



# ANNUAL REPORT 2016

Department of Agriculture  
Regional Field Office I



# Mandate

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

# 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.

# 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.

# FOREWORD

As we culminate a year that bannered great mileposts the agriculture sector has achieved, witnessed natural disasters, and overlaid with inspiring stories of support from different stakeholders, partners and colleagues in the realm of agriculture, most particularly our beloved farmers, it has been a prodigious and heartwarming moment for all of us in the Department of Agriculture Regional Field Office I.

Despite the difficulties on the domestic front and the uncertainties in the global economy, we remained resilient and concentrated on ensuring that we are treading the right path towards inclusive growth. For one, the Ilocos Region sustained its rank as the 3<sup>rd</sup> major rice producing region in the country with a sufficiency level of 176%, which is way more than sufficient to cater the population's requirement in the region. The region has been a consistent major producer of the country's best quality corn grains and sustained its rank as the 5<sup>th</sup> corn producing in the region.

We are likewise confident that this robust growth will continue next year as we carry on the projects and programs that will deliver the needed advancement of the agricultural sector, which we are all in the Department are desiring of, and fire up new advantages that will lead our fellowmen here in the Ilocos Region to recovery of the losses brought about by destructive typhoons.

And while we are all normally confronted with difficulties in the implementation of all our programs and projects, these, ultimately, remind us that we need to go beyond the success and growth we have achieved. We need to work even harder to safeguard that our gains are vigorous enough to overcome threats and perils, especially those that imperil the livelihood and sources of growth of our dear farmers.

I then call on each and everyone involved in the achievement of our sworn objectives to remain resolute and supportive of all our causes and endeavors for the success of this agency will reflect not only to us but, ultimately, will transcend to our unsung heroes- our beloved farmers and their families.

Thank you and I hope for the unrelenting feat of all our goals and objectives towards countryside development.



**VALENTINO C. PERDIDO, Ph.D.**  
*Regional Executive Director  
DA-RFO 1*

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# **Part I.**

# **Agriculture Sector Outputs and Outcomes**

## GROSS REGIONAL DOMESTIC PRODUCT (GRDP)

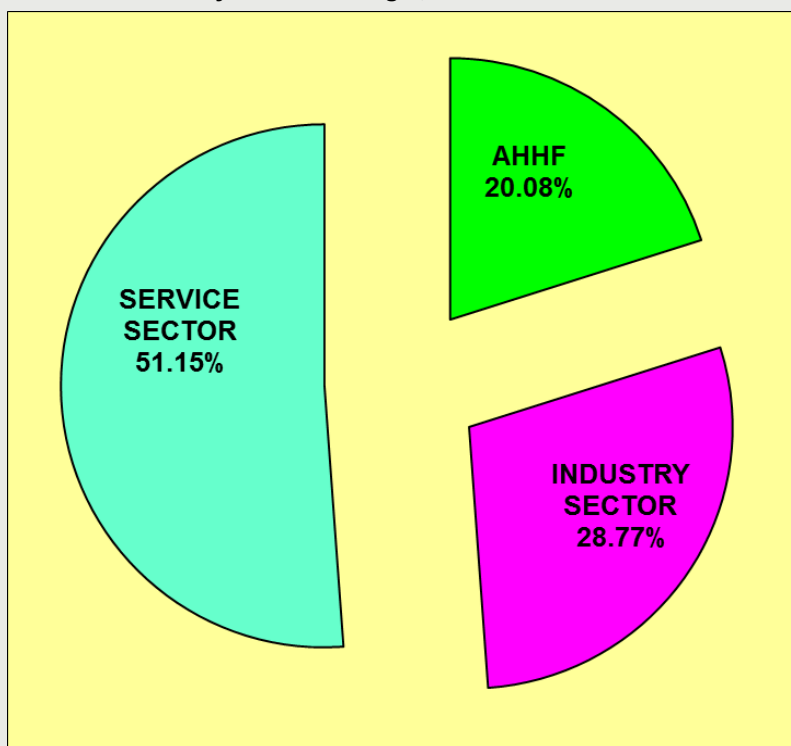
At constant 2000 prices, Ilocos Region's Agriculture, Hunting, Forestry and Fishing (AHFF) sector output in 2016 was valued at PhP51.58 Billion as shown in **Table 1**. This value, contributing 20.08 percent to the total regional output at PhP257.21 Billion (**Figure 1**), is lower by 1.8 percent than the 2015 output of PhP52.50 Billion.

For the Agriculture and Forestry, value of output declined by 1.6 percent from PhP42.01 Billion in 2015 to PhP41.36 Billion in 2016. The decline was mainly attributed to the negative output in mango, peanut, ampalaya and other high value crops caused by drought and typhoons in 2016. However, output of rice and corn, being the major commodities in the region, increased this year.

Fishing also recorded a decline of 2.6 percent in 2016 as compared to its level in 2015 at PhP 10.49 Billion.

The Services sector contributed the largest share in the region's output at 51.2 percent. The sector accelerated

**Figure 1. Percent Distribution, at Constant 2000 Prices GRDP by Industrial Origin, CY 2016**



Source: PSA

from 7.1 percent in 2015 to 8.0 percent in 2016 attaining a total value of PhP131.58 Billion.

The performance of the Industry sector, with 28.77 percent share to the regional output, accelerated by 17.9 percent in 2015 to 17.9 percent in 2016. It recorded a total value of output of PhP74.04 Billion in 2016.

**Table 1. Gross Regional Domestic Product (GRDP) by Industrial Origin, Ilocos Region, In Thousand Pesos, At Constant 2000 Prices, 2014-2016**

Industry	2014	2015	2016	GR (%) 14-15	GR (%) 15-16
Agriculture, Hunting, Forestry and Fishing	53,159,804	52,503,471	51,580,507	(1.2)	(1.8)
a. Agriculture and Forestry	41,839,678	42,013,392	41,359,285	0.4	(1.6)
b. Fishing	11,320,126	10,490,079	10,221,222	(7.3)	(2.6)
Industry Sector	58,035,017	62,829,182	74,045,332	8.3	17.9
Service Sector	113,754,353	121,846,102	131,582,282	7.1	8.0
<b>Gross Domestic Product</b>	<b>224,949,174</b>	<b>237,178,755</b>	<b>257,208,121</b>	<b>5.4</b>	<b>8.4</b>

Source: Philippine Statistics Authority (PSA)

## COMMODITY PERFORMANCE

### PALAY



Ilocos Region's palay production increased by 1.58% from 1,777,121 metric tons or an incremental production of 28,005 metric tons to 1,805,126 metric tons in 2016 as shown in **Table 2**. The region ranked as the 3<sup>rd</sup> rice producing region in the country contributing 10.48% to the national rice production of more than 17.63 million metric tons .

The increase in production was attributed to the 1.40% increment in yield per hectare from 4.30 metric tons in 2015 to 4.37 metric tons in 2016. This year's yield surpassed the highest yield ever recorded in the region at 4.36 metric tons in 2014.

The increase in yield was due to the constructed/rehabilitated Small-Scale Irrigation Projects

(SSIP) and utilization of high quality and hybrid and inbred palay seeds.

By provincial distribution, Pangasinan is still the major producer of rice in the region with a production of 1,110,565 metric tons. Ilocos Norte, with a production of 309,488 metric tons is the second top rice-producing province. However, the province posted negative growth of 1.15%. Ilocos Sur also posted negative growth of 0.55% due to production losses brought about by Super Typhoon Lawin in Northern Luzon where rice plantings at reproductive and maturity stages were damaged. Nevertheless, Ilocos Norte still exhibited the highest yield at 4.73 metric tons per hectare among the provinces. La Union recorded positive growth in production, area harvested and yield during the period.

**Table 2. Palay production, area and yield, Ilocos Region, CY 2015-2016**

Province	Production (MT)			Area (Ha)			Yield (MT/Ha)		
	2015	2016	% GR	2015	2016	% GR	2015	2016	% GR
Pangasinan	1,081,157	1,110,565	2.72	260,087	260,639	0.21	4.16	4.26	2.50
La Union	172,000	175,354	1.95	38,255	38,304	0.13	4.50	4.58	1.82
Ilocos Sur	210,875	209,719	(0.55)	48,361	47,860	(1.04)	4.36	4.38	0.49
Ilocos Norte	313,089	309,488	(1.15)	66,233	65,832	(0.61)	4.73	4.70	(0.55)
Region	1,777,121	1,805,126	1.58	412,936	412,635	(0.07)	4.30	4.37	1.65

Source: PSA

## CORN AND CASSAVA

**Table 3. Corn production, area and yield, Ilocos Region, CY 2015-2016**

Province	Production (MT)			Area (Ha)			Yield (MT/Ha)		
	2015	2016	% GR	2015	2016	% GR	2015	2016	% GR
Pangasinan	319,118	331,191	3.78	54,311	56,343	3.74	5.88	5.88	0.04
La Union	32,216	31,644	(1.78)	6,563	6,261	(4.60)	4.91	5.05	2.96
Ilocos Sur	78,711	83,765	6.42	14,704	15,233	3.60	5.35	5.50	2.73
Ilocos Norte	60,898	61,424	0.86	12,030	11,932	(0.81)	5.06	5.15	1.69
Region	490,943	508,024	3.48	87,608	89,769	2.47	5.60	5.66	0.99

Source: PSA

Region I continued to be one of the major contributors of corn supply in the country. **Table 3** shows that corn production in the region reached 508,024 metric tons which is higher by 3.48% than last year's recorded production of 490,943 metric tons. The region shared 6.99% to the national aggregate production of 7.22 Million metric tons, maintaining its rank as the 5th corn producing region in the country. Ilocos Region is still a consistent major producer of the country's best quality corn grains.

All provinces posted positive growth in production except La Union with a reduction 1.78% because the area harvested decreased due to crop shifting to other crops. The over-all increase in production was attributed to the increased in area harvested

and yield as a result of the utilization of high yielding seed varieties coupled with the adoption of improved technologies and efficient farm production machineries and equipment.

In terms of area harvested, the region grew by 2.47% or 2,161 hectares from 87,769 hectares in 2015.

Yield per hectare in corn gained 0.99% from the average of 5.60 metric tons in 2015 to 5.66 metric tons in 2016. This year's level recorded the highest yield ever in the region, and still the top yielder among the regions in the country. All provinces exhibited positive growth in yield during the year.

**Table 4. Cassava production, area and yield, Ilocos Region, CY 2015-2016**

Province	Production (MT)			Area (Ha)			Yield (MT/Ha)		
	2015	2016	% GR	2015	2016	% GR	2015	2016	% GR
Pangasinan	10,274	10,337	0.61	1,155	1,162	0.61	8.90	8.90	0.01
La Union	2,608	2,879	10.39	233	240	3.00	11.19	12.00	7.17
Ilocos Sur	1,419	1,373	(3.24)	125	122	(2.40)	11.35	11.25	(0.86)
Ilocos Norte	2,938	3,030	3.13	403	406	0.74	7.29	7.46	2.37
Region	17,239	17,619	2.20	1,916	1,930	0.73	9.00	9.13	1.46

Source: PSA

**Table 4** shows that cassava production in the region grew by 2.20% or 380 metric tons from 17,239 metric tons in 2015. Area harvested also posted slight increase of 0.73% or additional 24 hectares from 2015's level.

Also, yield per hectare of cassava in Ilocos Region grew by 1.46 %. The positive growth was

attributed to the continued advocacy of the Corn Banner Program for cassava production in the region.

Among the provinces, La Union exhibited the highest increase. Only Ilocos Sur recorded negative growth in cassava production, area harvested and yield per hectare.



## HIGH VALUE CROPS

For the high value crops, Ilocos Region is still the leading producer of mango, garlic, tomato, eggplant, peanut and mungbean in the country.

For 2016, production of priority high value crops in Region I dipped to 870,670 metric tons, reflecting a decrease of 106,859 metric tons or 10.93% from the 977,529 metric tons output in 2015 as shown in **Table 5**. The decrease in the overall production was ascribed to the adverse effects of different typhoons that occurred in the region in 2016.

The priority crops include mango, *pinakbet* vegetables, onion, garlic, peanut and mungbean.

Among the priority crops, only eggplant and mungbean exhibited positive growth in production and yield per hectare. Garlic recorded the largest decrease in production at 38.21% from 7,263 metric tons in 2015 to 4,488 metric tons in 2016.

Mango, the major fruit crop in Region I, went down by 19.33% or 50,158 metric tons from 259,533 metric tons produced in 2015. The region, however, is still the top producer of mango in the country.

**Table 5. Priority high value crops production, area and yield, Ilocos Region, CY 2015-2016**

Commodity	Production (MT)			Area (Ha)			Yield (Mt/Ha)		
	2015	2016	% GR	2015	2016	% GR	2015	2016	% GR
Mango	259,533	209,375	(19.33)	22,264	21,856	(1.83)	11.66	9.58	(17.82)
Tomato	72,484	68,761	(5.14)	3,827	3,789	(0.99)	18.94	18.15	(4.18)
Eggplant	81,942	87,223	6.44	5,037	5,112	1.49	16.27	17.06	4.88
Ampalaya	9,992	9,622	(3.70)	1,215	1,214	(0.09)	8.22	7.93	(3.62)
Onion	40,049	38,470	(3.94)	4,601	4,401	(4.35)	8.70	8.74	0.42
Garlic	7,263	4,488	(38.21)	2,075	2,014	(2.94)	3.50	2.23	(36.34)
Peanut	11,564	11,211	(3.05)	7,508	7,356	(2.02)	1.54	1.52	(1.05)
Mungbean	11,875	12,369	4.16	9,858	9,837	(0.21)	1.20	1.26	4.38
<b>Region</b>	<b>977,529</b>	<b>870,670</b>	<b>(10.93)</b>	<b>102,912</b>	<b>101,321</b>	<b>(1.55)</b>	<b>309</b>	<b>297</b>	<b>(3.77)</b>

Source: PSA

## LIVESTOCK

Production of livestock and poultry recorded a total of 231,415 metric tons in 2016, reflecting a slight decrease of 0.79% from 233,256 metric tons in 2015 as shown in **Table 6**. Among the livestock commodities, only hog posted a positive growth exhibiting an increase of 4.62% from 82,731 metric tons in 2015 to 86,553 metric tons in 2016.

Carabao, cattle and goat, including chicken, duck and egg production showed negative growth rates during the year. The reduction was due to the low number of stocks for disposition, some of which are not of marketable age yet. There were also more deaths and losses due to typhoons in the region during the year.

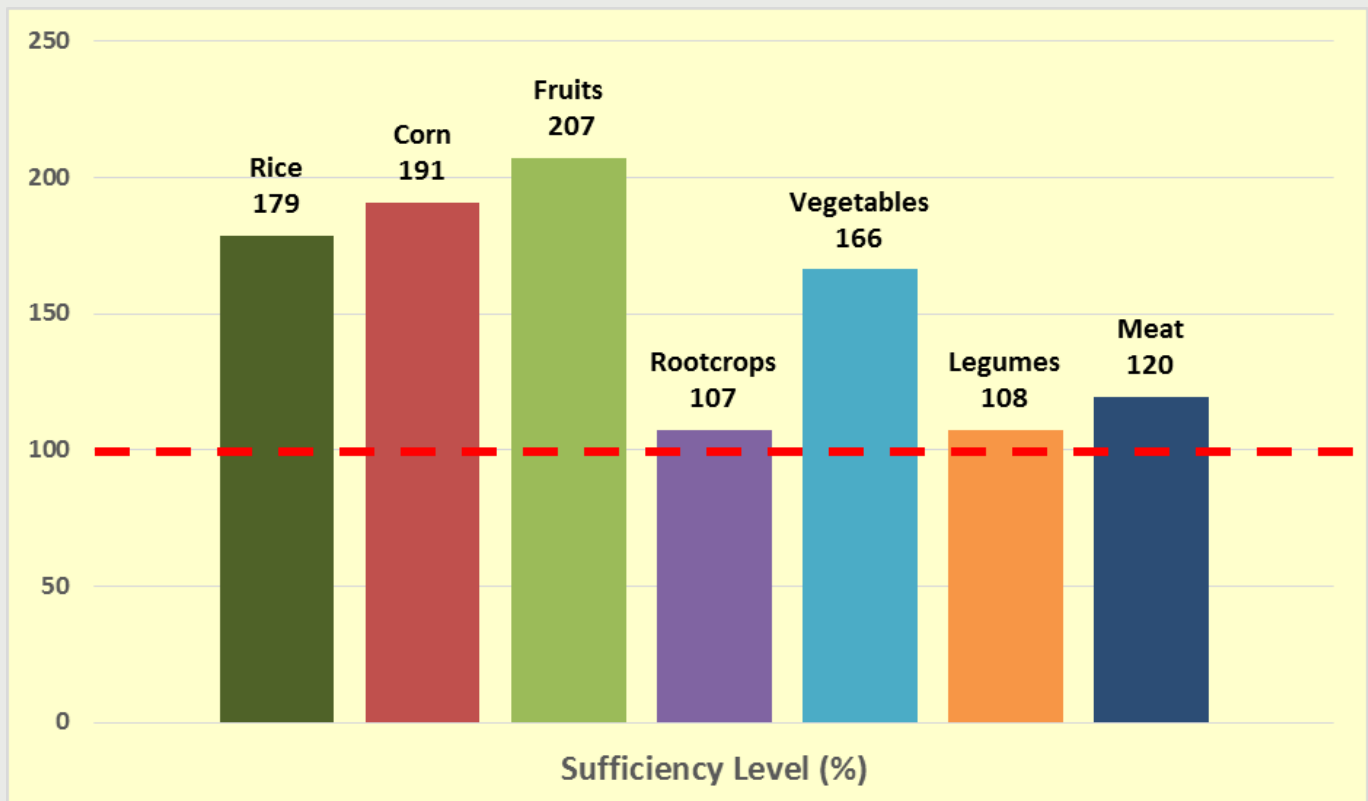
**Table 6. Livestock and poultry production, Ilocos Region, CY 2015-2016**

Commodity	Production (MT)		
	2015	2016	% GR
<b>Livestock</b>			
Carabao	10,674	10,298	(3.52)
Cattle	28,346	27,767	(2.04)
Hog	82,731	86,553	4.62
Goat	10,977	10,666	(2.83)
<b>Poultry</b>			
Chicken	82,829	78,761	(4.91)
Duck	2,078	1,983	(4.57)
Chicken Eggs	14,087	14,081	(0.04)
Duck Eggs	1,534	1,306	(14.86)
<b>Total</b>	<b>233,256</b>	<b>231,415</b>	<b>(0.79)</b>

Source: PSA

## FOOD SUFFICIENCY LEVEL

Figure 2. Food sufficiency level of food commodities, Ilocos Region, CY 2016



Source: DA-RFO I (computation is based on PSA production data)

Figure 2 shows that Region 1 attained a more than sufficient level in all major food commodities.

