materials serving 1,048 clients.

REGULATORY SERVICES



Quarantine Services

The Region maintained the operation of eight (8) Quarantine checkpoints and strengthened by providing adequate manpower and facilities for communication, mobility including equipment. Strengthened also the networking with allied agencies, LGUs and stakeholders through close coordination and consultations and active membership with the Cagayan Valley Products Monitoring Services (CAVAPROMS). Because of this vigilance, the Region maintained its being an “FMD FREE ZONE” for the past 8 years and a “BIRD FLU AND MAD COW FREE”, too.

For domestic services, there were 2,742 livestock transport vehicles, 936 aircrafts and 36 vessels inspected and cleared issuing a total of 4,608 permits for shippers and 36 clearances for vessels while on international services, 171 clearances were issued.

Licensing Services

The Licensing Unit facilitated the processing of license to operate for 194 Livestock Handler/Carriers, Feed and Veterinary Drugs and Products and Feed establishments

Regional Feed Laboratory Services

For the year 2012, the Feed Laboratory was able to analyze a total of 1,585 mixed feed samples and feed ingredients and indigenous feed resources. Analytical tests conducted were: Protein Determination, Fat Determination, analyzed were certified as to conformity and results of analysis from this laboratory shall be used as basis for compliance to existing standards by the Animal Feed Standard Division of the Bureau of Animal Industry.

ORGANIC AGRICULTURE PROGRAM

The Republic Act 10068 known as Organic Agriculture Act of 2010 with a policy to promote, propagate, develop further and implement Organic Agriculture in the Philippines. The policy states to undertake comprehensive programs to promote community-based organic agriculture systems which farmers-produced purely organic agriculture products according to the Philippine National Standards.



Organic Agriculture is defined by the International Federation of Organic Agriculture Movement (IFOAM) as a production system that sustains the health of soils, ecosystem and peoples. It relies on ecological processes, biodiversity and cycles adapted to local conditions rather than the use of inputs with adverse effects.

Organic Agriculture combines traditional technologies and innovations, promote fair relationships between plants and animals and a good quality of life for all concerned.

The projects that were funded and implemented in Region 02 are as follows:

PRODUCTION SUPPORT SERVICES

There were ten (10) projects implemented under production support namely; Organic Corn seed, Upland Rice Seeds, Vegetable Seeds, Mass Production of Biological Control Agents (BCAs), Organic Dewormer to Control Parasitic Gastro-enteritis (PGE) of Small Ruminants, Production of Vuhus Cattle, Commercialization of Organically Grown Rabbit, the Production of Native Chicken under Free-range, Optimizing Organic Native Goat Production in Cagayan Valley and Enhancement of Organic Fertilizer



(Vermi-compost) Production Through Establishment of Storage Facility.

These projects were undertaken in order to produce the different commodities as source of planting materials and source of animal stocks using the alternative technologies in accordance with the organic agriculture farming practices.

EXTENSION SUPPORT SERVICES

Technology Demonstration

Technology Demonstration projects were established in order to showcase the organic farming systems. There were six (6) projects that were put and these are: Production of Quality Breed Organic Native Chicken, Conservation and Production of Native (Wild) Pig, Demo Farm for Breeding Organic Native Swine, Organic Native Pig Production, Organic Sheep-Citrus Based Integrated Farming Systems and Technology Promotion on Organic Farming.

Technology practices employed in these projects are aligned with the Philippine National Standards set for organic agriculture.

Field Days and Technology Fora

Hand in hand with the establishment of the technology demonstration, field days and technology fora were con-

ORGANIC AGRICULTURE

ducted. These are avenues for farmers and stakeholders to witness themselves the actual stand of the crops and animals. Farmers have direct interaction with the project leaders on the technologies being demonstrated and it is here where farmers draw their decisions whether to adopt the Organic Agriculture farming technologies or not.

Farmers' willingness to adopt the organic farming technologies is manifested with their request for chemical-free seeds as planting materials to start their project.

Technology adoption for Organic Agriculture farming practices is easy since the materials/inputs needed are readily available right at farm such as organic fertilizers and -pesticides are easily availed and prepared. These is cost reducing production technologies.



Trainings

In coordination with the Agricultural Training Institute (ATI), training programs for farmers, producers, extension workers, consumers and other stakeholders in agriculture sector was conducted to provide the knowledge and skills related to organic agriculture. There were 102 batches of Organic Agriculture trainings with 6,041 participants attended.

The natures of the trainings were both classroom style cum practicum which were usually conducted at ATI Training

Centers, Green Daisy Farm and PAYOGA/KAPATAGAN MPC as the learning school of the participants. The learning process is faster and greater if the participants can see themselves how the different organic farming techniques are shown in an actual field situation.



Hands-on activities were actually imposed to the participants to familiarize themselves with the different processes to be followed for a better result. Participants were trained on the production of organic fertilizers such as vermicomposting, production of different concoctions, formulation of natural feeds for livestock and poultry.

Members of the organic agriculture local technical committees both in the provincial and municipal levels were also trained to equip them on the legal basis of Organic Agriculture, its principles and objectives and the benefits derived from organic farming.

Training on the formulation of the Internal Control Systems (ICS) manual was also conducted with three (3) batches and 105 participants. This is a pre-requisite for organic farmers and organizations before they can apply third party for certification as organic agriculture practitioners.

As part of the technology training, farmers and extension workers were toured to successful organic farms of other regions in order to see themselves the organic projects and to create possibilities of adopting appropriate technologies

which are adoptable in their localities.

Two (2) batches of this activity with fifty two (52) participants were invited to attend.

Organic Product Certification/Quality Control

Given the limited number of existing organic agriculture practitioners in Region 02, one farmer-cooperative was issued third party certification. After series of inspection on the systems employed by this cooperative they were able to execute and comply with all the requirements asked by the Organic Certification Center of the Philippines (OCCP).

This cooperative referred to is the ABRASA Multi-Purpose Cooperative based at Diffun, Quirino, a producer of the organically produced vermi-compost fertilizer with Brand Name "ECO-V".

POLICY FORMULATION AND ADVOCACY SERVICES

Baseline and Data Banking

Survey on the actual hectares devoted to organic agriculture was conducted in coordination with the Bureau of Agriculture Statistics (BAS). Out of the total agricultural area in Region 02 which is 1,039,842 hectares, only 1, 093 hectares is devoted to organic farming.

Included in the survey was the number of farmers who are actually practicing organic farming technologies and it come out that 1,295 farmers are identified as organic agriculture practitioners.

