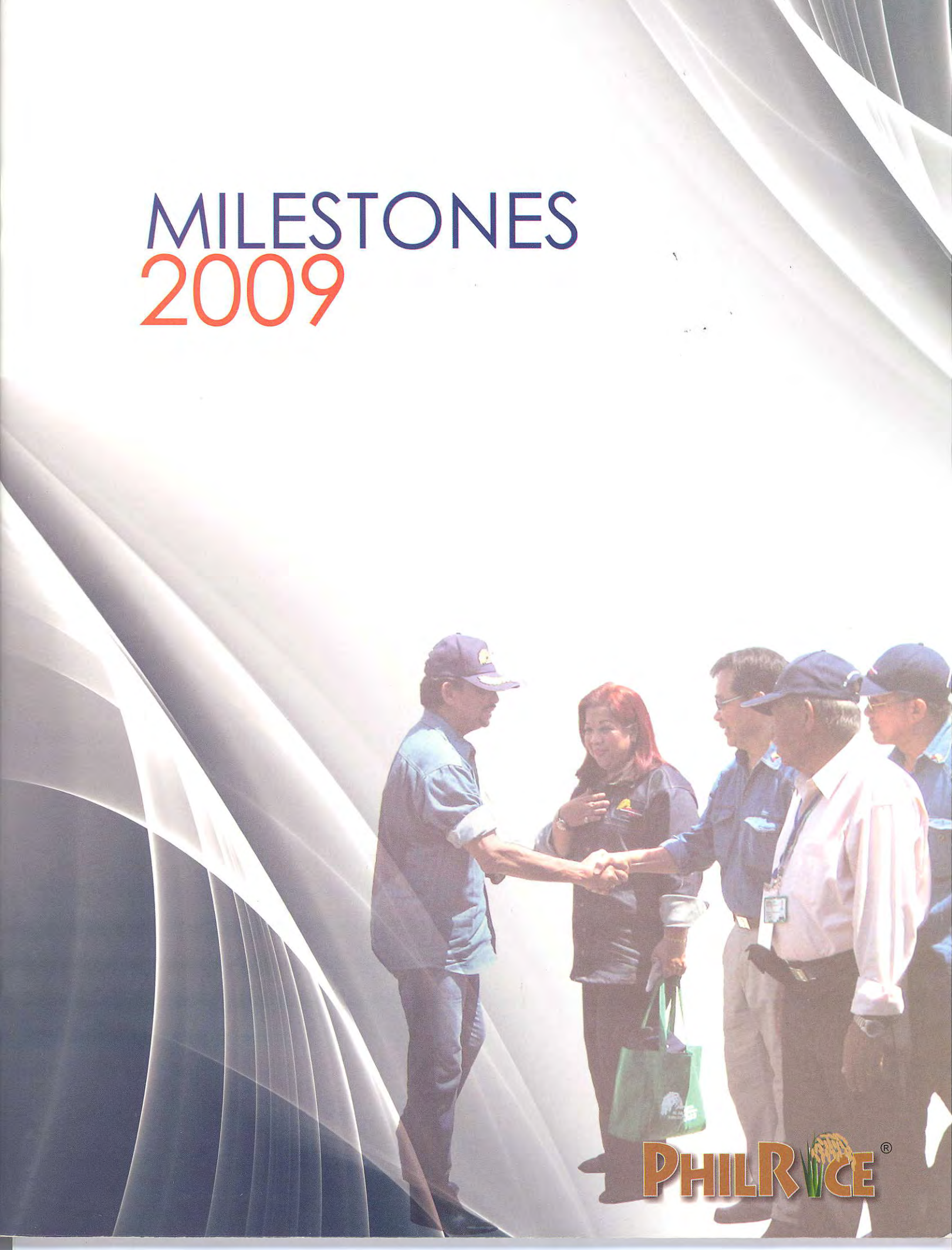
MILESTONES 2009



MILESTONES
2009

PHILRICE®
PHILIPPINE RICE RESEARCH INSTITUTE

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Message from the Executive Director v

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Rice Breeding

VARIETY DEVELOPMENT

In 2009, the National Seed Industry Council (NSIC) approved for commercial production the first two PhilRice-bred hybrid rice varieties suited for the irrigated lowlands:

NSIC Rc196H (Mestiso 16)

- 3-line hybrid evaluated in the NCT from 2006 WS to 2008 DS
- DS yield increase among selected locations
- Very early-maturing at 103 days
- Adaptable to Nueva Ecija, Isabela, Cagayan, Bohol, Bukidnon, and similar areas during DS only
- Moderately resistant to GLH and DH (WSB) and intermediate to blast, YSB, and BPH
- Good milling recovery with long and slender grains and good eating quality

NSIC Rc198H (Mestiso 17)

- 3-line hybrid tested in the NCT from 2006 WS to 2008 DS
- High DS yield with increase of 14.9% over PSB Rc82
- Adapted to specific locations in Nueva Ecija, Isabela, Cagayan, Davao del Sur, Bukidnon, Bohol, and similar areas during DS
- Very early-maturing at 105 days
- Resistant to whiteheads (WSB) and intermediate to blast, GLH, and YSB
- Moderately susceptible to BPH
- Good milling recovery with intermediate amylose content
- High acceptability in cooked and raw forms

Other PhilRice-bred varieties approved by NSIC for commercial production nationwide are: NSIC Rc184 (Salinas 2), Rc186 (Salinas 3), Rc188 (Salinas 4), and Rc190 (Salinas 5) for saline-prone areas; NSIC Rc194 (Submarino 1) for flood-prone areas; NSIC Rc202H (Mestiso 19), Rc204H (Mestiso 20), Rc216 (Tubigan 17), and Rc218SR (Mabango 3) for irrigated lowlands.

TOOLS TO AID BREEDING

In the genetic engineering of modern varieties, Matatag 6 was subjected to target gene assay and was found a good prospect for reinforcing tungro resistance in the backcrossed lines.

Breeding for drought tolerance was intensified through the extension of the application of induced mutation in targeting genetic variability enhancement for tolerance to drought and associated desirable traits, and utilization of wild rice species as gene sources.

Farm Mechanization

MACHINE DEVELOPMENT

Engine-Driven Transplanter

Due to high labor cost and scarcity of labor during peak planting season, an engine-driven transplanter was developed. Results of previous trials showed that the medium-strength steel material (cold-rolled steel) used for the dog clutch-type pivot or steering mechanism in the transplanter's transmission easily gets worn out. Thus, this was reinforced by building up through arc welding of high-tensile-strength steel material on the contact surfaces using no. 7013 (super C2) welding rod. Trials showed that after 32 hours (4 days) of operation in the field, the high-strength contact surfaces of the dog-clutch mechanism was hardly abraded.

Precision Seeder for Rice Seed Production

Previous trials of the precision seeder showed that it was heavy, and the weight was concentrated infront of the machine because of a speed reducer used in the power transmission system. To reduce the weight, the speed reducer was removed and a hand tractor-type transmission system was put in place. The engine chassis was reduced in size and the frame changed using lighter materials (angle bar instead of GI pipe).

Other machines continuously developed and improved are the three-disc plow for the hand tractor, floating tiller for deep muddy and swampy areas (an adaptation of the ride-on boat tiller), power tiller for rainfed upland farming, rice hull gasifier engine-pump system, two-wheel riding tractor, and a rice hull-fuelled jet pump for irrigation.

SOIL TILLAGE

To decrease land preparation cost, a reduced tillage technique was developed. It consists of initial single-pass soil puddling using the PhilRice-improved floating tiller, then double-pass, and final leveling using a hand tractor riding-type leveler. In contrast to the 21-day conventional tillage system, the reduced tillage technique operations were carried out within 10 days only.

A new study on early tillage (rotavation) after harvesting with residual moisture in the soil (for easy tilling) was conducted to evaluate its effects on straw decomposition, and determine its advantages before preparing further the soil for the next cropping season.

Crop Management

THE PALAYCHECK SYSTEM

Continuous study on the PalayCheck System of integrated rice crop management showed that following the recommendations to achieve the eight (8) Key Checks (from use of certified seeds to proper harvesting) can exceed the usual yield target of 7 t/ha during the dry season and increase input-use efficiency.

The eight key checks for irrigated rice were initially tested in two rainfed areas in Ilocos Norte during WS 2009 with one farmer-partner at each site. The sites in Dingras and Currimao had 13 and 15 farmer-cooperators.

PEST MANAGEMENT

An Insect Pest Diagnostic Kit in English and three Philippine languages was published to help farmers identify insect pests and diseases, and come up with the appropriate pest management practices.