Rice has a production surplus of 711,015 metric tons to cater more than 5.0 million populace in the region with registered 179% sufficiency level. Corn, which has also a surplus in production necessary to meet the requirement of human and livestock consumption, attained a 191% sufficiency

level.

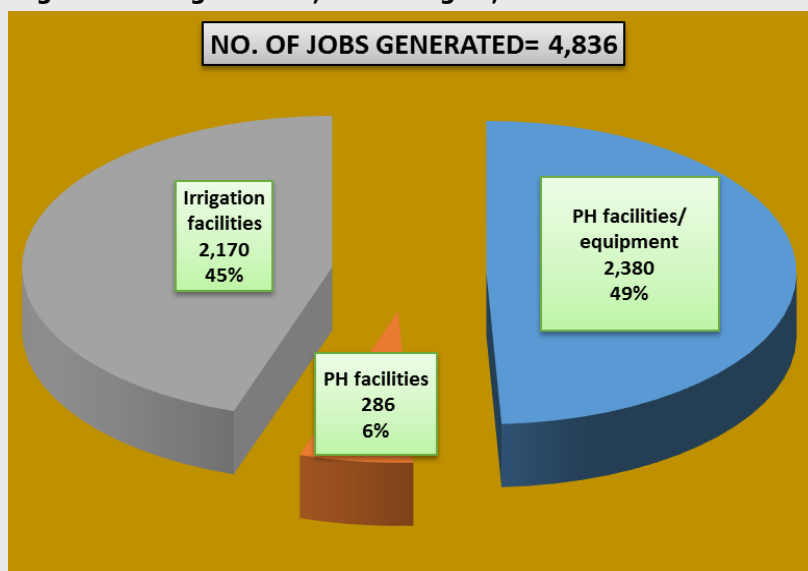
There were also surpluses in the production of fruits, vegetables, legumes and rootcrops with sufficiency levels of 207%, 166%, 108% and 107%, respectively.

Likewise, meat production has still an excess supply with sufficiency level of 120% this year.

## JOBS GENERATED

The agriculture sector generated a total of 4,836 jobs this year as shown in Figure 2. Post harvest facilities and equipment, such as tractors, threshers, combine harvesters, among others, contributed a total share of 49% or 2,380 jobs. Construction and rehabilitation of small-scale irrigation projects, i.e. Small Water Impounding Projects (SWIP) and Diversion Dams (DD) generated 2,170 jobs or 45% share. The remaining 6%, which generated 286 jobs, was contributed by the post harvest facilities such as Rice Processing Centers (RPC).

Figure 3. Jobs generated, Ilocos Region, CY 2016



# OUTPUT COMMITMENTS

Figure 4. Output Commitments of DA-RFO I, CY 2016

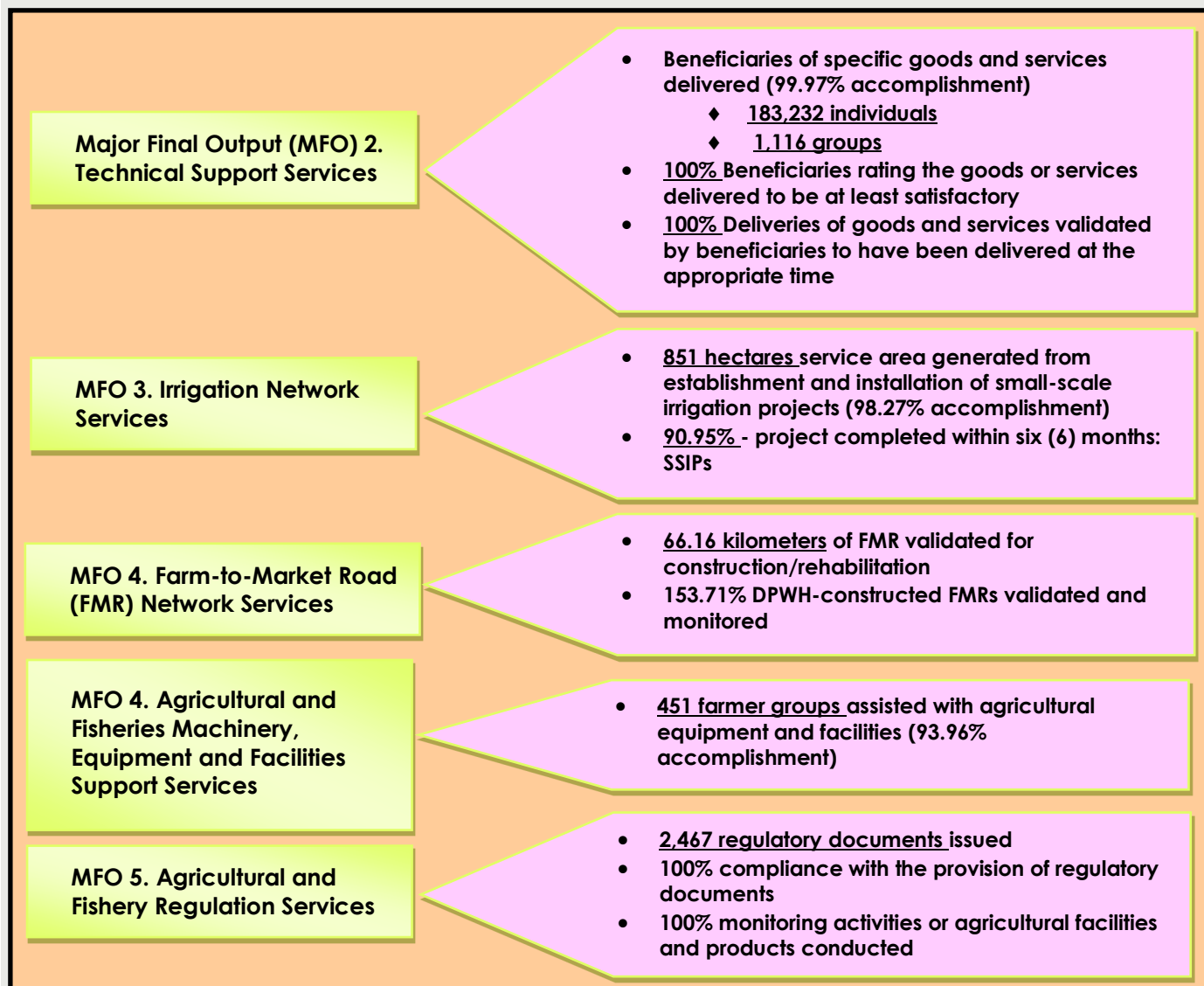


Figure 4 shows the 2016 commitments by Major Final Output (MFO) of DA RFO-I as results of the various interventions/projects implemented/provided by the Banner and Regular Programs in the region.

A total of 183,232 individuals and 1,116 groups were benefited from the various goods and services delivered under the MFO 2—Technical Support Services. Likewise, a total of 451 farmer-groups were benefited with different agricultural equipment and facilities.

Under the Irrigation Network Services, 851 hectares service area were generated from the establishment and installation of SSIPs.

A total of 66.16 kilometers of FMR projects were validated for construction. Also, 2,467 regulatory documents were issued under the MFO- Agricultural and Fishery Regulation Services.

Meanwhile, the Registry System for Basic Sectors in Agriculture (RSBSA) recorded a total of 708,327 farmer-beneficiaries in Ilocos Region from 2011 to 2015, broken down by province as follows:

Province	No. of Farmer-Beneficiaries
Ilocos Norte	100,651
Ilocos Sur	149,900
La Union	109,630
Pangasinan	348,146
<b>Region</b>	<b>708,327</b>

Source: RSBSA, 2015

# **Part II.**

# **BANNER AND REGULAR PROGRAMS: ACCOMPLISHMENTS**

# RICE BANNER PROGRAM

## Technical Support Services

### Production Support Services

One of the strategies that enhanced rice productivity and attained rice sufficiency in the region is through the use of quality and high yielding hybrid rice seeds coupled with the application of yield-boosting technologies. This year, the Rice Banner Program distributed a total of 905,430 kilograms of hybrid seeds under the High Yielding Technology Adoption (HYTA) Project benefiting 61,365 rice farmers. These seeds were provided to the farmer associations/cooperatives and distributed to farmer-members through a plant now pay later scheme where production will be rolled-over for the succeeding cropping seasons for sustainability.

Likewise, the Program distributed a total of 480,000 kilograms of high quality Certified Seeds (CS) to 23,500 farmer-beneficiaries to mitigate the adverse effect of climate change.

In response to disasters, the Program facilitated seed buffer stocking to ensure the availability of high quality rice seeds that can be accessed by farmers/growers to recoup their production losses and recover farm productivity. In 2016, a total of 1,984,680 kilograms of rice seeds were procured as buffer stocks for farmers affected by drought and typhoons, particularly typhoons “*Karen and Lawin*”, including continuous rains enhanced by “*Habagat*” during the second semester in the

region.

In partnership with the Food and Agriculture Organization (FAO), the Department provided climate-smart lines of rice, a drought, saline and submergence-tolerant varieties – the Green Super Rice (GSR). This year, a total of 7,760 kilograms of GSR were procured and distributed to farmers.

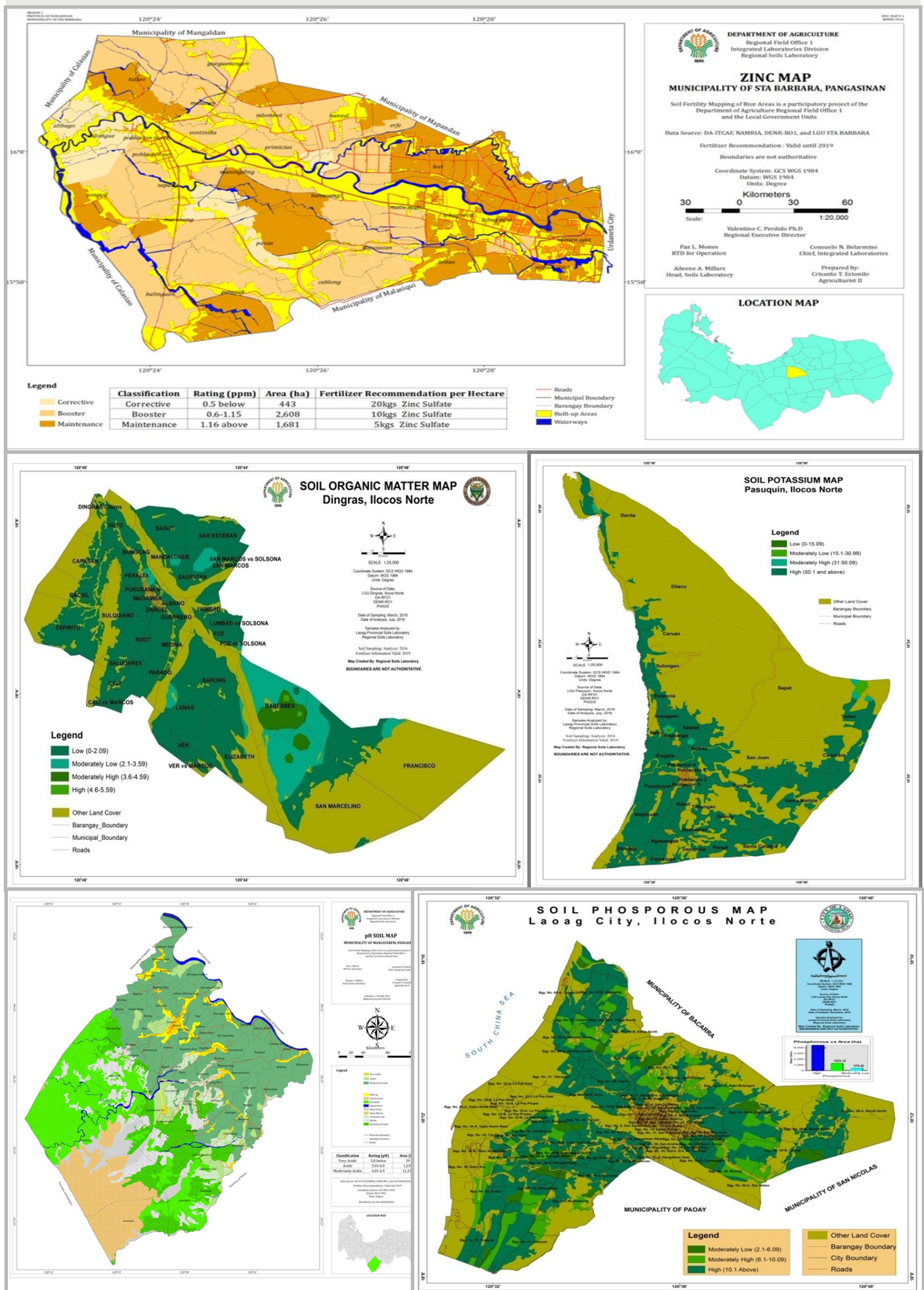
In support to the Soil Fertility Assessment and Mapping of rice areas in Region 1, the Regional Soils Laboratory analysed a total of 5,990 soil samples covering 171,559 ha under the irrigated and rainfed rice areas. This provided extension workers and farmers with information on soil nutrient status and the corresponding fertilizer recommendations when applied to specific crops in their respective areas.

Based on the results of soil analyses conducted, soil fertility maps were generated covering 20 and 19 cities/municipalities in Pangasinan and Ilocos Norte, respectively. The soil fertility maps, comprised of color-coded indicators for Organic Matter (OM), Phosphorus (P), Potassium (K), potential of hydrogen (pH), Zinc (Zn), and a fertilizer guide maps. Samples of maps generated are shown in **Figure 5**.



Staffs of the Regional Soils Laboratory performing (a) Zinc Assay using Atomic Absorption Spectrophotometer and (b) Extraction & Filtration of soil samples prior to analysis

**Figure 5. Samples of soil fertility maps generated from rice areas in Region 1**



## Extension Support, Education and Training Services

The Rice Banner Program implemented various Extension Support, Education, and Training Services (ESETS) in support to the Food Staple Sufficiency Program (FSSP) of the Department of Agriculture such as the establishment of technology demonstrations in the farms, and conduct of Local Farmer Technicians-Farmers Field Schools (FFS) and other training-related activities to accelerate the adoption of new technologies and best farming practices in rice production.

### Technology Demonstrations

To showcase validated and viable technologies to increase rice productivity, a total of 72 techno demo sites from wet and dry seasons were established in different ecosystems in the region. These techno demos, which showcased integrated crop management approach with emphasis on the use of hybrid and inbred seeds and efficiency of farm mechanization, include the following:

- 8.0 tons using hybrid rice in irrigated areas;
- 7.0 tons using registered inbred rice seeds in irrigated areas; and
- 5.5 tons using certified inbred rice seeds on rainfed areas.

### Local Farmer Technicians (LFT) - Farmers Field Schools (FFS)

The Program conducted a total of 58 FFS with 116 LFTs in different ecosystems during the wet and dry seasons in the region. This activity was designed to develop a core of qualified and trained rice farmers as partners and active players in the development and promotion of modern rice production and post-production technologies in low-yielding rice-growing barangays with inadequate agricultural extension workers. The LFT-FFS is a non-formal adult education with experiential and participatory learning techniques wherein each FFS was facilitated by two LFTs and one Supervising Technician.



Various technology demonstration sites and activities of the farmer-recipient in rice.

