

GUYANA RICE DEVELOPMENT BOARD

2015
ANNUAL REPORT

RICE, OUR LIFE, OUR HISTORY

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CORPORATE OBJECTIVES

The GRDB was established in 1995, in pursuance of the Guyana Rice Development Board Act No. 15 of 1994. The three entities that were controlling the state's interests in the industry prior to the formation of GRDB were dissolved. The roles of these entities – the Guyana Rice Export Board (GREB), Guyana Rice Milling & Marketing Authority (GRMMA) and the National Padi & Rice Grading Centre (NPRGC) have been combined and are now performed by GRDB.

The main objectives of the GRDB include.

- To develop the rice industry in Guyana and to promote the expansion of the export trade in the said industry;
- To establish facilities for the conduct of research, relating to rice and extending to rice farmers through an established system, the benefits derived from such research;
- To engage in such promotional and developmental activities which the Board deems necessary for the purpose of developing the rice industry.

Vision Statement

“An integrated, sustainable and profitable industry producing and marketing rice for the benefit of all Guyanese.”

Mission Statement

“To efficiently utilise the resources of Guyana to produce and market high quality rice and rice by-products, including value-added products, for local and international markets, while providing employment and foreign exchange earnings.”



CHAIRMAN'S STATEMENT

CLAUDE E. HOUSTY

2015 was a significant year for the rice industry of Guyana. The year saw the highest exportation of paddy, rice and rice by-products, the release of a new variety, the launching of Guyana's first aromatic rice, commissioning of a gasification plant and, at No. 56, the Seed Facility. The accreditation of the GRDB central laboratory to international standards was also attained.

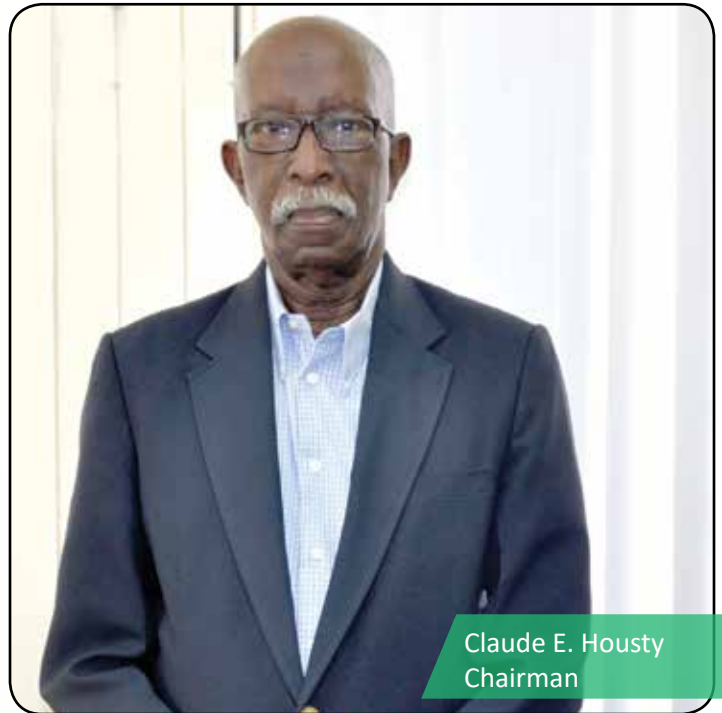
At the end of 2015, records show that approximately 687,784 metric tonnes of rice was produced (the highest number to date) and 537,334 metric tonnes paddy, rice and rice by-products were exported. From records there is no doubt that production and exportation in the rice sector were progressively higher when compared to previous years.

A total of thirty six (36) countries imported paddy, rice and its by-products from Guyana in 2015, an increase by four (4) countries when compared to the thirty two (32) countries exported to in 2014. In spite of the increase in production and exportation, the export value was relatively less when compared with 2014, primarily due to the loss of the Venezuela market which imported rice at a premium price.

Despite the reduction in export values, there were other major achievements in 2015. One such achievement was the accreditation of the GRDB's central laboratory to International Standard ISO/IEC: 17025. The accreditation process was done by the Jamaica National Agency for Accreditation (JANAAC) which is an ILAC MRA accredited laboratory.

Also, the Government of Guyana, through the Ministry of Agriculture and the Guyana Rice Development Board, hosted a National Rice Industry Conference. Rice Farmers, Millers, Exporters, the Financial Sector and other stakeholders were part of the conference.

There was also the launching of the first aromatic rice produced in Guyana - the Maria's Delight Aromatic Rice. This aromatic rice is targeted to be produced in large quantities. The "GRDB 14" - a new variety - was also launched. This new variety has a high yield average and is tolerant to lodging.



Claude E. Housty
Chairman

Finally, there was the commissioning of the No. 56 Seed Facility, which commenced operations. This facility will produce certified seeds for the rice growing regions. Also, a gasification plant was installed in Region 2 and this too commenced operations. The plant uses paddy husk to provide energy for the rice mill.

The Guyana Rice Development Board will continue to carry out its mandate to develop the rice sector.

CLAUDE E. HOUSTY
Chairman



GENERAL MANAGER'S STATEMENT

NIZAM HASSAN

The Guyana rice industry performed very well in 2015, in spite of various challenges such as the unfavourable weather conditions, low prices for paddy and loss of a premium market.

Production for 2015 closed at 1,058,129 metric tonnes paddy, which is equivalent to 687,784 metric tonnes of rice. This is the highest production recorded in the history of the rice industry. The average yield is a recorded 5.5 tonnes per hectare, the highest in the production history in Guyana.

Despite the loss of the Venezuelan market, the largest importer of paddy and rice for the past several years, Guyana exported a record 537,334 metric tonnes of paddy, rice and its by-products. This exceeded the 501,208 metric tonnes in 2014 by 36,126 metric tonnes. Total exports for 2015 were valued at US\$220,768,341, compared to US\$249,504,955 in 2014.

2015 saw the release of GRDB 14. This new variety has demonstrated a high yield of forty to forty five bags paddy per acre and is tolerant to lodging. Since its release during the first quarter of 2015, the GRDB 14 gained acceptance among rice farmers.

The Maria's Delight Aromatic Rice, the first ever aromatic variety to be produced in Guyana, was launched during the first quarter of the year.

Another highlight for the rice sector was the accreditation of the Guyana Rice Development Board Central Laboratory to the International Standard ISO/IEC:17025, during the second quarter of the year. The accreditation process was done by the Jamaica National Agency for Accreditation (JANAAC), which is an ILAC MRA accredited laboratory.

The No. 56 Seed Facility commenced operations in May 2015 and produced certified seeds which were sold to farmers.



NIZAM HASSAN
General Manager

The Guyana Rice Development Board continued to collaborate with The Energy Resource Institute (TERI) on energy efficiency and renewal energy application in the rice industry. This venture resulted in the installation of a gasification plant which uses the paddy husk to provide energy at Ramlakhan and Son Rice Mill in Region 2. Training for staff, both internationally and locally, was provided.

Five staff members were granted scholarships, while twenty eight were trained in various courses.

The Guyana Rice Development Board will continue to work to ensure that the rice industry continues to contribute to the economic growth of Guyana.

NIZAM HASSAN
General Manager

THE FUNCTIONS OF THE GUYANA RICE DEVELOPMENT BOARD

Introduction

The Guyana Rice Development Board (Board/GRDB) was established by Act Number 15 of 1994. The functions of the Board are as follows:

- a) To develop the rice industry in Guyana and to promote the expansion of the export trade in the industry;
- b) To establish facilities for the conduct of research, and to conduct research relating to rice and extend to rice farmers through an established system, the benefits derived from such research;
- c) To engage in such promotional and developmental activities which the Board deems necessary for the purpose of developing the rice industry.

By virtue of Part 2 Section 4 of the Act, the Board of Directors shall comprise of no more than thirteen members, with three (3) members representing the Guyana Rice Producers Association (GRPA), two (2) members representing the Guyana Rice Exporters and Millers Association (GREMA), and one (1) member representing consumers.

Organisational Structure

The Board provides its functions through the following departments:

- Marketing
- Logistics
- Research
 - Plant Breeding
 - Agronomy
 - Pathology
 - Entomology
 - Seed Production
- Extension
- Quality Control
- Post Harvest
- Human Resource Management
- Finance
- Internal Audit
- Administration
- Information Technology
- Procurement



THE FUNCTIONS OF THE GUYANA RICE DEVELOPMENT BOARD CON'T...

MARKETING

Comprising of the marketing assistant, a research assistant, a customs clerk, a marketing clerk, a typist/clerk and a confidential secretary, this Department is solely responsible for the preparation of all relevant documentation for the exportation of rice and rice products from Guyana.

SHIPPING AND LOGISTICS

The Shipping and Logistics Unit's main objective is to aid in the facilitation of commodity trade between government to government contracts.

RESEARCH

This component of the Board's activities forms an integral part of its operations. Based at the Rice Research Station (RRS), Burma, Mahaicony, this unit is where new varieties are developed to enable farmers' access to plants that are more conducive to providing a better quality and higher volume of grain, as well as greater resistance to pests, diseases and weather fluctuations. Research at the Station is done in the Plant Breeding, Entomology, Agronomy and Plant Pathology Departments. The Research section and Seed Production of the RRS are headed by a chief scientist, who oversees the operations of the Station, with support from research scientists, research assistants, research technicians and labourers.

EXTENSION

The Extension Department focuses on four (4) areas: data collection, marketing seed paddy, transfer of technology from research to the farmer and support of unplanned activities. Extension Officers are based in all regions and regularly meet with farmers; thus, this component of the Board serves as an advisory body to assist the farmers in the acquisition of inputs, and retooling with new technology available. Additionally, it disseminates pertinent data to stakeholders countrywide, that could lead to improved and more productive husbandry practices.

QUALITY CONTROL

Quality Control is responsible for ensuring that the quality of rice produced and/or sold by rice millers and exporters meet the requisite specifications. It is headed by the Quality Control Manager, who is supported by regional supervisors, grading officers, technical assistants, research assistants and a confidential secretary. These Officers are tasked with ensuring that rice leaving Guyana is of the prescribed quality as per contract requirements and international standards.

POST HARVEST

This Department comprises of a Post Harvest Researcher who conducts research in two areas: post-harvest processes associated with rice production and manufacturing value-added products that can be made from rice and its by-products.

HUMAN RESOURCE

The staff composition of this Department includes the Human Resource Officer, a human resource assistant and a data entry clerk, who are responsible for the welfare of all employees (training, etc) and also for the recruiting of suitable applicants for employment.

FINANCE

This Department manages the financial aspect of the Board and comprises the following staff:- the Accountant, two (2) assistant accountants, a senior accounts clerk, two (2) junior accounts clerks, a data entry clerk, a cashier and a secretary.

INTERNAL AUDIT

To maintain the requisite operational procedures and ensure that prescribed standards are upheld, this Department has an internal auditor, who audits the daily transactions of the Board.

THE FUNCTIONS OF THE GUYANA RICE DEVELOPMENT BOARD CON'T...

ADMINISTRATION

The Administration Department is responsible for the day-to-day activities of the Board, which includes dealing with legal matters.

The staff is comprised of the General Manager, the Deputy General Manager, an occupational health and safety officer, an administrative co-ordinator, two (2) confidential secretaries, one (1) procurement officer, a project assistant/clerk, an office assistant, two office attendants and two drivers.

INFORMATION TECHNOLOGY

The Information Technology Department is responsible for managing and maintaining all technological and communications devices at all of the Board's locations; maintaining the network and internet equipment, servers, printers; installing and keeping abreast with new software and custom applications. This Department consists of an IT officer and an IT technician.

PROCUREMENT UNIT

The Procurement Unit is responsible for the Board's procurement policies and procedures to ensure timely, efficient, and economic procurement, within the guidelines of good business practices and the Procurement ACT of 2003.

All Departments of the Board work together in adjunctive and collaborative endeavours, and so complement each other in facilitation and operational initiatives to achieve the mission and vision of the Organization.



MARKETING

2015 was a productive year for the rice industry, despite declining international prices for rice. Rice exports for 2015 totaled 537,334 metric tonnes, as compared to 501,208 metric tonnes of rice for 2014. This represented an increase of 7% in rice exported in 2015, when compared to 2014, and is the highest rice export level in the history of the industry, which remains one of the pillars of Guyana's economy.