Projects implemented in the region were closely supervised and monitored by the project leaders and other DA staffs to ensure that the plans and programs is executed properly and efficiently managed according to the organic agriculture standards.

Creation of Local Technical Committees

Section 5 of the Implementing Rules and Regulations of RA 10068 says that Provincial and Municipal Local Technical Committee are mandatory to be organized.

The five (5) provinces and ninety-three (93) municipalities in Region 02 were all organized. Provincial Local Technical Committee are headed by the Governor while the Municipal Local Technical Committees by the Municipal Mayors.

The committees are necessary since the Local Government Units (LGU's) as front liners in the implementation of the program and shall pass provincial/municipal ordinances and/or resolutions as appropriate at their level.

Composition of these committees consists of nine (9) government agencies, three (3) farmer groups, one (1) agribusiness firm and one (1) non-government organization.

Funds were provided on time in order to implement the projects at the right time, right volume and at the right beneficiaries of the project. Weekly monitoring of all projects was conducted to assess whether delivery of service is executed.

Quarterly assessment, conduct of meetings of all project leaders and technical working group were done to come up with a common understanding regarding the status of all projects vis-à-vis fund utilization.

Over-all accomplishment of organic agriculture for 2012 is 98% physical and 100% financial accomplishments.

Research & DEVELOPMENT

The Bureau of Agricultural Research is one of the staff bureaus of the Department of Agriculture (DA) which was established to lead and coordinate the agriculture and fisheries research and development (R&D) in the region. DA-BAR assists funds under its various flagship programs; the Institutional

Development Grant (IDG), Community Based Participatory Action Research (CPAR) and others. There are two (2) Research and Development (R&D) projects amounting to 5,000,000.00 and 5,615,000.00 for the two (2) Institutional Development Grant (IDG) projects. Here are the lists of R&D and IDG projects in the region.

LIST OF PROJECTS FUNDED BY BAR FOR CY 2012

<u>PROJECT TITLE</u>	<u>PROPONENT</u>	<u>LOCATION</u>	<u>AMOUNT</u>
COMMERCIALIZATION			
Establishment and Commercialization of Pigeon Pea Seed production System	CVHILROS	Bagabag, Nueva Vizcaya	3,000,000.00
Establishment and Commercialization of Pigeon Pea Seed Production System	CVUPROS/ CVIARC/ CVLMROS	Quirino, Ilagan, Isabela, Iguig, Cagayan	2,000,000.00
TOTAL			5,000,000.00
<u>PROJECT TITLE</u>	<u>PROPONENT</u>	<u>Beneficiary/ Implementing Unit</u>	<u>BUDGET (P)</u>
INSTITUTIONAL DEVELOPMENT GRANT (IDG)			
Repair of Mushroom House, Laboratory and Acquisition of Equipment	CVIARC-RCPC	CVIARC-RCPC	615,000.00
Improvement of RIACR Building Phase III	DA-RFO 2	RIARC	5,000,000.00
TOTAL			5,615,000.00

SUMMARY OF PROJECTS APPROVED AND FUNDED BY DA - BAR

<u>PROJECT</u>	<u>NO. OF PROJECTS</u>	<u>BUDGET (P)</u>
R&D	2	5,000,000.00
IDG	2	5,615,000.00
TOTAL	4	10,615,000.00

As of 2012, the Department of Agriculture is currently implementing thirteen (13) projects funded under the Agricultural Competitiveness Enhancement Fund (ACEF). The ACEF is a special fund created by RA 8178 intended to support projects and activities that will help enhance the competitiveness of the

agriculture and/or fisheries sectors. The total amount loan approved is 162,482,914.00. Eight (8) of the ACEF projects have been fully released amounting to 135,082,914.00 and five (5) projects with partially unreleased funds amounting to 27,400,000.00. These are the following:

Project Title	Proponents/Recipients	Project Cost (in Peso)		
		ACEF	Proponent's Equity	Total
CAGAYAN				
1. Upgrading of Bio-Organic Fertilizer Manufacturing Project	Norphil Farmers Multi-Purpose Cooperative, Sampaguita, Solana, Cagayan	8,297,914	23,058,547	31,356,461
2. Acquisition of 4WD Tractor with accessories and Forward Truck	Calayan SN Multi-Purpose Cooperative (MPC) Calayan, Gonzaga, Cagayan	2,800,000	650,000	3,450,000
3. Acquisition of 4WD Tractor with accessories	Sto. Domingo Multi-Purpose Cooperative (MPC), Centro, Baggao, Cagayan	2,800,000	700,000	3,500,000
4. Nararagan Valley MPC Grain Center	Nararagan Valley MPC, Nararagan, Ballesteros, Cagayan	6,740,000	3,035,000	9,775,000
ISABELA				
5. Acquisition of 4WD Tractor with accessories	ARBA Multi-Purpose Cooperative, Reina Mercedes, Isabela	2,500,000	500,000	3,000,000
6. BGD Farm Swine Production Upgrading Facilities	Mr. Bernard Faustino Dy, Nagrumbuan, Cauayan City, Isabela	45,000,000	42,536,250	87,536,250
7. Establishment of Tunnel Ventilated Chicken Contract Growing Farm in Isabela	Atienza Agribusiness Enterprises / Ronald Atienza, Minante II, Cauayan City, Isabela	14,800,000	6,650,000	21,450,000
8. Establishment of Tunnel Ventilated Chicken Contract Growing Farm in Isabela	Y.E.F. Farm Dominic Laguata, Minante II, Cauayan City, Isabela	14,800,000	6,650,000	21,450,000
9. Establishment of Tunnel Ventilated Chicken Contract Growing Farm in Isabela	EDV Marketing Eloisa D. Valle, Minante II, Cauayan City, Isabela	14,800,000	6,650,000	21,450,000
10. Establishment of Tunnel Ventilated Chicken Contract Growing Farm in Isabela	RVJ Industrial Sales & Services. Engr. Romulo V. Valle, Jr., Minante II, Cauayan City, Isabela	14,800,000	6,650,000	21,450,000
11. Establishment of Tunnel Ventilated Chicken Contract Growing Farm in Isabela	Raymond D. Valle San Isidro, Cauayan City, Isabela	14,800,000	6,650,000	21,450,000
QUIRINO				
12. Acquisition of 4WD Tractor with accessories	Maddela Integrated Farmer Cooperative, Dumabato Norte, Maddela, Quirino	2,500,000	500,000	3,000,000
NUEVA VIZCAYA				
13. Malabing Valley Citrus & Tropical Fruit Services Center	Malabing Valley Multi-Purpose Cooperative, Malabing, Kasibu, Nueva Vizcaya	17,845,000	22,813,000	40,658,000

ACEF

2012 SCHOLARS

The ACEF, enacted in 1996, aims to support farmers, fisherfolk, cooperatives and agribusiness entrepreneurs to compete in an increasingly globalized agriculture market.