Screenhouse setups on the effects of different RBB densities on yield loss showed that at 10 bugs per hill, a corresponding 94.36% yield loss was noted. Percent yield losses of different bug densities are as follows: 2 bugs/hill – 18.71%; 4 bugs/hill – 28.47%; 6 bugs/hill – 39.18%; and 8 bugs/hill – 50.25%

A study on the influence of sulfur deficiency on the incidence and severity of major rice pests and natural enemies showed that sulfur deficiency did not significantly affect WSB population, but damage was higher on S-deficient plots (13%WH) than plots

applied with 3 bags 21-0-0-24S/ha during the July-Dec cropping season. S-deficiency did not significantly heighten the incidence of other insect pests, diseases, and natural enemies.

WATER MANAGEMENT

For rainfed areas where scarce water is a perennial problem, a Low-Cost Drip Irrigation System for Rice-Based High-Value Crops was developed. Using the system, water productivity was higher (65.68 kg/m^3) compared with the conventional furrow irrigation (39.94 kg/m^3).

NUTRIENT MANAGEMENT

The use of biofertilizers has received so much publicity in the agriculture sector in recent years, with conflicting claims. A nationwide study was undertaken to verify the effectiveness of these biofertilizers under aerobic and anaerobic conditions.

Another study verified the general effectiveness of biofertilizers. Yields of treatments applied with biofertilizers alone were compared to the control (no fertilizer). Vital-N, Bio-N, and Biocon applied alone did not yield significantly higher than the control, implying that biofertilizers did not particularly contribute to yield. It was concluded that biofertilizers tested were ineffective in increasing yield of rice and inorganic fertilizer is still a more plausible option.

Efficiency of different sources of nitrogen fertilizer was also determined. In general, N application of 50 kg/ha at early and reproductive stages was found to be more efficient during the dry season.

With the use of the PhilRice Leaf Color Chart for proper nitrogen fertilizer application, yield targets of 7 to 8 t/ha and high agronomic nitrogen-use efficiencies of 20-32 kg grain per kg nitrogen applied have been obtained for inbred and hybrid rice varieties.

Knowledge Management & Promotion

TRAINING MODULES AND COURSEWARE DEVELOPMENT

The following Palayamanan modules were prepared, reviewed, and edited: extension approaches; establishing Palayamanan farms; and 13 other modules on vegetable and fruit crop production, aquaculture, designing field trials, and overview of Palayamanan farming systems. In addition, modules on Biology of the Golden Apple Snail and its Management; Rice Insect Pests Based on Mode of Feeding; Natural Enemy Management; and Transition of Rice Diseases were finalized.

Flipchart on "*Kompos: Mga Benepisyo at Paraan ng Pagpaparami Nito*" was prepared and pre-tested. Another flipchart on Rodent Management was also prepared and translated into Pilipino for checking by a subject matter specialist.

Instructional posters on Minus-One Element Technique, Controlled Irrigation, Modified Dapog (English and Pilipino versions), and PalayCheck were also developed and promoted.

TRAINING COURSES CONDUCTED

A total of 500 farmers/farmer-leaders, 362 extension workers, and 253 other rice R&D stakeholders participated in the various training courses and briefings packaged and implemented by the Technology Management and Services Division, including: Training Course/s for Extension Workers and Professionals, and for Farmers and Farmer-Leaders; Customized Training Courses for external clients, and Rice S&T Updates.

INFORMATION CAMPAIGNS

Golden Rice. The acceptability of Golden Rice was studied in collaboration with students from the Asian Institute of Management (AIM). They conducted focus group discussions (FGD) in Albay, Iloilo, Leyte, and Bukidnon.

Rice Conservation. A video featuring rice conservation tips was produced. Initial talks have been conducted between PhilRice and leading bus companies plying the Manila-Nueva Ecija route for buses to show the video during trips.

Integrated Pest Management (IPM). The campaign *Oplan Sagip Sibuyas* to promote IPM among onion farmers continued its activities in rice-based farming areas of Pangasinan. From Bayambang, the campaign has expanded to cover other onion-producing municipalities.

KNOWLEDGE PRODUCTS PRODUCED

Four issues of the PhilRice S&T Magazine were published and distributed at 5,000 copies each. Issue titles were: 1) Cheers to good yield; 2) Keys to productive rice farming; 3) Right Seeds Matter; and 4) PhilRice goes overseas.

Five thousand copies of the *Mga Patok na Binhing Palay sa Pilipinas 2008* leaflet and 1,000 copies of the poster on Location Specific Technology Development were produced.

A coffee table book *Kamalig: Treasure Trove of Rice* was produced at 1,000 copies, along with 3,000 copies of Insect Pest Diagnostic Kit (English), 100 copies of Agricultural Technologist's Guide, 3,000 copies of the rice technology bulletin on Modified Dapog Technology, and 20,000 copies of primers on *PalayCheck*.

In addition, 2,000 copies of *Sistemang PalayCheck* DVD were produced, and updated pages of *Palayamanan* techno bulletin and *Field Guide on Major Rice Disorders* were reprinted at 3,000 copies each.

A photo collection on various rice topics and the PhilRice staff was produced. Total size of photo database was 18.3 GB with 2066 quality photos sorted and cleaned with PhilRice watermark.

EXHIBITS AND GENERAL PROMOTION

Radio. Twenty-eight broadcast releases were uploaded at www.philrice.gov.ph and distributed to 52 radio stations nationwide. Releases on rice production and technologies for the wet season were also distributed to 35 farmcasters and DA Regional Information Officers nationwide. Releases made since 2006 were uploaded in the database.

Media releases. Four hundred fifty three (453) rice stories were published in Agriculture Magazine, Manila Bulletin and http://www.agribusinessweek.com, 133 of which were written/ submitted by PhilRice staffers/consultants.

Exhibits. PhilRice participated in seven exhibits and trade shows such as Experience Rice @ SM Mall of Asia; *Palayan Bulil* Farmers' Day at Palayan City, and Bicol Business Week at Naga City, Camarines Sur, among other shows.

ICT-BASED INITIATIVES

An e-Forum was created as an added feature of the PhilRice website. Another ICT modality called RiceWiki was designed and linked to the OpAPA website. A portal called Pinoy Rice Knowledge Bank was developed to serve as repository of rice technologies fit for the Philippine rice production system.

A total of 31,773 SMS (28.5% higher than 2008) were received and answered by the PhilRice Text Center throughout the year. Average SMS received per month is 128 based on 240 working days.

DATABASE CREATION

To improve access to rice and rice-related information and help orchestrate activities despite geophysical barriers, an organized system of data collection, organization, storage and retrieval procedures was developed. The online database, which can be accessed at www.dbmp.philrice.gov.ph, contains new features such as the Rice Information System, Seed Stock Inventory, Rice Weather Database, and Web-based GIS.

Impact & Policy Research

A survey in Mindoro Oriental, Iloilo, and Nueva Ecija was conducted to identify the impacts and factors determining adoption of the drumseeder and flatbed dryer. Survey showed 30% adoption of drumseeders.

Partial budget analysis compared the impact of flatbed dryer with selling palay immediately after threshing, and drying it using solar dryers. In both WS and DS, there is a clear economic advantage in using the flatbed dryer, with a net incremental benefit of P5,111 and P2,700 respectively.

The impact of the farmers' field school (FFS) of the Palayamanan project in Northwest Luzon was assessed. FFS trainees outperformed the non-Palayamanan farmer-respondents (non-FFS) in productivity and income, knowledge and adoption of rice technologies.

Analyzed as well were input use, farm management practices, productivity, and profitability among hybrid and inbred rice production areas in Nueva Ecija, Isabela, and Davao del Sur covering 2005 WS to 2007 DS. Yield distribution across seasons shows that more hybrid rice farmers are getting higher yield than their inbred counterparts. During 2005 and 2006 WS, 48 to 64% of hybrid rice farmers yielded 5.01 tons and above. Even more (70-76%) of them got same yields during the 2006 and 2007 DS.

In terms of production cost and yield, hybrid rice has greater advantage over inbred rice: hybrid farmers incur less cost per kg than inbred farmers. The four-season data also shows that hybrid rice has a price advantage of about 40 centavos per kg. This suggests that hybrid rice has a better or comparable eating quality as inbred rice.

Nineteen derivative/policy papers were written out of the panel and cross-section data compiled from the Integrated Farm Household Analysis Project. These papers analyzed the changes that had occurred in the productivity and income of the rice farming households as well as changes and patterns in input use.