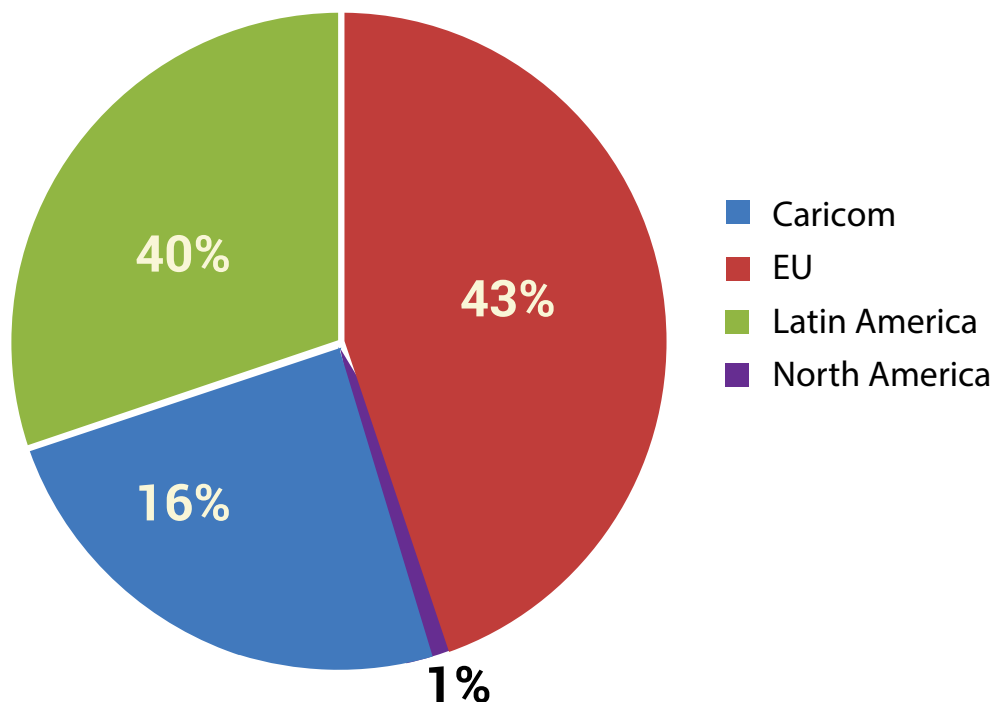
The major markets for Guyana's rice continued to be European Union (EU), CARICOM and Latin American countries, with the quantity of rice exported to the EU increasing by 129%, i.e. from 101,672 metric tonnes in 2014 to 232,450 metric tonnes in 2015. That of CARICOM and Latin American countries fell by 3% and 34% respectively, i.e. from 88,435 metric tonnes to 85,855 metric tonnes and 308,562 metric tonnes to 212,559 tonnes, when comparing 2014 with 2015.

The increase in quantity of rice exported to the European Union can be attributed to the various marketing strategies by the Government of Guyana and the Private Sector in securing new markets, and increased sales volume in some

of the current markets in the EU. Decrease in exports to Latin America can be attributed mainly to the abrupt cessation of exports to Venezuela in June. Only 30,000 metric tonnes of paddy and 38,640 metric tonnes of white rice was exported to that country for 2015. The decrease to CARICOM can be attributed to low market prices for rice to that region.

The 2015 rice export value totaled US\$220,768,341 compared to US\$249,504,955 in 2014. This represented a decline of 10% in the overall value of rice exported in 2015, compared to 2014. This decline in the overall value for rice was due to the declining rice prices for all rice types and the removal of the premium price that Guyana enjoyed from Venezuela before the contract was withdrawn. An examination of the prices for the four main rice types exported by Guyana, namely cargo rice, parboiled rice, white rice and paddy, reveal that average prices for 2015 declined by 15%, 6%, 14% and 27% respectively, as compared to 2014. With such huge declines in individual rice type prices, it is no surprise that, despite the quantity of rice export increasing by 7%, there was still an overall decline in the value of rice exported by 12%.

Average Export as per Trading Block



MARKETING CON'T...

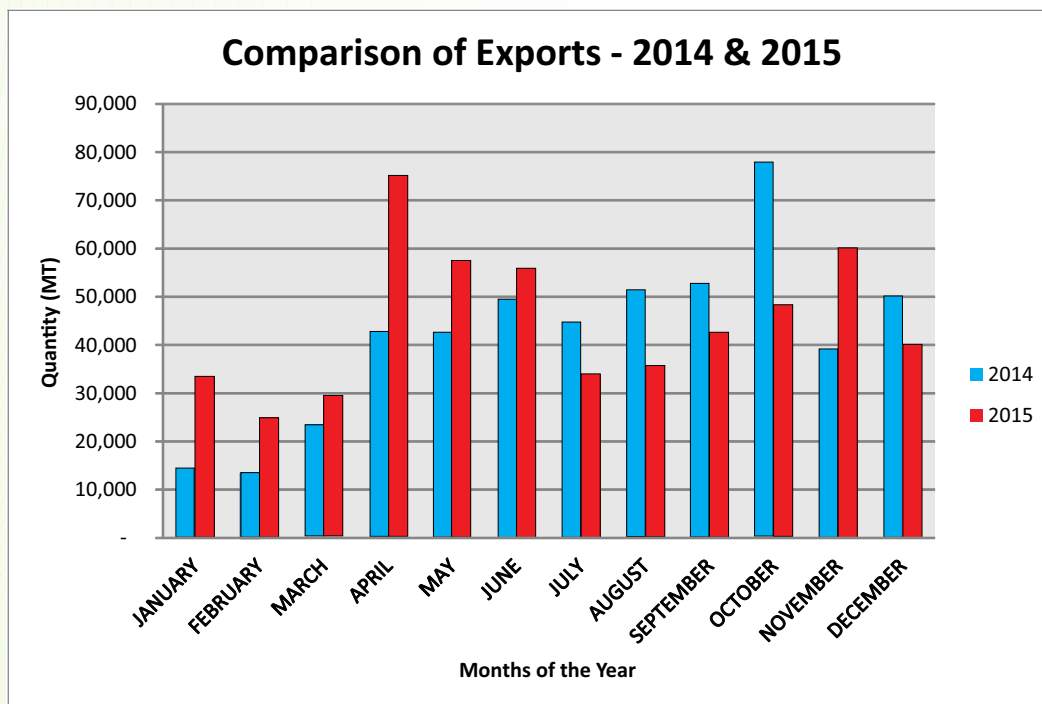
1. MAJOR RICE TRADE ISSUE ARISING IN 2015

An agreement was signed between the Guyana Rice Development Board and La Casa, a Venezuelan Company, for the exportation of 120,000 metric tonnes of Paddy and 74,000 metric tonnes of white rice. The agreed export prices for paddy was US\$480 per metric tonne, while the white rice was US\$760 per metric tonne. However, this contract was not completed because Venezuela withdrew the contract in June 2015.

Guyana also inked three (3) contracts for the exportation of white rice to Panama in 2015. The first contract was signed in July for 100,000 quintals; the second contract was signed in August for 150,000 quintals, while the third contract was signed in November for 100,000 quintals.

The diagram below provides a breakdown of monthly exports for 2015 compared with 2014. It can be concluded that there were significant fluctuations in the tonnage of rice exported monthly, with October having the highest tonnage of rice exported. February/March is the end of crop season for the second crop. Thus, exports for these months tend to be low, since they are reaping months for rice. The months just after these months (e.g. April – June and September – November) always tend to have high exports, since rice becomes available for exportation. As such, the trend shown in the diagram below is very common for rice exports on a yearly basis.

NB: Quintal 2 (22.04 Quintal equals to 1 ton)



SHIPPING AND LOGISTICS UNIT

INTRODUCTION

The Shipping and Logistics Unit's main role is to aid in the facilitation of commodity trade between Guyana's Government and Government contracts of other countries.

For the calendar year 2015, the Unit was tasked with facilitating the delivery of the eight sales contracts between Guyana and Venezuela, amounting to one hundred and twenty thousand (120,000) metric tonnes paddy and seventy four thousand (74,000) metric tonnes of white rice.

The Unit sought to secure a total of seven thousand (7,000) metric tonnes of urea for Guyana from Venezuela but this never materialised due to unforeseen circumstances.

Additionally, the Unit also facilitated the delivery of fourteen thousand six hundred and fifty (14,650) metric tonnes of white rice to Panama.

The present report serves to give information on the objectives and work programme of the Shipping and Logistics Unit and to give an insight of work that was done for the year 2015.

1. SHIPPING & LOGISTICS OBJECTIVES

- a) Planning, managing and controlling the flow of goods and services, information, real-time data and human resources from the point of origin to the point of destination.
- b) Adapting to newer technologies to improve port loading and discharge of cargo to meet requirements of diverse export destinations.
- c) Maintaining good working relationships with all parties involved.

2. SHIPPING & LOGISTICS PROGRAMME OF WORK

- a) Negotiating with local and international counterparts
 - Evaluating the performance and progress of consignments through visits/meetings with shipping agents locally and internationally, wharf managers locally and internationally.
 - Liaising with the Marketing Department to ensure all documents of consignments are in proper order to permit sailing of vessels.
 - Liaising with the Quality Control Department to ensure material handling, warehousing, information, transportation, packaging and inventory are in order and adequate stock is in supply to complete speedy completion of vessel loading.
- b) Adapting to newer technologies to improve port loading and discharge of cargo to meet requirements of diverse export destinations
 - Tracking vessel arrival and delivery of goods.
 - Planning, managing, controlling and coordinating to ensure that the goods arrive and reach the destination, on time, at the right cost and in a wholesome condition.
- c) Maintaining good working relationships with all parties involved
 - Creating and maintaining customer support.
 - Maintaining coordination with vendors, customers, service providers and transport carriers.
 - Assisting in the timely supply and payment of goods.
 - Ensuring that no fraud is committed.

SHIPPING AND LOGISTICS UNIT CON'T...

3. PADDY AND WHITE RICE SHIPMENTS TO VENEZUELA 2015

a) Summary of Paddy and White Rice shipments to Venezuela - 2015 “eight sales contract”

The eight sales contract for one hundred and twenty thousand (120,000) metric tonnes paddy and seventy four

thousand (74,000) metric tonnes of white rice, saw at the ending of the year 2015, shipments to Venezuela of thirty thousand (30,000) metric tonnes of paddy (25% of the total paddy contract) and thirty eight thousand six hundred and forty (38,640) metric tonnes of white rice (52.21% of the total white rice contract) to Venezuela. Table 1 below shows a summary of these monthly shipments with figures corresponding to diminishing metric tonnages for paddy and white rice.

Table 1 Summary of Paddy and White Rice shipments to Venezuela-2015 “eight sales contract”

| Month | Paddy Sent (tonnes) | Paddy Remaining (tonnes) | W/Rice Sent (tonnes) | W/Rice Remaining (%) |
|-------|---------------------|--------------------------|----------------------|----------------------|
| April | 12,000 | 108,000 | 5,760 | 68,240 |
| May | 6,000 | 102,000 | 15,552 | 52,688 |
| June | 6,000 | 96,000 | 16,272 | 36,416 |
| July | 6,000 | 90,000 | 1,056 | 35,360 |
| | | | | |

As seen in table 1, paddy and white rice shipments began in the month of April and concluded in July, with ninety thousand (90,000) metric tonnes of paddy and thirty five thousand three hundred and sixty (35,360) metric tonnes of white rice outstanding to be delivered. Bulk paddy shipments were done in five voyages in contracted vessels with capacities of approximately six thousand (6,000) metric tonnes. These voyages were done by two vessels of the United Bulk Carriers (UBC) namely, MV Manzanillo and

MV Mobile. White rice, on the other hand, was shipped in 50kg bags stuffed into twenty feet containers with net cargo weight of twenty four (24) metric tonnes each. Container vessels shipped between sixty to two hundred and seventy (60-270) of these containers to Venezuela on each voyage.

Both paddy and white rice shipments were on target and scheduled to be completed by November 2015 when the eight sales contracts would have come to an end.



Fig: 1.1 Paddy vessel-UBC Manzanillo



Fig: 1.2 White Rice vessel-Mv Asian Sun

SHIPPING AND LOGISTICS UNIT CON'T...