One strategy is to develop a steady base of competent professionals who will unlock the potential of our agriculture and fisheries sector, thus the ACEF Scholarship was established. The scholarships will cover the full tuition and other fees of the qualified students, to be paid directly to the school.

Under Republic Act No. 9496, "An Act To Extend the Utilization Period of ACEF," it required that 10% of the fund should be earmarked for the comprehensive scholarship program of the agriculture sector. In 2012, these are the approved scholars from region 2.

CSU Carig Campus

VETERINARY MEDICINE

1. Batin, Fredarina
2. Mecate, Jan Alvin
3. Pulido, Roanne Joy
4. Pallagao, Jennilyn
5. Soriano, Marivie

BS AGRICULTURE

6. Agdeppa, Marjurine Love
7. Agustin, Rhysean
8. Baggay, Sheryl Ann
9. Bajan, Aimell
10. De Leon, Kenneth Godfrey
11. Erjas, Christian
12. Guiquing, Marjon
13. Gumabay, Marissa
14. Martin, Reizanne Joy
15. Ongkiko, Thomas Jose
16. Panaga, Aldrin
17. Soriano, Jay Mark
18. Tabalbag, Jeliroose
19. Tabayan, Reylen
20. Ternora, Marlon
21. Maguisid, Ron-ron

CSU Piat Campus

BS AGRICULTURE

1. Acom, Jovy Gaile
2. Atabay, Karla Mae
3. Bagaria, Kristel
4. Batta, May-Ann
5. Decapia, Christopher
6. Fiesta, Cristeta
7. Gulatera, Felinor
8. Gulatera, Reymond
7. Jose, John Camilo
8. Lacuban, Michael
9. Luis, Jhobelle
10. Molina, Mark Jason
11. Pagulayan, Mark Steven
12. Salas, Jodalín

CSU Lallo Campus

BS AGRICULTURE

1. Agustin, Chinkee
2. Bitagun, Lolita
3. Dela Cruz, Rosemary
4. Lamug, Ryan
5. Sumer, Rose
6. Tolentino, Marlon

CSU Sanchez Mira Campus

BS AGRICULTURE

1. Rodriguez, Daniel
2. Malana, Jaypee
3. Ralustian, Norbert
4. Pedrona, Maria Violeta

NVSU Campus

BS AGRICULTURE

1. Hulay, Winnie
2. Lorenzo, Elson
3. Quinomes, Edwin, Jr.

QSU Campus

BS AGRICULTURE

1. Hawete, Brenda

Policy & PLANNING



Institutional & Stakeholders Analysis for PRDP



Conduct of Quarterly Performance Review



Regional Management Team (RMT) meeting with Secretary Proceso J. Alcala



Conduct of Trainings for planners and M&E officers



Advocacy in Mainstreaming Climate Change Mitigation in all agri-related plans



CSO Consultation and RMC Meeting

Official Website

For more updated news and information about the Department of Agriculture, Regional Field Office 02, you can visit us online at:

<http://rfu02.da.gov.ph>



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DA-RFU2 emerging as model regional unit

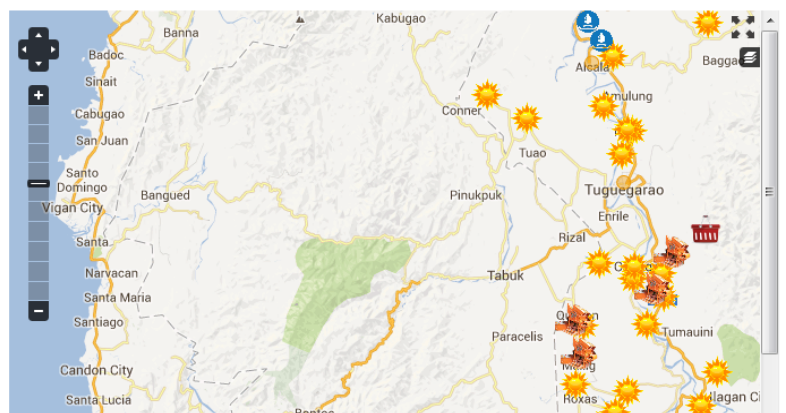
Created on 29 November 2012

Of all the regions in the Philippines, Region 2 or Cagayan Valley is one of those that are severely

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Department of Agriculture Accountability Network (DAAN) Region II



LFP-CASECNAN SOCIAL MEASURES PROJECT

Casecnan a fund established to compensate the constituents of Quirino Province for being the directly affected area by the Casecnan power and irrigation project. The objectives of such project is to (1) provide assistance to farmers and farming households in Quirino, (2) enhance farming systems and farm income through farming technologies, appropriate inputs and other support facilities, (3) improve the access and mobility in the transport of goods and services and (4) to provide post harvest facilities in order to promote good quality of farm products.

The main component of CASECNAN is the Quirino Livelihood for Everyone (Q-LIFE). Q-LiFE aims to provide additional Income to the beneficiaries thru Income Generating Projects, establish an Integrated System of Production, assure that the Interest – free investment of the Government shall be collected (Profitability & Sustainability) and conduct social preparation among recipients to further assure the success of the Program.

The target beneficiaries are the following: (1) The unemployed and underemployed Quirinians/residents of the Province.

(2) Those who can put up counterpart facilities. (3) Those accessible to Market Outlets and (4) Those who can be depended upon to deliver the goods.

A. LIVELIHOOD SUPPORT SERVICES

There were six projects assisted under the under the Q-LIFE program such as Poultry, Fish culture, Crop production, Small ruminant production, Hog production and

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municipalities of Quirino namely: Aglipay, Cabarroguis, Diffun, Maddela, Nagtipunan and Saguday with a total budget of Five Million Pesos (P5,000,000.00).

B. INFRASTRUCTURE AND OTHER POST HARVEST FACILITIES

FARM TO MARKET ROAD (FMR) is one among the prime project in order to Improve access and mobility of products, Link production areas to the Market Centers and enhance delivery of basic services. About 8.249 kilometers FMTR constructed in different sites within Quirino province.