Special Projects

GENDER AND DEVELOPMENT (GAD) ACTIVITIES

A Gender and Development Initiatives (GADi) Project was previously created to carry out research and activities addressing gender-related concerns and the corporate social responsibility (CSR) thrusts of the Institute. In March 2009, the PhilRice GADi organized the Women's Month celebration. Three women leaders were invited to speak on their roles and knowledge as leaders. In addition, gender-related information were disseminated to the Institute.

A GAD database that contains 200 gender-related articles was created and made available in hard and soft copies at the PhilRice Library. This database is categorized in seven topics. An annual subscription to a journal titled "Gender, Technology, and Development" has also been made.

The project also provided technical assistance on gender for three agencies and granted two thesis grants (P35,000 each) that tackle gender issues.

As the primary sounding board for all gender-related and CSR activities, the GADi team also conducted relief goods donation to typhoon victims wherein seven areas were each given 500 kilos of rice; gift-giving for the San Jose City jail inmates and KAPPAG foundation that helps poor children; a 3-day training at UP Diliman for a Muñoz elementary school teacher; and a training for rice wine producers in Ifugao on product standardization.

DOCUMENTATION OF INDIGENOUS KNOWLEDGE IN RICE FARMING

The 'available data' approach as data collection method was used to document indigenous knowledge (IK) by visiting the libraries of five state colleges and universities (SCUs). Based on the results, IK appears to be an unpopular or unattractive research topic to undertake– despite the wide range of researchable areas it offers. Consequently, very few researches pertaining to IK were conducted in the five SCUs. Put together, the data suggested a very low incidence of IK documentation through R&D. While linkage between IK and rice was also noted, this was at a nearly imperceptible scale. The findings corroborate the characterization of IK as being "not systematically documented", and that traditional knowledge is as threatened and valuable as biological diversity.

SCREENING FOR BROWN RICE WITH EXCELLENT EATING QUALITIES AND LONGER SHELF-LIFE

Twenty-two popularly grown rice varieties with high cooked white rice acceptability were selected for the screening process.Results of textural analysis using the Instron machine revealed that low and intermediate-amylose rices with high to intermediate gelatinization temperature had softer cooked brown rice. Also, the Instron hardness of cooked brown rice correlated significantly with amylose content, suggesting that the tenderness of cooked grains is influenced by amylose content. Percent bran did not correlate significantly with the Instron hardness of cooked brown rice. In addition, the hardness of cooked white rice positively correlated with cooked brown rice hardness, confirming that bran had no effect on the tenderness of cooked brown rice.

Administration

Major Policies Instituted

1. Adoption of the revised Research and Development Agenda of the PhilRice Branch Stations

To improve performance and put focus in their thrusts, the R&D agenda of the PhilRice branch stations were formally adopted as follows:

- Batac - center for dryland agriculture
- Isabela - hybrid rice center
- Los Baños - development of location-specific rice varieties and technologies
- Negros - development of specialty and premium rices, and distribution center for quality seeds suited for the Visayas regions
- Agusan - nutrient management center
- Midsayap - development of integrated pest management technologies

2. Pursuing the Proposed Rationalization Plan of PhilRice

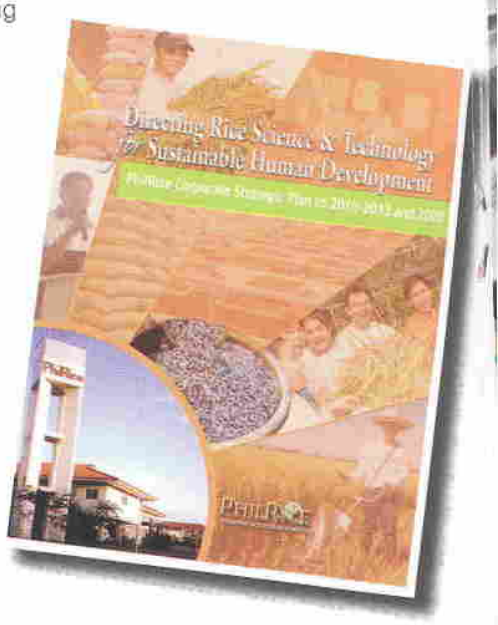
The original Rationalization Plan drafted since 2006 was fine-tuned to support the shift in the policy directions, core functions, programs, activities, services, as well as the staffing pattern of the Institute.

3. Signing of a new Collective Negotiations Agreement (CNA) between PhilRice and the Association of PhilRice Employees (APE)

The fresh CNA further promotes the mutually beneficial relationship between employees and the management to attain maximum efficiency and improve their welfare.

4. Approval of the "Directing Rice Science and Technology for Sustainable Human Development – Strategic Plan of PhilRice 2010-2013 and 2020."

Crafted through the concerted efforts of the best minds from the different sectors of the rice industry, the new Corporate Strategic Plan articulates a long-term vision for PhilRice that is intended to help it improve its performance by making a plan that is more responsive to circumstances, underlying trends, and shifting demands. The plan shall become PhilRice's guide in making rice science rewarding not only to our farmers, rice consumers, and industry stakeholders, but also to scientists, researchers, and other workers as well whose services support rice R&D.



To realize this, PhilRice has identified three national goals that it aims to help achieve in the next five years or so. These include attaining and sustaining rice self-sufficiency; reducing the incidence of poverty and malnutrition; and achieving competitiveness in agricultural S&T. PhilRice will help achieve these goals through the use of established and emerging sciences and technologies to develop its products; location-specific fine-tuning of technologies; appropriate policy recommendations; and acceleration of knowledge mobilization and transfer of technology.

5. Piloting of the Laptop Computer Loan for PhilRice Personnel

Through Administrative Order No. 2009-37, a Laptop Computer Loan was instituted to increase the time devoted by PhilRice R&D personnel beyond the usual 8am-5pm working hours, and improve their working conditions by providing them the means to work even at the comfort of their own homes.

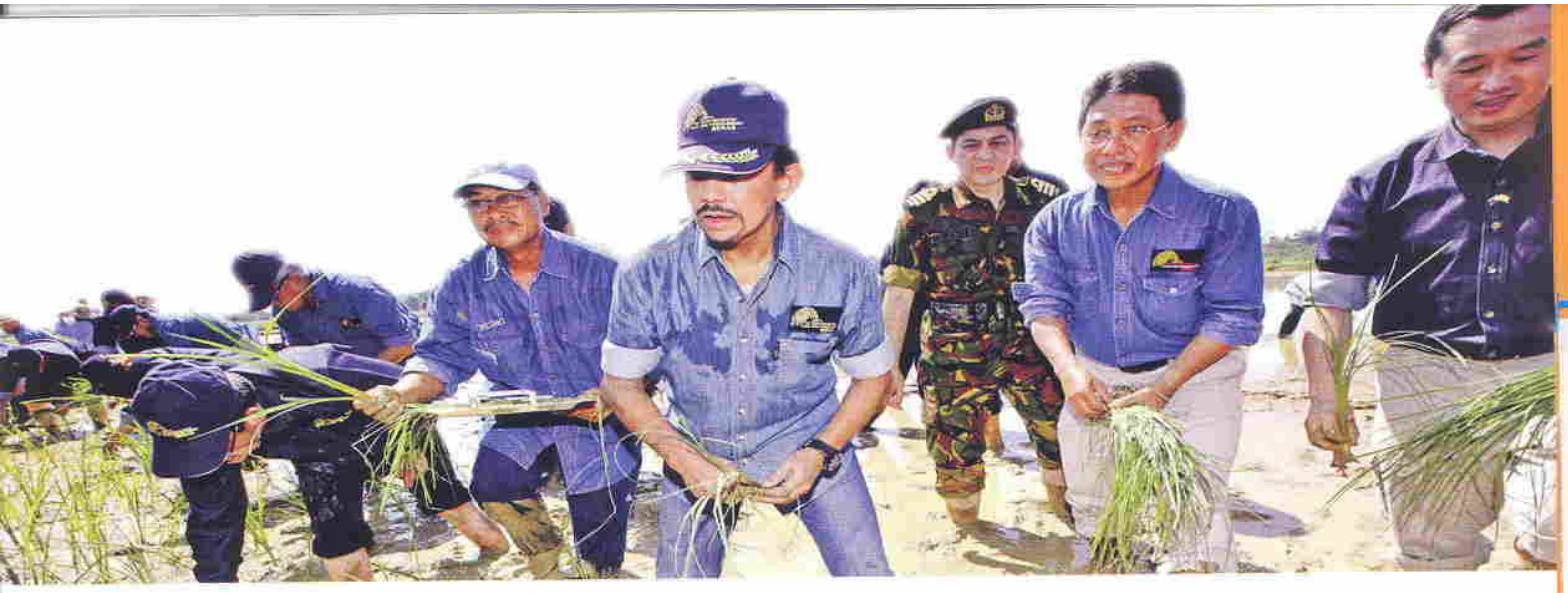
6. Rejecting the act to transform PhilRice into PHILCEREALS

In October, the PhilRice Board of Trustees acted on the proposed legislation to transform PhilRice into PhilCereals (Philippine Cereals Research, Development, and Extension Institute). The proposal seeks to develop and implement a national research, development, and extension program for rice, corn, wheat, sorghum, millet, and other cereals. The Board disapproved the proposal, stating that PhilRice need not evolve into PhilCereals to improve other crops. Instead, the government should further strengthen PhilRice and create new institutions to focus on the other cereals.