## Research and Development

Under research and development, the following

research studies were conducted under the Rice Banner Program:

Project Title	Brief description of the Study	Highlights/Status																								
<b>Accelerating the Development and Adoption of Next-Generation Rice Varieties for the Major Ecosystems in the Philippines (NEXTGEN)</b>	This project is a collaborative effort among the breeding institutions like PhilRice, IRRI, UPLB and other private seed companies in generating rice varieties for the various ecosystems. It has four components in Region 1, namely: Participatory Varietal Selection, On-station Seed Production, Techno-demo cum Seed Production and National Comprehensive Testing/ Multi-location Environment Trial (NCT/MET). Irrigated, rainfed, drought prone, saline prone and submerged prone are the ecosystems for different hybrid and inbred tested.	Rice varieties adapted to irrigated condition in the region during the wet season are as follows: <table border="1" data-bbox="890 392 1444 593"> <thead> <tr> <th rowspan="2">Province</th> <th colspan="2">Inbred</th> <th colspan="2">Hybrid</th> </tr> <tr> <th>Variety</th> <th>Yield (t/ha)</th> <th>Variety</th> <th>Yield (t/ha)</th> </tr> </thead> <tbody> <tr> <td>Pangasinan</td> <td>NSIC Rc 240</td> <td>6.14</td> <td>NSIC Rc 404H</td> <td>5.10</td> </tr> <tr> <td>La Union</td> <td>NSIC Rc 226</td> <td>6.25</td> <td>NSIC Rc 314H</td> <td>7.29</td> </tr> <tr> <td>Ilocos Norte</td> <td>NSIC Rc 216</td> <td>6.06</td> <td>NSIC Rc 318H</td> <td>7.40</td> </tr> </tbody> </table> Rainfed/drought prone varieties adaptable varieties in Pangasinan is NSIC Rc 68 (5.82 t/Ha) and NSIC Rc 27 (4.9 t/ha) in La Union and NSIC Rc 282 (6.851 t/ha) in Ilocos Sur. <p>Moreover, submerged tolerant inbred varieties in Pangasinan is PR 40416-B-14-1-4-2 (3.8 t/ha) and NSIC Rc 194 (6.11 t/ha) in La Union.</p>	Province	Inbred		Hybrid		Variety	Yield (t/ha)	Variety	Yield (t/ha)	Pangasinan	NSIC Rc 240	6.14	NSIC Rc 404H	5.10	La Union	NSIC Rc 226	6.25	NSIC Rc 314H	7.29	Ilocos Norte	NSIC Rc 216	6.06	NSIC Rc 318H	7.40
Province	Inbred			Hybrid																						
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Pangasinan	NSIC Rc 240	6.14	NSIC Rc 404H	5.10																						
La Union	NSIC Rc 226	6.25	NSIC Rc 314H	7.29																						
Ilocos Norte	NSIC Rc 216	6.06	NSIC Rc 318H	7.40																						
<b>Philippine Rice Information System (PRISM)</b>	This project aims to develop an online system that would consolidate and present timely information on the status of the rice crop to policy and decision makers as a decision- support tool using data from remote sensing, crop models, crop health surveys, and other field work activities.	For 2016, Bantay, Ilocos Sur and Bangar, La Union were added to the two (2) two existing locations/ municipalities where regular monitoring activities are conducted. To date there are already 80 monitoring fields (MFs) throughout the region. <p>During the 2016 1st semester, rice area planted by province was estimated at 22,333 ha in Ilocos Norte, 23,447ha in Ilocos Sur, 5,572 ha in La Union and 103,180 ha in Pangasinan while yield per province was estimated at 4.97; 4.42; 4.64; and 4.73t/ha in Ilocos Norte, Ilocos Sur, La Union and Pangasinan, respectively.</p> Estimated area planted to rice during the 2 <sup>nd</sup> semester was 55,033 ha in Ilocos Norte, 50,403 in Ilocos Sur, 35,249 in La Union and 220,173 ha in Pangasinan.																								

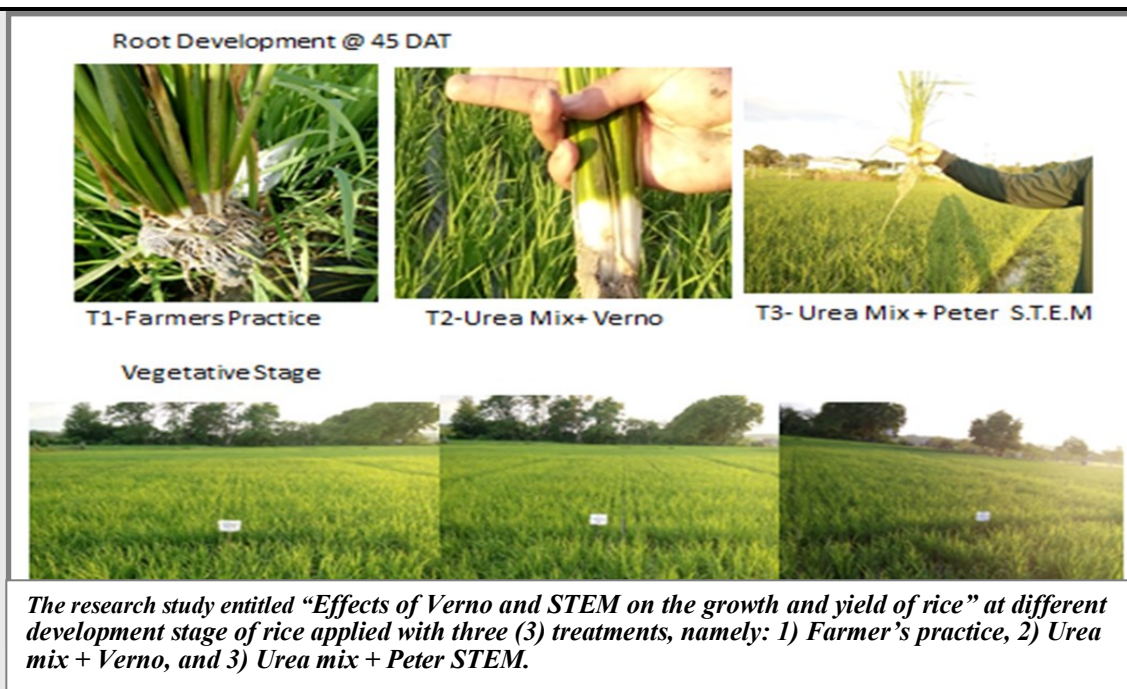


Monitoring and data gathering of Corn BPVB OSatBrgy. AlejoMalasid, Vintar, Ilocos Norte.



Project Title	Brief description of the Study	Highlights/Status
Rice Crop Manager (RCM)	A comprehensive decision tool for increasing yield income in the Philippines	A total of 39,030 recommendations were generated and deployed to farmers in Region 1 registering 8,199 fields and monitored 522 fields that received RCM recommendations.
<b>On-Station Mushroom Technology Modules</b>	This project was introduced to increase farm income and to utilize crop residues like rice straw instead of burning.	Four modules as component of the project were conducted in Ilocos Norte Research and Experiment Center (INREC) - Dingras, Ilocos Norte. A total of 450 bottles of mother culture were cultured producing 6,020 packs mother spawn as demo purposes and starter kits for community-based mushroom enterprise in the region. Nineteen trainings were conducted in region 1 participated by 592 participants compose of farmers group, teachers, students, 4Ps, women and youth.
<b>Strategic research for mushroom production</b>	Four researches were conducted to improve the technology on mushroom production.	Two (2) cm thickness of casing were observed feasible for milky mushroom production with 727 grams yield. While using different media like yellow corn, rice grains and sorghum has 29 days incubation period and a harvest of 252.5 grams for 10 flushes in 3 months. The studies on the effects of spent mushroom substrates on HVCC and method of prolonging mushroom spawn for sustainable evaluation of different production of oyster mushroom is still on-going.
<b>Evaluation of the yield and economic potential of inbred and hybrid rice varieties in Region 1</b>	<p>The study was conducted to evaluate the yield and economic potential of new NSIC registered inbred and hybrid rice varieties under irrigated condition throughout the region during the 2016 wet season.</p> <p>The inbred entries were NSIC Rc216, NSIC Rc226, NSIC Rc300, NSIC Rc352 and NSIC Rc358. The hybrid entries were NK1517, PHB79, Bigante plus and TH82. NSIC Rc222 was used as check.</p>	<p>In Pangasinan, inbred NSIC Rc358, is the highest yielder with 5.34 t/ha. For hybrids, PHB 79 gave a yield of 5.17 t/ha.</p> <p>In La Union, NSIC Rc300 yielded 5.64 t/ha. For hybrids, check variety NSIC Rc222 has the highest yield of 6.49 t/ha</p> <p>In Ilocos Norte, farmer's inbred variety of NSIC Rc218 has the highest yield of about 6.3 t/ha while TH 82 was the highest yielder with a productivity of 6.2 t/ha .</p> <p>Lower yields were observed from inbred entries tested in Ilocos Sur which ranged from 3.5 to 4.8 t/ha due to the effect of typhoon Lawin (October 19-20, 2016) which occurred during the flowering and milking stage of the crop. For hybrids, NK 5017 gave the highest yield of 5.01 t/ha.</p>
<b>Verification of the potential of RCM in improving production and income from rice farming in Region I</b>	Generally, this study aims to evaluate the Rice Crop Manager as a nutrient management guideline for rice farmers to improve production and income from rice farming in Region 1.	<p>Palay/grain yield was significantly higher with RCM, along with Fertilizer Quick Guide, than Farmer's practice in Umingan at 7,307 kg/ha and 8,518 kg/ha during DS 2015-2016 and WS 2016, respectively. In Balungao, Pangasinan, palay/grain yield was significantly higher than both Farmer's Practice and Fertilizer Quick Guide at 7,126 kg/ha during the WS 2016.</p> <p>RCM resulted to higher Marginal Rate of Return (MRR) over both Farmer's practice and Fertilizer Quick Guide in Umingan during DS 2015-2016 at Ph3.62 and PhP8.33, respectively and during WS 2016 at PhP6.60 and PhP18.33, respectively. Similarly, MRR was higher than both Farmer's Practice and Fertilizer Quick Guide at PhP8.33 and PhP8.43, respectively.</p>

Project Title	Brief description of the Study	Highlights/Status
Evaluating the effectiveness of WBG Soil Conditioner on the Growth Performance of Rice	The study was conducted to evaluate the effectiveness of using WBG Soil Conditioner on the growth, yield and yield performance of rice plant and to determine the economics using soil conditioner in rice production.	Yield obtained from plants applied with RR + WBG conditioner was 5.49 t/ha while those applied with recommended rate of inorganic fertilizer yielded 5.15 t/ha
Effect of bio-fertilizers on the growth and yield of rice	This study was conducted to evaluate the efficacy of new bio-fertilizers in rice production and to determine the economics of rice production using bio-fertilizers.	In Ilocos Norte, RR + MykoPlus and RR + Hatake gave comparable yields of 4.35 t/ha and 4.33 t/ha while in Pangasinan, highest yield was noted from plants applied with RR + Hatake at 5.83 t/ha followed by those fertilized with RR + MykoPlus with yield of 5.07 t/ha.
Effects of Verno and STEM on the growth and yield of rice	It was conducted to evaluate the performance of Verno and Peter's STEM as granular mix on the growth and development of rice; and to compare the efficiency of the ready mix against the farmer's practice in the region.	Plants fertilized with Verno + Urea Mix gave a yield of 5.18 t/ha in La Union, STEM + Urea Mix yielded 6.26 t/ha in Ilocos Norte. Low yields were obtained from Pangasinan due to the effect of Typhoon Karen that struck the province during the flowering stage of the crop.
CPAR on rice+eggplant cropping system in Asingan Pangasinan	The project aims to enhance productivity and profitability of rice & eggplant farmers through Integrated Crop Management Practices.	The project is a collaborative effort of DA-RFO 1, ATI-RTC 1, PLGU Pangasinan and LGU-Asingan, Pangasinan. Four barangays (4) were selected based on set criteria with 20 farmer-cooperators showcasing the improved production system on rice+eggplant cropping system. Ten (10) ha rice and 2 ha eggplant model farms were established during wet season.  Enhancing capability, skills and knowledge of farmers was conducted through Enhanced Farmer Field School on rice production for 16 weeks with 24 graduates.  Target yield increase of 10% were not attained during year 1 due to occurrence of typhoon Karen and Lawin during reproductive and harvesting period.



## **Irrigation Development Services**

In order to increase productivity and cropping intensity in rice, and to cope with the effects of drought in some areas specifically in rainfed and tail-end irrigated areas in the region, the DA through the Rice Banner Program distributed 75 units pump and engine sets generating a service

area of 225 hectares. Likewise, two units each of Small Water Impounding Project (SWIP) and Diversion Dam (DD) were constructed generating a total of 269 hectares service area. Also, two DDs and 2 SWIPs were rehabilitated.



*(Upper photo) The Poraw-Nampalcan SWIP in Umingan, Pangasinan with total cost of Php6.0 Million serves 90 farmer-beneficiaries covering 85 hectares. (Lower photo) The newly constructed Php20 Million Mabini SWIP in Balungao, Pangasinan has a service area of 90 hectares benefiting 103 farmers.*

## Agri-Fisheries Machineries, Equipment and Facilities Support Services

The Farm Mechanization Program of the Agri-Pinoy Rice helps the farmers maximize land and labor productivity and provide easier and timely production and postharvest operations. Various production and postharvest facilities and

equipment were provided to farmer associations, as follows: 70 units of mini 4-WD tractor, 103 units of hand tractor, 10 units of rice reaper, 60 units of rice thresher, 5 units combine harvester and 5 units of transplanter.

### Various agricultural machineries and equipment



## CORN BANNER PROGRAM

### Technical Support Services

#### Production Support Services

The Corn Program distributed a total of 34 bags of Registered OPV glutinous white corn seeds at 20 kg/bag for 34 hectares and 426,306 cassava seed pieces covering 43 hectares in the region.

On the provision of biological control agents, the Regional Crop Protection Center (RCPC) produced and distributed a total of 8,890,000 pieces earwigs benefiting 890 farmers serving 888 hectares. Also, 93,100 tricho cards were produced and distributed to 934 farmers covering 931 hectares of corn plantings in the region.

Another activity of the RCPC under the Corn Program is the “Bantay Peste” Volunteer Brigade

(BPVB), a village-based pest monitoring and surveillance system undertaken by Farmers Pest Scouts. This pest management extension effort is a continuing activity of the Season-Long Integrated Pest Management (IPM) for the Farmers Pest Scouts to decide on how to manage pest in their own fields using the Agroecosystem Analysis (AESA) technique. Thirty-six (36) Observation Stations (OS) were established regionwide and are strategically distributed in: Pangasinan-15 OS, La Union-7 OS, Ilocos Sur-7 OS and Ilocos Norte- 6 OS.



*Monitoring and data gathering of Corn BPVB OSatBrgy. AlejoMalasid, Vintar, Ilocos Norte.*

#### Market Development Services

Under the Marketing Development Services, a total of 4 farmer groups were assisted in market linkage thru the Agribusiness and Marketing Assistance Division (AMAD). The groups were as follows: Caoayan Farmers Association with their produced yellow corn was linked to Checkzers Feeds; Mamarlao Multi-purpose Cooperative, whose yellow corn was linked to Chua Farm in

Malasiqui, Pangasinan and Universal Agribusiness Cooperative and two groups of OPV white corn seed growers were linked with the Bureau of Plant Industry Central Office to supply their demands for National Bufferstocking. A total of 989.50 mt was linked to the buyers with a monetary value of Php 14,127,500.00.

## Extension Support, Education and Training Services

For the Extension Support, Education and Training Services, a total of 1,371 farmers were trained for six (6) batches of entrepreneurial trainings conducted in the region. This training is focused on the utilization of corn as major raw material in feeds and corn by-products which are processed into silage/feedstuff. After the conduct of the said training, each trained group was awarded with one (1) unit hammer mill as grant for them to process their produce into grits or cracked corn to be used as feed ingredient, thereby adding value to the corn grains to increase their income.

The Program conducted 17 batches of Farmers Field School (FFS) in corn production, in partnership with the LGU counterparts, with 425 farmer-participants. For the Cassava Livelihood

Training, six (6) batches were conducted regionwide. In this training, groups of rural women are trained on the utilization of cassava (fresh and flour) into different food products. This training aims to create a source of livelihood to these groups trained, thus, after the training, a set of baking kitchen and baking utensils, cassava grater with presser, vacuum pack sealer and cassava pulverizer are awarded to them as grant. Also, another six batches of cassava production technology training were conducted which imparted cassava production, cultural management practices and cassava pests and diseases and its management. After the training, the participants were given cassava seed pieces of different varieties: *Lakan II*, *Rayong 5* and *Golden Yellow* which are produced in the DA provincial stations.