Multi-Purpose Drying Pavement Projects (MPDP) is equally important project in order to maintain the good quality of harvested farm products which could also demand a better price on farm products. There about four (4)



solar dryers and thirteen (13) Multi-purpose drying pavement with multi-purpose building constructed and rehabilitated.



GAWAD SAKA

2012 National Awardees

Outstanding Fisherfolk (Fish Culture)

MR. FERDINAND B. MARI

Sta. Cruz, Alicia, Isabela

Reducing pressure to the environment type of technology is now a growing trend in most agricultural countries including the Philippines.



Introduction of viable technologies using organically manufactured-based products is one of the government's thrust and is being disseminated among farmers nationwide.

One such farmer who has complied with this endeavor is Engineer Ferdinand B. Mari in Alicia, Isabela.

The 48-year-old, civil engineer by profession cum fish farmer believes that the environment needed a break or rest to recover from over-utilization for agricultural/aquaculture purposes and allow it to rejuvenate and enrich the soil and enhance its productive capacity.

With his care for the environment in mind, this environmentalist at heart fish farmer believes that if we use God-given resource responsibly, the more benefit we can get from it.

He devised farming technologies that are designed as climate change adaptation strategy. This is through using organic-based fertilizers out from rejects and excess production of indigenous raw materials such as fruits, snails (kuhol) plants and turns these into fermented plant juice (FPJ), Fermented Fruit Juice, Fish Amino Acid (FAA), snail (kuhol) amino acid (KAA) and the like. He also uses semi-powdered rice grains (rejects from rice mills) in the production of Indigenous Micro-organism (IMO).

Engineer Mari saves about 30% on fertilizer cost using organic fertilizer since he uses fruits and vegetables, which are in season and that are available in his farm such as pa-

paya, cucumber, squash, banana (saba variety). He only buys raw materials to supplement lacking inputs in the preparation of liquid fertilizer.

Normally, he can acquire 12 liters of liquid mixture from the 10 kg of semi-powdered rice and 10 kg Molasses in the preparation of IMO. He only spends minimal expenses on this because raw materials come from the family owned rice mill. Most of his expenditures are out from buying molasses which fetches at Php12.00 pesos/kg. Generally, he can save much compared to the commercially available fertilizer that costs at about Php1,100.00 pesos/bag, aside from the benefits derived in using organic fertilizer such as it can keep the soil fertile and rejuvenate it into its productive capacity. Natural fertilizers also aid in the production of beneficial micro-organisms. Beneficial micro-organisms abound in the fertile organic rich soil that help both in the decomposition of organic materials and suppress control the spread and multiplication of pests and diseases.

Engr. Mari's experience in the preparation of organic fertilizer has gained popularity not only within his municipality but spans outside the province even tilapia growers in Cagayan visits his place and inquire on the composition of the liquid farm nourishment.

He also perfected the art of vermi composting where he now applies his own formula to improve quality of fertilizer. Engineer Mari now produces his own organic fertilizer additives to meet the 1,500 bags needed in his farm operation in just one cropping. One particular farm worker is assigned to just concentrate in the preparation of organic fertilizer and mastered this craft successfully.

Preparation of compost is made up of six layers of rice stalk, napier leaves, makabuhay leaves, kakawate, water lettuce and alternately fill them with pig waste, dried chicken and cow dung. Each layer is then sprayed with two liters of the liquid concoction which is a mixture of IMO, FFJ, and FPJ. By doing this, Engr. Mari observes that the mixture speeds up decomposition process which lasts within two months. End product of this is used as compost bed. Around 300 bags of processed compost are collected every processing period.

Produced natural soil nourishment additives are used in his rice farm and fish farms. He claims that clients noticed the

GAWAD SAKA

difference of tilapia produced in his farm, according to him fish taken from his ponds tastes better compared to other harvested tilapia within the municipality.

He also expanded his vermi compost production sites to augment the growing demand of organic fertilizers.

Engineer Mari never rested on his laurels, he quipped that he never stops in learning new things in the preparation of naturally produced fertilizers by constantly updating himself through reading agri-magazines and browse in the internet.

Growing Tilapia, a Lucrative Income

It was in 1999 when Engineer Mari and his family decided to venture in agricultural and fish farming in full scale. He juggles into supervising various business such as tilapia fingerling production and into grow-out.

Around 8.5 million fingerlings are produced annually in his tilapia hatchery farm in barangay Salvacion, Alicia, Isabela. It's a one hectare breeding facility that consists of 20 compartments measuring about 500 sq m each hole.

While his grow-out tilapia venture provides him considerable income every four months which is estimated to more than Php 700,000 and a Return of Investment of 110.65 % during the first cropping in CY 2011 was realized.

Having been in the fish farming business for almost 12 years, Engineer Mari is now enjoying the fruits of his hard labor. He was able to acquire farm facilities such as dump truck, backhoe and others out from his income generated from fish farming.

Equipped with business acumen and a calculated risk taker, Engineer Mari even pushes his luck in other entrepreneurial activities such as planting coconut trees and dragon fruits. He believes that he can make money out from these when they start to bear fruits in the future. Mari's attachment to nature made him realize that if only we work hard and know the right thing to do, farming can be a generous source of income compared to other form of business.

Giving Back

While his family's economic status soar higher, Engineer Mari's social responsibilities grow with it. His way of sharing their family's blessings is through hosting a get together activity every 23rd of December wherein his employees,

relatives and friends meet and mingle with them. Gift-giving acts is also being done during this event.

Engineer Mari's aspiration to give the best to his family is also manifested through sending them to prestigious schools in Manila where his wife and two kids presently resides. According to him, they are his inspiration in making their lives better.

Even most of his siblings are residing abroad; he opted to stay in his homeland to make a living out of the natural resources his family managed to acquire over the years of pure hard work and perseverance. He preferred to toil the soils and willing to dip his fingers in them for a living. He believes that taking good care of God-given resources, can reward us a thousand fold of blessings when we make use of its productive capacity responsibly.

Indeed, Engineer Ferdinand B. Mari, is a man of few words yet a true example of an accomplished farmer-entrepreneur in his own right and a real nature's steward at his best.

Outstanding Entrepreneur

LIGHTHOUSE COOPERATIVE

Tuguegarao City



An entrepreneurial spirit creates unlimited opportunities as it does not stop generating and developing innovative ideas that promote productivity. This holds thru for "Lighthouse Cooperative", this year's nominee for Most Outstanding Agri-Entrepreneur.