4. SHIPPING LINES

White rice shipments were done by Compagnie Maritime d’Affrètement (CMA), Compagnie Générale Maritime (CGM) and Sealand/Maersk. CMA’s shipments were done directly to Venezuela as in the case with the paddy vessels from UBC whereas, Sealand/Maersk’s shipments transshipped through Jamaica then to the final port in Venezuela.

mills which caused frustration amongst millers and farmers and in the rice industry at large.

In July, only six thousand (6,000) metric tonnes of paddy were shipped, and at the ending of July 2015, a total of thirty thousand (30,000) metric tonnes of paddy were shipped to Venezuela. This represented a 25% of the total paddy contract for 2015.

5. COMPARISONS BETWEEN WHITE RICE AND PADDY SHIPPED TO VENEZUELA DURING APRIL TO JULY 2015

With regard to white rice shipments, in July a mere one thousand and fifty six (1,056) metric tonnes were shipped as compared to the other months and as of the ending of July 2015, a total of thirty eight thousand six hundred and forty (38,640) metric tonnes were shipped to Venezuela. This represented a 52.21 % of the total white rice contract for 2015.

Figure 1.3 depicts comparisons between white rice and paddy shipped during April to July 2015. As seen in the bar charts, with exception for April and July, white rice shipments doubled paddy shipment in May and June. This was because of the limited number of paddy vessels that were approved by Venezuela for the execution of the paddy shipments. This resulted in an increased paddy stock at rice

On July 10th, 2015, all shipments to Venezuela were suspended by the Venezuelan buyer (CORPOVEX) for the revision of the shipping schedule with the promise that shipments would recommence at a later date after the shipping schedule was revised. This never materialised since no other rice shipments were made to Venezuela for 2015.

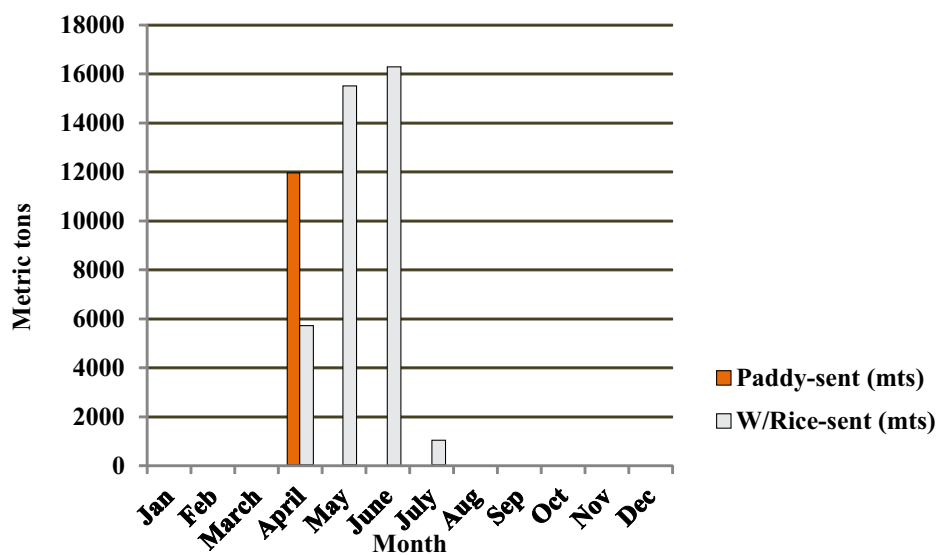


Fig: 1.3 showing comparison between white rice and paddy shipped during April to July 2015

SHIPPING AND LOGISTICS UNIT CON'T...

6. WHITE RICE SHIPMENTS TO PANAMA



Fig: 1.4 Signing of 3rd 2015 contract with Panama, Mr. Eduardo E. Carles P., Director General IMA (left) and Mr. Nizam Hassan, General Manager, GRDB

A total of three hundred and fifty thousand quintals (350,000.qtls) or fifteen thousand eight hundred and eighty (15,880) metric tonnes of white rice was negotiated between the Government of Guyana and Panama for 2015. These shipments began in late July and at end of December

2015, a total of fourteen thousand six hundred and fifty (14,650) metric tonnes was shipped to Panama, with one thousand, two hundred and thirty (1,230) metric tonnes remaining to be delivered in January and February of 2016.

SHIPPING AND LOGISTICS UNIT CON'T...

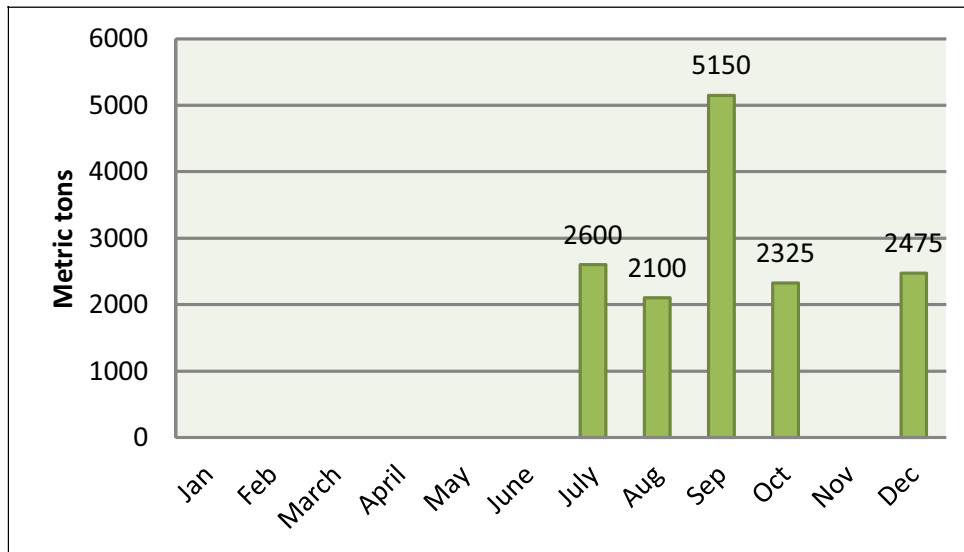


Figure 1.5 showing the total rice shipped to Panama during the months July to December, 2015

Figure 1.5 shows the total rice shipped to Panama during the respective months in 2015. As observed, Panama is a smaller importer of Guyana’s rice but has proven consistent at engaging in continuous rice contracts with Guyana. Their demand for Guyana’s rice varies according to their local production and demand. As observed in figure 1.5,

all shipment volumes were similar with the exception for September, where the shipment doubled and recorded the highest volume shipped to Panama during that period. No shipment was made in November because there were no active contracts between Guyana and Panama to supply rice during that month.

7. FERTILIZER SHIPMENTS FROM VENEZUELA

Amidst paddy and white rice shipments, the Shipping and Logistics Unit was also engaged in securing a total of seven thousand (7,000) metric tonnes of urea fertilizer to boost our rice industry and the agriculture sector as a whole. This fertilizer should have been sourced from our sister country Venezuela through the Petro-Caribe arrangement between Guyana and Venezuela but this never materialised due to changes in work programmes and a change in bilateral talks between the two countries.

SHIPPING AND LOGISTICS UNIT CON'T...

8. AD HOC ACTIVITIES - THE SHIPPING & LOGISTICS UNIT DURING 2015

As part of our Agriculture month in October, under the theme “Exploiting our strengths; advancing agriculture and social protection”, the unit was involved in the following:

- a) Burma Rice Research and Extension (BRRS) Open Day
- b) World Food Day – Agriculture Fair, Uitvlugt

The Burma Rice Research Station Open Day and World Food Day – Agriculture Fair, Uitvlugt were held on Wednesday

October 7th, 2015 and Friday October 16th, 2015 respectively and the Shipping and Logistics Unit was tasked to display its work to farmers and other stake holders of the rice industry. The Unit’s display was part of a series of displays by the other Departments and Units of the GRDB and aimed at showing and promoting the Unit’s integration with these Departments and the GRDB as a whole.

Minister of Agriculture Hon. Noel Holder graced the occasion along with other key governmental heads of the Ministry and rice industry. Farmers, students and the general public benefited from these activities.



Fig: 1.6 Images from Open Day - Burma Research and Extension (BRRS)



Fig: 1.7 Images from World Food Day - Agriculture Fair, Uitvlugt



Fig: 1.8 Image from World Food Day – Agriculture Fair, Uitvlugt

9. PROJECTIONS FOR THE SHIPPING AND LOGISTICS UNIT IN 2016

For the calendar year 2016, the Unit seeks to aid and further negotiate for the delivery of paddy and white rice to Mexico, Panama, Cuba, China and Canada. Panama has positively indicated their commitment to continue taking Guyana's rice but in small quantities amounting to approximately twenty thousand (20,000) metric tonnes annually. Mexico is also expected to make commitment for over one hundred thousand (100,000) metric tonnes of Guyana's paddy in 2016.

RESEARCH

INTRODUCTION

The focus of the Rice Research Station is directed at developing high-yielding varieties (>6.5 t/ha) with tolerance to lodging, stable resistance to blast, high milling (HRR 55/TRR 70), excellent cooking qualities; and evolving aromatic and salt tolerant varieties. It is mandatory for the Station to develop a comprehensive package of practice as it relates to varietal release and rice cultivation in specific regions. Features of such package include water and weed management, seeding density, plant nutrition and other important agronomic factors. Other crucial areas of rice research include providing solutions to salinity, acidity, crop nutrition and plant health problems. Additionally, breeding lines are screened for their tolerance/resistance to various pest and diseases; and resistance to such pests and diseases are monitored. Germplasm management is also a priority of the station. New pesticide formulations are always available on the market; it is the goal of the Research Station to evaluate and guide farmers on possible use. Monitoring for disease incidence and insect populations, timely advisory and training to farmers are also crucial activities undertaken. Additionally, maintaining genetic purity of commercial varieties and production of sufficient quantity of seeds of high genetic purity are priorities for the Station. Activities conducted at the Research Station over the past year are outlined below.

PLANT BREEDING

1) PERFORMANCE OF NEW RICE VARIETIES

New rice variety “GRDB 14” was released in first crop 2015, along with its production package for commercial cultivation by farmers. This variety has demonstrated its high yielding ability (40-45 bags/ac) and tolerance to lodging in farmers’ fields over the two seasons. This variety is gaining acceptance by farmers and it is projected that more acreages will be covered by this variety by the second crop of 2016. The high yielding rice varieties (GRDB 10, GRDB 11, GRDB 12, GRDB 13 and GRDB 14) for commercial cultivation have gained widespread acceptance by farmers and have already occupied more than 65% of the total

cultivation in Guyana. The rice productivity in Guyana has moved from 1.57 t/ha in 2000 to 5.5 t/ha in 2015. The most dominant variety in the country is GRDB 10, which occupied 50% of the total acreage.

2) ADVANCED YIELD TRIALS (AYT)

Three trials were conducted in different locations viz. Rice Research Station, Black Bush Polder and West Coast Demerara, over two seasons. Eighteen elite lines/strains were evaluated along with two checks (GRDB 10 and GRDB 14) in the first season, while nineteen lines/strains were evaluated in the second season in a Randomized Block Design with three replications. Few strains (G07-13-1, FG12-29, FG12-49 and FG12-259) have shown good promise with 7-8 t/ha and good tolerance to lodging, excellent milling and cooking qualities. It is recommended that strains in this trial be studied in 2016 before promoting any as candidate variety for scale testing.

3) OBSERVATIONAL YIELD TRIAL (SCENTED)

Although testing for aroma is quite a tedious job as is the conventional method of plant selection for aroma, efforts continue and efforts are expected to pay off as the Research Station intends to release its second aromatic variety by the year 2020. During the second crop 2015, eighteen (18) scented strains were studied. Trials were conducted at the Research Station in order to determine the average yield agronomic traits of strains which were found to possess aroma. Of the eighteen strains studied, all but one was observed to have yielded above 5t/ha.

4) OBSERVATIONAL YIELD TRIAL (OYT)

At the Research Station, fifty strains were studied along with three checks in first crop and 65 strains and three checks in second crop in an augmented design for initial assessment of yield potential and other important characters. During the first crop, six high yielding strains (FG12-05, FG12-248, G13-101, G13-104, G14-10, G13-103) with good agronomic traits were promoted for further testing in the Advanced Yield Trials. All other entries will be studied for at least another season along with new entries during 2016.

RESEARCH

5) VARIABILITY AND GERMLASM

Fifty-six crosses were made to create variability in 2015 (14 in the first crop and 42 in the second crop). Hybridisation is aimed at creating variability for increased yield potential, salt tolerance, aroma, and submergence tolerance. The crosses made in the first crop were successfully raised in the second crop of 2015. Those made in the second crop will be raised in the first crop of 2016.