*Conduct of Farmers Field School (FFS)- Corn in various sites in the province of Region I.*

## Research and Development

A total of four research studies were conducted under the Corn Banner Program, namely:

Project Title	Brief description of the Study	Highlights/Status
<b>Production performance of conventional Hybrid B Corn, and OPV Corn under Ilocos Region Condition</b>	The project aims to evaluate the adaptability and profitability of different varieties/hybrids of corn under Ilocos Region.	The study was established in Sta. Maria, and Asingan, Pangasinan. Crops is on vegetative and tasseling stage
<b>Evaluation of growth and yield performance of yellow corn using fertilizer recommended rate along with soil ameliorant</b>	This study aims to determine the effect of applying different rates of soil ameliorant in combination with inorganic fertilizer on the yield of hybrid yellow corn.	The study was established in Bari Dalayap, Sta. Maria Pangasinan and Bagutot, Bacnotan, La Union. Four treatments were tested from 7.5 kg soil ameliorant, 6 kg and 9 kg in combination with recommended fertilizer rate based on soil analysis. Corn is at vegetative and tasseling stage.
<b>Evaluation of yield response of cassava intercropped with glutinous corn</b>	Baseline information on the acceptability and profitability of the adoption of Nutrient-Expert-based fertilizer recommendation for hybrid will be the output of the project.	Pre-testing of questionnaires is on-going in Sto. Tomas and Bayambang, Pangasinan for validation.
<b>Verification of Nutrient Expert based Fertilizer Recommendation for Hyrbid Corn thru On-Far, Participatory Evaluation in Ilocos Norte</b>	The project will quantify and understand the yield potential of yellow corn and existing yield gaps of the main yellow corn growing areas of the region and develop an approach and tools for site specific nutrient management in yellow corn, for dissemination	This was conducted in twenty five sites in Ilocos Norte, specifically five sites each in Baccara, Laoag City, Dingras, Vintar and Badoc. Consultation meeting with the LGUS was conducted and discussed the project goals and objectives to the farmers.



*Regular monitoring conducted by the DA RFO-I implementers on the project site and its cooperator under the study on “Production Performance of conventional Hybrid Corn, Bt Corn and OPV corn Under Ilocos Region Condition” in Umingan, Pangasinan*

## Irrigation Development Services

In order to attain higher productivity in corn, the Program distributed a total of 110 units shallow tube wells (STWs) - 60 units diesel fed STWs and 50 units electric water pump benefiting 110 farmer groups or associations generating a total service area of 330 hectares. Out of the 60 units

diesel-fed STWs, 39 units were distributed to Pangasinan, 4 units in La Union, 10 units in Ilocos Sur and 7 units in Ilocos Norte. For the 50 units electric water pump, 7 units was distributed in La Union, 23 units in Ilocos Sur and 20 units in Ilocos Norte.



## Agri-Fisheries Machineries, Equipment and Facilities Support Services

To further enhance corn production, the Corn Program distributed 28 units of 45 Hp farm tractor with implements for corn areas and five units 90 Hp farm tractor with implements to cassava areas, three units mobile fast dryer

with 8-10 mt tons capacity, four units two-row corn planter and three units combine harvester with corn kit benefiting a total of 79 farmers associations.



# HIGH VALUE CROPS DEVELOPMENT PROGRAM

## Technical Support Services

### Production Support Services

The HVCDP provides quality seeds and planting materials to growers to increase vegetable and fruit production benefiting a total of 921 farmers. A total of 96,250 kilograms of garlic bulb and 383 kilograms of yellow onion seeds were procured and distributed to farmer beneficiaries thru the Provincial Agriculture Offices (PAO). Also, a total of 1,435 kilograms of various vegetable seeds such as eggplant, tomato, upo, squash, ampalaya, pole sitao, watermelon, cucumber, patola, pechay, okra, kangkong, papaya, mungbean and sweet pepper were procured and distributed to the PAOs in the region.

Likewise, there were 42,000 kilograms of

mungbean, 600,000 pieces of coffee seedlings and 200,000 pieces of cacao seeds were procured and distributed to the PAOs. Moreover, in support to the Food Staple Sufficiency Program, the Department is encouraging the populace to consume other/staple foods such as sweet potato (kamote). With this, 300,000 pieces potato cuttings were distributed to farmers in the region.

In support to the mango industry, a total of 2,977 bags of flower inducers- 1,950 bags Calcium Nitrate and 1,027 bags of Potassium Nitrate were provided to mango growers in the region.



### Market Development Services

Three (3) trade fairs were conducted: Regional Organic Trade Fair(December) and Regional Agriculture and Fishery Trade Fair (February and December). Fifty eight (58) SMEs were assisted in the promotion of their products and Php 1,340,000 worth of actual, booked and negotiated sales were generated. The trade fairs also included technical sessions on various topics such as investment incentives, food safety in packaging and processing, marketing and advertising, credit financing.

Likewise, market matching was also done during the trade fairs wherein Manila-based buyer and the United Pangasinan Mango Growers Association agreed on a 10-ton monthly delivery of mango worth Php750,000 per delivery. Two (2) farmer groups were assisted in the promotion of fresh fruits and vegetables during the DA-Christmas Market at DA-Central Office Ground from December 8-10, 2016 with a generated sale of P30,000.00

## Extension Support, Education and Training Services

The Ilocos Region, through the Philippine Mango Industry Foundation Inc. (PMIFI) and the Department of Agriculture (DA), the Provincial Government of Ilocos Norte (PGIN) and Ilocos Norte Federation of Mango Producers Association Inc. (INFMPAI), successfully hosted the 18<sup>th</sup> National Mango Congress held at Plaza del Norte Convention Center, Laoag City, Ilocos Norte with a total participants of 700 stakeholders from different regions this year.

This year's theme was "Seizing Climate Change Opportunities for the Mango Industry and Breaking Down Market Menace through Empowered Mango Stakeholders Associations Backed by Sustainable Policies and Strategies." Major stakeholders were able to share interventions, experiences, and latest

technologies and practices in their respective fields in the mango industry.

On the other hand, 12 technology demonstration sites were established in lowland vegetable off-season production in the region. This aimed to showcase the production of different vegetables during rainy season. The use of hybrid vegetables, plastic mulch, carbonized rice hull and organic fertilizers were showcased in the techno demo.

Meanwhile, the Regional Agriculture and Fisheries Information Section (RAFIS) prepared, and distributed IEC materials in local (Ilokano) dialect to farmers and LHUs thru the PAOs. A total of 20,000 copies of coffee, peanut, mungbean and cacao production technologies were distributed.



Region I successfully hosted the 18th National Mango Congress and Summit Workshop held at Plaza del Norte Convention Center, Laoag City, Ilocos Norte on March 14-17, 2016 with a total participants of 700 stakeholders from different regions.

## **Irrigation Development Services**

The HVCDP provides quality seeds and planting materials In order to increase productivity in vegetables and other high value crops, nine (9)

units of pump and engine sets and 900 water drums were distributed benefiting 89 farmers.

## **Agri-Fisheries Machineries, Equipment and Facilities Support Services**

To ensure efficient farm production and in support to the Farm Mechanization Program, various farm machineries and equipment were procured and distributed to farmers. A total of 4 units 4WD tractor, 6 units coffee depulper, 6 units coffee grinder and 5,000 plastic crates benefiting 48 farmer group beneficiaries. The construction of two (2) tramlines is still on-going.

Likewise, construction of one agricultural tramline, which is funded in 2015, was established this year in Santol, La Union. The tramline traverses barangays Sasaba and Ramot with a 1.5 kilometer length amounting to PhP5.2 Million. This will benefit TIGAPU Farmers Association, Inc catering a total area of 38 hectares of rice, lowland/highland vegetables, chrysanthemum flowers, and 5 hectares of tiger grass.



*Agricultural tramline worth PhP5.2 Million established in Santol, La Union with a length of 1.5 kilometers traversing barangays Sasaba and Ramot. The project benefits TIGAPU Farmers Association, Inc catering a total area of 38 hectares of rice, lowland/highland vegetables, chrysanthemum flowers, and 5 hectares of tiger grass.*

# LIVESTOCK BANNER PROGRAM

## Technical Support Services

### Production Support Services

#### *Distribution of animal stocks, seeds and plantings materials*

The Program distributed the following animal stocks including bee colonies benefiting a total of 539 individual and 47 group beneficiaries.

Commodity	No. of heads distributed
Large ruminants (cattle and swine)	53
Swine (native)	278
Goat	318
Sheep	33
Duck	2,944
Chicken (free range)	380
Bee colony	13

Likewise, a total of 92, 542 forage cuttings and seedlings were distributed to 163 individuals and 19 group beneficiaries. Moreover, a total of 17 kilograms of forage seeds were also distributed to 35 individual and 10 group beneficiaries. These interventions were distributed to farmer-beneficiaries from various projects and activities under the Program which includes the establishment of Local Government Unit (LGU)-Multiplier Farms, Genetic Improvement Program, establishment and maintenance of technology demonstrations, strengthening of rural-based organizations and Farmer Livestock School on Goat Enterprise Management (FLS-GEM).

#### *Genetic Improvement Program*

In support to the Program, which primarily aims to improve the production and reproduction of the local herd through the introduction of superior quality genetics, a total of 10,354 semen straws of cattle, goat and swine were distributed benefiting 8,161 individual beneficiaries in the region. The insemination of these semen straws were rendered by trained and accredited Village-based Artificial Insemination Technicians (VBAITs) in their respective municipalities and area of coverage.

#### *Philippine Native Animal Development (PNAD) Program*

Under this Program, a total of 33 and 32 heads of native swine were distributed to the Mariano Marcos State University in Batac City, Ilocos Norte and Pangasinan State University San Carlos City Campus in San Carlos City, Pangasinan, respectively. This program aims to purify and conserve the phenotypic characteristic of Ilocos breed native pig such as white snout, white spot at the tip of tail, white socks, and white belly.

#### *Animal Health Program*

For 2016, a total of 760, 732 doses of drugs, biologics and vaccines were distributed to different municipalities in the region benefiting 66,996 individual beneficiaries. The program aims to eradicate and control diseases such as Foot and Mouth Disease, Hog Cholera, New Castle Disease, Hog Cholera, Blackleg, Hemorrhagic Septicemia, and internal and external parasites.

#### *Support to the Regional Animal Disease Diagnostic Laboratory (RADDL)*

The RADDL conducted a total of 3,330 confirmatory tests for necropsy, rabies examination, serological test, anti-microbial test (AST), fecalysis and bacaterial isolation.

#### *Strengthening of Multiplier Farms*

The DA-RFO I maintains two (2) multiplier farms located in the Ilocos Integrated Agricultural Research Center (ILIARC), Bacnotan, La Union, and Ilocos Norte Research and Experiment Center (PREC), Dingras, Ilocos Norte.

The multiplier farm in ILIARC, Bacnotan, La Union maintained 15 heads of doe and 3 heads



*(Upper photo) Cattle breeders and offsprings produced in multiplier farm in Dingras, Ilocos Norte and (lower photo) duck breeders in Sual, Pangasinan.*



of buck with 17 kids produced. The farm aims to demonstrate and promote integrated goat production technology, evaluate the growth and reproductive performance of goats raised in semi-intensive management system, and to produce quality offspring to be loaned out to farmer-partners.

On the other hand, multiplier farm in Dingras, Ilocos Norte produced quality offspring of cattle, goat and sheep. A total of 26 heads of American Brahman and American Red Brahman were maintained producing 10 offspring. There were 3 heads of cattle distributed/awarded to corn and livestock growers associations in Sta. Maria,

Pangasinan.

For goat, 38 heads of Anglo Nubian breeders were maintained producing 43 offsprings, of which 16 heads were distributed to Typhoon Lawin affected growers. Also, 26 heads of Dorper sheep breeders were maintained producing 26 offspring with 8 heads distributed.

To cater the green feed requirement of the stocks to showcase production technology, a total of 4.5 hectares of forage area was maintained and planted with different improved forage grasses and legumes species.

### ***Duck Production Center***

The duck production center in Sual, Pangasinan currently maintains 120 Mallard and Pekin duck breeders. A total of 3,230 ducklings were distributed to 207 farmers in the region. The production center aims to demonstrate how to reduce feed cost by using supplemental feeding of forage legumes and grasses, observe laying performance of ducks using different concoctions produced and serves as pilot area demonstrations for duck raisers.

### ***Semen Processing and Artificial Insemination Center***

A Semen Processing and Artificial Insemination Center was built in Sta. Barbara, Pangasinan to produce fresh swine semen and frozen goat semen straws for artificial insemination. Pure breed of Largewhite, Landrace and Pietrain swine boars and 3 heads Anglo-Nubian and 1 head Boer pure breed of goat were maintained as source of quality semen where 1,097 bottles (100ml/bottle) processed/extended straws were distributed benefiting 575 livestock growers.

### **Extension Support, Education and Training Services**

Under the ESETS, fifteen (15) season-long training on Farmer Livestock School on Goat Enterprise Management (FLS-GEM) were conducted with 488 farmer-graduates. The FLS-GEM focused mainly on the production of goats as income-generating enterprise for the farmers. After the training, one (1) head of buck per class was provided as breeder for upgrading of stocks. Likewise, one Trainers Training (TOT) on FLS-GEM was conducted which was participated by 29

Livestock Technicians of selected municipalities who will conduct the FLS-GEM training in their respective areas.

To showcase different technologies on livestock which are economical, effective and practical in a given agro-economic setting, 12 technology demonstrations or livestock model farms were established and maintained. Breeder stocks of goat and native swine were provided to the recipients of model farms/techno demo areas.

### **Research and Development**

<b>Project Title</b>	<b>Brief description of the Study</b>	<b>Highlights/Status</b>
<b>Growth performance of cattle fed with ensiled corn stover</b>	The study aims to evaluate the effect of feeding silage corn stover to cattle, and to assess the profitability of silage on cattle.	Nine (9) growing cattle were used in the study. All management practices employed in cattle production were done in all treatments. These treatment are as follows: <i>T1 – 75% Napier Grass + 25% rice straw</i> <i>T2 – 100% Napier Grass</i> <i>T3 – 75% Napier Grass + 25% ensiled corn stover</i> The average initial weight ranged from 290.8 kg to 324.9 kg. After one month, gain in weight was taken. It was observed that T2 gave the highest gain in weight, 19.5 kg, T3 - 16.1 kg and T1 gave 16 kg. or ADG of 0.73 kg for T2 and 0.56 kg for T1 & T3.
<b>Effects of fermented mixed forages as feed for growing-finishing native pigs</b>	This study will determine the effects of fermented mixed forages as feed to growing-finishing native pigs in terms of productivity, best level of fermented mixed forages as feed and meat acceptability based on sensory evaluation.	Analysis of mixed forages has high crude protein (8.9%) fresh basis and (22.5%) dry basis which is higher compared to rice bran (6.8% and 17.3% dry basis). This shows the potential of fermented mixed forages as feed for native pigs.

Project Title	Brief description of the Study	Highlights/Status
<b>Comparative performance of two hormones for estrus synchronization of goats in Region 1</b>	The study will verify the efficiency of common available Estrus Synchronization (ES) hormones in does inseminated naturally and through Artificial Insemination (AI)	The project is located in 6 municipalities in Pangasinan with 147 experimental does.  Experiments showed that using Lutalyse hormone aborted pregnant does.
<b>Technology Utilization and Promotion of Micro-Nutrient Block (MNB) for Small Ruminants “Growth Performance of Goats Fed with Micro-Nutrient Balls”</b>	This study will evaluate and compare the performance of goat fed with and without micro-nutrient balls	Twelve (12) heads of goats were used in the experiment. Results showed that goats supplemented with MNB has high Feed Conversion Ratio of 39.75%.  On-station and on-farm trials are on-going at DA-ILIARC, Bacnotan, La Union and in Manaoag, Pangasinan. Mineral balls was awarded as special non-food product during the 12 <sup>th</sup> National Technology Commercialization and Product Exhibition dubbed as JOVIMIN balls as natural micro nutrient balls for small ruminant. The product was registered at Trademarks with IPO # 4/2016/00001304 assisted by DA-BAR.  A total of 13,545 mineral balls was produced and distributed to Farmers, and other participants during Technology Forum & Exhibit, Agricultural Trade Fair, National Organic Congress and Research stations.
<b>Development, Utilization and promotion of Natural probiotics and natural dewormers for goats and broilers</b>		
a. <b>Growth performance of broiler chicken using different commercially available probiotic solution</b>	The study will evaluate the effect of different probiotic solutions in broilers and to avoid excessive use of antibiotics in poultry production	Genesis, DGA 14 and yakult are the different probiotics to be tested in the study. Preliminary activities include micronutrient analysis of the different solution at Central Analytical Services Laboratory of Institute of Molecular Biology and Biotechnology UPLB.
b. <b>Evaluation of different natural fermented botanical materials on the growth performance of broiler</b>	The study aims to determine the chemical composition of the Feed Ration of the herbs, investigate the effects of the different fermented natural bio nutrients on the growth performance and carcass quality of broilers	Results showed that Genesis has high Mg (189.5 ± 13.90) and Calcium (765 ± 51), Fe (207.79 ± 15.62). Project is still on-going
c. <b>Evaluation of different herbal plant parts on the vermicial efficacy as organic dewormer for goats</b>	This study will determine the efficacy of natural dewormer to infected goats	Proximate analysis of the formulated diets or broilers has high percentage crude protein from booster (20), starter (17.7) and grower (14.9).  Fecalysis was done prior for treatment application and found that fecal sample was infected with parasites. Different concentrations of calabash pulp decoction was used in the study and found to have reduction in parasite eggs.

## ORGANIC AGRICULTURE PROGRAM

### Technical Support Services

#### Production Support Services

In support to organic crop production areas, seeds and planting materials were distributed to different farmer-recipient in the region. There were 2,400 kilograms (96 bags) of open pollinated corn seeds, 2,000 kilograms (50 bags) of red rice seeds and 20,000 cuttings of cassava benefiting a total of 746 individual beneficiaries.