In the past, Tuguegarao City doesn't have a particular product to be proud of. The City, however, is known for its garlic-flavored longanisa (sausage) but it does not have any identity. The situation challenged the cooperative to come up with one great idea.

In September 2004, the cooperative sought the assistance of the Department of Agriculture Region 02 (DA-RFO-02) Livestock Division in meat processing particularly lon-

GAWAD SAKA

ganisa making.

This gave birth to the “CARNE YBANAG” with five (5) product lines to include “garlic longanisa”, “carabeef tapa”, “tocino nat”, “hamonado longanisa” and “spicy carabeef longanisa”.

As the CARNE YBANAG products are getting widely accepted in the market, processing and production activities were given important attention. In July 2006, the Department of Science and Technology (DOST) granted the Cooperative with a financial loan- a s s i s tance of about PhP 500,000.00 under the Small Enterprise Technology Upgrading Program (SET-UP).

Of the loaned amount, the coop was able to procure processing plant and equipment with bigger capacity. As a result, their meat products became more competitive and more importantly generated new jobs in the locality.

Very much concerned in improving the lives of the rural folks, the coop has started producing a chicharon made out of carabao hide (skin) under the brand name CHICHA-RABAO.

The CHICHA-RABAO which is now one of the value adding enterprises of the cooperative has a unique taste that captures the taste of consumers.

As the entrepreneurial business endeavor expands, the coop had entered into sub-contracting agreement with local producers as raw material buyer (focusing its intervention on product final formulation and packaging) and distributor of the village-people products called “Padday na Lima”. Such items include the DULCE YBANAG brand namely; Miss Kara Milk Candy and Tia Nani peanut which are products of the Rural Improvement Club (RIC) of Tuguegarao City.

All these products became market-driven and popular due to strong product promotion strategy initiated by the coop. Actually, CARNE and DULCE YBANAG products are always on display in various regional and national trade fairs and exhibits.

These marketing exposures had somehow generated new markets for products as demonstrated by the applications of new dealers from different parts of Manila and other areas. In fact, several consolidators are coming from Metro Manila and nearby cities now carry CARNE YBANAG

aside from regularly seeing them in local groceries and supermarkets of Cagayan valley.

To date, their new product CHICHA-RICA (rice and cassava crackers) that carries two (2) variants and CHICA-BANA (banana chips and bread) is becoming popular and acceptable. This has prompted the Coop’s management to purchase a 650 square meter lot and constructed a new building worth PhP2.0 million pesos, which now serves as their state-of-art food processing production center.

As the Coop is enjoying its many blessings in the field of agricultural food processing business, it also continue creating job and market opportunities to local carabaos and hog raisers, meat suppliers, peanut, rice, cassava and banana growers and local producers of other agri-products.

As part of its core values, it also committed to share some of its resources towards a community development services in the form of scholarship assistance program, livelihood training, medical and dental mission, values formation advocacy project, organic gardening, feeding program, youth leadership development program, and spiritual ministry among others.

The Cooperative, through their being restless in coming out with innovations had garnered numerous prestigious awards both in the regional and national levels like 2009 PRESIDENTIAL AWARD FOR OUTSTANDING SMALL AND MEDIUM ENTERPRISES (SME).

With these notable achievements, Lighthouse Cooperative is maintaining its strong linkage with various national government agencies, Local Government Units (LGUs), Peoples’ Organizations (POs), other partner institutions and above all, Almighty God, which makes them an agent of change not only economically and socially but spiritually. They do not stop competing, and here they are again as Region 02 nominee for Outstanding Agri-Entrepreneur for 2012.

Outstanding Small Farmer/Fisherfolk Organization

ABRASA MPC

Diffun, Quirino

In 1982, thirty five (35) employees of the Quirino Electric Cooperative (QUIRELCO) organized themselves by pooling their resources and deducting an amount from their meager salary. The idea was brought up to address their common problem of where to run when there is a need.



Through this scheme, funds were raised and the body decided to expand their operation to cater for their increasing living requirements. They put up a canteen but the operation was not so successful because the working committee lacks the skills and abilities needed in running the business. This became a setback that constrained them to let the operation be privately managed.

In 1971, a question on the association's lack of legal identity was raised and the body agreed to register it with the Securities and Exchange Commission. As a result, they were issued registration with the name QUIRELCO Employees Economic Development Association (QUEEDA).

Like any other entity, the organization experienced twists and turns but the obstacles encountered were resolved through the commitment and dedication of the officers and members. This led to the expansion of the business associated with the creation of a grocery store. The growth became noticeable and these convinced the Board of Directors to recognize the association and make it functional with the working principles of a regular cooperative.

The QUEEDA was then registered to the Cooperative Development Authority (CDA) in 1992 and named as QUIRELCO EMPLOYEES MULTI-PURPOSE COOPERATIVE INC.

With the sacrifices and patience showed by the officers and members, the operation boomed and catered to a wider membership coverage. The progress made them to ask financial assistance from the Department of Trade and Industry (DTI) subject to conditions that the cooperative

should have an open membership. The condition for an open membership made the cooperative change its name to ABRASA MULTI-PURPOSE COOPERATIVE, INC. The word ABRASA means in Ilocano term "shake or hold hands" or "embrace".

In 1994, the cooperative acquired a loan of Php2.0 million pesos from the DTI that eventually led to the hiring of full time employees. Later, an additional loan of Php1.0 million pesos was given by same agency.

The exceptional performance of the cooperative was given credit when they were adjudged as Outstanding Cooperative in Region II in 1996. Another award was given by the DTI for the hundred percent repayment of their loan amortization. Their good standing paved way to the outpouring of assistance from various lending institutions to struggled to find ways to explore other sources for the realization of the project. After four (4) years of rigid fund sourcing, the building was completed and inaugurated on December 2002.

A year later, the Abrasa MPC Agri-vet supply located at Public Market, Diffun, Quirino was opened to fulfill the needs of the farmer-members. The Member Savings Operation (MSO) was introduced to encourage thrift among members. These significant accomplishments of the ABRASA MPC are manifested by increased employment generation from two (2) to 32 full time employees and a total asset of Php73,584, 466.48.

Despite the stagnant economic environment, nitpicky weather condition felt throughout the region, the Abrasa MPC stood strong to serve the members with highest respect and commitment. As fruits of their hard labor and dedication, the cooperative was adjudged and recognized as one of the most respected and multi-awarded cooperatives in the country today.