During the first crop of 2015, a total of 3,236 progenies (F3 – F10 generation) were studied and 3,725 single plant selections were taken, which were evaluated in the second crop and more than 3,300 selections were taken for further assessment. Fifteen strains were bulked and promoted for initial yield testing during the first season. More than 2,500 germplasm accessions were rejuvenated in 2015.

6) STRAIN PURIFICATION

Four hundred and twenty five strains were purified. The lines were grown in progeny rows (5-25 per strain) for the purpose of purification.

7) MAINTENANCE BREEDING AND SEED PRODUCTION

More than 10,000 progenies of all the varieties were grown and studied during the two seasons. The genetic purity of each variety was maintained and more than 10,000 selections were made.

More than 2,500 kg of pre-basic seed (for all the varieties) were produced over the two seasons of 2015. One hundred and twenty seven metric tonnes of basic seed were produced from twelve varieties (Rustic, GRDB 9, GRDB 10, GRDB 11, GRDB 12, Aromatic, GRDB 14, G98-22-4, G98-196, 98-30-3, G98-135, IR 22), over the two seasons, at the Research Station. Seed generated here were supplied to the Seed Production Unit of the Research Station and to seed growers in the various regions for multiplication. Over seven hundred bags of basic seed were sold to farmers during the two seasons of 2015.

AGRONOMY

1) EVALUATING BREEDING LINES FOR THEIR TOLERANCE TO SALINITY.

Three hundred lines were evaluated for tolerance to salt at 500, 1000 and 1500 parts per million (ppm). There are 1000 ppm in the screen house. Experiments look promising, and evaluation is ongoing.

2) DATE OF SOWING STUDY

This trial was conducted at the Rice Research Station, Burma using strips of 1000 m² and variety GRDB 14. Sowing was done at 10 days interval. Preliminary analysis showed that there were significant differences in grain yield between sowing dates.

3) EVALUATION OF ATLANTICA, NATURAL AGRICULTURE PRODUCTS AND ORGANIC FERTILIZERS

The trial was established at the Rice Research Station, Burma to evaluate these products for their effect on germination, growth and yield of rice. Results did not show any significant differences in grain yield.

4) STALE SEEDBED TECHNIQUE

A trial was conducted at the Rice Research Station, Burma, to test the stale seedbed technique as a weed control method in direct seeded lowland rice. This method significantly reduced the initial flush of weeds; however, there were challenges regarding water management. Work will be ongoing in the upcoming seasons.

RESEARCH CON'T

AGRONOMY CON'T

5) EVALUATION OF RONSTAR AS A PRE AND EARLY POST EMERGENT HERBICIDE ON WEED AND RED RICE MANAGEMENT

The trial was conducted at the Rice Research Station in strips of 1000 m². The objective was to study the effect of Ronstar (240 g/L oxadiazon) as a pre and early post emergent herbicide on weed (red rice) emergence and establishment. It was found that the chemical was effective against red rice; however, the high level of toxicity remains the biggest challenge.

PLANT PATHOLOGY

1) EVALUATION OF BREEDING LINES/ MATERIALS FOR BLAST DISEASE (PYRICULARIA GRISEA (COOKE) SACC.)

The disease scores for the over 4,000 test entries evaluated in multi-location Upland Blast Nursery (UBN) during 2015 ranged from Highly Resistant (HR) to Highly Susceptible (HS) (score of 1 to 9). Highly susceptible reaction (score 8 and 9) was consistently observed for the check over the two seasons and locations. This served as a bench mark for the reliability of the reactions of the test entries.

2) IDENTIFICATION OF SLOW BLIGHTING/ TOLERANT LINE TO SHEATH BLIGHT DISEASE

In a separate trial conducted, out of the 103 entries evaluated under natural conditions for sheath blight during both seasons in 2015, two entries consistently showed reaction status ranging from immune to very resistant status viz., FG12-56 and GR1631-35-16-1-2-1-1; two entries viz., GR1440-52-23-4-1-1-1-1-2-1-2 and GR1602-6-41-1-1-2-1, very resistant and another three entries (IR-94, G11-08 and G98-135) recorded reaction ranging between very resistant to resistant. Disease severity level ranged from 0 to 7 for entries tested under artificial inoculated conditions under screen house and 0 to 5 for entries tested under natural field conditions. Further confirmation is needed since the disease severity level was not on the higher side.

3) SEED HEALTH TESTING

Tests were carried using standard protocol set out by International Seed Testing Association (ISTA) for the identification of fungal microorganisms in seed paddy. Over 25 samples were studied with infestation levels ranging from 12% to 64%. Six fungi strains were detected, out of which four fungal microorganisms were predominantly observed viz. *Bipolaris oryzae*, *Aspergillus* sp., *Curvularia* sp. and *Alternaria* sp.

4) EVALUATION OF FUNGICIDES AS SEED TREATMENT

The treatment with Carbendazim and Manzate has given the most promising results, with higher percentage germination and seedling vigour. There were no significant differences between treatments for root and shoot length.

5) MONITORING THE INCIDENCE OF RICE DISEASES ON-STATION AND ACROSS THE COUNTRY

In general, low disease incidence was recorded for the four major rice diseases within the Seed Production area at BRRS for both seasons in 2015, with slightly higher levels observed within the second crop. Similar trends were also observed across the rice growing regions. It was clear that disease incidences were significantly higher in the number/ percentage of acreages affected in second crop, as compared to the first crop.

6) LABORATORY CULTURE AND DIAGNOSIS OF RICE DISEASES

During 2015, over 55 samples were processed for disease diagnosis. Blast (*Pyricularia grisea*), brown spots (*Bipolaris oryzae*), sheath blight (*Rhizoctonia solani*), and sheath rot (*Sarocladium oryzae*) were most prevalent among the pathogens that were successfully identified from the disease samples. Few other minor pathogens such as *Ustilaginoidea virens*, *Aspergillus* sp., *Curvularia* sp. and *Alternaria* sp. were also identified.

7) INVESTIGATING THE INCIDENCE OF 'BLACK-TIP' ON GRAINS OF GRDB-10

During 2015, one hundred and twenty six samples were collected and analysed across the rice growing regions. Generally, the incidence of 'black tip' was observed to be prevalent and distributed within all 5 rice growing regions. In over 95% of the cases the variety was GRDB 10, while only a few cases with very low percent incidence was observed on the other varieties. It must be noted that the most sampled variety was GRDB 10, as this variety is the most dominant in farmers' fields. In general, black tip seems to have little impact on germination of seeds and head rice recovery. The phenomenon probably arises during the grain filling process from physiological abnormalities that are probably peculiar to some semi-dwarf, long-grain rice varieties. It may also be a result of environmental conditions.

ENTOMOLOGY

In 2015, the Department focused on finding solutions to manage paddy bugs (*Oebalus poecilus*) in order to reduce the damage caused by the feeding of this insect on the developing grains of the rice plant. This effort led to the formulation of the National Paddy Bug Management Unit (NPBMU), which is mandated to carry out 'comprehensive studies on the paddy bug and its management in Guyana', over the five-year period from 2014 - 2018. These studies include species identification and distribution; population dynamics and forecasting; biology; economic impact; and, varying management strategies. For 2015, activities of the Department included new, mandatory studies on insect pests that affect stored paddy and rice. Several training programmes were also conducted for the Extension and Quality Control personnel in the various regions.

1) NATIONAL PADDY BUG MANAGEMENT UNIT (NPBMU)

During the year, more than 300 publications were reviewed and compiled. The review provided a foundation for the work ahead; and guidance in establishing protocols for the various investigations to be carried out that are best fitted for Guyana's conditions.

In determining the species of paddy bugs present in Guyana, a sampling survey was done in all the rice growing regions, including Lethem. From the survey, several different bugs based on morphological differences were recorded. At least five of them were present on the crop during the grain filling stage, which suggested that they are possibly grain feeders and are likely to cause damage to the crop. This will be ascertained based on taxonomic and molecular identification of the species found. The population dynamics study was initiated by scouting non-rice habitats away from the rice fields, particularly south of cultivated lands. Intercepting the bugs' survival and off season reproduction strategies, as well as their migration from the survival sites into the rice fields, can serve as a critical breakthrough for managing paddy bugs. Several trips in non-rice terrain revealed varying types of habitats, ranging from pine fields to mixed vegetable farms, where the bugs found shelter and nested during the hot days. There were grass seeds present in these areas, which served as a source of food for the bugs.

2) INSECTICIDE SCREENING

Insecticidal trials focused on finding a combination of different active ingredients that were effective in killing paddy bugs, and which can be used in a rotation cycle. This will help to curb the extensive use of Imidacloprid and prevent the build-up of resistance to this molecule. Ten insecticides with the following active ingredients, namely Acetamiprid, Fipronil, Imidacloprid, Fenitrothion, Thiamethoxam and Lambda-cyhalothrin were evaluated under laboratory and field conditions. Under laboratory conditions, exposure of the chemicals to the bugs by direct contact and residue of the insecticides were tested; while under field conditions, foliar application of the treatments was applied when the natural population of the bugs reached the threshold level of 1 bug per 2 sweeps using a sweep-net. All the insecticides tested were effective in killing the bugs under laboratory conditions and in the field.

3) VARIETAL EVALUATION

Out of 114 advanced breeding lines that were evaluated for resistance against paddy bugs showed that, all the lines had feeding marks caused by paddy bugs. Few lines showed less than 3.5% damage and these will advance to further screening.

RESEARCH CON'T

ENTOMOLOGY CON'T

4) STORAGE PESTS

Studies on the impact of *Sitophilus oryzae* on stored paddy and rice in Guyana were conducted in two parts namely, determining varietal preference and investigating the impact of this insect using different media (paddy, cargo and polished rice). In determining varietal preference, the weevils were exposed to the different media of 11 commercial varieties using choice and no-choice methods. It was found that cargo rice of any variety was the most preferred medium, while GRDB 10 was the least preferred variety for this medium, under both methods. However, the results varied for paddy and polished rice where no particular variety was superior under the two methods tested. For the impact studies, it was found that weight loss of the media was significant after 12 days of feeding by the weevils on the grains.

5) TRAINING

The year started out with a one-day workshop for the Extension staff on their role and involvement in the NPBMU programme. Later, there was a series of workshops for the Quality Control staff on 'Identification of pests affecting stored paddy, rice and rice by-products' in all the rice growing regions. This training on storage pest identification was also extended to stakeholders who were being trained to become licensed grading officers at various rice mills.

SEED PRODUCTION

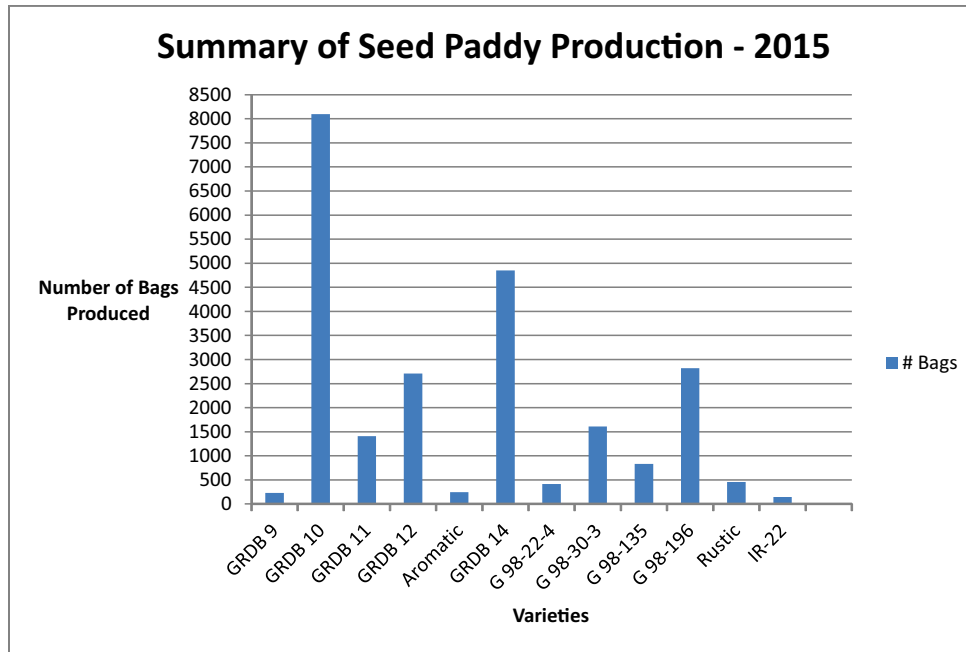
The main objective of the Seed Production Department is to produce sufficient quantity of high quality seed for farmers. During the year, 1,516.1 tonnes (23,822 bags of 140 lbs) of seed consisting of 12 commercial varieties were produced (see table below). These seeds were distributed to farmers across the country.