7. Restructuring the Offices of the Deputy Executive Directors – Creation of the Offices of the DED for Research (ODEDR) and DED for Development (ODEDD), and confirming the designation of the DED for Research and DED for Development

The Office of the DED for Research and Development evolved into the Office of the DED for Research to focus on rice science research that covers all programs and projects relating to basic and applied researches toward rice technology and technology generation to support human development efforts.

On the other hand, the Office of the DED for Administration transformed into the Office of the DED for Development to handle PhilRice's development projects and activities that bring rice science on the farms to help the country attain rice self-sufficiency and to sustain it toward stabilized farmer profitability.



International Involvements

Brunei Darussalam

- a strategic assessment of Brunei rice farming conditions was conducted on 23-27 February that resulted in a technical rice R&D cooperation project for execution by the Department of Agriculture (DA) and PhilRice
- a six-hectare seed production cum demo farm was established at the Ministry of Industry and Primary Resources (MIPR)-DA site in Wasan, Brunei Darussalam
- a one-hectare demo plot was also established in Wasan Vocational School where future Brunei rice producers are being trained by MIPR-DA with PhilRice's assistance
- two batches of Brunei delegations were hosted in the Philippines on March 25-31 and April 30-May 3
- a ceremonial transplanting led by His Majesty Sultan Haji Hassanal Bolkiah and DA and PhilRice officials was conducted on May 26

Papua New Guinea

- a five-man Papua New Guinea (PNG) Strategic Assessment Team was created to conduct a rapid assessment on the potentials of PNG in producing its own rice requirements

Solomon Islands

- a five-man delegation from the Ministry of Agriculture and Livestock (MAL) of the Solomon Islands government visited PhilRice
- a standard material transfer agreement covering rice cultivars, such as IR64, PSB Rc68, NSIC Rc122, NSIC Rc138, and NSIC Rc154 was entered into by the government of Solomon Islands and the Philippines through PhilRice

Africa

- PhilRice, through its Executive Director, participated in the 2nd Coalition for African Rice Development (CARD) General Meeting in Tokyo, Japan on June 2-6 where the Training Program for Rice Research Assistants to be implemented in partnership with IRRI and JICA was discussed

Jiangxi Academy of Agricultural Sciences (JAAS), China

- the Memorandum of Agreement for "Collaborative Undertaking Rice Research, Development, and Marketing" was signed on January 19. The MOA features include: exchange visits and training on hybrid rice research and seed production; improvement of hybrid rice seed production systems; high-yielding cultivation technologies for hybrid rice production; breeding research and commercialization; maintenance of genetic purity of hybrid rice parentals; sharing of information/technologies; seed marketing; and monitoring and reporting
- exchange of hybrids commenced and research activities focusing on breeding hybrid rice and A lines by JAAS experts continued
- four PhilRice staffers were sent to JAAs in July-September to undergo training in hybrid rice R&D and seed production

Grants Received

Project Title	TOTAL
• IRRI Water Savings Workgroup-Seedbed management and seedling effects on yield and water use in rice	P334,101.00
• Waste Management c/o REMD	56,750.00
• Full Support for the Open Academy for Philippine Agriculture (OpAPA)	287,146.87
• DA-Biotech Center	2,747,550.66
• REMD Operation Income Collection - ACEF	4,024,181.18
• JICA-TCP4 ARMM	8,267,646.88
• Engineering Rice for High Beta-Carotene, Vitamin E and Enhanced Iron and Zinc Bioavailability	6,650,180.36
• Support to R&D Project Component, GMA-Rice Program 2007	155,547.90
• Development and Promotion of the Irrigated Rice Research Consortium (IRRC) Technologies in Rice Production	139,228.50
• Implementation Plans to Disseminate Submergence-Tolerant Rice Varieties and Associated New Production Practices to Southeast Asia	1,404,078.50
• Rice-Based Agribusiness Incubation Services	1,003,990.05
• Upgrading of the BPRE's Training Capability and Mechanization, Market, and Food Safety	P67,500.00
• DA Support for GMA-Rice 2008 Program	500,000.00
• Subgrant Amendment of SM-CRSP Project	129,527.34
• Development of Improved Hybrid Rice Parental Lines with Bacterial Blight Resistance	452,300.00
• DA Support to PalayCheck and Palayamanan under GMA-Rice Program	1,000,000.00
• Construction of Seed Processing and Multi-Purpose Shed of PhilRice Agusan under the GMA-Rice Program	3,000,000.00
• Preparatory Activities for the Implementation of the 2009-2010 Rice Self-Sufficiency Plan (RSSP)	1,400,697.80
• Enhancing the Implementation of IPM FY 2008	16,574,200.00
• Initiating the transfer & adaptation of improved drying technology from Vietnam to the Philippines	P132,888.27

Project Title	TOTAL
• Award Scheme for Promoting the Use of Crop Diversity to Help Address Environmental and Climate Challenges of the FAO/Global Partnership Initiative for Plant Breeding Capacity	P709,697.34
• Breeding Rice for Heat Tolerance	152,659.35
• Interspecific bridges that give full access to the African rice allele pool for enhancing drought tolerance of Asian Rice	1,944,148.05
• Bringing about a Sustainable Agronomic Revolution in Rice Production in Asia by Reducing Preventable Pre and Postharvest Losses	427,598.50
• Effective and Efficient Use of Flatbed Dryers for processing of High-Quality Seeds	6,700,000.00
• Breeder and Foundation Seed Production	100,201,286.00
• Basic Seed Production of Philippine Varieties and Promising Lines	8,413,660.00
• Support to Rice Production Nutrient Management (LCC & MOET Promotion)	20,000,000.00
• 2009 GMA-Rice Program Support Fund for Breeder and Foundation Seed Production of Inbred and Hybrid Rice Varieties	78,514,303.00
• Water Savings Workgroup for IRRC Phase IV	237,716.17
• Integrated Weedy Rice Management and Herbicide Resistance	285,585.00
• Irrigated Rice Research Consortium (IRRC) Phase IV (2009-2012)	713,148.50
• Impact Assessment of the Ginintuang Masaganang Ani GMA-Rice Program	775,250.00
• Enhancing Rice Productivity and Self-Sufficiency in Bohol Give Me Five! Projects	20,555,900.00
• Enhancing Rice Productivity and Self-Sufficiency in Palawan Give Me Five! Projects	25,000,000.00
• STBF on increasing yield through utilization of quality rice seeds of recommended varieties	1,500,000.00
• STBF on improving farmers' productivity in the irrigated and rainfed lowlands through site-specific nutrient management	1,500,000.00
• STBF on improving farmers' productivity in the rainfed lowlands of Midsayap, North Cotabato through water-saving technologies	250,000.00
• STBF on pest management	1,500,000.00
• Development of DNA-based Purity Testing Protocol for Rice Varieties	360,000.00
• PhilRice-IRRI R&D Project in Support of the Philippines' Rice Self-Sufficiency Plan	102,036,764.00
• Sources and Causes of Productivity Growth in Region VI	1,250,000.00
• Capacity-Building Program in Rice Research and Development for Brunei Darussalam	25,313,200.00
• Concreting of irrigation and drainage canals of PhilRice Midsayap at Lot 64, and concreting of farm-to-market roads from Lot 34 to Lot 64 and road network within the station and through its experimental fields	24,150,000.00
• Field Performance Evaluation and Selection of GUVA Lines in the Tropics	144,268.50
• R&D and rice knowledge management and promotion activities (2009 GMA-Rice Program)	123,080,802.00
• Expanded GxE experiments in different agro-ecologies in support of Bangladesh and Eastern India high-zinc rice profiles: Multi-location (Philippines) evaluation of recombinant inbred lines for identifying most adapted lines for varietal promotion	954,552.50
GRAND TOTAL	**P591,333,978.56**