These achievements have not been attained without the unparalleled dedication and selfless commitment of the management staff, the unselfish support of national agencies, political leaders and other institutions and the untiring support and cooperation among the members and officers in their quest for success and productivity.

GAWAD SAKA

CATEGORY	AWARDEE	ADDRESS
I. NATIONAL AWARDEES		
Outstanding Fisherfolk (Fish Culture)	Mr. Ferdinand B. Mari	Sta. Cruz, Alicia, Isabela
Outstanding Agri-Entrepreneur	Lighthouse Cooperative	Tuguegarao City, Cagayan
Outstanding Small Farmer/Fisherfolk Organi-	ABRASA MPC	Diffun, Quirino
II. REGIONAL AWARDEES		
Outstanding Corn Farmer	Mr. Dante D. Cayapan	San Antonio, Ilagan, Isabela
Outstanding Coconut Farmer	Mr. Edgardo T. Martin	Centro East, Ballesteros, Cagayan
Outstanding HVC Farmer	Mr. Simeon M. Felipe	Daligan, Jones, Isabela
Outstanding Small Animal Raiser	Mr. Rolando C. Mari	Saranay, Cabatuan, Isabela
Outstanding Large Animal Raiser	Mr. Ernesto E. Lagunte	Burgos, Cabarroguis, Quirino
Outstanding Fisherfolk (Fish Capture)	Mr. Rondel A. dela Cruz	Palauig, Sta. Ana, Cagayan
Outstanding Organic Agriculture Farmer	Mrs. Daisy A. Langenegger	Dagupan, Alicia, Isabela
Outstanding Agricultural Scientist	Dr. Eunice A. Layugan	CSU-Aparri, Cagayan
Outstanding Agricultural Researcher	Mrs. Rosemarie Aquino	DA-CVIARC, Ilagan, Isabela
Outstanding Young Farmer	Mr. Dexter B. Agnir	Claveria, Cagayan
Outstanding Young Farmer/Fisherfolk Organ- ization	Hilltop 4H Club	Gonzaga, Cagayan
Outstanding RIC	Mataas na Kahoy RIC	Mataas na Kahoy, Alicia, Isabela
Outstanding MAFC	MAFC Villaverde	Villaverde, Nueva Vizcaya
Outstanding PAFC	PAFC Cagayan	
Outstanding Barangay Food Terminal (NGO-	St. Joseph BFT	Belance, Dupax Norte, Nueva Vizcaya
Outstanding FARMC	FARMC Claveria	Claveria, Cagayan
Outstanding Farm Family	Valdez Family	Magrafil, Gonzaga, Cagayan



Milestones: The “Greening” in Progress

B.2. Regional & Provincial Facilities

Newly rehabilitated/renovated buildings and facilities funded from other sources.

Location	Total Project Cost
DA-RFO 02	151.659M
CVLMROS	11.36M
ASF	9.02M
CBS	3.23M
CVIARC	21.02M
SWMS	1.70M
IBS	17.81M
CVUPROS	9.40M
CVHILROS	12.21M
QUARANTINE	2.42M
CVIAROS	40.95M
Total Cost	280.78M

Regional Office—San Gabriel Compound

Completed the rehabilitation of the Operations and Engineering Building amounting to P14,489,492.39.



Completed the construction of the Regional Soils Laboratory Building amounting to P3,935,067.79.



Regional Office—San Gabriel Compound

Completed the rehabilitation of the Dupaya Building amounting to P6,579,792.



Completed the rehabilitation of the Agribusiness Enterprise & Development Center amounting to P6,954,097.56.



Regional Office—San Gabriel Compound

Completed the rehabilitation of the Archives Building amounting to P1,746,283.58.



Completed construction of the Multi-Purpose Gymnasium (Phase 1) amounting to P3,935,067.79.
On-going construction of Phase 2 amounting to P3,963,123.80 with 15% completed.



Regional Office—San Gabriel Compound

On-going rehabilitation of the DA-RFO 2 Main Building (Phase 1) amounting to P2,090,363.91.
Phase 2 amounts to P1,767,909.50 & Phase 3 amounts to P6,145,317.89.



On-going construction of the Livestock Building to House the Research and Regulatory Division amounting to P9,583,507.75 (Phase 1 & 2) and P1,480,829.76 (Phase 3).



Regional Office—San Gabriel Compound

On-going rehabilitation of the DA RFO 2 Dormitory & Day Care Center amounting to P6,882,048.91.



Regional Office—Carig Compound

Completed the construction of the Agribusiness Dormitory amounting to P1,066,000.00.



On-going improvement of the Agribusiness Training Center (Phase 1) amounting to P2,630,850.24. Phase 2 amounts to P790,857.53.



Regional Office—Carig Compound

On-going construction of the Integrated Laboratory Building (Phase 1) amounting to P36,452,827.02. Phase 2 & 3 will follow amounting to P34,031,990.54.



On-going construction of the Regional Food Technology Development & Incubation Center amounting to P7,544,230.73.



Provincial Facilities—CAGAYAN

1. CAGAYAN VALLEY LOWLAND AND MARINE RESEARCH OUTREACH STATION (CVLMROS) - Iguig, Cagayan

Completed the rehabilitation of the Phase 1 of the Training Hall & Farmers Training Center amounting to P3,657,745.18. On-going rehabilitation of Phase 2 amounting to P2,413,191.65.



On-going rehabilitation of the Multi Purpose Building amounting to P5,291,398.68.



Provincial Facilities—CAGAYAN

2. ABULUG SEED FARM (ASF) - Abulug, Cagayan

Completed construction and rehabilitation of two (2) Cottages amounting to P1,362,000.00 for cottage 1, and P638,783.64 for cottage 2.



Provincial Facilities—CAGAYAN

2. ABULUG SEED FARM (ASF) - Abulug, Cagayan

On-going rehabilitation of the Seed Storage Building amounting to P498,645.01.



On-going rehabilitation of the Seed Processing Building amounting to P1,276,047.08.



Provincial Facilities—CAGAYAN

2. ABULUG SEED FARM (ASF) - Abulug, Cagayan

On-going construction of the Rice Warehouse amounting to P5,047,180.56.



On-going construction of the Corn Warehouse amounting to P2,840,073.96.