Table 2 showing seed paddy production for first and second crops, 2015.

| No. | Varieties | First Crop, 2015 | | Second Crop, 2015 | | Grand Total | | Percentage |
|--------------|---------------|------------------|--------------|-------------------|--------------|---------------|----------------|--------------|
| | | Bags | Tonnes | Bags | Tonnes | Bags | Tonnes | |
| | | 231 | 14.7 | 0 | 0.0 | 231 | 14.7 | 1.0 |
| 2 | GRDB 10 | 4,023 | 256.0 | 4,074 | 259.3 | 8,097 | 515.3 | 34.0 |
| 3 | GRDB 11 | 1,038 | 66.1 | 371 | 23.6 | 1,409 | 89.7 | 5.9 |
| 4 | GRDB 12 | 1,059 | 67.4 | 1,652 | 105.1 | 2,711 | 172.5 | 11.4 |
| 5 | Aromatic | 0 | 0.0 | 244 | 15.5 | 244 | 15.5 | 1.0 |
| 6 | GRDB 14 | 2,703 | 172.0 | 2,148 | 136.7 | 4,851 | 308.7 | 20.4 |
| 7 | G 98 - 22 - 4 | 412 | 26.2 | 0 | 0.0 | 412 | 26.2 | 1.7 |
| 8 | G 98 - 30 - 3 | 947 | 60.3 | 663 | 42.2 | 1,610 | 102.6 | 6.8 |
| 9 | G 98 - 135 | 468 | 29.8 | 366 | 23.3 | 834 | 53.1 | 3.5 |
| 10 | G 98 - 196 | 1,373 | 87.4 | 1,445 | 92.0 | 2,818 | 179.3 | 11.8 |
| 11 | Rustic | 458 | 29.1 | 0 | 0.0 | 458 | 29.1 | 1.9 |
| 12 | IR - 22 | 0 | 0.0 | 147 | 9.4 | 147 | 9.4 | 0.6 |
| Total | | 12,712 | 809.0 | 11,110 | 707.1 | 23,822 | 1,516.1 | 100.0 |

During the year, approximately twenty four percent of the varieties grown consisted of the G98 varieties, while the others grown were 1.0% GRDB 9, 34.0% GRDB 10, 5.9% GRDB 11, 11.4% GRDB 12, 1.0% Aromatic, 20.4%, GRDB 14, 1.9% Rustic, and 0.6% IR-22. An additional 18.2 tonnes (285.9 bags) were also harvested from experimental plots and sold as grains.

Graph below showing the different varieties of seeds produced for 2015 at BRRS



Based on the graph above, seeds of variety GRDB 10 was the most dominant produced, followed by GRDB 14, G 98-196 and GRDB 12. Varieties G 98 30-3 and GRDB 11 were the others where more than a thousand bags of seeds were produced for the calendar year. Seeds produced from other varieties mentioned were below that of GRDB 11, of which IR-22 was the least in terms of the number of bags of seeds produced.

1) LAND PREPARATION

Land preparation for the first crop included 1st, 2nd and 3rd roam on a total of 440.9, 453.5 and 44.8 acres respectively while 400.8 and 354.1 acres received 1st and 2nd chip. Further, 12.56 acres received disc ploughing. Final land preparation (rake and leveling) was done on 354.1 acres. In addition, 260.11 acres received dry land leveling.

For the second crop 1st and 2nd roam accounted for 453.0 and 323.94 acres respectively. In addition, 453.5 acres received 1st and 2nd chip respectively, while 3rd chip was done on 158.9 acres. Final land preparation (rake and leveling) was done on 453.5 acres. Additionally, 107.3 acres received dry land leveling.

2) SOWING

A total of 345.51 and 368.64 acres were sown for the first and second crops, while 345.53 and 364.64 acres were established respectively. Sowing for both the first and second crop was done manually.

RESEARCH CON'T

SEED PRODUCTION CON'T

Table 3 showing acreage according to variety on a seasonal basis

| Variety | First Crop | | Second Crop | |
|--------------|---------------|---------------|---------------|---------------|
| | Acreage | % | Acreage | % |
| GRDB 9 | 6.83 | 1.98 | 0.00 | 0.00 |
| GRDB 10 | 107.15 | 31.02 | 137.96 | 37.43 |
| GRDB 11 | 30.94 | 8.95 | 14.80 | 4.01 |
| GRDB 12 | 24.99 | 7.24 | 49.58 | 13.45 |
| Aromatic | 0.00 | 0.00 | 12.18 | 3.30 |
| GRDB 14 | 69.39 | 20.08 | 55.56 | 15.07 |
| G 98 22-4 | 12.08 | 3.49 | 0.00 | 0.00 |
| G 98 30-3 | 28.64 | 8.29 | 28.65 | 7.77 |
| G 98-135 | 12.16 | 3.52 | 12.16 | 3.30 |
| G 98-196 | 40.77 | 11.79 | 52.35 | 14.21 |
| Rustic | 12.56 | 3.64 | 0.00 | 0.00 |
| IR-22 | 0.00 | 0.00 | 5.40 | 1.46 |
| Total | 345.51 | 100.00 | 368.64 | 100.00 |

The most dominant variety sown during 2015 was GRDB 10 while the least sown was IR-22.

3) FERTILIZER APPLICATION

Fertilizer application was based on soil test recommendations in which balanced nutrition fertilizers and micro-nutrients were applied in both crops. During the first crop 8:32:16 and 6:25:25 were incorporated on a total of 187.5 and 158.01 acres respectively. In addition, micro-nutrients Boron and Zinc Chelate were applied on 345.51 and 90.05 acres respectively. In the second crop 8:32:16 and 6:25:25 were applied on 166.64 and 202.0 acres while 368.64 and 69.39 acres received Boron and Zinc Chelate respectively. Urea was applied in two splits for both crops using two bags per acre.

4) ROGUEING

All established acres were rogued in an effort to produce quality seed in both crops.

5) HARVESTING

A total of 345.51 and 364.27 acres were harvested for the first and second crops with average yields of 36.79 and 30.50 bags/ac respectively.

EXTENSION

Extension continued to play a crucial role in the lives of farmers by developing their capabilities and capacities in the areas of problem solving, management and decision-making. The Department was also engaged in the process of facilitating, brokering information and advocacy as it sought to expand its services to diversify and improve farmers' livelihoods. It accomplished these tasks through interventions in the areas of technology transfer, seed production and marketing, data collection and special or supporting activities. Forging and enhancing linkages with farmers through farmer field schools, field days and other supporting activities continued to be the backdrop of the extension programme in 2015.

1) SEED QUALITY ASSURANCE AND MARKETING

a) Marketing of seed produced at Burma Rice Research Station

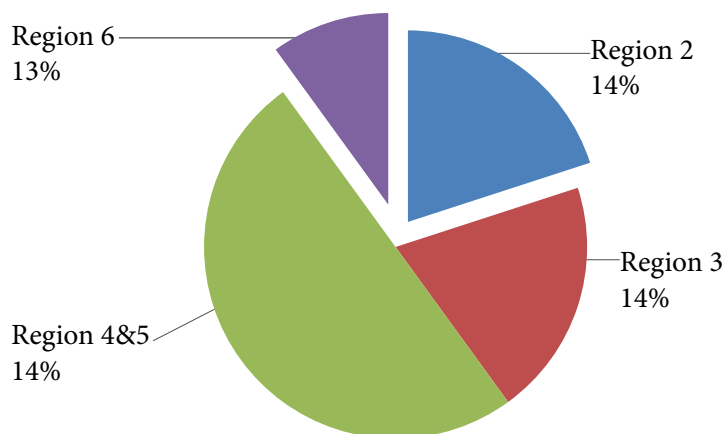
A total of ten thousand eight hundred and eighty five (10,885) bags of seeds produced by the Burma Rice Research Station and approved for sale were distributed to key farmers and contract growers in the various rice growing areas, for further multiplication, as shown in table 4. Variety GRDB 10 was the most dominant variety distributed, amounting to four thousand one hundred and ninety six (4,196) bags or 38.6 % of the total.

Table 4 showing the varieties distributed according to regions

| Regions | VARIETIES | | | | | | | | | | | Total |
|--------------|------------|------------|------------|--------------|--------------|--------------|-----------|--------------|------------|------------|------------|---------------|
| | RUS | 22-4 | 196 | GRDB 10 | 30-3 | GRDB 12 | GRDB 9 | GRDB 14 | 135 | IR-22 | GRDB 13 | |
| 2 | 84 | 193 | 137 | 730 | 146 | 85 | 14 | 142 | 21 | 0 | 0 | 1,552 |
| 3 | 11 | 31 | 157 | 991 | 83 | 28 | 27 | 196 | 24 | 0 | 0 | 1,548 |
| 4&5 | 139 | 34 | 500 | 2,158 | 1,057 | 705 | 1 | 1,375 | 253 | 130 | 3 | 6,355 |
| 6 | 84 | 2 | 144 | 317 | 44 | 396 | 6 | 137 | 48 | 13 | 239 | 1,430 |
| TOTAL | 318 | 260 | 938 | 4,196 | 1,330 | 1,214 | 48 | 1,850 | 346 | 143 | 242 | 10,885 |

The highest amount uplifted according to region was by Regions 4 & 5, comprising 58.4 % of the total whilst Region 6 uplifted the least of 13.1%, as shown in chart 1.

Chart 1, amount of seeds uplifted according to region



EXTENSION CON'T

1. SEED QUALITY ASSURANCE AND MARKETING CON'T

- b) Monitoring the performance of seed from Rice Research Station, Burma

The division routinely makes checks on fields sown with seeds purchased from the Burma Rice Research Station to ascertain performance in terms of germination and establishment during the early stages of growth. Towards this end, approximately five thousand four hundred and ninety four (5,494) acres were inspected.

- c) Monitoring of Seed Fields at the Rice Research Station, Burma

Seed fields at the Research Station are inspected to ensure that seeds produced conform to the required class. Based on the findings, the necessary corrective actions are taken to bring the fields in conformity with the desired quality. For the first and second crops, seven hundred and two (702) acres were examined at various growth stages of the crop.

- d) Monitoring/Certification of farmers' seed production

Seeds originating from the Research Station and multiplied in farmers' fields are routinely inspected so as to ensure that the intended class is produced at that level. Approximately sixteen thousand four hundred and forty five (16,445) acres were examined in the process.

2) TECHNOLOGY APPLICATION

- a) Developing Competency of extension staff

Extension officers are on a regular basis exposed to training

that is aimed at strengthening their effectiveness in the delivery of the service to farmers. In-service training that officers participated in during the year included:-

- a. Leadership and communication in extension.
 - b. Conducting Farmers' Field School.
 - c. ICT and computer skills.
 - d. Organisation and management in Extension.
 - e. Cost of production.
 - f. Collection of data for non-traditional agricultural crops in Guyana.
 - g. Benefits associated with the use of balanced nutrition fertilizers.
 - h. General management practices in rice production.
 - i. Weighing of paddy.
 - j. Setting up Emergency Operation Centre in the case of natural disasters.
 - k. Theoretical and practical aspects of field inspection and seed certification.
 - l. Natural Disaster Management.
- b) Technology Transfer

Equipping farmers with knowledge, tools and skills continued to receive intense focus during the year. Focus groups in the form of Farmers' Field Schools continued to be the main strategy to achieve this objective. This approach has been recognised as an important means of improving the decision-making capacity of farming communities and stimulating local innovation for sustainable agriculture.

A total of fifty eight (58) FFS groups were established with nine hundred and twenty four (924) farmers participating in the sessions, as shown in table 5.