#### Market Development Services

Under the Market Development Services, two stalls were rented for the display and selling of organic products of two farmer groups in CSI San Fernando City, La Union and CSI Dagupan City, Pangasinan. Four (4) consumer awareness seminars on Organic Agriculture Program were conducted including one Regional Organic Trade Fair at Robinson Mall, San Nicolas, Ilocos Norte. For 2016, the amount of sales generated from the

For organic livestock production, a total of 560 heads native chicken and 200 native swine were distributed benefiting 49 farmer associations. Likewise, 70,000 kilograms of vermicompost, 1,000 kilograms of African Night Crawlers (ANC), and 30,000 kilograms of molasses and 6 bee colonies were provided to 34 farmer associations and 1,117 individual beneficiaries.

market-related events totaled to PhP2, 318,690.00. Likewise, volume of marketing agreements consummated reached eight (8) metric tons of various agricultural commodities which was valued at PhP703,000.00. All these market-related activities benefited a total of 501 individual and 13 group beneficiaries in the region

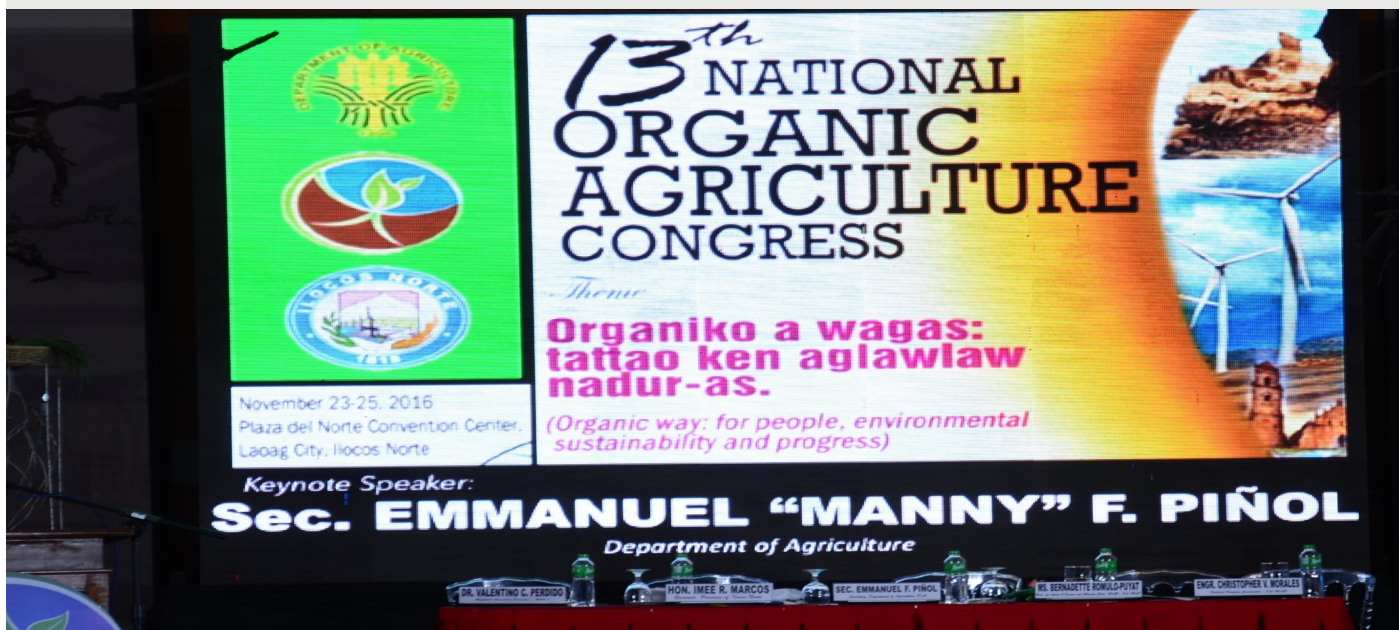


*Ribbon cutting during the launching of the Regional Organic Trade Fair at Robinson Mall, San Nicolas, Ilocos Norte. Which was initiated by Ms. Norma Lagmay, Ilocos Norte Provincial Agriculturist, Dr. Jovita Datuin, R & D Division Chief, Ms. Wilhelmina Castañeda, AMAD Chief, and Dr. Marvin Quilates, OA Program Focal Person in Region I.*



Region I hosted the 13<sup>th</sup> National Organic Agriculture Congress in Laoag City, Ilocos Norte on November 23-25, 2016 with the theme: “Organiko a wagas: tattao ken aglawlaw nadur-

as (Organic way; for people, environmental sustainability and progress)”. The congress was participated by around 2,000 stakeholders in the Organic Agriculture sub-sector.



*DA Secretary Emmanuel F. Piñol and Ilocos Norte Governor Imee Marcos served as speakers during the 13<sup>th</sup> National Organic Agriculture Congress in Laoag City, Ilocos Norte on November 23-25, 2016.*

### **Agri-Fisheries Machineries, Equipment and Facilities Support Services**

To ensure efficient farm production and in support to the Farm Mechanization Program, various farm machineries and equipment were procured and distributed to farmers. A total of 4 units of 4WD

tractor, 6 units of coffee depulper, 6 units of coffee grinder and 5,000 plastic crates benefiting 48 farmer group beneficiaries. However, construction of two (2) tramlines is still on-going.

## REGULAR (VARIOUS ACTIVITIES)

### Research and Development

In order to develop appropriate package of technologies for crops and livestock, five (5) research stations were maintained to serve as show window of various research and development activities in the region. These are: Ilocos Integrated Agricultural Research Center (ILIARC)

in Bacnotan, La Union, Ilocos Norte Research and Experiment Center (INREC) in Batac City and Dingras, Ilocos Norte, and Pangasinan Research and Experiment Center (PREC) in Sta. Barbara and Sual, Pangasinan.



*ILIARC station in Bacnotan maintains 26 mango foundation/scion grove as source of scion in the station and for interested plant propagators in the region. In CY 2016, there were 700 grafted mango seedlings produced, of which 435 were distributed to 12 beneficiaries, 4F) from Salcedo, Ilocos Sur, PNP Regional Office, PPA of San Fernando, La Union, DA-CAR and walk-in clients from Bacnotan, San*

### Regulatory Services

#### *Quality Control and Inspection*

The Regulatory Division of the DA-RFO I conducted regular monitoring and inspection of agricultural products and facilities. For feeds, a total of 1,035 feed samples were collected from different feed establishments for quality control and analysis through the Regional Feed Laboratory. Likewise, 285 corn samples—grits, cracked and whole, were collected and analyzed for aflatoxin analysis.

The region maintained one multi-commodity quarantine checkpoint in Carmen, Rosales,

Pangasinan for the monitoring and inspection of shipped-in and shipped-out animals and crop commodities.

#### *Registration and Licensing*

A total of 963 feed establishments/outlets were issued with License to Operate (LTO) - 81 new and 882 renewals. Inspection/evaluation/monitoring of feed establishments/outlets prior to registration and renewal of license were done to feed manufacturing plants, warehouses and other facilities to ensure that feed products are manufactured and stored under safe conditions until brought to the marketplace.



**Regulatory Division staff conducting feed sampling for analysis from various feed establishments in the region.**

On the registration certificate of poultry & livestock handlers, a total of 217 applications were evaluated, inspected and endorsed to the Bureau of Animal Industry- Animal Health and Welfare Division for approval.

Also, 341 Veterinary Drug and Product (VDAP) establishment renewed their LTO. Only five were registered as VDAP distributor, and all the rest were VDAP retailers. In addition, 42 new VDAP establishments were endorsed to the BAI-Animal

Feeds, Veterinary Drugs and Biologics Control Division for approval of their application for LTO.

In support to the protection and welfare of animals, a total of 15 pet shops, 27 veterinary clinics, 19 commercial farms, 4 animal research facilities and 3 mini zoos were inspected, evaluated and endorsed to the BAI for registration and accreditation.

## **Agriculture and Fisheries Information**

The Regional Agriculture and Fisheries Information Section (RAFIS) is tasked to disseminate agri-fishery information and development through broadcast, print and interpersonal communication

A radio program, dubbed as “Oras ti Mannelon (Time for Farmers)”, is being aired three times a week, 30 minutes per day, in five leading commercial stations in the region. These radio stations are as follows: DZEA in Laoag City, Ilocos Norte, DWRS in Vigan City, Ilocos Sur, DZNL in San Fernando City, La Union, and DZWM in Alaminos City and Aksyon Radyo in Dagupan City, Pangasinan.

The radio program serves as the mouthpiece of DA reaching the farmers, fishers, rural folks and other agricultural stakeholders on agricultural updates and commodity production technologies.

Various IEC materials were produced and distributed to update stakeholders on technology guides/breakthroughs.

As part of the celebration of November as Rice Awareness Month, the RAFIS facilitated several promotional strategies and campaign materials through reproduction of tarpaulins and flyers.

Regular press and photo releases were also prepared and published in local and national newspapers.

Likewise, the *Damag-Agri*, the official newsletter of DA-RFO I, were published every quarter featuring the documentation of DA’s activities, success stories of farmers and different stakeholders as well as other agri-related news and information.



*Copies of the Damag-Agri, the official newsletter of DA-RFO I, being published by the RAFIS*

The RAFIS also led the campaign of the #BROWN4good Challenge to promote brown rice as a good food because of its four goodness—good for the body, good for the country, good for the farmers and good for less fortunate. A total of 450 individuals participated in the regional launching where they were encouraged to post pictures with

brown rice in the Facebook, Twitter and Instagram accounts using the caption “BROWN4good #Region 1. A total 17,034 hashtags were posted which equivalent to 17,034 cups saved for donation to charities to feed the less fortunate populace.

## **Regional Agricultural and Fishery Council (RAFC)**

The Agricultural and Fishery Council (AFC) served as the frontline mechanisms for private sector participation in the development processes in agriculture and fisheries. The Council is tasked to monitor the implementation of the different programs and projects of the DA-RFO I and the Philippine Council for Agriculture and Fisheries (PCAF).

For 2016, the Council monitored production, irrigation, and post-harvest machineries, equipment and facilities of the Banner Programs, Bottom-up Budgeting (BuB) Program and the Agrikultura Kaagapay ng Bayang Pinoy Program (AKBay). Specifically, hereunder were the monitored projects:

### **Rice Banner Program**

- 12 units of 4-WD tractors
- 9 units of hand tractor
- 6 units of rice thresher
- 6 units of flatbed dryers
- 3 units of MPDP
- 27 units of pump and engine set

### **Corn Banner Program**

- 2 units of 4-WD tractors

- 20 units of pump and engine sets (electric and diesel-fed)
- 2 units of hammer mill
- 1 unit of vacuum pack sealer
- 1 unit of cassava pulverizer
- 1 unit of cassava grater
- 1 unit of combine harvester
- 1 unit of corn planter
- 1 unit of mobile flash dryer

### **HVCD Program**

- 10 units of pump and engine set
- 1 unit of 4-WD tractor

### **Livestock Banner Program**

- 45 Livelihood Assistance Program
- 3 heads of draft animal

### **BuB**

- 15 sites of milkfish dispersal
- 11 units of vermi shed
- 16 units of pump and engine sets
- 16 units of motorized banca
- 17 cattle fattening projects
- 8 goat raising projects
- 20 tilapia fingerling dispersal projects
- 4 units of solar dryer

- 7 units of knapsack sprayer
- 6 units of MPDP
- 4 units of SWIP
- 2 units of corn sheller
- 2 units of rice thresher
- 3 units of trading pots
- 3 cattle dispersal projects
- 9 goat dispersal projects
- 5 tilapia grow-out in fish cage projects

#### AKBay Projects

- 49 swine fattening
- 4 native swine fattening
- 25 goat production
- 4 buy and sell of softbroom enterprises
- 5 softbroom making enterprises
- 16 units of motorized banca
- 17 cattle fattening projects

Moreover, the RAFC spearheaded 127 regional, provincial and municipal consultations benefiting about 200 AFC members and Coordinators. Also, Skills Training for AFC Coordinators of the provinces of La Union and Pangasinan was conducted. Likewise, two batches of briefing on Manual of Operations and two batches of Leadership Training for the Newly Elected AFC Chairpersons entitled “Preparing Leadership: What it Takes to Take the Lead” were conducted.

On the other hand, a total of PhP2.71 Million equivalent to 61.49% of the total loan under the AKBay Program was collected in La Union as shown in **Table 7**. The bulk of the collections came from the municipalities of Bagulin, Sudipen and San Gabriel. Collections were deposited in the Provincial AKBay roll-over account under the custody of the Provincial AKBay Coordinator.



*RAFC members conducting monitoring of various DA-RFO I projects/interventions such as shredder (left photo) and vermin-composting facility (right photo).*

**Table 7. AKBay Collection, CY 2016, Province of La Union**

Municipality	Project Cost (PhP)	Amount Paid (PhP)	Balance (PhP)	% of Replenishment
Bagulin	490,000.00	468,000.00	22,000.00	95.51
Sudipen	490,000.00	445,500.00	44,500.00	90.92
San Gabriel	490,000.00	333,200.00	156,800.00	68.00
Caba	490,000.00	315,000.00	165,000.00	64.29
Santol	490,000.00	318,500.00	171,500.00	65.00
Burgos	490,000.00	233,750.00	256,250.00	47.70
Pugo	490,000.00	233,300.00	256,700.00	47.61
Sto. Tomas	490,000.00	214,200.00	275,800.00	43.71
Tubao	490,000.00	144,100.00	345,900.00	29.41
<b>Total</b>	<b>4,410,000.00</b>	<b>2,705,550.00</b>	<b>1,694,450.00</b>	<b>61.35</b>

Source: RAFC Region I

## Institutional Development

The Institutional Development Section (IDS) of the Field Operations Division (FOD) supported/facilitated the organization, revitalization and strengthening of competitiveness and capacities of people/farmer groups/associations in the agriculture sector.

In coordination with the Agricultural Training Institute (ATI), the IDS facilitated the conduct of the following various capability-building activities for member-beneficiaries of farmer groups:

- Capability Enhancement Training for Irrigators Associations under the Irrigation System-Based Development Approach (ISBDA) benefiting 60 farmers;
- 1<sup>st</sup> Ilokos Regional *Pambansang Mannalon Magbabaul Maguuma Magsasaka ng Pilipinas* (P4MP) Congress held in Lingayen Pangasinan with 250 participants; and
- 15<sup>th</sup> National P4MP/Magsasaka Siyentista (MS) Congress held in Dagupan City, Pangasinan benefiting 181 participants.

Also, the following associations were closely assisted in the conduct of their periodic regular meetings:

1. Farm Service Providers (FSP) of Region I
2. Small Water Impounding System Association (SWISA) Federation of Region I Inc.
3. Ilokos Region (Region I) Pambansang Mannalon, Mag-uuma, Magbabaul, Magsasaka ng Pilipinas (P4MP) Association Inc. (Farmer Association)
4. Federation of Rural Improvement Clubs of Region I Inc.
5. Region I Federation of Corn Growers Cluster Association Inc.
6. Federation of Vegetable Growers Association of Region I Inc.
7. Federation of Mango Stakeholders Association of Region I Inc.
8. United Farmer Livestock School - Integrated Goat Management Association of Region I Inc. (UFLS-IGMARI)
9. Young Filipino Farmers Training Program in Japan Alumni Association Region I Inc. (YFFTPJAA-RI)
10. Farm Home Extensionist Association of the Philippines (FHEXAP) Region I Chapter



*Hon. Amado T. Espino Jr., Governor of Pangasinan, served as keynote speaker during the 1st Ilokos Regional Pambansang Mannalon Magbabaul Maguuma Magsasaka ng Pilipinas (P4MP) Congress held in Lingayen Pangasinan last June 16-17, 2017 benefiting with 250 participants.*

## Agribusiness and Marketing Development

The Agribusiness and Marketing Assistance Division (AMAD) conducted various agribusiness and market development interventions.

There were three investment fora and five series of investment seminar with a total of 380 participants conducted, focusing on farming and production technologies of cacao, native pig, goat, mushroom, organic tilapia and prawn, and dragon fruit production towards Good Agricultural Practices (GAP) and Good Agricultural and Handling Practices (GAHP) certification for fresh products and processing.

Also, four batches of training on Agri-based Enterprise Development and Capability Building for Cassava Food Processors and Goat Raisers were conducted benefiting 105 cassava processors and 107 goat raisers. The training focused on the procedures and requirements in business registration and licensing, entrepreneurial skills marketing and financial management, and awareness to the access on financing institutions.

The AMAD, in collaboration with the LGU-San Carlos City, and the Provincial LGU of

Pangasinan, conducted a Regional Road Show for the promotion of brown rice, mango, chili and dragon fruit by-products. The brown rice was piloted in various rice retail outlets in the region.

Moreover, market linkages/matches/encounters between producers & buyers of ube, shallot, garlic, corn, onion (red creole), peanut, sweet potato, mango, brown rice, dragon fruit and red hot pepper were facilitated generating Php 10,336,000 sales from the total sold volume of 50 metric tons.