Provincial Facilities—CAGAYAN

3. CAGAYAN BEEDING STATION (CBS) - Solana, Cagayan

Completed the construction of Water Tank amounting to P602,358.93



Completed the construction of Farm-to-Market road amounting to P2,282,316.00



Provincial Facilities—CAGAYAN

3. CAGAYAN BEEDING STATION (CBS) - Solana, Cagayan

Completed the construction of the Road Network amounting to P345,950



Provincial Facilities—ISABELA

1. CAGAYAN VALLEY INTEGRATED AGRICULTURAL RESEARCH CENTER (CVIARC) - Ilagan, Isabela

Completed the rehabilitation of the Seed Cold Storage Building amounting to P4,200,000.00



Completed the rehabilitation of the Research Working Shed Building amounting to P4,000,000.00



Provincial Facilities—ISABELA

1. CAGAYAN VALLEY INTEGRATED AGRICULTURAL RESEARCH CENTER (CVIARC) - Ilagan, Isabela

Completed the construction of the HVCDP Building and Laboratory amounting to P1,570,429.58



Provincial Facilities—ISABELA

1. CAGAYAN VALLEY INTEGRATED AGRICULTURAL RESEARCH CENTER (CVIARC) - Ilagan, Isabela

Completed the rehabilitation of the Bio-Organic Fertilizer Processing and Packaging Shed amounting to P1,500,000.00



Completed the rehabilitation/improvement of the Agribusiness Store/Multi-Purpose Clients-Stop Shop of Organic Agriculture Products Building amounting to P1,485,000.00



Provincial Facilities—ISABELA

1. CAGAYAN VALLEY INTEGRATED AGRICULTURAL RESEARCH CENTER (CVIARC) - Ilagan, Isabela

On-going rehabilitation of the Guest House No. 01 amounting to P2,707,350.51



On-going rehabilitation of the One Unit Staff House amounting to P5,559,344.05



Provincial Facilities—ISABELA

2. SOIL AND WATER MANAGEMENT STATION (SWMS) - Ilagan, Isabela

Completed the rehabilitation of the office building of the Soil and Water Management Station amounting to P1,698,900.00



Provincial Facilities—ISABELA

3. Isabela Breeding Station (IBS) - Gamu, Isabela

Completed the rehabilitation of the Perimeter Fence amounting to P2,297,487.28



On-going rehabilitation of the Dormitory Building amounting to P7,140,485.40 (Phase 1) and P1,033,633.88 (Phase 2).



On-going construction of the Warehouse amounting to P7,341,713.16



Provincial Facilities—QUIRINO

1. CAGAYAN VALLEY UPLAND RESEARCH OUTREACH STATION (CVUPROS)- Aglipay, Quirino

On-going rehabilitation of the Guest House 2 amounting to P3,801,569.42



On-going construction of the Warehouse amounting to P1,839,945.93



Provincial Facilities—QUIRINO

1. CAGAYAN VALLEY UPLAND RESEARCH OUTREACH STATION (CVUPROS) - Aglipay, Quirino

On-going rehabilitation of the Training Hall amounting to P3,756,918.00.



Provincial Facilities—N. VIZCAYA

1. CAGAYAN VALLEY HILLYLAND OUTREACH STATION (CVHILROS) - Bagabag, Nueva Vizcaya

Completed the rehabilitation of the Fruit Processing & Packaging Building amounting to P3,518,039.88



On-going rehabilitation of the Multi-Purpose Building amounting to P6,855,204.44.



Provincial Facilities—N. VIZCAYA

1. CAGAYAN VALLEY HILLYLAND OUTREACH STATION (CVHILROS) - Bagabag, Nueva Vizcaya

On-going construction of Warehouse amounting to P1,839,945.93.



Provincial Facilities—N. VIZCAYA

2. QUARANTINE OFFICE BUILDING - Sta. Fe, Nueva Vizcaya

On-going construction of the Quarantine Office Building amounting to P1,630,000.00 (Phase 1) and P789,647.04 (Phase 2).



Provincial Facilities—BATANES

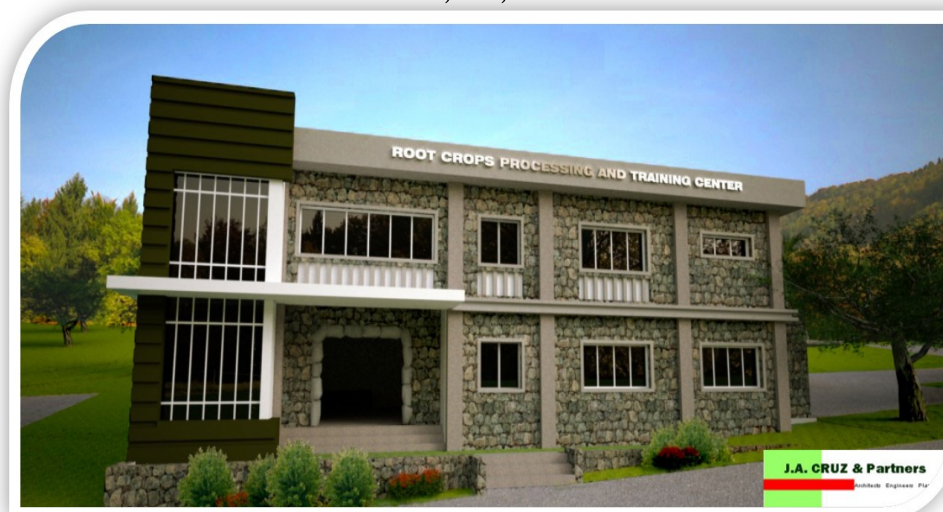
1. CAGAYAN VALLEY ISLAND AGRICULTURE OUTREACH STATION (CVIAROS) - Basco, Batanes

On-going rehabilitation of the Seed Storage and Integrated Laboratory Building amounting to P8,100,000.00.

On-going construction of the Research & Development and Extension/Multi-Purpose Building amounting to P12,783,865.92



On-going construction of the Root Crops Processing & Training Center amounting to P20,066,363.67.