Table 5 showing the number of schools and farmers

| Region No. | No. of Schools | No. of participants. |
|--------------|----------------|----------------------|
| 2 | 10 | 162 |
| 3 | 16 | 264 |
| 4 | 2 | 35 |
| 5 | 16 | 296 |
| 6 | 14 | 167 |
| Total | 58 | 924 |

EXTENSION CON'T

2. TECHNOLOGY APPLICATION CON'T

Regional field days/exchange visits held towards the end of a Farmers' Field School programme complements training at the sessions. The occasion provides for participants to observe innovative technologies demonstrated in a farmer's field through the collaborative effort of the farmer and the Extension Department. Also, it provides an excellent opportunity for the farmers from the various regions to interact with each other and share their knowledge and experiences and to create a network of exchange of information among them. A total of five hundred and ninety seven (597) farmers participated in the three (3) field days that were held.

Two hundred and fifty four (254) paddy bug and three hundred and twenty six (326) red rice demonstrations were held to enhance the skills of farmers in the management of the bug and red rice respectively.

Monitoring of blast nurseries and other on-farm programmes (AYT trials and promising lines) in farmers' fields continued with the involvement of research, extension and collaborating farmers.

Other activities which complemented the field programmes included: - end of season review (8), television programmes (4), radio programmes (3), newspaper articles (7) and infomercials (13). Approximately one thousand four hundred and twenty seven (1,427) brochures covering

various aspects of rice production were produced and distributed to farmers. Two hundred (200) CDs covering various aspects of rice cultivation were created by the Board and distributed to farmers.

3) DATA COLLECTION

Data collected was on crop production, namely harvesting, sowing, pest and disease levels, drainage and irrigation status, fertilizer use and costs and prices for paddy.

The Department prepared and submitted two hundred and fifty four (254) daily paddy bug reports, two hundred and sixty (260) weekly and sixty (60) monthly reports. Specific reports on schoonord grass infestation levels (2) and cost of production (2) were also compiled.

A register comprising of all farmers and their respective acreage sown was completed during the year.

4) SPECIAL ACTIVITIES

These are unplanned activities that the division is called upon to perform from time to time. They are complementary in nature and support regular Extension activities, as shown in table 6.

EXTENSION CON'T

4. SPECIAL ACTIVITIES CON'T

Table 6 showing supporting activities

| Activity | Host | No. of days |
|--|---|-------------|
| Minister & senior official visit | Guyana Rice Development Board (GRDB), Rice Producers Association (RPA) | 17 |
| GRDB officials visit | Ministry of Agriculture (MOA), GRDB & RPA | 17 |
| Training of Extension staff | GRDB & RPA | 21 |
| Investigation | GRDB | 1 |
| Commissioning of GRDB seed facility No. 56 | MOA, GRDB, Regional Democratic Councils (RDC) | 1 |
| Launching of rice cereal project | GRDB, MOA | 1 |
| Tree planting exercise | MOA | 1 |
| Exchange visit with Suriname rice farmers | GRDB | 1 |
| Meeting with regional authorities | GRDB, National Drainage Irrigation Authority (NDIA), RDC | 9 |
| Annual Retreat | GRDB | 1 |
| Green Agriculture conference | MOA | 6 |
| Interview of farmers (Cost of Production) | GRDB | 4 |
| International Rice Conference (launching of GRDB 13 & GRDB 14) | MOA, GRDB, National Agriculture Research & Extension Institute (NAREI), Guyana Livestock Development Authority (GLDA) | 2 |
| Exhibitions | MOA, GRDB, Ministry of Tourism | 15 |
| | | |

Exhibitions included Essequibo Career Day, Essequibo Night, MMA Open Day, Berbice EXPO and GRDB regional open day.

The Minister of Agriculture and other senior Government functionaries would make periodic visits or outreaches to the regions to meet with farmers where issues/concerns such as drainage and irrigation (D& I), flooding, accessibility of dams and payment by millers are addressed.

The Guyana Rice Development Board (GRDB) would participate in meetings held with mainly NDCs, RDCs, NDIA and WUAs to plan and monitor (D& I) work programmes.

Investigations were in the areas of damage to structures, flooding and siltation of outfalls, salinity testing, disease outbreaks and red rice infestation. Support in the form of urea fertilizer at reduced price (\$5,000.00 per bag) was distributed to farmers during the first crop to offset some of their costs.

Extension played a substantial role in executing and facilitating these activities.

QUALITY CONTROL

INTRODUCTION

The Department's role and function as outlined in the Guyana Rice Development Board Act of 1994, continue to be the basis under which the Department operates. It must be noted that the workload of the Department shifts to accommodate the exports and paddy harvested during any given year; this year was no exception.

During the year, despite the cessation of exports to Venezuela during the first half of the year, rice, paddy and by-products continued to be exported in large volumes that necessitated certification. There was an increase in rice exports to Panama this year, a market that began in the latter half of 2014.

In April, the Central Laboratory received accreditation to the international standard ISO/IEC: 17025 — general requirements for the competence of testing and calibration laboratories. The accreditation process was conducted by JANAAC (Jamaica National Agency for Accreditation), an ILAC MRA accredited laboratory.

The Central Laboratory was also re-certified by the Guyana National Bureau of Standards (GNBS) in August, as a National testing laboratory to the GYS: 170 Standard.

The GYS 211:2006 Standard was reviewed during 2014 and a Revised Standard GYS 211:2014 (Guyana National Bureau of Standards Specification for Rice) is still awaiting the necessary approval from Parliament to make this Standard mandatory within the industry.

1) MILL LICENSING

This year there was a reduction of mills licensed, from sixty five (65) to fifty eight (58). These fifty eight (58) mills accounted for a total of 283 metric tonnes per hour of milling capacity. The status and production of mills are captured in Table 7 below.

Table 7: hourly milling capacity available countrywide as per region

| Regions | 2 | 3 | 4&5 | 6 | 9 | Total |
|------------------------------------|----|------|-----|----|-----|----------------|
| No. of Licenced Mills | 13 | 13 | 16 | 15 | 1 | 58 |
| Milling Capacity (tonnes/h) | 74 | 33.5 | 128 | 47 | 0.5 | 283.0 tonnes/h |
| | | | | | | |

Table 8: analysis of the types of mills operating countrywide.

| Mill Type | Number in Operation |
|-------------------------------------|---------------------|
| Buying Centers | 4 |
| Toll Mills | 12 |
| Milling Capacity Below 5 tonnes | 33 |
| Milling Capacity 5 tonnes and above | 21 |

N.B

- * Toll mills are mills which mill paddy on behalf of farmers.
- * Buying centers purchase paddy only.

QUALITY CONTROL CON'T

2) LICENSED GRADERS

One hundred and one (101) persons were licensed to grade paddy and rice and these persons operated during the year. A Grader's License is issued biannually.

3) TRAINING

a) Stakeholder Training

The annual training course in Rice and Paddy Grading and Quality Management was held in July 2015. Fifty seven (57) persons were trained as highlighted in Table 9.

Table 9: Training Schedule - Rice and Paddy Grading and Quality Management

| Date | Region No. | Venue | Persons trained |
|-------------------------|------------|-----------------------------------|-----------------|
| July 7th -9th , 2015 | 2 | GRDB Office, Anna Regina | 19 |
| July 14th - 16th , 2015 | 3 | GRDB Office, Crane, WCD | 9 |
| July 21st -23rd , 2015 | 4&5 | BURMA Rice Research Station | 15 |
| July 28th - 30th , 2015 | 6 | GRDB Office, Corriverton, Berbice | 14 |
| | | | |

A one day farmers' training programme — which enabled farmers to be able to determine the grades of paddy sold to mills, as well as procedures required during the sale of paddy — was conducted in July in all regions. Thirty nine (39) farmers were trained.

b) Staff Training

Staff members of the Department were trained "in house" as well as externally, during the reporting period. Training was done as stated below:

- Method Validation and Measurement Uncertainty
- Quality System Procedures
- Sampling, Inspection and Fumigation Process
- Rice and Paddy Grading and Quality Management
- Implementing Laboratory Management Systems
- Understanding the Requirements of GYS 170 (General Requirement for Operations of the Laboratory)
- Financial Management for Non-Financial Managers
- A 2 day training programme was conducted in each region for staff. Training was conducted by the Entomologist, Dr. Baharally, on "Insect Storage Pests."
- Awareness Training for all millers on fumigation practices.
- Fumigation training for staff and millers in Regions 2, 3, 4, 5 and 6, conducted by Pesticide Toxic Chemical and Control Board.

QUALITY CONTROL CON'T

4) STAFF/OFFICES

The Quality Control Department is found in all the Regional offices of the Guyana Rice Development Board (GRDB) — Regions 2, 3, 4, 5 and 6. All offices are supervised by Regional Superintendents or Supervisors.

Table 10: the present status of staff complement

| Regions | Regional Superintendent | Regional Supervisors | Research Assistants | Grading Officers | Technical Assistants |
|--------------|-------------------------|----------------------|---------------------|------------------|----------------------|
| 2 | 1 | - | - | 6 | 3 |
| 3 | 1 | - | - | 4 | - |
| 4 | - | 1 | 3 | 6 | 5 |
| 5 | - | 2 | - | 3 | 3 |
| 6 | 1 | - | - | 4 | 2 |
| Total | 3 | 3 | 3 | 23 | 13 |

5) DATA COLLECTION

- 24 Bi- Monthly stock reports
- 11 marketing surveillance reports
- Weekly payment information update by millers to farmers
- Weekly paddy intake (by grades) reports
- Preparation, certification and fumigation of paddy, rice and by products for sale locally and for export

A Management Review meeting was held on December 09, 2015. The review sought to verify the status and adequacy of the Quality System in relation to quality policies, objectives, requirements of ISO/IEC:17025 Standard and to introduce necessary changes or improvements to the Quality System.

The Central laboratory was certified on 17th April, 2015 as an ISO/IEC: 17025 accredited laboratory by the Jamaica National Agency for Accreditation (JANAAC). The laboratory was also re-certified by the Guyana National Bureau of Standards (GNBS) on 5th August, 2015 as a National testing laboratory to the GYS: 170 Standard.

6) REVIEW OF CENTRAL LABORATORY ACTIVITIES

Two Internal Audits were conducted by the Guyana National Bureau of Standards (GNBS) in April and December, in keeping with the Department's work plan. Audits are conducted to ensure the credibility of the Quality System.

One (1) External Audit was done in July. This was also conducted by the Guyana National Bureau of Standards (GNBS) to ensure the laboratory's conformity to the GYS 170 Standard.

POST HARVEST/ VALUE ADDED DEPARTMENT

INTRODUCTION

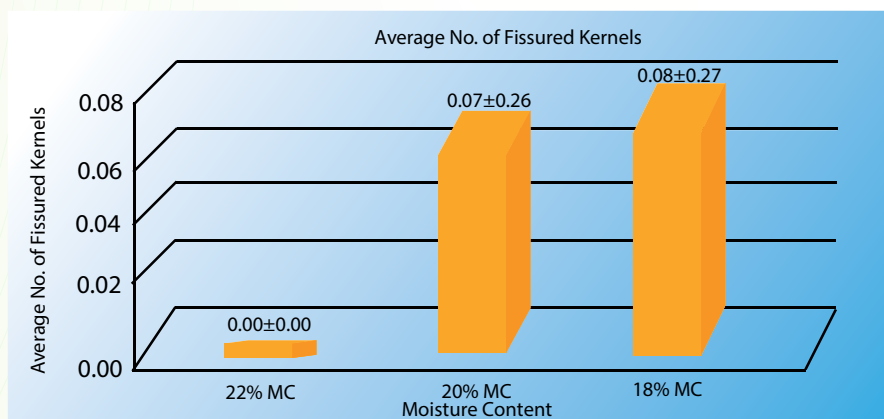
The Post-Harvest/Value Added Department worked efficiently to achieve the goals set out in its 2015 work plan. The staff complement increased to three with the addition of a mechanical engineer and a food safety & quality assurance researcher. The Department's work can be viewed as being a combination of research and operational activities. This report contains description of the Department's activities for January to December 2015.