Integrated Systems and Standards Office (ISSO)

1. **PhilRice has consistently maintained and improved on its practices concerning delivery of quality services, environmental protection, and occupational health and safety, specifically the following:**
    - Consistent waste segregation rate of 99% per month
    - Waste recovery average rate of 76.52%
    - Initial development of melting machine for plastic and styro waste
    - Banning use of styro for food packaging in cafeteria, and in all activities and occasions at PhilRice
    - Improved data gathering and analysis on solid waste management, energy conservation, occurrence of incidents/accidents in the workplace
    - Improvement of the material recovery facility (MRF)
    - Conduct of awareness seminars on leading and most common diseases in the workplace, and monitoring of health status of the PhilRice staff
    - Improvement of the customer satisfaction monitoring system for all products, services, and related activities
    - Conduct of initial moral enrichment activities to further improve values of staff for better productivity and work attitude
    - Initial establishment of environmental management program at the Batac, Isabela, Negros, and Los Banos branch stations
    - Implementation of *palit-ilaw* program (use of energy-efficient lights) to save on energy, and carpooling to save on fuel.
2. **Participation in an Environmental Management System awareness campaign at PhilRice and SM Mall of Asia in November 2009**
3. **Successfully passed the recertification audit for the three standards:Quality Management (ISO 9001:2008), Environmental Management (ISO 14001:2004), and Occupational Health and Safety Assessment Series (OHSAS 18001:2007).**

Personnel Development

NAME	SCHOOL	DEGREE	DURATION
A. Master of Science, Foreign Institutions			
ANTONIO, Hazel V.	Wageningen University, the Netherlands	Fellowship Programme for MSc in International Development	Sept 2009 - Dec 2011
MANAOIS, Rosaly V.	Louisiana State University	MS Food Science	Aug 2007-Aug 2009
B. Master of Science, Local Institutions			
ANGELES, Noriel M.	UP Los Baños	MS Plant Breeding	June 2006-May 2008 June 2008-May 2009
BALIUAG, Neil Nemesio A.	UP Los Baños	MS Plant Breeding/Genetics	June 2007-May 2008 Nov 2008 - April 2010
BULATAO, Rodel M.	UP Los Baños	MS Food Science	June 2009-May 2011
RAMOS, Nerissa C.	UP Diliman	MS Chemistry	Nov 2007-Oct 2010
CANTRE, Melanie Aileen T.	UP Los Baños	MS Agricultural Engineering	June 2008-May 2010
CAPISTRANO, Ailon Oliver V.	UP Los Baños	MS Crop Physiology	June 2007-May 2009
DE PERALTA, Glenn C.	UP Los Baños	MS Soil Science	June 2008-May 2010
DELA TORRE, Jesiree Elena Ann	UP Los Baños	MS Soil Science	June 2008-May 2010
DOLLENTAS, Rona T.	UP Los Baños	MS Soil Science	Nov 2007-Oct 2009
DONAYRE, Dindo King M.	UP Los Baños	MS Plant Pathology	June 2008-May 2010
LAYAOEN, Myriam G.	UP Diliman	MA Communication	June 2009 - May 2011
GADO, Charisma Love B.	Ateneo de Manila University	MA Communication	June 2007-Sept 2009
MALOOM, Juanito M.	UP Los Baños	MS Agrometeorology	June 2007-May 2009
MAMUCOD, Henry F.	UP Los Baños	MS Food Science	Nov 2008-Oct 2010
MULA, Lou Franz G.	UP Los Baños	MS Dev't Communication	Nov 2007 - Nov 2009

NAME	SCHOOL	DEGREE	DURATION
OBICO, Mary Rose O.	UP Diliman	MS Remote Sensing	June 2008-May 2010
RAMOS, Joel A.	Central Luzon State University	MS Agricultural Engineering	July 2009-May 2011
RAMOS, Paulino S.	UP Los Baños	MS Agricultural Engineering	June 2007-May 2009
SUÑER, Albert Christian S.	UP Los Baños	MS Crop Physiology	June 2007-May 2009
UBALES, Cherryl P.	UP Los Baños	MS Plant Breeding	June 2007-May 2009
VALDEZ, Evelyn M.	UP Los Baños	MS Entomology	June 2008-May 2010
C. PhD, Foreign Institutions			
ABDULA, Sailila E.	Chungbuk National University (South Korea)	PhD Plant Breeding	May 2009-May 2012
BARROGA, Karen Eloisa T.	University of Western Australia	PhD Agriculture	June 2006-July 2009
BELTRAN, Jesusa C.	University of Western Australia	PhD Agricultural Economics	June 2007-May 2010
BORDEY, Flordeliza H.	University of Illinois (USA)	PhD Agricultural Economics	Aug 2006-July 2009
LAUNIO, Cheryll C.	Kochi University (Japan)	PhD Agricultural Science	Oct 2006-Mar 2010
GONZALES, Diadem B.	Australian National University	PhD Anthropology	Jan 2008-Jan 2011
LAPITAN, Victoria C.	Yamagata University (Japan)	PhD Molecular Biology	Apr 2005-Mar 2009
NIONES, Jonathan M.	Nagoya University (Japan)	PhD Plant Breeding	Apr 2008-Apr 2012
ORDOÑEZ, Samuel Jr A.	Louisiana State University (USA)	PhD Agronomy	Jan 2006-Jan 2011
PAYUMO, Jane G.	Washington State Univ (USA)	PhD (Multidisciplinary Studies-IP, Biotech, Econ)	Aug 2007-May 2010
RAMOS, Riza A.	Univ of Nottingham (United Kingdom)	PhD (multidisciplinary)	July 2005-July 2009
SERAPION, Jerry C.	Academia Sinica (Taiwan)	PhD Bioinformatics	Sept 2008-2013
D. PhD, Local Institutions			
BARADI, Mary Ann U.	UP Los Baños	PhD Agricultural Engineering	June 2007-Nov 2009
CORALES, Aurora M.	UP Los Baños	PhD Community Dev't	June 2007-May 2010
DELA CRUZ, Arlen A.	UP Los Baños	PhD Molecular Biology & Biotechnology	June 2008-May 2011
MABAYAG, Corsennie A.	UP Los Baños	PhD Agronomy	June 2007-May 2010
ORGE, Ricardo F.	UP Diliman	PhD Energy Engineering	June 2007-May 2010
E. PostDoc/Non-degree Training			
MANIGBAS, Norvie L.	Yeongnam Agricultural Research Institute (YARI), NICS, RDA, Republic of Korea	Molecular and genetic characterization of Ds insertional mutagenesis lines in rice	Oct 1, 2008 - Sept 30, 2009
F. Partial-Part Time Entitlement (MS Degree)			
CASTILLO, Michelle B.	UP Los Baños	MS Soil Science	June 2009- April 2012
TUAÑO, Arvin Paul P.	UP Los Baños	MS Biochemistry	June 2009 - April 2012

Noted Visitors in 2009

Mr. Naoto Furukawa
Japan International Cooperation Agency
January 12-13

Dr. Yoshimichi Fukta
Japan Int'l Research Center for Agricultural Sciences (JIRCAS)
January 13-14

Hon. Selwyn Riumana & Party
Minister of Agriculture and Livestock
Solomon Islands
January 19-23

Dr. Makoto Hoki and Engr. Hiroyuki Monobe
International Center for Environmental
Technology Transfer (ICETT)
January 25-28

Dr. Greg Edmeades and
Prof. John Snape
IRRI's External Review Panelists
January 29-31

Ambassador Choi Joong-Kyung
Korean Ambassador to the Philippines
February 26

Vietnamese Agricultural Cooperative
& Government Representatives
March 3

Sen. Richard Gordon
Guest of Honor, Farmers' Field Day and Forum
March 17

Brunei Extension Workers
March 25-31

Mr. Kiyofumi Takashima, Ms. Akiko Miyashita,
and Ms. Uchida
Japan International Cooperation Agency
April 14-15

BBC News
April 28-29

Pehin Orang Kaya Seri Utama Dato Seri Setia Awang Haji
Yahya bin Begawan Mudim Dato Paduka Haji Bakar
Minister of Industry & Primary Resources of Brunei Darussalam
May 1-2

Dr. Matsumura and
Dr. Sachiyo Sanada, Morimura
National Agricultural Research Center for Kyushu
Okinawa, Japan
May 3-4