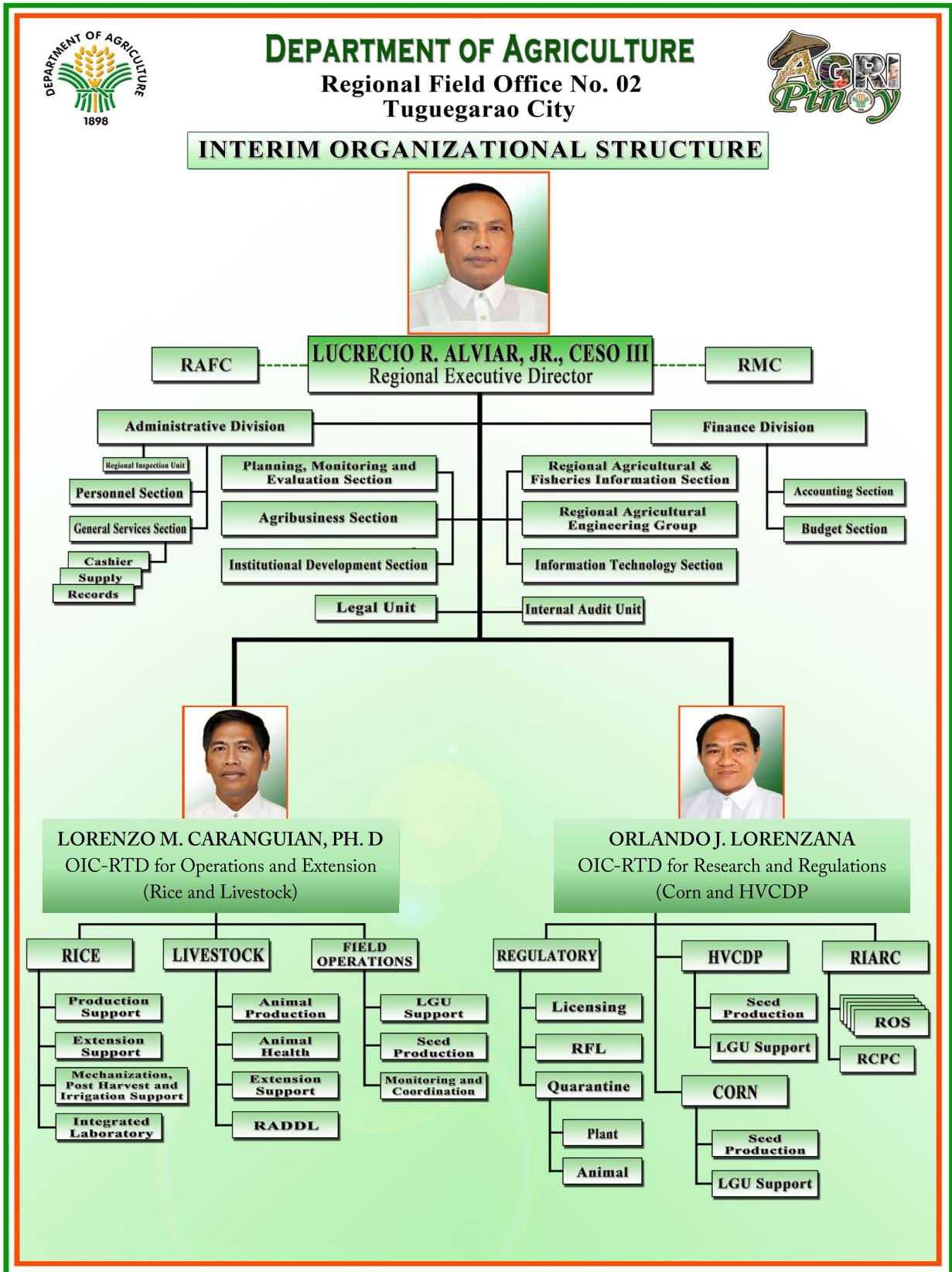
Milestones: The “Greening” in Progress

B.3. Human Resources



Photo By: Dickstein U

Organizational Structure



Staff & Personnel

Operating Units/Division	Permanent	Contractual	Total
Office of the Regional Executive Director	35	34	69
Administrative Division	25	32	57
Finance Division	12	14	26
Operation Division	60	114	174
Regulatory Division	22	31	53
Research Division	16		16
Research Outreach Stations & Satellite Sta-			
Cagayan Valley Lowland and Marine Re-	27	37	64
Abulug Seed Farm (ASF)	21	10	31
Cagayan Breeding Station (CBS)	7	9	16
Cagayan Valley Integrated Agricultural Re-	11	32	43
Regional Crop Protection Center (RCPC)	11	9	20
Soil and Water Management Station	7	7	14
Isabela Breeding Station (IBS)	8	8	16
Cagayan Valley Hillyland Agriculture Re-	8	25	33
Cagayan Valley Upland Agriculture Research	11	27	38
Cagayan Valley Island Agriculture Research	5	18	23
Total	289	407	696



KEY OFFICIALS

DIR. LUCRECIO R. ALVIAR, JR., CESO III

Regional Executive Director

MS. JOSEPHINE R. TULIAO

Chief, Personnel Section

DIR. ORLANDO J. LORENZANA

OIC-Regional Technical Director for Research and Regulatory
& Regional CORN Program Coordinator

MS. VIVIEN DELOS SANTOS

Chief-Agribusiness and Marketing Assistance Division

DIR. LORENZO M. CARANGUIAN

OIC-Regional Technical Director for Operations and Extension

MS. ROSEMARIE MARTIN

Chief, Institutional Development (ID) Section

MR. JOSELYN BOSITO

OIC-Chief Administrative Officer/General Services

Administrative Division

MS. EDERLINDA A. MARIANO

Chief, Budget Section

MR. JAIME M. PAGALILAUAN

Chief, Finance Division

MR. BONIFACIO TUGADE

Chief, Accounting Section

DR. GERONIMA G. LUDAN

Chief, Livestock Division

ENGR. RESTITUTO SAMATRA

Chief, Regional Agriculture and Engineering Group (RAEG)

MR. ROBERT B. OLINARES

OIC Chief, Research Division & Regional High Value Crops
Development Program (HVCDP) Coordinator

MS. MARGARET C. AGUINALDO

Head, Regional Soil's Laboratory

DR. ERNESTO GUZMAN

OIC-Chief, Operations Division

DR. ZALDY A. OLIVAS

Chief, Regional Quarantine Section

MR. HECTOR TABBUN

OIC-Chief, Agricultural Communication (AgCom) Section

MS. BETTY BANGAYAN

Chief, Records Unit

MS. KAY S. OLIVAS

OIC-Chief, Planning, Monitoring and Evaluation Division

ENGR. RUBEN CUBERO

Chief, Supply Section

MS. ERMA BARIUAN

Cashier

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Basco, Batanes

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DEPARTMENT OF AGRICULTURE

Regional Field Office No. 02
Tuguegarao City, Cagayan



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