Likewise, the DA RFO-I participated in the three international trade fair exhibits, namely: SIAL ASEAN-Manila, Madrid Fusion and SIAL Canada. Six small and medium enterprises were assisted in the promotion of products for international market and in three local trade fairs/exhibit: Buy Pinoy Exporters Fair, Agrilink and Manila Food and Beverage Expo. Seven SMEs were assisted in promoting their products.

The Division also continuously conduct monitoring of established six (6) organic trading posts and 36 Food Terminal Projects (FTP) in the region. established in Region I.



*The Agribusiness Promotion Section of the AMAD facilitated the conduct of Investment Seminar for Fresh Agricultural Products benefiting 30 participant-entrepreneurs in the region.*

# Part III.

# DEVELOPMENT PROJECTS

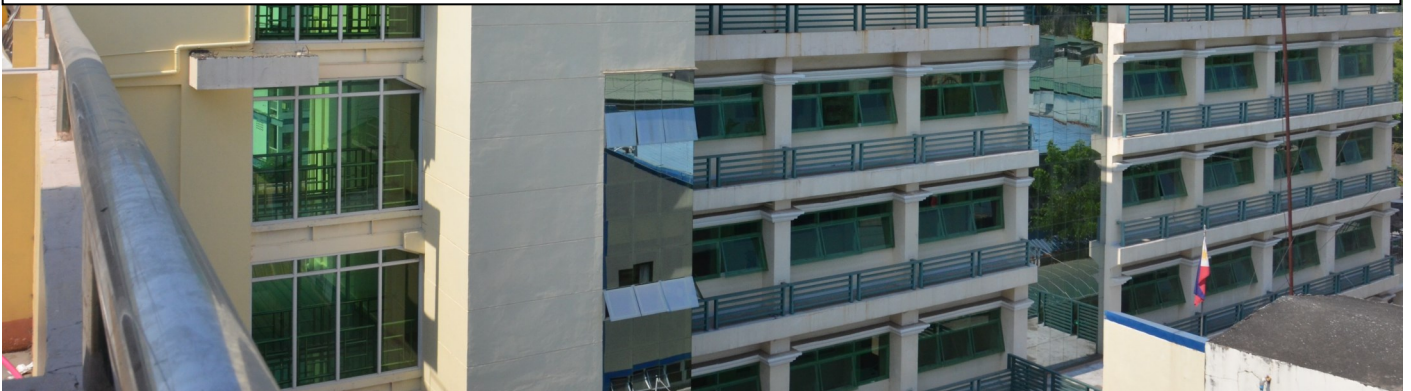


## REGIONAL OFFICE AND STATIONS

### DA-RFO I Regional Office, San Fernando City La Union



*The newly improved/renovated main 5-storey building (upper photo) of DA-RFO I regional office at San Fernando City, La Union connected with its adjacent annex building (lower photo).*



This year, the DA RFO-I continued the improvement of buildings/facilities in order to maintain and/or enhance work productivity and efficiency of the employees.

At the regional office, the main 5-storey building was improved/renovated to complement with the newly-constructed annex building with roof deck. The improvement, which costs PhP 3 Million, focused on

the face-lifting exterior modern design of the building.

The building houses the Office of the Regional Executive Director and the RTD for Operations, and the different divisions/operating units such as Field Operations, Administrative and Finance, Regulatory, ILD, PMED, and the Interim Regional Agricultural Engineering Division .

## **Pangasinan Research and Experiment Center (PREC), Sta. Barbara, Pangasinan**



*Various development projects in PREC Sta. Barbara, Pangasinan are the following: newly-constructed Administrative and Operations building (upper photo), newly-improved garage-motorpool (lower left photo), and the HVCDP seed storage (lower right photo).*

A new 2-storey building edifice for Administrative and Operations with a total project cost of PhP19 Million was constructed in PREC, Sta. Barbara, Pangasinan. This expansion building will accommodate 35 technical and non-technical personnel of the PREC.

Other projects in the center were the following:

- Improvement of garage motorpool with project cost of PhP1,085,000.00;
- Construction of the fertilizer and chemical bodega

worth PhP1,000,000.00;

- Construction of HVCDP seed storage amounting to PhP500,000.00; and the
- Construction of Phase 1 of the Integrated Laboratories Division.

The Phase I, which comprised of the Regional Soils Laboratory amounting to PhP4.5 Million, was funded by the Organic Agriculture Program.

## On-going construction of the Integrated Laboratories Building



The Phase II of the Integrated Laboratories Building, which will house the Regional Feed Testing Laboratory and the Regional Soils Laboratory, has a total project cost of Php10 Million, of which Php4.5 Million was funded by the Rice Banner Program and Php 5.5 Million from the General Administrative and Support Services (GASS) fund. However, the bid amount was Php 9,499,581.50 Million, savings will be used for waste storage facility with an amount of Php 499,610.38.

The Phase III of the building, which will be implemented in 2018 with total cost of Php33 Million, will be for the RADDL and RCPC, to include construction of fence, staff quarters and finishing works.

The establishment of the new ILD building together with the acquisition of new laboratory equipment will enhance efficiency of laboratory services.

## Pangasinan Research and Experiment Center (PREC), Sual, Pangasinan



*The newly improved/renovated main 5-storey building (upper photo) of DA-RFO I regional office at San Fernando City, La Union connected with its adjacent annex building (lower photo).*

For 2016, the Organic Demonstration Center cum Multi-Purpose Building in PREC-Sual, Pangasinan, which was constructed in 2015, was landscaped modifying the external design through adding/planting ornamental plants. The conference room of the facility was already utilized for the conduct of meetings/trainings/workshop. Also, the facility

provides room accommodation for participants.

Other development projects in the center were the construction of the motorpool-garage, eggroom/house and the HVCDP seed storage bodega, including the improvement of the duckhouse for Mallard and Peking duck production.

## Ilocos Norte Research and Experiment Center (INREC), Dingras, Ilocos Norte



Major station development projects in Ilocos Norte Research and Experiment Center (INREC) in Dingras, Ilocos Norte were as follows:

1. Construction of duplex building (PhP7 Million)
2. Upgrading of 2-storey guest house (PhP2.72 Million);
3. Improvement of employees' quarter (PhP2.1 Million);
4. Rehabilitation of livestock office (PhP2.42 Million);
5. Construction of HVCDP storage (PhP500,180.39);
6. Rehabilitation of 633.2 linear meter perimeter fence (3rd phase) (PhP1.74 Million);
7. Concreting of drainage canal and access road to ruminant shed (PhP998,030);
8. Improvement of administrative building (3rd phase) (PhP3 Million);
9. Improvement of cattle shed (PhP429,246); and
10. Establishment of nursery (PhP497,411).

## **Part IV.**

# **SPECIAL/OTHER PROGRAMS AND PROJECTS**

## PHILIPPINE RURAL DEVELOPMENT PROJECT (PRDP)

For 2016, Ilocos Region continuously supported the implementation of the Philippine Rural Development Project (PRDP) with strong partnership with Local Government Units (LGUS) in the region. The PRDP is a six-year national program designed to establish the government platform for a modern, climate-smart and market oriented agri-fishery sector.

The program aims to increase at least 5% of the annual real incomes of farmer-beneficiaries with a 30% increase in income of targeted beneficiaries of enterprise development; attain 7% increase in value of annual marketed output; and have a 20% increase in the number of farmers & fishers with improved access to DA services.

Updates of the PRDP components— the I-PLAN, I-BUILD, I-REAP and I-SUPPORT, are as follows:

### I-PLAN

The I-PLAN Component or the **Investments in Agriculture and Fisheries Modernization Program (AFMP) Planning at the Local and National levels** aims to strengthen the DA's planning and budget execution processes through the institutionalization of the AFMP as the basis for resource allocation and prioritization of DA programs, projects, and activities implemented at the national and regional levels. Enhancing the

process of planning and budgeting entails the use of scientific tools such as the vulnerability and suitability assessment (VSA), expanded VSA (E-VSA), rapid market analysis (RMA) and value chain analysis (VCA).

There are ten priority commodities of Region I to be supported by the PRDP, namely: **mango, peanut, goat, onion, garlic, bangus, tomato, mungbean, dragon fruit** and **coffee**. These commodities were subjected to VCA, the result of which shall be integrated in the preparation of Provincial Commodity Investment Plans (PCIPs) of all provinces in the region. PCIP is a rolling plan of the Provincial Local Government Units (PLGUs) containing specific infrastructure and enterprise sub-projects in support to development of the commodities.

To date, VCAs of goat, onion, peanut, mungbean, tomato and bangus were already issued with No Objection Letter (NOL). Specific statuses of VCAs and PCIPs are shown in Table 7. All provinces are currently updating their respective enhanced PCIP to incorporate VCA results.

In preparation for the updating of the AFMP 2018-2022, the I-PLAN Component has already conducted an assessment of the provincial performances vis-à-vis AFMP 2011-2017 several

**Table 8. Status of Value Chain Analysis of Priority Commodities in Region I**

Commodity	VCA Status	Incorporated in the PCIP
Mango	For NPCO approval	Ilocos Norte, Ilocos Sur, La Union and Pangasinan
Onion		Ilocos Norte, Ilocos Sur and Pangasinan
Goat		Ilocos Sur, La Union, Pangasinan
Peanut		Ilocos Sur, La Union, Pangasinan
Tomato	Issued with No Objection Letter (NOL)	On-going draft for all provinces
Mungbean		On-going draft for all provinces
Bangus		On-going draft for Pangasinan
Garlic	For NPCO approval	-
Dragon Fruit	Incorporating results of preliminary Joint Technical Review	-
Coffee	Incorporating results of Focus Group Discussions (FGD)	-

issues in agriculture and fisheries modernization through the refinement of the AFMP Planning Framework and Guidelines that would serve as basis for plan iteration. Updating the AFMP targets and accomplishments would also include the discussion of the DA implementation's strengths and weaknesses. The corresponding expected outcome is that the

AFMP effectively becomes the basis for rationalizing, prioritizing, and coordinating investment and support service delivery by the DA.

Through the I-PLAN, the PRDP aims to achieve the intermediate results in the form of agreed-upon PCIPs based on national/regional AFMP.



*The I-PLAN Component of RPCO I, headed by Ms Doris Joy C. Garcia, facilitated the conduct of assessment of the provincial performances based on their AFMP 2011-2016.*

## I-BUILD

The I-BUILD Component or the *Intensified Building-Up of Infrastructure and Logistics for Development* focuses on the improvement of road networks from production areas to market areas. It will also include interventions that will help increase productivity of farmers such as the development of farm-to-market roads, bridges, communal irrigation, potable water systems, post-harvest facilities, production facilities & trading posts, etc.

To date, Region I has a total **26 rural infrastructure sub-projects** (SPs) amounting to **PhP 1.36 Billion (Table 9)**. Bulk of the SPs were proposed by the Province of Ilocos Norte contributing 52.77% or 15 SPs with total project

cost of PhP719.04 Million. This was followed by the Ilocos Sur with 5 SPs worth PhP301.73 Million and La Union with 3 SPs amounting to PhP198.06 Million contributing 22.1% and 14.5%, respectively. The remaining 10.5% was shared by Pangasinan with 3 SPs with total project cost of PhP143.64 Million.

Of the total SPs, 12 are stand-alone sub-projects covering construction of warehouses, multi-purpose drying pavements and tramlines. These sub-projects are supporting the development of other commodities in the region such as rice and corn

The pilot I-BUILD SP of Region I—the Rehabilitation of Balebec Farm-to-Market Road



**Table 9. I-BUILD (Rural Infrastructure) Sub-Projects, Region I**

Province	Name of Sub-Project	Municipality	Type	Description (i.e. length, area)	Budget (Php)	Status
Ilocos Norte	1. Rehabilitation of Nalasin-Sungadan-Langiden Farm to Market Road	Paoay	FMR	4.934 km	67,330,338.99	Under Implementation
	2. Construction of Mabanbanag Solar Dryer	Vintar	Other Infra	420 m <sup>2</sup>	1,373,019.24	For awarding of contract
	3. Construction of Salsalamagui Solar Dryer	Vintar	Other Infra	420 m <sup>2</sup>	1,152,159.34	
	4. Construction of Mallaggao Solar Dryer	Adams	Other Infra	420 m <sup>2</sup>	1,339,273.01	
	5. Construction of Sinidangan Solar Dryer	Adams	Other Infra	420 m <sup>2</sup>	1,012,903.79	
	6. Rehabilitation of Billoca-San Juan Farm to Market Road and Bridges	Batac City	FMR with Bridge	12.16 km FMR and 79 lm bridge	170,327,000.00	
	7. Construction of Uguis Solar Dryer	Nueva Era	Other Infra	1,020 m <sup>2</sup>	2,302,000.00	Preparation of BER
	8. Construction of Garnaden Solar Dryer	Nueva Era	Other Infra	480 m <sup>2</sup>	1,114,000.00	Preparation of BER
	9. Construction of Naguillian Solar Dryer	Nueva Era	Other Infra	594 m <sup>2</sup>	1,324,000.00	Preparation of BER
	10. Construction of Acnam Solar Dryer	Nueva Era	Other Infra	420 m <sup>2</sup>	1,077,000.00	Preparation of BER
	11. Construction of Maligligay Solar Dryer	Adams	Other Infra	420 m <sup>2</sup>	1,405,963.90	BER under review by the RPCO
	12. Rehabilitation of Tapao-Tigue-Poblacion 2-Sta. Cruz-Lang-ayan Farm to Market Road	Currimaog	FMR	6.59 km	50,442,000.00	Proponent LGU to proceed with pre-procurement conference
	13. Rehabilitation of Fortuna-Daquioag FMR	Marcos	FMR	4.9 km	59,231,806.65	For Issuance of NOL 1
	14. Rehabilitation of Visaya-Tamdagan Farm to Market Road and Bridges	Vintar	FMR with BRIDGE	32.3 km FMR and 180 lm bridge	274,574,570.00	Proponent LGU preparing / drafting the Subproject Feasibility Study (FS)
	15. Rehabilitation of Teppang-Paninaan Farm to Market Road	Bacarra	FMR	8.86 km	85,035,994.00	Proponent LGU preparing / drafting the Subproject Feasibility Study (FS)
	<b>Sub-total</b>				<b>719,042,028.92</b>	
Ilocos Sur	16. Rehabilitation of Tubigay-Baracbac-Nagcullooban Farm to Market Road	Sinait	FMR	6.17 km	76,529,718.89	For awarding of contract
	17. Construction of Namita Agricultural Tramline System	Cervantes	Other Infra	530 m <sup>2</sup>	4,687,049.46	For awarding of contract
	18. Construction of Packaging Center - Cabugao, Ilocos Sur	Cabugao	Other Infra	200 m <sup>2</sup>	4,828,230.69	For awarding of contract
	19. Construction of Sto. Domingo Municipal Warehouse with Multi-Purpose Drying Pavement	Sto. Domingo	Other Infra	350 m <sup>2</sup> warehouse with 1000 m <sup>2</sup> drying pavement	9,342,000.00	For conduct of pre-bid Conference
	20. Rehabilitation of Pug-Os-Nagcullooban Farm to Market Road	Cabugao	FMR	15.48 km	206,348,000.00	Proponent LGU to proceed with pre-procurement conference
	<b>Sub-total</b>				<b>301,734,999.04</b>	
La Union	21. Rehabilitation of Balebec-Basca Farm to Market Road and Balebec Bridge	Naguillian	FMR with Bridge	7.90 km FMR and 30 lm bridge	115,365,467.00	Under Implementation
	22. Construction of Malicnao Bridge	Pugo	Bridge	83 lm	34,677,000.00	Proponent LGU to proceed with pre-procurement conference
	23. Rehabilitation of Parasapas Farm to Market Road with Bridge	Rosario	FMR with Bridge	2.99 km and 15 lm bridge	48,020,345.44	For Issuance of NOL 1
	<b>Sub-total</b>				<b>198,062,812.44</b>	
Pangasinan	24. Construction of Oraan Bridge with Approaches	Manaoag	Bridge	63 lm	20,575,072.76	For awarding of contract
	25. Construction of Municipal Warehouse with Multi-Purpose Drying Pavement	Manaoag	Other Infra	450 m <sup>2</sup>	10,419,627.86	For awarding of contract
	26. Rehabilitation of Gonzales-San Juan Farm to Market Road	Umingan	FMR	10.63 km	112,646,000.00	For conduct of pre-bid Conference
	<b>Sub-total</b>				<b>143,640,700.62</b>	
	<b>Grand-total</b>				<b>1,362,480,541.02</b>	

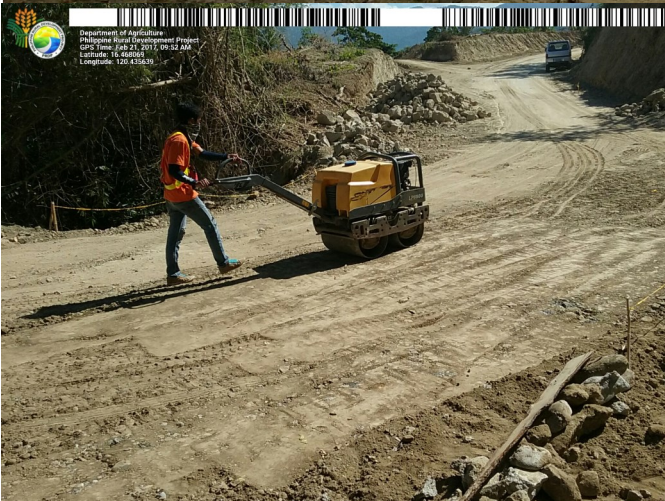
Source: On-line Management Information System of the Monitoring and Evaluation Unit

is currently under implementation. This has a total length of 7.89 kilometers traversing the municipalities of Naguillian and Aringay. Both municipalities are among the priority areas for mango commodity based on the E-VSA in La

Union. Meanwhile, the implementation of its Package 2 or the Balebec Bridge will also be starting with the same contractor—the Gorldrich Construction and Trading.