Mr. Lucio Tan & Sonny Domingo
May 22

Kellogs Company, USA
June 8

Agostinho Duarte, General Director and
Manuel Mateus, Asst. Minister of the Fisheries Institute of the Republic of Angola
July 7-8

Dr. Kunihiro Tokida, Kimihiro Konno, Akira Furushima, and Akiko Miyashita
JICA TCP3 Terminal Evaluation Team
July 13-24

Alexander B. Yano
Ambassador of the Philippines to Brunei
July 20

Dr. Julie Viloria Williams
World Bank, Washington
August 14

Officials from the Ministry of Agriculture and Rural Development of Vietman
September 9

Mr. Takehiko Sakata
First Secretary, Agriculture, Embassy of Japan
September 25

Dr. Albert Lester, Prof. Joseph Settele, and Dr. Joachim Spangenberg
Netherlands
September 28

Prof. Karuyuki Inubushi & Party
Chiba University of Japan
October 21

Prof. Reuel K. Virtucio
Guest/Lecturer, GO Negosyo Seminar
November 3

Dr. Agustin B. Molina
Regional Coordinator, Bioversity International Commodities for Livelihood Program, SRO Seminar Series Resource Speaker
November 4

Virginia H. Benavidez
Former Ambassador to Brunei Darussalam
Keynote Speaker, PhilRice Employees' Recognition
November 6

Wasan Vocational School Delegation
Brunei Darussalam
November 24-28

Officials from the Irrigation & Agriculture Department of Ethiopia
November 24

Mr. Ryu Jong Su & Mr. Jung Nam Ho
Academy of Agricultural Sciences
Democratic People's Republic of Korea
December 8

Library

- Now installed is the Destiny Library Manager, a top-of-the-line library automation software with web-based modules for searching, cataloging, and circulation. At present, 20% of the 31,000 records available in the library have been added to the system.
- Its collection grew with 3,739 new acquisitions: 693 publications were cataloged and 1,801 journal articles were indexed. A total of 1,820 rice news items were gathered, 86 (5%) of which involve PhilRice.

Infrastructure Development

Job Description	Location	Actual Date of Completion
Repair of seven units industrial exhaust fan at igo seed processing	PhilRice CES	February 18
Conversion of FTIC Control Room into web conference room	PhilRice CES	February 20
Construction of regular screenhouse and road concreting	PhilRice Midsayap	March 10
Repainting of concrete fence at wheat area and along Mapac-ol Road	PhilRice CES	March 10
Lateral support to the main JICA canal	PhilRice CES	March 12
Restoration/improvement of concrete CHB canals, riprap, wingwalls, and roadways	PhilRice CES	March 16
Realignment of ditch at treatment pond	PhilRice CES	March 16
Construction of Agribusiness Incubation Services Office	PhilRice CES	March 21
Installation of lateral support for CHB canal	PhilRice CES	March 21
Installation of louvers at REMD field service building	PhilRice CES	March 30
Improvement of entrance gate at PhilRice Housing Area	PhilRice CES	April 15
Installation of tractor/thresher cossings, grooves for canal gates	PhilRice CES	April 27
Realignment of roadway at Housing Area	PhilRice CES	April 27
Construction of extension of IGO Workshed	PhilRice CES	May 15
Construction of motorpool and FOM building (Phase I) and improvement of gate and other facilities	PhilRice Agusan	June 28
Concreting of irrigation canal at Block 1	PhilRice CES	June 30
Repair of two greenhouse units	PhilRice CES	June 30
Construction of seed processing shed	PhilRice Agusan	July 14
Improvement of existing tennis court	PhilRice CES	July 29
Improvement of comfort rooms at Main Building	PhilRice CES	July 30
Repainting of 3 PCARRD housing units	PhilRice CES	July 31
Desilting and declogging of grease traps at Cafeteria and PPD Motorpool	PhilRice CES	July 31
Repainting of the roof of ISSO office	PhilRice CES	August 07
Construction of CHB-lined canal at solid waste (Phase II)	PhilRice CES	August 28
Road concreting	PhilRice CES	August 30
Installation of acoustic ceiling panels at Conference Room	PhilRice CES	September 10
Construction of two Working Area units at CI2 Screenhouse	PhilRice CES	October 29
Construction of screenhouse with headhouse	PhilRice CES	November 14
Improvement of the Office of the Deputy Executive Director for Development	PhilRice CES	December 11

Administrative Orders

Reference Number	Subject	Date issued
1	Laptop Computer Plan for PhilRice Personnel	Jan 06
1A	(Amendment)	Feb 11
2	Vehicle Rentals	Jan 16
3	Institutionalizing the DA-Agricultural Crops Biotechnology Center at PhilRice	Jan 23
4	Incentive for Breeding, or Discovery and Development of Outstanding New Rice Varieties	Jan 26
5	Revised AO No. 2009-02, on PhilRice Vehicle Rentals	Jan 30
5A	(Addendum)	Feb 09
6	Institutionalizing the Rice Engineering and Mechanization Center at PhilRice	Mar 09
7	Standardizing Contract Rates of Customized Training for Private Companies (Local and International)	Mar 20
8	Policy Guidelines on the Production, Post-production Operations, and Marketing of Nucleus (NS), Breeder (BS), Foundation (FS), Registered (RS) Seeds, and Hybrid Parent Lines and F_1 Seeds	Mar 18
9	Standard Contract Rates of Product Tests and Trials for Private Companies	Mar 27
10	Amending the Compositions of the Execom, OPCOM, and CORD	Mar 27
11	Establishing the Germplasm and Seed Health Division	Mar 25
12	Seed Storage Policy Guidelines in PhilRice Warehouses	Apr 21

Reference Number	Subject	Date issued
13	Restructuring the Offices of the Deputy Executive Directors (DED) for Administration (ODEDA) and R&D (ODEDRD) to Create the Offices of the DED for Research (ODR) and DED for Development (ODD)	Apr 17
14	Crafting and Institutionalizing the PhilRice Moral Renewal Action Plan (MRAP)	May 13
15	Guidelines on Private Vehicle Rentals	May 14
16	Commercialization Project of PhilRice (Tapuy Rice Wine)	May 14
17	Creating the PhilRice Social and Agro-Industrial Ventures (PhilRice-SAIV) and Providing its Operational Guidelines	May 14
18	Amending the Compositions of the Committee for Research and Development (CORD) and Operations Committee (OPCOM)	May 22
19	Establishing the Hybrid Rice Breeding Program	May 22
20	Instituting a New Operations and Management Structure of PhilRice Branch Stations and Providing for its Policy Guidelines	June 08
21	Guidelines on the Grant of Monthly Incentive to Rice Sufficiency Officers	June 01
22	Qualifications and Requirements of Branch Station Coordinators	June 20
23	Required Return Service of PhilRice Personnel Availing Themselves of Degree or Non -Degree Training-Scholarship	July 13
24	Laptop Computer Plan	July 14
25	Establishment of a Petty Cash Disbursement System	July 13
26	Amending the Composition of the Operations Committee (OPCOM)	July 20
27	Employees' Recognition and Awards	July 20
28	Carpooling of Passenger Vehicles	July 27
29	Contract Rates of PhilRice Service Contractors Retroactive to July 1, 2009	July 28
30	Cost Recovery System for Utilities	Aug 17
31	Policy Guidelines on the Management of the PhilRice Genebank	Aug 18
32	Location-Specific Technology Development (LSTD) Program Protocol	Sept 23
33	Instituting the LSTD Monitoring and Evaluation Program	Oct 15
34	Laptop Computer Loan for PhilRice Personnel	Oct 16
35	Yearend Subsistence Benefits for PhilRice Staff and Contractors	Oct 26
36	Grant of Yearend Incentive for Service Contractors	Oct 26
37	Laptop Computer Loan for PhilRice Personnel (Addendum)	Nov 10
38	New Policy Guidelines on Membership in the PhilRice National Rice Seed Production Network (SeedNet) and their Access to PhilRice Foundation and Registered Seeds	Nov 23
39	Contract Rates of PhilRice Service Contractors by January 2010	Dec 03
40	Integration of Building and Grounds Maintenance and Repair Works with the Integrated Systems and Standards Office (ISSO)	Dec 15