1) POST HARVEST

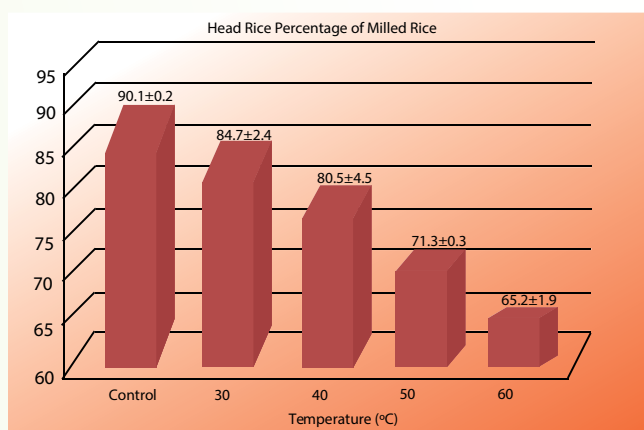
a) Milling Quality Research

During the second crop of 2015, the Department sought to obtain maximum head rice yield by undertaking research which was focused on harvest moisture content and drying temperatures. Milling quality of rice can be influenced by numerous factors, including variety, moisture and drying temperatures.

The aim of the first study was to determine the harvest moisture content which allows for maximum head rice yield of the local variety, GRDB 10. This study demonstrated significant differences in the number of fissured kernels from samples harvested at various moisture contents ($P = 0.001$); however, there were no significant differences in the head rice recovery among samples harvested at the different moisture contents.



The aim of the second study was to investigate the influence of drying temperatures on grain fissuring and the head rice yields of GRDB 10. For this study, harvested grains were dried at various temperatures and the average number of fissured kernels was determined at 1, 12, 24 and 48 hours after drying. Significant differences in the average number of fissured kernels were observed among the various treatments ($P = 0.001$). The head rice yield was also calculated; significant differences were also observed for the samples dried at the various temperatures.



POST HARVEST/ VALUE ADDED DEPARTMENT CON'T

1) POST HARVEST CON'T

b) Technical Manual for Rice Milling

The Department was engaged in research aimed at developing a manual for mill operators that sets out illustrations and basic technical specifications of rice processing machines, and which provides information on their operations. It is intended to be used both as a training guide and reference material for mill technicians and operators. A draft was completed towards the end of the year and is undergoing revision; it is expected that the final version will be presented before the end of the first quarter in 2016.

c) Seed Processing

a. The No. 56 Seed Facility began operation for the first time in 2015, producing 721 bags of certified seeds (435 bags G98-196 and 286 bags G98-135) which were sold to farmers in the region. The Department was involved in assisting the No. 56 Seed Facility to become operational after years of being unused. Experiences gained from the first crop of operation will aid in improving production and operation of the Facility in 2016.

b. A technical manual on the operation of equipment at the Facility was prepared by staff of the Department, an engineer from the Facility and an engineer from BRRS and it was submitted to Management.

c. A draft Standard Operating Procedure (SOP) for the operation of the seed program in Region 6 was prepared covering areas of: seed request and selection of seed growers, field certification, harvesting and purchasing of seed, payment, processing of seed, storage and sales. This will be revised based on the experiences gained, and finalised for implementation in 2016.

d. A paper reviewing the seed cleaning operation at BRRS was completed and submitted to Management. The paper assessed the current installation with respect to its capability and capacity to clean seeds of all undesirable materials in a timely manner. It also made recommendations based on the findings.



The Number 56 Seed Facility

POST HARVEST/ VALUE ADDED DEPARTMENT CON'T

1) POST HARVEST CON'T

d) Collaboration with TERI

The collaboration with TERI — The Energy Resource Institute — continued in the first half of the year:

a. The Department provided support and monitored the installation of the gasification plant at Ramlakhan's and Son Rice Mill in Region 2. Millers from across the country were invited to visit and tour the facility on the 9th April, where a presentation of gasification technology was made by Dr. Rao of TERI.

b. Energy Audits continued during the year with 5 audits completed at 4 rice mills and at the Rice Research Station, Burma. An exploratory visit was also made to Leguan on the 12th of March with Dr. Rao to gauge millers' interest in energy audits. It was found that there is potential to implement a power sustainability programme for the island.



The Gasification Plant

2) VALUE ADDED

The rice cake machine was moved to GSA during the first half of the year. Subsequently, mechanical problems developed during trials and assistance was sought from the Institute of Applied Science and Technology (IAST). The issues were rectified by IAST and the machine was returned to GSA. A demonstration was successfully conducted in the presence of Ms. Grace Paris and other staff of the

Food Processing Department. They have undertaken to try different combinations of flavours to get a variety of cakes. The Department was also involved in exploring other value added options during the year and sought to promote this by participating in a number of exhibitions held around the country during Agriculture Month.

A paper on the international markets available for rice flour was prepared and submitted to Management.



Products made from Rice Flour

POST HARVEST/ VALUE ADDED DEPARTMENT CON'T

3) TRAINING

- a. The Department organised two training seminars on energy efficiency in rice mills, for mill electricians and owners. These seminars were conducted by TERI in Region 2 and Region 4.
- b. The Head of Department conducted the Quality Control Department's Licensed Grader training in Region 2 from the 7th to 10th July, 2015 and a farmers' training on the 11th of July, 2015.
- c. On the 16th July, 2015, the Head of Department attended a training organised by Consultative Association of Guyanese Industry (CAGI) which focused on Leadership Skills for Supervisory Management. A report was submitted to Management.



Dr. Rao of TERI and Participants at Mill Electricians Training

4) OTHER ACTIVITIES

a) Fertilizer

Fertilizer continued to engage the attention of the Department early in the year. Stocks were exhausted in Regions 3, 4, 5 and 6 at the end of February while remaining stocks in Region 2 were exhausted at the end of May.

b) Moco Moco Rice Project

The files on the project were reviewed and a Report on the Project was submitted to the General Manager. The files on the project were reviewed for an insight into the project and to develop a plan on how it should move forward.

c) Caribbean Food Crops Society (CFCS) Conference

A poster was submitted for presentation at the 51st Caribbean Food Crops Society Conference held in Suriname from July 19th -24th under the theme Food Safety, Innovation and Quality in Green Agriculture: The Way Forward To Food Security For The Caribbean. The poster was based on the paper "A Review of the Processing Capacity in Guyana's Rice Industry".

HUMAN RESOURCES DEPARTMENT

1. STAFF COMPLEMENT

Two hundred and sixty six (266) employees comprised the staffing strength of the Guyana Rice Development Board in 2015.

2. STAFF APPOINTED

Head Office:

Audit Department

Rayan Fung
Audit Clerk

Human Resource Department

Anthony Deen
Human Resource/Occupational Health & Safety Officer

Administrative Department

Dwayne Daly
Driver

No. 56 Rice Seed Facility:

Administrative Department

Cupchand Ghansham
Janitor

Extension Department

Kelvin Chinapa
Extension Officer

Nijele Jainarain
Extension Officer

Anna Regina:

Extension Department

Chris Cooblall
Extension Officer

Public Service Ministry Scholars Assigned to GRDB in 2015:

- Christine Evans
- Shevon Gravesande
- Althea Melville
- Phibian Joseph
- Linden Cambridge

HUMAN RESOURCES DEPARTMENT CON'T

3. RESIGNATION AND TERMINATION

There were five (5) resignations and five (5) terminations for the period January 1, 2015 to December 31, 2015.

Table 11: names of resignations and terminations

| Resignation | Termination |
|---------------------|---------------------|
| Kellyann Carmichael | Tashenie Sewpersaud |
| Cyril Lochan | Boyd Peters |
| Wendy Arjune | Naline Sirmat |
| Ian Mckenzie | Anthony Deen |
| Dwayne Gangoo | Jagnarine Singh |
| | |

4. CONFIRMATION

Seven (7) employees were confirmed in appointed positions for the period January 1, 2015 to December 31, 2015. These were:

Mr. Cordel Roberts
Ms. Taneisha Bain
Ms. Ashwini Mohabir
Mr. Gaydya Ramnauth
Mr. Alan Basil
Mr. Toetaram Ganesh
Ms. Phulmattie Dyal

HUMAN RESOURCES DEPARTMENT CON'T

5. TRAINING OF EMPLOYEES

Table 12

| Name | Agency | Course |
|------------------------|---|--|
| Allison Peters | Consultative Association of Guyanese Industry (CAGI) | Conducting Effective Staff Appraisal for Improved Enterprise Programme |
| | | Financial Management for Non- Financial Managers |
| | Ministry of Agriculture | Conflict Resolution and Professionalism |
| Nashree Singh | CAGI | Conducting Effective Staff Appraisal for Improved Enterprise Programme |
| Soma Pooran | CAGI | Administrative and Secretarial Support |
| Analisha Jodhan | CAGI | Administrative and Secretarial Support |
| Barabra Hochan | CAGI | Supervisory Management Development |
| Jaddonauth Persaud | CAGI | Supervisory Management Development |
| Anthony Deen | CAGI | Occupational Safety and Health |
| Tyrone English | CAGI | Occupational Safety and Health |
| Keshwanand Seetaram | CAGI | Effective Inventory Management |
| Jason Nunes | CAGI | Effective Inventory Management |
| Dhirendranath Singh | CAGI | Leadership Skills |
| Dahasrat Narain | CAGI | How to be a Successful Manager |
| Deoram Prahalad | CAGI | How to be a Successful Manager |
| | | |
| Thakurdai Gopaul | | |
| | CAGI | Financial Management for Non-Financial Managers |
| | National Procurement and Tender Administration | Procurement Symposium |
| Satanand Narain | CAGI | Financial Management for Non-Financial Managers |
| Kuldip Ragnauth | Ministry of Agriculture | Conflict Resolution and Professionalism |
| | | |
| Vejailatchmi Benimadho | | |
| | Ministry of Agriculture | Conflict Resolution and Professionalism |
| | National Procurement and Tender Administration | Procurement Symposium |
| Nekita Tang | Ministry of Agriculture | Conflict Resolution and Professionalism |
| Rayan Fung | Institute of Internal Auditors | Conducting Effective Investigations |
| Pooran Seeraj | Inter-American Institute for Cooperation on Agriculture | Agriculture Risk Management |
| Bissessar Persaud | Inter-American Institute for Cooperation on Agriculture | Agriculture Risk Management |

5. TRAINING OF EMPLOYEES

Table 12 Cont'd

| | | |
|-------------------|---|--|
| Taneisha Bain | International Standard System Incorporated | Internal Audit and Inspection |
| Roderick Somrah | | |
| | International Standard System Incorporated | Internal Audit and Inspection |
| | | Hazard Analysis Critical Control Point |
| Paul Harry | Pesticide and Toxic Chemicals Control Board | Capacity Building |
| Charles Hope | Pesticide and Toxic Chemicals Control Board | Workshop on Chemical |
| Colwyn Torrington | Pesticide and Toxic Chemicals Control Board | Fumigation |
| Trevonne Wright | International Standard System Incorporated | Hazard Analysis Critical Control Point |
| | | Food Defence |
| Shemeka Reece | Qual-Eco Limited | Update Seminar on ISO900 1:2015 Standard |
| | | |

6. EMPLOYEES SPONSORED BY GRDB AND WHO ARE CURRENTLY ON STUDY LEAVE

Table 13

| Names | Programme | University | Remarks |
|--------------------|----------------------|--|----------------|
| Ghansham Payman | PhD in Agronomy | Acharya N G Ranga Agricultural University, India | Third Year |
| Rajendra Persaud | PhD Plant Protection | University of the West Indies | Second Year |
| Leelawatie Manohar | Deg. In Agriculture | University of Guyana | Fourth Year |
| Gangadai Dindyal | Deg. In Agriculture | University of Guyana | Second Year |
| Roderick Somrah | Deg. In Agriculture | University of Guyana | Second Year |
| | | | |

HUMAN RESOURCES DEPARTMENT CON'T

7. EMPLOYEES SPONSORED BY GRDB WHO HAVE COMPLETED THEIR COURSE OF STUDY IN 2015

Table 14

| Names | Programme | University |
|-----------------|--------------------------------------|--|
| Narita Singh | M.Sc Quality Assurance & Food Safety | University of the West Indies |
| Shanna Crawford | M.Sc in Agronomy in India | Anand Agriculture University, India |

8. UNION RECOGNITION

There are two (2) unions recognised by the Board. These are:

- General Workers' Union (GWU), which represents staff at the Head Office and the four regional offices.
- Union of Agriculture Allied Workers (UAAW), which represents some staff at the Burma Rice Research Station.

During the year, Management met with the two (2) unions to discuss matters of concern to employees. Discussions were held on staff welfare, sports, among other issues.

9. UNIFORM

Uniforms were provided for all staff.