Department of Agriculture  
Philippine Rural Development Project  
GPS Time: Jan 17, 2017, 08:51 AM  
Latitude: 16.428015  
Longitude: 120.42848



*On-going implementation of the Rehabilitation of Balebec FMR, the pilot I-BUILD sub-project of Region I with a total project cost of PhP91.87 Million.*

## I-REAP

The I-REAP Component or *Investments in Rural Enterprises and Agriculture & Fisheries Productivity* focuses on enhancing productivity and increasing resiliency to climate changes of producers, and smallholder farmer groups through provision of production and marketing support, establishment and upscaling enterprises at the appropriate commodity value-chain segment and enhancing capacities of farmers in technology adoption, agri-fishery management and operation, among others.

RPCO I has a total of **53 enterprise sub-projects**, of which, **47 are Small Livelihood Projects (SLPs) or Micro Enterprises** and **six (6) are Regular and Start-up Enterprises** with total project cost of PhP55.87 Million and PhP34.09 Million, respectively.

The six Regular and Enterprises has a total project cost of PhP34.09 Million as shown in **Table 10**. Of this, one SP in Cabugao, Ilocos Sur—the

Fresh Green Carabao Mango Production, Trading and Marketing Enterprise amounting to PhP8.27 Million is already under procurement activity.

For the SLPs, one SP, the Farm Mechanization Service Facility worth Php 1.2 Million of the Womens' Unity for Progress and Farmers' MPC of Mapandan, Pangasinan, was already completed (**Table 11**).

Five SLPs were already issued with NOL 2 and 41 SPs were given with NOL 1, all are currently under procurement activities.

By provincial breakdown, Pangasinan contributed the highest share at 61.2% or 28 SPs worth PhP34.17 Million. The Province of La Union has ten (10) SPs amounting to PhP12 Million. Ilocos Norte and Ilocos Sur have 5 SPs worth PhP4.7 Million and 4 SPs worth PhP4.9 Million, respectively.

**Table 10. Regular I-REAP (Rural Enterprises) Sub-Projects, Region I**

Province	Name of Sub-Project	Location	Proponent Group	Budget (PhP)	Status
Ilocos Norte	Onion Production, Consolidation and Marketing Enterprise	Pasuquin	Pasuquin Farmers Onion-Garlic Growers Association	2,400,000.00	For Issuance of NOL 1
	Fresh Green Carabao Mango Production, Trading and Marketing Enterprise	Vintar	Ilocos Norte Federation of Mango Producers, Inc.	8,700,558.00	For Issuance of NOL 1
Ilocos Sur	Production and Marketing of Fresh Carabao Mangoes	Cabugao	Cabugao Mango Farmers Multi-Purpose Association	8,266,108.38	For Procurement
	Integrated Quality Peanut Seed Production and Farm Service Enterprise	Sta. Lucia	Conconig East Farmers Multi-Purpose Cooperative	3,574,900.00	For Issuance of NOL 1
La Union	Green Carabao Mango Production, Consolidation and Marketing Enterprise	Bauang	Palugsi-Limmansangan Multi-Purpose Cooperative	6,721,326.00	For Issuance of NOL 1
Pangasinan	Yellow Granex Production, Consolidation and Trading Enterprise	Alcala	Alcala Onion Growers Multi-Purpose Cooperative (AOGMPC)	4,429,976.00	For Issuance of NOL 1

**Table 11. Small Livelihood Projects (SLPs) of I-REAP(Rural Enterprises) Sub-Projects, Region I**

Province	Name of Sub-Project	Location	Proponent Group	Budget (Php)	Status
Ilocos Norte	1. Corn and Livestock Intergration and Trading Enterprise	Bacarra	Bacarra Zanjera Irrigators Multi-Purpose Cooperative	1,347,500.00	Issued with NOL 1
	2. Production Support Facility Service	Piddig	Piddig Basi Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	3. Farm Mechanization Service Facility	Piddig	Dupitac Agrarian Reform Beneficiaries Organization Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	4. Farm Mechanization Service Facility	Piddig	Namnana Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	<b>Sub-total</b>			<b>4,947,500.00</b>	
Ilocos Sur	5. Production of Seed Planting Materials for Peanut and Farm Equipments/Implements Services	Sto. Domingo	Municipal Federation of Rural Improvement Club of Sto. Domingo	1,080,570.00	Issued with NOL 1
	6. Farm Mechanization Service Facility	Burgos	Lumaban Agrarian Reform Cooperative	1,150,000.00	Issued with NOL 2
	7. Corn and Squash Production and Trading Enterprise	Sto. Domingo	Metro Nambaran Agrarian Reform Cooperative	1,200,000.00	Issued with NOL 1
	8. Farm Mechanization Service Facility	Sta. Maria	Sta. Maria South Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	9. Farm Mechanization Service Facility	Cabugao	New Maradodon Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	<b>Sub-total</b>			<b>4,750,000.00</b>	
La Union	10. Farm Mechanization Service Facility	Balaoan	San Pablo Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	11. Farm Mechanization Service Facility	Balaoan	Calliat Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	12. Farm Mechanization Service Facility	Tubao	Halog West Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	13. Farm Mechanization Service Facility	San Gabriel	Lacong Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	14. Farm Mechanization Service Facility	Sudipen	Namaltugan Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	15. Farm Mechanization Service Facility	Bacnotan	Cabaroan Agricultural Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	16. Farm Mechanization Service Facility	Rosario	Pusunangtatay Agrarian Reform Beneficiaries Organization Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	17. Farm Mechanization Service Facility	Caba	San Jose Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	18. Farm Mechanization Service Facility	Bangar	Sinapangan Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
19. Farm Mechanization Service Facility	San Juan	Talogtog Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1	
	<b>Sub-total</b>			<b>12,000,000.00</b>	
Pangasinan	21. Farm Mechanization Service Facility	Mapandan	Women's Unity for Progress and Farmers' MPC	1,200,000.00	completed
	22. Farm Mechanization Service Facility	San Fabian	Anonang Baraoas Irrigators, Inc.	1,198,000.00	Issued with NOL 2
	23. Farm Mechanization Service Facility	San Fabian	Makabagong Magsasaka Irrigators' Association	1,198,000.00	Issued with NOL 2
	24. Farm Mechanization Service Facility	San Carlos City	Mamarlao Multi-Purpose Cooperative	1,178,560.00	Issued with NOL 1
	25. Farm Mechanization Service Facility	San Fabian	Palapad Farmers Irrigators Assn. Inc.	1,198,000.00	Issued with NOL 2
	26. Farm Mechanization Service Facility	San Fabian	Samaka Magbayanihan Farmers Association	1,198,000.00	Issued with NOL 2
	27. Farm Mechanization Service Facility	San Fabian	Angio Taculit Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	28. Farm Mechanization Service Facility	San Fabian	Samahang Magsasaka ng Longos Proper Farmers Associations, Inc.	1,236,000.00	Issued with NOL 1
	29. Farm Mechanization Service Facility	San Fabian	Lateral AF Farmers Irrigators Association Incorporated	1,202,138.00	Issued with NOL 1
	30. Farm Mechanization Service Facility	San Fabian	Binday Palapad Tomaneng Irrigators Association Incorporated	1,882,000.00	Issued with NOL 1
	31. Farm Mechanization Service Facility	Lingayen	BLP Farmers and Irrigators Association	1,080,570.00	Issued with NOL 1
	32. Farm Mechanization Service Facility	San Fabian	Aramal Tocok FFF Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	33. Farm Mechanization Service Facility	Malasiqui	Atlas Mabuna Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	34. Farm Mechanization Service Facility	Villasis	Capulaan Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	35. Farm Mechanization Service Facility	Urdaneta	Catablan Agrarian Reform Cooperative Credit Cooperative	1,200,000.00	Issued with NOL 1
	36. Farm Mechanization Service Facility	Bolinao	Catuday ARC	1,200,000.00	Issued with NOL 1
	37. Farm Mechanization Service Facility	Bani	Centro Toma Colayo Farmers Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	38. Farm Mechanization Service Facility	Alaminos City	Bayanihan Hundred Islands Agrarian Reform Cooperative	1,200,000.00	Issued with NOL 1
	39. Farm Mechanization Service Facility	Bugallon	Laguait Padilla Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	40. Farm Mechanization Service Facility	Mapandan	Lambayan Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	41. Farm Mechanization Service Facility	Balungao	Maresma Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	42. Farm Mechanization Service Facility	Umingan	Nayon Credit Cooperative	1,200,000.00	Issued with NOL 1
	43. Farm Mechanization Service Facility	San Quintin	Saint Paschal Baylon MPC	1,200,000.00	Issued with NOL 1
	44. Farm Mechanization Service Facility	Natividad	Saranay Agrarian Reform Cooperative	1,200,000.00	Issued with NOL 1
	45. Farm Mechanization Service Facility	Binmaley	Southern Binmaley Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1
	46. Farm Mechanization Service Facility	Umingan	Tay-Ak Marketing Cooperatives	1,200,000.00	Issued with NOL 1
	47. Farm Mechanization Service Facility	Basista	Mapolpolo Agrarian Reform Cooperative	1,200,000.00	Issued with NOL 1
47. Farm Mechanization Service Facility	San Quintin	Raniag Mantacadang Multi-Purpose Cooperative	1,200,000.00	Issued with NOL 1	
	<b>Sub-total</b>			<b>34,171,268.00</b>	
	<b>Grand-total</b>			<b>55,868,768.00</b>	

## REGIONAL CONVERGENCE INITIATIVE FOR SUSTAINABLE RURAL DEVELOPMENT (RCI-SRD) - REGION 1

The Regional Convergence Initiative for Sustainable Rural Development (RCI-SRD) in Region I intensified its support to ensure the effective implementation of the different program components, projects, and activities under the enhanced National Convergence Initiative (NCI) that will spearhead the rural development in the region.

The pilot convergence area development project of Region I, the **Piddig Inclusive Organic Coffee Production Project** in Piddig, Ilocos Norte, continued to soar through sustained partnership of the LGU-Piddig, Ilocos Norte with the RCI-SRD member-agencies in the implementation of

rural development projects in the area.

The project covers 1,130 hectares of lowland coffee (Robusta, Liberica and Excelsa) and 560 hectares of highland coffee benefitting almost 1,000 families. Currently, a total of a total of 1,205,334 coffee seedlings of Arabica, Excelsa, Liberica and Robusta were planted covering 1,246.60 hectares.

For CY 2016, the DA-RFO I completed the establishment of Rice Processing Center (RPC) II worth PhP16 million. Updated interventions of RCI-SRD I to the pilot project are shown in **Table 12**.

**Table 12. Interventions of RCI-SRD I member-agencies to the Piddig Convergence Area**

RCI-SRD I member-agencies	Interventions
DA	<ul style="list-style-type: none"> <li>• Provision of 225,000 Arabica coffee seedlings as initial planting materials planted at a 10 hectare area of the project with additional input assistance of 300 bags organic fertilizer thru the High Value Crops Development Program (HVCDP).</li> <li>• Provision of PhP98 Million for the construction of the 10.4 kilometer Abucay-Estancia Farm-to-Market Road (FMR) project leading to the coffee plantation</li> <li>• Establishment of the PhP 16 Million worth of Agri-Pinoy Rice Processing Center II</li> <li>• Provision of fund for the implementation of <i>Bottom-up Budgeting (BuB)</i> projects for 2015 with total cost of PhP7,650,000.00, broken down as follows: <ul style="list-style-type: none"> <li>◊ Concreting of canal lining of Zanjera Sallaguid Irrigation System (PhP 500,000.00)</li> <li>◊ Rehabilitation of Zanjera Dalao Communal Irrigation System (PhP 4,500,000.00)</li> <li>◊ Concreting of the 300-meter canal lining of Zanjera Anсад (Calambeg) Irrigation System (PhP 500,000.00)</li> <li>◊ Vermi-composting (PhP850,000.00)</li> <li>◊ Goat raising project ( PhP1,300,000.00)</li> </ul> </li> </ul>
DENR	<ul style="list-style-type: none"> <li>• Provision of a total of PhP 62 Million for the establishment of nurseries, seedling production and for plantation establishment, maintenance and protection (National Greening Program)</li> <li>• Funded the 337,000 Kakawate seedlings and 71,000 Timber seedlings as shade trees</li> </ul>
DPWH	<ul style="list-style-type: none"> <li>• Flood control and agri-infra support dam</li> </ul>
DAR	<ul style="list-style-type: none"> <li>• Conduct of trainings and orientations for the member-farmers of the cooperative</li> </ul>
DSWD	<ul style="list-style-type: none"> <li>• Provision of checks for organic fertilizer worth PhP200,000.00</li> </ul>
DTI/ DOLE	<ul style="list-style-type: none"> <li>• To establish coffee processing facility worth PhP2 Million</li> </ul>
ATI, SUCs (MMSU, BSU, CSU)	<ul style="list-style-type: none"> <li>• Conduct of trainings on seedling production, nursery maintenance, and plantation establishment and maintenance</li> </ul>
NIA	<ul style="list-style-type: none"> <li>• Establishment of four (4) units of small water impounding projects worth PhP130 Million</li> </ul>
PCA	<ul style="list-style-type: none"> <li>• To deliver 1,000 coconut seedlings worth PhP75,000.00</li> </ul>



*(Upper photo) On-going cultivation of coffee plantings by the farmer-beneficiaries of Piddig Inclusive Organic Coffee Production Project in Barangay Lammin, Piddig, Ilocos Norte. (Lower photos) Initial coffee plantings, which were funded by the High Value Crops Development Program (HVCDP) - Region I and planted in a 10-hectare area, are currently at fruiting stage.*

Meanwhile, the Province of Ilocos Sur is duplicating the strategy of LGU-Piddig with their proposed convergence initiative entitled “**Institutionalization of District-wide Agro-industrialization, Innovation, and Tourism**” or **IDAIT**. *Idait* is an Ilocano lingo which means “to sew” thus reflects the concept of IDAIT of bringing together or stitching together various agencies to create the entrepreneurial ecosystem in the province of Ilocos Sur.

IDAIT was conceptualized by Ilocos Sur 1<sup>st</sup> District Congressman Deogracias Victor Savellano. The project, which is an innovation-driven and market-oriented platform, was presented during the 2016 4<sup>th</sup> Quarter RCI-SRD I Regular Meeting. It is a strategy where various agencies will come together whether it is on agriculture, tourism or innovation but the central idea is to work together bringing in whatever support (programs) the agencies can provide in order to realize the goals and

objectives of the convergence initiative. It is anchored on participatory development approach by actively engaging stakeholders in value chain integration to connect production, processing up to market development.

From the three economic sectors such as agriculture, industry or industrialization and services, the IDAIT platform focuses on agriculture as entry point to jumpstart its goal for structural transformation. Since one of the main focus of the convergence is the development of agricultural enterprise based on the IDAIT platform, strategies to be implemented should address food and income security. And to achieve this, the proposed **pilot enterprise** is on egg production and termed in the IDAIT platform as **EGGpreneurship**.

EKGpreneurship was considered as the focus and the entry point of convergence in the province. It is linked to downstream technologies from egg production to poultry production, and feeds production that links to corn and soya production, etc. Taking the fact the nutritional value of egg and proven that one egg per day meets nutritional requirement of the body, the EKGpreneurship will be developed and enhanced with the participation of the different agencies.

To provide a general orientation about IDAIT and create a right mindset and deeper understanding of the proposed convergence initiative of Ilocos Sur, a two-day strategic planning workshop was conducted in Vigan City, Ilocos Sur. Participants to the workshop were representatives of the various agencies that are tapped to provide interventions to the Ilocos Sur convergence area spearheaded by the four major rural development agencies, the Department of Agriculture (DA), Department of Agrarian Reform (DAR), Department of Environment & Natural Resources (DENR) and Department of Interior and Local Government Unit (DILG).



*(Upper photo) Cong. DV Savellano discussed the concept of IDAIT during the 2016 4<sup>th</sup> Quarter RCI-SRD I Meeting with the member-agency heads and representatives (lower photo).*



## BOTTOM-UP BUDGETING (BuB) PROGRAM

The DA-RFO I through the Bottom-up Budgeting (BuB) Program approved a total amount PhP1.12 Billion as funding support from CY 2014-2016 for various agricultural and fishery machineries, equipment and facilities, irrigation and technical support services including Farm-to-Market Roads (Table 13).

The BuB is an anti-poverty strategy of the government in support to the Millenium Development Goal (MDG) on poverty reduction in the country orchestrated by the Department of the Interior and Local Government (DILG), in coordination with the National Anti-Poverty Council (NAPC), Department of Agriculture (DA) and the Department of Social Welfare and Development (DSWD).