Awards in 2009

NAME/S OF AWARDEE/S	AWARD RECEIVED
GO Romero, RL Ordonio, TC Fernando, LS Sebastian, J Messing	Best Poster (3rd place), *Fine mapping of resistance to rice tungro*, 2nd Annual Illumina Asia-Pacific and Japan User Meeting, April 5-8
Antonio A. Alfonso	Gintong Butil Award for Science and Technology (BSBio'88), CLSU Alumni Association, April 18
Edwin C. Martin	Marcos R. Vega Memorial Award, WSSP 40th Anniversary & Annual Scientific Conference of the PMCP, May 8
RR Suralta, Y Inukai, A Yamauchi	Best Paper (Upstream Research), *Shoot dry matter production in relation to plastic root growth responses of rice to transient soil moisture stresses*, 20th FCSSP Scientific Conference, May 21
AB Matala, N Jamora, P Moya, D Dawe	Best Paper (Socio-economics Category), *What are the sources of yield growth? Changes in crop management practices, input use, and technology adoption in Philippine rice farming*, 20th FCSSP Scientific Conference, May 21
RB Miranda, CG Abadilla, JV Pascual, OC Malonzo, N Kabaki	Best Paper (Technology Promotion/Extension Category), *Development and promotion of location-specific technologies for intensive irrigated rice double cropping areas in Nueva Ecija*, 20th FCSSP Scientific Conference, May 21
	Finalist, PEN Outstanding Research Paper on Extension, 3rd National Agriculture, Fishery, Forestry, and Natural Resources Extension Symposium, PEN, October 14
ND Ganotisi, RA Batuac, RC Castro, LM Juliano	Best Poster (3rd place), *Regulated deficit irrigation (RDI): a water-saving rice-based crop production technique*, 20th FCSSP Scientific Conference May 21

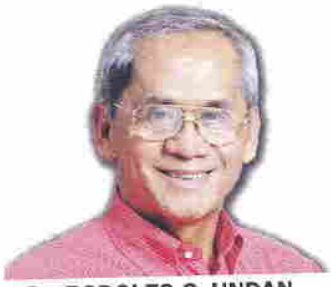
NAME/S OF AWARDEE/S	AWARD RECEIVED
JCP Dela Torre, MP Guzman, S Nasrullah, FD Hilario, WB Collado, EJP Quilang	Best Paper (1st place – Senior Division), *Studying the effects of drought on rice production in Nueva Ecija*, 12th PSSST Annual Meeting and Scientific Conference, May 22
MB Castillo, CP Mamaril, KLS Tafere, JM Vergara, AM Flores, M Rocamora	Best Paper (3rd place – Senior Division), *Performance of biofertilizers in irrigated lowland rice*, 12th PSSST Annual Meeting and Scientific Conference, May 22
JD Elijay, CA Asis, Jr., JEA Dela Torre	Best Poster (1st place), *Can we use commercially available fertilizers for soil NPK test?* 12th PSSST Annual Meeting and Scientific Conference, May 22
CA Santin, JM Rivera, EF Javier	Best Poster (2nd place), *Fate of soil nutrients after rice straw incorporation*, 12th PSSST Annual Meeting and Scientific Conference, May 22
JM Rivera, RG Corales, LM Juliano, SD Cañete, AOV Capistrano, JV Raviz, JC Magahud, MC Casimero	Best Poster (3rd place), *Palayamanan model in the rainfed rice ecosystem in Nueva Ecija*, 12th PSSST Annual Meeting and Scientific Conference, May 22
RV Manaois, JM King	Best Poster (3rd place), *Effects of amino acids under various pH conditions on the pasting properties of rice starch*, 2009 Institute of Food Technologists (IFT) Annual Meeting and Food Expo, Food Chemistry Division, Graduate Student Poster Competition, California, USA, June 6-10
Roel R. Suralta	2009 NAST Talent Search for Young Scientists (Agricultural Science), July 9
AS Juliano, EU Bautista, EB Sibayan, CJM Tado, LB Molinawe, RL Carganilla, RR Nicolas, RA Villota	Best Paper (2nd place – Development Category), *Technology utilization and commercialization of the PhilRice-Briggs & Stratton (B&S) combine harvester*, 20th Regional Symposium on Research and Development Highlights, CLARRDEC, August 14
AS Juliano, JA Ramos, LB Moliñawe	Best Poster (2nd place), *Development of rice hull power gasifier-engine system for irrigation*, 20th Regional Symposium on Research and Development Highlights, CLARRDEC, August 14
EP Agres, K Inoue, AC Aguinaldo, BM Catudan, NQ Abrogena, RC Castro, LG Inocencio, MR Gappi	Best Paper (3rd place – Development Category), *Location-specific technologies for vegetables in Ilocos*, AFMA Best R&D Paper, 21st National Research Symposium, Bureau of Agricultural Research,October 8-9
EU Bautista, AS Juliano, EB Sibayan, CJM Tado, LB Moliñawe, RR Nicolas, RL Carganilla, RA Villota	Best Paper (1st place – Development Category), *Technology utilization and commercialization of the PhilRice-Briggs & Stratton (B&S) combine harvester*, NSARRD Awarding Ceremonies, PCARRD, November 9
Constancio A. Asis, Jr.	Scientist I, DOST-CSC Scientific Career System
Rolando T. Cruz	Scientist I, DOST-CSC Scientific Career System
Evelyn B. Gergon	Scientist I, DOST-CSC Scientific Career System
Ricardo F. Orge	Scientist I, DOST-CSC Scientific Career System
Manuel Jose C. Regalado	Scientist I, DOST-CSC Scientific Career System
Gabriel O. Romero	Scientist I, DOST-CSC Scientific Career System
Nenita V. Desamero Gerald B. Ravelo	DA Crop Biotech Center Research Fellowship
89 Beneficiaries from PhilRice	DOST Magna Carta for Science and Technology

Financial Statement

ASSETS			
Current Assets			
Cash	P532,113,655.76		
Receivables	196,549,808.41		
Inventories	41,010,858.58		
Prepaid Expenses	8,043,529.24		
Other Current Assets	457,373.16		
		778,175,225.15	
Non-Current Assets			
Property and Equipment	631,554,410.66		
Other Assets	5,836,455.51		
		637,390,866.17	
TOTAL ASSETS			1,415,566,091.32
LIABILITIES & EQUITY			
Current Liabilities			
Payable Accounts	65,010,237.70		
Inter-Agency Payables	6,553,689.98		
Other Liability Accounts	659,202,851.18		
		730,766,778.86	
Non-Current Liabilities			
Other Deferred Credits	244,368,108.11		
TOTAL LIABILITIES			975,134,886.97
Equity			
Government Equity	467,101,414.48		
Retained Earnings	(26,670,210.13)		
TOTAL EQUITY			440,431,204.35
TOTAL LIABILITIES and EQUITY			P1,415,566,091.32

Board of Trustees

Hon. ARTHUR C. YAP
Ex-Officio Chair
Secretary of Agriculture



Dr. RODOLFO C. UNDAN
Academic Community

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Consumer Sector

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Agribusiness Sector

Dr. WILLIAM G. PADOLINA
Academic Community

Mr. WINSTON C. CORVERA
Consumer Sector

Mrs. THELMA G. DOMINGO
Consumer Sector

(NOTE: Former PhilRice ED Leocadio S. Sebastian, whom Malacanang allowed on August 21, 2008 to relinquish his membership in the Board, has yet to be replaced.)

Staff

OFFICE OF THE EXECUTIVE DIRECTOR
Ronilo A. Beronio, Executive Director V
Constante T. Briones, Board Secretary III
Abegail T. Donayre, Private Secretary II
Chona Mae S. Narvadez, Sci Res Spec I
Jane G. Payumo, Project Development Officer IV
Lea D. Abaoag, Supvg Sci Res Spec

Library
Elaine E. Joshi, Librarian III
Virginia P. Salvador, Librarian II

Integrated Systems and Standards Office (ISSO)
Hazel Jane M. Orge, Hum Res Mgt Officer IV
Rosana A. Espiritu, Sci Res Spec II
Nicolas T. Lucero, Jr., Security Guard III
Valentino G. Tolentino, Security Guard II
Reynaldo F. Bruno, Security Guard II
Rodrigo U. Antonio, Security Guard II
Federico M. Valdez, Security Guard I
Marcelino V. Sanchez, Security Guard I
Crispin E. Alegado, Security Guard I
Nelson N. Valdez, Security Guard I
Ricky D. Vigilia, Security Guard I

Income Generation Office (IGO)
Necitas B. Malabanan, Administrative Officer V
Myrna U. Dela Cruz, Sr Sci Res Spec
Amelia C. Hidalgo, Administrative Officer III
Hazel B. Alfon, Sci Res Spec II
Marlon A. Labuguen, Sci Res Spec II
Reynaldo E. Irang, Sci Res Spec I
Tagumpay S. Velasquez, Sci Res Spec I
Bernabe G. Nunez, Printing Machine Operator III
Rodjason B. Cruz, Clerk III
Jennifer J. Abiera, Clerk III
Eleuterio M. Esteban, Science Aide
Rolando M. Soriano, Laborer II
Rolando V. Tolentino, Laborer II
Nelson G. Parpados, Jr., Science Aide

Planning and Collaborative Programs Office (PCPO)
Teodora L. Briones, Planning Officer V
Fidela P. Bongat, Development Mgt Officer III
Joselito A. Kalaw, Sci Res Spec II
Maureen P. Capistrano, Planning Officer II

Internal Audit Unit
Conyfel D. Jiao, Mngt & Audit Analyst IV
Roy V. Santiago, Mngt & Audit Analyst I

INFORMATION AND COMMUNICATIONS TECHNOLOGY DIVISION
Roger F. Barroga, Information Tech Officer III
Luis Alejandre I. Tamani, Information Tech Officer II
Consolacion D. Diaz, Information Tech Officer I
Sherwin Owen S. Adriano, Sci Res Analyst

ADMINISTRATIVE SUPPORT SERVICES DIVISON
Sophia T. Borja, Administrative Officer IV
Aurea C. Cosio, Mngt & Audit Analyst II
Ma. Ethel P. Gibe, Private Secretary I
Elizabeth P. Molina, Clerk III
Fe G. Alonzo, Supply Officer IV
Glenda D. Ravelo, Administrative Officer III
Grace S. Villaroman, Supply Officer III
Imelda A. Fernandez, Property Custodian
Gina B. Narca, Clerk III
Ma. Cielo J. Tibayan, Dormitory Manager III
Guadalupe L. Miranda, Sci Res Assistant
Edna P. Alfonso, Clerk III
Fernando M. Corpuz, Printing Machine Operator II
Florencio B. Lamson, Hum Res Mgt Officer I
Carmelito C. Jao-jao, Messenger
Elmo G. Bernal, Utility Worker II
Salvador D. Salazar, Utility Worker II
Ma. Angelita M. Agaton, Hum Res Mgt Officer II

FINANCE DIVISION
Mary Grace D. Corpuz, Accountant IV
Annie Beth R. Avellanoza, Bookkeeper II
Jannette D. Salvador, Accounting Clerk III
Ma. Romina F. Padolina, Clerk II
Fe N. Lumawag, Cashier IV
Jasmin G. Requito, Cashier II
Adelaida B. Giray, Budget Officer IV
Marivic C. Soriano, Budget Officer III
Babylinda O. Reyes, Accountant III
Jerryme B. Milanda, Accounting Clerk II

PHYSICAL PLANT DIVISION
Renato B. Bajit, Administrative Officer V
Jennifer G. Martinez, Engineering Assistant
Napoleon V. Sicat, Mechanical Plant Operator III

Staff

Joel G. James, Farm Superintendent II
Virgilio C. Patricio, Utility Worker II
Luis A. Hidalgo, Mechanical Shop Gen Foreman
Ariston G. Asuncion, Mechanic III
Wilfredo M. Deregla, Mechanic II
Bernie S. Dela Cruz, Mechanic II
Jose D. De Guzman, Mechanic I
Fredy D. Dela Cruz, Driver II
Rolando F. Alvarez, Driver II
Danilo S. Villanueva, Driver II
Jimmy C. Villatema, Driver II

OFFICE OF THE DEPUTY EXECUTIVE DIRECTOR FOR RESEARCH

Eulito U. Bautista, Chief Sci Res Spec (Scientist 3) *
Lou Franz G. Mula, Sci Res Spec I
Jennifer J. Rabara, Executive Assistant III
Irmina R. De Gracia, Private Secretary I

PLANT BREEDING AND BIOTECHNOLOGY DIVISION

Antonio A. Alfonso, Chief Sci Res Spec
Thelma F. Padolina, Chief Sci Res Spec
Nenita V. Desamero, Chief Sci Res Spec
John C. De Leon, Chief Sci Res Spec
Dindo Agustin A. Tabanao, Supvg Sci Res Spec
Jerry C. Serapion, Sr Sci Res Spec
Emily C. Arocena, Sr Sci Res Spec
Oliver E. Manangkil, Sr Sci Res Spec
Gerald B. Ravelo, Supvg Sci Res Spec
Imelda A. Dela Cruz, Sr Sci Res Spec
Loida M. Perez, Sr Sci Res Spec
Errol V. Santiago, Sr. Sci Res Spec
Nelson S. Garcia, Sci Res Spec II
Haizel M. Pastor, Sci Res Spec II
Thelma A. Alegado, Sci Res Spec I
Marie Stella F. Ablaza, Sci Res Analyst
Virgilio M. Alata, Sci Res Analyst
Eleanor S. Avellanoza, Sci Res Analyst
Felylee B. Hibionada, Clerk III
Elizabeth C. Ramos, Clerk III
Alberto F. Hernaez, Science Aide
Jose A. Orcino, Science Aide
Gloria M. Osoteo, Laboratory Aide II
Julieta F. Parinas, Laboratory Aide II
Alfredo S. Narca, Science Aide
Ma. Johna C. Duque, Laboratory Aide II
Benjamin C. Patricio, Laborer II
Remegio V. Arteme, Laborer II
Ramil P. Magdangal, Laborer II

AGRONOMY, SOILS, AND PLANT PHYSIOLOGY DIVISION

Jovino L. De Dios, Supvg Sci Res Spec
Wilfredo B. Collado, Sr Sci Res Spec
Constancio A. Asis, Jr., Supvng Sci Res Spec (Scientist 1) *
Rolando T. Cruz, Chief Sci Res Spec (Scientist 1) *
Eduardo Jimmy P. Quilang, Supvg Sci Res Spec
Myrna D. Malabayabas, Sr Sci Res Spec
Evelyn F. Javier, Sr Sci Res Spec
Rizal G. Corales, Supvg Sci Res Spec
Roel R. Suralta, Sr Sci Res Spec
Leylani M. Juliano, Sr Sci Res Spec
Filomena S. Grospe, Sci Res Spec I
Sandro D. Cañete, Sci Res Spec I
Artemio A. Corpuz, Sci Res Analyst
Annie E. Espiritu, Sci Res Assistant
Alex J. Espiritu, Sci Res Spec I
Marcelo B. Villanueva Jr., Science Aide
Domingo M. Visperas, Metal Worker I
Danielito O. Neri, Laborer II
Jose R. Corpuz, Laborer II

CROP PROTECTION DIVISION

Gertrudo S. Arida, Supvg Sci Res Spec
Fe A. Dela Peña, Supvg Sci Res Spec
Vic V. Casimero, Supvg Sci Res Spec
Gilely D. Santiago, Sr Sci Res Spec
Edwin C. Martin, Sr Sci Res Spec
Genaro S. Rillon, Sr Sci Res Spec
Juliet P. Rillon, Sci Res Spec II
Amelita T. Angeles, Sci Res Spec II
Ulysses G. Duque, Sci Res Analyst
Leonardo V. Marquez, Sci Res Analyst
Myra S. Aguirre, Clerk III
Cesaria E. Constantino, Laboratory Aide II
Evelyn M. Valdez, Laboratory Aide II
Danilo S. Narca, Laborer II
Renante C. Braceros, Laborer II
Wilson D. Antolin, Laborer II

RICE ENGINEERING AND MECHANIZATION DIVISION

Manuel Jose C. Regalado, Chief Sci Res Spec (Scientist 1) *
Evangeline B. Sibayan, Supvg Sci Res Spec
Caesar Joventino M. Tado, Chief Sci Res Spec
Eden D. Gagelonia, Supvg Sci Res Spec
Arnold S. Juliano, Sr Sci Res Spec
Joel A. Ramos, Sci Res Spec II
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PHILIPPINE RICE RESEARCH INSTITUTE

We are a government corporate entity attached to the Department of Agriculture. We were created through Executive Order 1061 on 5 November 1985 (as amended) to help develop high-yielding and cost-reducing technologies so farmers can produce enough rice for all Filipinos.

We accomplish this mission through research and development work in our central and six branch stations, coordinating with a network that comprises 57 agencies and 70 seed centers strategically located nationwide.

To help farmers achieve holistic development, we will pursue the following goals in 2010-2020: attaining and sustaining rice self-sufficiency; reducing poverty and malnutrition; and achieving competitiveness through agricultural science and technology.

We have the following certifications: ISO 9001:2008 (Quality Management), ISO 14001:2004 (Environmental Management), and OHSAS 18001:2007 (Occupational Health and Safety Assessment Series).

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