Bulk of the total fund was utilized by the Agri-Fishery Machineries, Equipment and Facilities Support Services contributing 38.4% or PhP 430.4 Million with 269 projects.

The Irrigation Network Services shared 35.1% or PhP393.2 Million worth of 208 projects. The remaining 26.5% or a total project cost of PhP PhP294.6 Million was contributed by various Technical Support Services and FMRs.

A total of 714 projects were funded by the BuB from 2014-2016. Of this, 216 projects were only completed while 159 and 28 projects were pipelined and on-going implementation, respectively.

**Table 13. Bottom-up Budgeting (BuB) Program, CY 2014-2016, Region I**

Projects	No. of Projects	Project Cost (PhP)	Status of Implementation				% Accomplished
			Proposed	Pipelined	On-going	Completed	
<b>A &amp; F Machineries, Equipment &amp; Facilities Support Services</b>							
> 2014	27	36,054,123	-	-	-	27	100
> 2015	103	162,166,457	-	3	6	94	91
> 2016	139	232,076,900	-	94	11	34	24
<b>Sub-total</b>	<b>269</b>	<b>430,297,480</b>	<b>-</b>	<b>97</b>	<b>17</b>	<b>155</b>	<b>58</b>
<b>Irrigation Network Services</b>							
> 2014	63	104,171,699	-	-	1	62	98
> 2015	61	107,227,758	-	10	8	43	70
> 2016	84	181,802,710	1	51	13	19	23
<b>Sub-total</b>	<b>208</b>	<b>393,202,167</b>	<b>1</b>	<b>61</b>	<b>22</b>	<b>124</b>	<b>60</b>
<b>Technical &amp; Support Services</b>							
> 2014	121	101,172,230	-	-	1	120	99
> 2015	70	74,477,498	-	1	7	62	89
> 2016	1	4,100,000	-	-	1	-	-
<b>Sub-total</b>	<b>192</b>	<b>179,749,728</b>	<b>-</b>	<b>1</b>	<b>9</b>	<b>182</b>	<b>95</b>
<b>FMR</b>							
> 2014	45	117,902,510	-	-	-	45	100
<b>Summary</b>							
> 2014	256	359,300,561	-	-	2	254	99
> 2015	234	343,871,713	-	14	21	199	85
> 2016	224	417,979,610	1	145	25	53	24
<b>TOTAL</b>	<b>714</b>	<b>1,121,151,884</b>	<b>1</b>	<b>159</b>	<b>48</b>	<b>506</b>	<b>71</b>





*Completed BuB-funded project in Quirino, Ilocos Sur—the “Concreting of Marban Irrigation Canal” with project cost of PhP 500,000.00 benefiting 161 farmers with total service area of 96 hectares.*



# Part V.

# Achievers Awards

## RICE ACHIEVERS AWARD

This year, Ilocos Region bagged a total of 51 awards under the category of Outstanding Province, Outstanding City/Municipality, AEW and Local Farmer Technician. The Provinces of Pangasinan and La Union were hailed as Outstanding Provinces while the Municipality of Solsona, Ilocos Norte was awarded as Outstanding Municipality. Winners were awarded with Php4,000,000.00 and Php1,000,000.00 worth of project, respectively.

The national search for Rice Achievers' Awards was conceptualized to give recognition to the outstanding stakeholders (provinces, municipalities, Irrigators Associations (IAs), and Agricultural Extension Workers (AEWs) for their significant contribution in the attainment of rice self-sufficiency under the National Rice Self-Sufficiency Program (RSSP).

There were 44 awardees for Outstanding AEWs and 4 winners for Outstanding LFTs in the region as shown in **Table 14**. Awardees were awarded with Php20,000.00 each as cash incentive or a total of Php880,000.00. Likewise, the Ilocos Norte received Special Award as one of the 12 nominees for the Outstanding Province in the country. The province was awarded with PhP500,000 worth of project/s,

Best provinces, cities/municipalities, and AEWs were chosen based on the positive production growth for 2016, increase in yield and production area, degree of utilization of high quality seeds, amount of budget allocated for rice production, number of manpower deployed to rice program, and must have attained the national average yield target of 4 metric tons per hectare, among other criteria.



*The Province of Pangasinan was hailed as Outstanding Province during the awarding ceremonies of the 2016 Rice Achievers Awards. The province was awarded with PhP 4 Million worth of projects which was received by Hon. Vice Governor Jose Ferdinand Calimcim and OIC- Provincial Agriculturist Dalisay Moya.*

**Table 14. Ilocos Region Outstanding AEWs and LFTs, Rice Achievers' Award, 2016**

CATEGORY/NAME		OFFICE/CITY/ MUNICIPALITY	PROVINCE	DESIGNATION
<b>OUTSTANDING AGRICULTURAL EXTENSION WORKERS (AEWs)</b>				
<b>PANGASINAN</b>				
1	Dalisay A. Moya	OPAg	Pangasinan	Provincial Agriculturist
2	Nestor P. Batalla	OPAg	Pangasinan	Provincial Rice Coordinator
3	Danilo V. Villamil	OPAg	Pangasinan	Provincial ESETS Coordinator
4	Rita A. Prieto	OPAg	Pangasinan	Provincial Rice Report Officer
5	Gemma DG. Rosario	OPAg	Pangasinan	Provincial Techno Demo Coordinator
6	Irene T. Estrada	OPAg	Pangasinan	Provincial Seed Coordinator
7	Teresita A. Naoe	OPAg	Pangasinan	District IV Seed Inspector
8	Elvira T. Neri	OPAg	Pangasinan	District III Seed Inspector
9	Ronna P. Frianeza	OPAg	Pangasinan	District I Seed Inspector
10	Madelyn V. Valenzuela	OPAg	Pangasinan	District II Techno Demo Coordinator
11	Richard P. Espiritu	Alaminos City	Pangasinan	Agricultural Extension Worker
12	Nancy M. Capua	Sta. Barbara	Pangasinan	Agricultural Extension Worker
13	Danielida B. Sabado	San Manuel	Pangasinan	Agricultural Extension Worker
14	Leonides S. Cristobal	Manaoag	Pangasinan	Agricultural Extension Worker
15	Virginia O. Geronimo	Manaoag	Pangasinan	Agricultural Extension Worker
16	Arnold E. Geronimo	Manaoag	Pangasinan	Municipal Agriculturist
17	Veronica C. Licudo	Natividad	Pangasinan	Agricultural Extension Worker
18	Marichu A. Pastor	Natividad	Pangasinan	Agricultural Extension Worker
19	Gloria D. Peralta	Natividad	Pangasinan	Agricultural Extension Worker
20	Pablo Malla	Natividad	Pangasinan	Municipal Agriculturist
<b>LA UNION</b>				
1	Myrna O. Picazo	OPAg	La Union	Provincial Rice Coordinator
2	Myrna C. Gacutan	OPAg	La Union	Provincial Rice Report Officer
3	Rosemarie P. Garcia	OPAg	La Union	Provincial ESETS and Hybrid Rice Coordinator
4	Myrna C. Balanon	OPAg	La Union	Provincial Techno Demo Coordinator
5	Freddie S. Estipona	Naguilian	La Union	Agricultural Extension Worker
6	Perlita M. Corpuz	Naguilian	La Union	Agricultural Extension Worker
7	Juvy M. Aromin	Naguilian	La Union	Agricultural Extension Worker
8	Willy S. Estabillo	Naguilian	La Union	Agricultural Extension Worker
9	Aurelio F. Flora	Naguilian	La Union	Municipal Agriculturist
10	Jovita P. Abengona	San Juan	La Union	Agricultural Extension Worker
<b>ILOCOS SUR</b>				
1	Marcelino A. Alibin	OPAg	Ilocos Sur	Provincial Rice Program Coordinator
2	Julius A. Bragado	OPAg	Ilocos Sur	Provincial Techno Demo and ESETS Coordinator
3	Nereo S. Daproza	Cabugao	Ilocos Sur	Agricultural Extension Worker
<b>ILOCOS NORTE</b>				
1	Norma B. Lagmay	OPAg	Ilocos Norte	Provincial Agriculturist
2	Luz L. Tabora	OPAg	Ilocos Norte	Provincial Rice Program Coordinator
3	Lolita M. Raposas	OPAg	Ilocos Norte	Provincial Techno Demo Coordinator
4	Danilo V. Arado	OPAg	Ilocos Norte	Provincial Rice Report Officer
5	Lorna P. Lubera	OPAg	Ilocos Norte	Provincial ESETS Coordinator
6	Cornelio A. Balbesino	Dingras	Ilocos Norte	Municipal Agriculturist
7	Norma B. Calamayan	San Nicolas	Ilocos Norte	Municipal Agriculturist
8	Rachel R. Aguilar	San Nicolas	Ilocos Norte	Agricultural Extension Worker
9	Rhonalyn A. Cristobal	San Nicolas	Ilocos Norte	Agricultural Extension Worker
10	Ranison D. Narciso	Solsona	Ilocos Norte	Municipal Agricultural Officer
11	Marnelli T. Colobong	Solsona	Ilocos Norte	Agricultural Extension Worker
<b>OUTSTANDING LOCAL FARMER TECHNICIAN</b>				
<b>PANGASINAN</b>				
1	Ricardo Tandoc	Calasio	Pangasinan	Local Farmer Technician
2	Elizer Salibo	Sta. Barbara	Pangasinan	Local Farmer Technician
3	Jose C. Bernal	Sta. Barbara	Pangasinan	Local Farmer Technician
<b>ILOCOS NORTE</b>				
1	Carlo Patricio Yanos	Pasuquin	Ilocos Norte	Local Farmer Technician

## NATIONAL CORN QUALITY ACHIEVERS AWARD

The National Corn Quality Achievers Award was conceptualized to give recognition to top performing LGUs and DA Regional Field Offices in support to the development of the corn industry, enhance the corn cluster participation and strengthen the DA-LGU partnership in the production of quality corn.

This year, Ilocos Region bagged a total of 28 awards, Ilocos Sur and Pangasinan were hailed as Outstanding Provinces along with its Provincial Agriculturists and Provincial Corn Coordinators as shown in **Table 14**. The municipalities of Binalonan, Pangasinan and Sta. Maria, Ilocos Sur

with their respective Municipal Agriculturists and Corn Coordinators, and the AEWs of Lingayen, Pangasinan and Laoag City, Ilocos Norte, were given the Hall of Fame awards.

Outstanding Provinces received PhP3 Million worth of projects while outstanding cities/municipalities were given PhP1 Million worth of projects each. Outstanding Agriculturists, Corn Coordinators, City/Municipal Agriculturist and Coordinators, and Agricultural Extension workers were given cash prizes. There were additional prizes for the Hall of Fame awardees.



*The Ilocos Region winners/awardees pose with thumbs-up position during the awarding ceremonies of the 2016 National Quality Corn Achievers Awards at the The Farm at Carpenter Hill, Koronadal City South Cotabato on November 16, 2016. Also with the group is Dr. Paz L. Mones, Regional Technical Director for Operations of DA RFO-I (8th from the right), who led the delegation of Region I.*

**Table 14. Region I Awardees/Winners of the 2016 National Corn Quality Achievers Award**

Category	Winners	Municipality/ Province	Award (PhP)
<b>Outstanding Provinces</b>	Pangasinan	Pangasinan	3,000,000.00
	Ilocos Sur	Ilocos Sur	3,000,000.00
<b>Outstanding Provincial Agriculturists</b>	Dalisay A. Moya	Pangasinan	40,000.00
	Constante B. Botacion, Jr.	Ilocos Sur	40,000.00
<b>Outstanding Corn Coordinators</b>	Venancio B. Valeroso	Pangasinan	30,000.00
	Oscar T. Tobia	Ilocos Sur	30,000.00
<b>Outstanding Municipalities/Cities</b>	Binalonan (Hall of Famer)	Pangasinan	2,000,000.00
	Alcala	Pangasinan	1,000,000.00
	Sta. Maria (Hall of Famer)	Ilocos Sur	2,000,000.00
<b>Outstanding Municipal/ City Agriculturists/ Agricultural Officers</b>	Ricardo E. Tabuac (Hall of Famer)	Binalonan, Pangasinan	45,000.00
	Edgardo G. Tugas	Alcala, Pangasinan	30,000.00
	Grace Cardona (Hall of Famer)	Sta. Maria, Ilocos Sur	45,000.00
<b>Outstanding Municipal/ City Corn Coordinators</b>	Manuel O. Luis, Jr.	Binalonan, Pangasinan	40,000.00
	Elizabeth G. Tubera	Alcala, Pangasinan	25,000.00
	Diosdado Mendoza	Sta. Maria, Pangasinan	40,000.00
<b>Outstanding Agricultural Extension Workers (AEWs)</b>	Crisitina A. Sison (Hall of Famer)	Lingayen, Pangasinan	30,000.00
	Benjamin M. Magno	Aringay, La Union	20,000.00
	Sheilla Marie Opelac (Hall of Famer)	Laoag City, Ilocos Norte	30,000.00
	Daisy A. dela Cruz	Mangaldan, Pangasinan	20,000.00
	Lydia C. Macaraeg	Malasiqui, Pangasinan	20,000.00
	Ronan T. Tumbaga	Bantay, Ilocos Sur	20,000.00
	Oliver M. Quidangen	Burgos, Ilocos Sur	20,000.00
	Napoleon E. Campos	Sta. Barbara, Pangasinan	20,000.00
	Janet C. Paulino	Laoag City, Ilocos Norte	20,000.00
	Orlan B. Binala	Ilocos Norte	20,000.00
	Alicia S. Noche	Sta. Barbara, Pangasinan	20,000.00
	Jonathan B. Domingues	San Nicolas, Pangasinan	20,000.00
	Sazima G. Belmonte	San Quintin, Pangasinan	20,000.00

## GAWAD SAKA SEARCH



*DA Undersecretary Engr, Ariel Cayanan served as Guest of Honor and Speaker during the 2016 Regional Gawad Saka Search Awarding Ceremony held last October 16, 2016 at Java Hotel, Laoag City, Ilocos Norte.*

With their outstanding performance in the field of agriculture and fishery, five individuals and four groups of agricultural achievers were awarded by the DA RFO-I during the Regional Gawad Saka

Awarding Ceremonies held at the Java Hotel, Laoag City, Ilocos Norte .

The *Gawad Saka* is an annual search of the DA



## Regional Gawad Saka Awardees

for outstanding individuals and groups in the farming and fishing sectors with exemplary performance and significant contributions to the

country's agricultural development.

**Table 13. Region I Awardees/Winners of the 2016 Regional Gawad Saka Search**

Category	Awardee	Address
Outstanding Rice Farmer	Romeo Ganiron	Ben-agan, Batac City, Ilocos Norte
Outstanding Corn Farmer	Edmar Piano	San Isidro, Bantay, Ilocos Sur
Outstanding High Value Crops Farmer	May Celine Gordon	Batakil, Pozorrubio, Pangasinan
Outstanding Large Animal Raiser	Arnulfo Corpuz	San Pablo, San Nicolas, Ilocos Norte
Outstanding Young Farmer/Fisherfolk	Benny Aguinaldo	Bulbulala, Vintar, Ilocos Norte
Outstanding Farmer/Fisherfolk Family	Andres Lazaro	Catangraan, Solsona, Ilocos Norte
Outstanding Small Farmer/ Fisherfolk Organization	Magumbayan MPC	Casili, Laoag City, Ilocos Norte
Outstanding Barangay Food Terminal	San Marcelino Barangay Food Terminal	San Marcelino, Dingras, Ilocos Norte
Outstanding Municipal Agriculturist	Ranison Narciso	Solsona, Ilocos Norte
Outstanding Agricultural Extension Worker	Josephine Aldeon	Laoag City, Ilocos Norte



## REGIONAL DEVELOPMENT COUNCIL (RDC) AWARD— MOST OUTSTANDING PROJECT/AGENCY MONITOR

The DA RFO- I bags Most Outstanding Project/Agency Monitor Award in 2016 under the Regional Project Monitoring and Evaluation System (RPMES) by the Regional Development Council (RDC) I during the Awarding Ceremonies.

The RPMES is a scheme in monitoring and evaluating projects at the national, regional, provincial/city and municipal levels with the extensive and active participation of various government agencies, local government units and non-government organizations at all levels. It primarily aims to facilitate project implementation, problem solving, monitoring and evaluation to the regional, provincial and municipal levels.

A competition crafted by the RDC I, the system encouraged the active involvement and participation of the government agencies and LGUs that are implementing development programs and projects to be monitored and evaluated.

The contest has three categories. Category A involves the monitoring and evaluation of 1-10 programs/projects while category B recognizes the monitoring of 11-30 programs and projects. The Category C, where DA is adjudged as the winner, recognizes the 31 and above programs and projects being monitored.



Farmer-Regional Executive Director Vincent Adorna and Ms. Irene P. Tactac of the Planning, Monitoring and Evaluation Division (PMED) received a Plaque of Recognition for DA RFO –I as the Most Outstanding Project/Agency Monitor Award during State of the Region’s Development Conference (SORDC) and Regional Development Council (RDC) I Awards and Recognition in Ilocos Sur Convention Center, Vigan City, Ilocos Sur last May 9, 2017.

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