ADMINISTRATIVE DEPARTMENT

1. BOARD OF DIRECTORS

For the period January 1, 2015 to December 31, 2015, the following persons were appointed to the Board of Directors:

Table 15: Board of Directors January to June 2015

| Name | Designation |
|-------------------------------|--------------------|
| Mr. Badrie Persaud | Chairman |
| Mr. Dharamkumar Seeraj, MP | Vice-Chairman |
| Mr. Jagnarine Singh | Ex- Officio Member |
| Mr. John Tracey | Member |
| Dr. Peter DeGroot | Member |
| Dr. Dindyal Permaul | Member |
| Mrs. Prema Ramanah-Roopnarine | Member |
| Ms. Shirley Edwards | Member |
| Mr. Ramsahai Ramnarain | Member |
| Mr. Leekha Rambrich | Member |
| Mr. Sase Gunraj | Member |
| Mr. Madanlall Ramraj | Secretary |

Table 16: Board of Directors August to December 2015

| Name | Designation |
|-----------------------|--------------------|
| Mr. Claude E. Housty | Chairman |
| Mr. Leekha Rambrich | Vice-Chairman |
| Mr. Nizam Hassan | Ex-Officio Member |
| Mr. George Seales | Member |
| Mr. Jinnah Rahman | Member |
| Mr. John Tracey | Member |
| Dr. Oudho Homenauth | Member |
| Dr. Peter DeGroot | Member |
| Mr. Ricky Roopchand | Member |
| Mr. Rajindra Persaud | Member |
| Mr. Naith Ram | Member |
| Ms. Rajdai Jagarnauth | Member |
| Mr. Cecil Seepersaud | Member |
| Ms. Allison Peters | Secretary |

There were thirteen (13) statutory meetings of the Board of Directors.

ADMINISTRATIVE DEPARTMENT CON'T

2. RESEARCH AND EXTENSION SUB-COMMITTEE

Research and Extension Sub-Committee members for the period January 1, 2015 to December 31, 2015 were:

Table 17: Research and Extension Sub-Committee Members for January to June 2015

| Name | Designation |
|----------------------------|-------------|
| Dr. Dindyal Permaul | Chairman |
| Mr. Leekha Rambrich | Member |
| Dr. Mahendra Persaud | Member |
| Mr. Dharamkumar Seeraj, MP | Member |
| Mr. Ramsahai Ramnarain | Member |
| Mr. Jagnarine Singh | Member |
| Mr. Madanlall Ramraj | Member |
| Mr. Kuldip Ragnauth | Secretary |

Table 18: Research and Extension Sub-Committee Members for August to December 2015

| Name | Designation |
|-----------------------|-------------|
| Dr. Oudho Homenauth | Chairman |
| Mr. Leekha Rambrich | Member |
| Mr. Ricky Roopchand | Member |
| Mr. Naith Ram | Member |
| Dr. Mahendra Persaud | Member |
| Dr. Viviane Baharally | Member |
| Mr. Rajendra Persaud | Member |
| Ms. Narita Singh | Member |
| Mr. Kuldip Ragnauth | Member |
| Ms. Shanna Crawford | Secretary |

There were four (4) meetings of the Research and Extension Sub-Committee.

3. FINANCE AND ADMINISTRATION SUB-COMMITTEE

Finance and Administration Sub-Committee members for the period January 1, 2015 to December 31, 2015 were:

Table 19: Finance and Administration Sub-Committee Members for January to June 2015

| Name | Designation |
|-------------------------------|-------------|
| Mr. Badrie Persaud | Chairman |
| Mr. John Tracey | Member |
| Ms. Shirley Edwards | Member |
| Mrs. Prema Ramanah-Roopnarine | Member |
| Mr. Jagnarine Singh | Member |
| Mr. Madanlall Ramraj | Member |
| Mr. Noel Sookhai | Member |
| Mr. Peter Ramcharan | Secretary |

Table 20: Finance and Administration Sub-Committee Member for August to December 2015

| Name | Designation |
|-----------------------|-------------|
| Mr. Cecil Seepersaud | Chairman |
| Mr. Claude E. Housty | Member |
| Mr. John Tracey | Member |
| Mr. George Seales | Member |
| Ms. Rajdai Jagarnauth | Member |
| Mr. Errol Chester | Member |
| Ms. Nashree Singh | Secretary |

There were eight (8) meetings of the Finance and Administrative Sub-Committee.

ADMINISTRATIVE DEPARTMENT CON'T

4. MARKETING AND QUALITY CONTROL SUB-COMMITTEE

Marketing and Quality Control Sub-Committee members for the period January 1, 2015 to December 31, 2015:

Table 21: Marketing and Quality Control Members from January to June 2015

| Name | Designation |
|------------------------|-------------|
| Mr. Jagnarine Singh | Chairman |
| Mr. Madanlall Ramraj | Member |
| Mr. Ramsahai Ramnarain | Member |
| Mrs. Gloria Chester | Member |
| Ms. Allison Peters | Secretary |

Table 22: Marketing and Quality Control Members from August to December 2015

| Name | Designation |
|----------------------|-------------|
| Mr. Claude E. Housty | Chairman |
| Dr. Peter deGroot | Member |
| Mr. Rajindra Persaud | Member |
| Mr. Jinnah Rahman | Member |
| Mr. Madanlall Ramraj | Member |
| Ms. Allison Peters | Member |
| Mr. Nizam Hassan | Secretary |

There were three (3) meetings of the Marketing and Quality Control Sub-Committee.

5. PROCUREMENT AND TENDER BOARD SUB-COMMITTEE

Procurement and Tender Board Sub-Committee members for the period January 1, 2015 to December 31, 2015:

Table 23: Procurement Sub-Committee Members from January to June 2015

| Name | Designation |
|----------------------------|-------------|
| Mr. Dharamkumar Seeraj, MP | Chairman |
| Dr. Dindyal Permaul | Member |
| Mr. Sase Gunraj | Member |
| Mr. Jagnarine Singh | Member |
| Mr. Madanlall Ramraj | Secretary |
| | |

Table 24: Procurement Sub-Committee Members from August to December 2015

| Name | Designation |
|-----------------------|-------------|
| Mr. John Tracey | Chairman |
| Mr. Naith Ram | Member |
| Mr. Ricky Roopchand | Member |
| Mr. Nizam Hassan | Member |
| Mrs. Thakurdai Gopaul | Secretary |

There were six (6) meetings of the Procurement Sub-Committee.

6. LEGAL ISSUES

Matters involving farmers, millers/exporters and buyers were dealt with internally, and through the Board's legal advisors, Cameron and Shepherd.

INFORMATION TECHNOLOGY DEPARTMENT

The Information Technology Department continued its work of maintaining and expanding the technological capacity within the GRDB in 2015. Some initiatives which assisted in doing this were:

1. THE DEVELOPMENT OF A FARMERS' AND MILLERS' REGISTER DATABASE

This is being used to record biographical data, as well as statistics. This will allow the GRDB to keep a record of all stakeholders in the industry, which will in turn lead to a better understanding of the adequate resources necessary for a smooth functioning of the industry.

2. THE IMPLEMENTATION OF A GPS MONITORING SYSTEM

This allows the GRDB to monitor all company vehicles and their various locations, which then allows for improved efficiency and less downtime when completing relevant tasks on company time.

3. THE UPGRADING OF EXISTING SERVERS AND PURCHASE OF NEW SERVERS TO HOST VARIOUS EXPANDING DATABASES

This allows for the expansion of the I.T Department's capacity to store, archive and retrieve important data. It also lays the platform for faster and more improved data transmission, which in turn increases efficiency when processing data.

4. THE EXPANSION OF TECHNOLOGICAL CAPACITY FOR ALL OUTLYING REGIONAL SUB-OFFICES

This is an ongoing process which is geared to improve services offered at the regional sub offices, so as to allow more business to be conducted at these sub offices. This will make work easier on the stakeholders, as it will remove the need to travel long distances to conduct business with the GRDB.

The I.T Department hopes to continue to build on these achievements over the coming year, as well as to develop new initiatives to assist in the growth and development of the GRDB and the services it offers.

SOCIAL ACTIVITIES



Management and Staff of GRDB with Bursary Awardees 2015



Commissioning of the gasification plant at Ramlakhan and Sons Rice Mill, Region 2 by the former President, Mr. Donald Ramotar.



Commissioning of the No. 56 Seed Facility at No. 56 Village, Corentyne, Berbice by former members of the Agriculture Sector:
Mr. B. Persaud, Dr. L. Ramsammy, Mr. D. Ramotar, Mr. J. Singh and Mr. D. Seeraj (left to right)

SOCIAL ACTIVITIES



Ms. Sharonmae Shirley from the Jamaica National Agency for Accreditation presenting the former Chairman of the Board of Directors, Mr. B. Persaud, with the Certificate of International Accreditation of GRDB's Central Laboratory.



GRDB's Quality Control Staff with the Certificate of Accreditation



The CARICOM Regional Organisation for Standard and Quality (CROSQ) was awarded for its role in the GRDB Central Laboratory accreditation.



GRDB launched Guyana's first aromatic rice under the name Maria's Delight Aromatic Rice.

SOCIAL ACTIVITIES



GRDB Board of Directors, August 2015 to December 2015

From left to right standing: Dr. Peter deGroot, Mr. Jinnah Rahman, Mr. John Tracey, Mr. Leekha Rambrich (Vice-Chairman), Mr. Cecil Seepersaud and Mr. Ragindra Persaud.

From left to right sitting: Mr. Ricky Roopchand, Mr. George Seales, Mr. Nizam Hassan (General Manager), Mr. Claude E. Housty (Chairman), Ms. Allison Peters (Secretary to the Board) and Mr. Naith Ram.



His Excellency David A. Granger addressing stakeholders of the rice sector at the National Rice Industry Conference.



Mr. Claude E. Housty, Chairman, BOD, addressing stakeholders of the rice sector at the National Rice Industry Conference

SOCIAL ACTIVITIES



Stakeholders at the National Rice Industry Conference



Stakeholders at the GRDB display at the National Rice Conference



Students at the GRDB Open Day at the Burma Rice Research Station

SOCIAL ACTIVITIES



Model of the Gasification Plant at the GRDB Open Day at the Burma Rice Research Station



GRDB booth at the Ministry of Agriculture Cook-Out.



Mr. K. Ragnauth, Extension Manager, represented GRDB at the AIAEE Conference, Netherlands, on 'Improving Productivity through Extension in Guyana'



Audit Office of Guyana

*P.O. Box 1002, 63 High Street, Kingston, Georgetown, Guyana
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AG: 49/2016

27 September 2016

**REPORT OF THE AUDITOR GENERAL
TO THE MEMBERS OF THE BOARD OF DIRECTORS
OF GUYANA RICE DEVELOPMENT BOARD
ON THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2015**

Chartered Accountants Nizam Ali and Company have audited on my behalf the financial statements of Guyana Rice Development Board, which comprise the statement of financial position as at 31 December 2015 and the statements of profit or loss and other comprehensive income, statement of changes in equity and statement of cash flows for the year then ended, and a summary of significant accounting policies and other explanatory notes, as set out on pages 3 to 22. The audit was conducted in accordance with the Audit Act 2004.

Management's responsibility for the financial statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with International Financial Reporting Standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's responsibility

My responsibility is to express an opinion on these financial statements based on my audit. I conducted my audit in accordance with International Standards on Auditing issued by the International Federation of Accountants (IFAC) and those of the International Organisation of Supreme Audit Institutions (INTOSAI). Those standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

As required by the Audit Act 2004, I have reviewed the audit plan and procedures, working papers, report and opinion of the Chartered Accountants. I have also had detailed discussions with the Chartered Accountants on all matters of significance to the audit and had carried out additional examinations, as necessary, in arriving at my opinion.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

Opinion

In my opinion, the financial statements present fairly, in all material respects, the financial position of Guyana Rice Development Board as at 31 December 2015, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards and comply with the Guyana Rice Development Board Act.

Emphasis of Matter

Without qualifying my opinion, I draw attention to:

- (i) Note 9 (b) to the financial statements. This note explains that the Board do not have title to certain assets reflected in these financial statements.
- (ii) Note 12 (i) which explains that the recoverability of demurrage cost of \$471,226,044 is dependent on the outcome of ongoing discussion with the Government of Guyana.
- (iii) Note 12 (iii) which explains that the recoverability of fertilizers costing \$505,217,000 from Guyana Sugar Corporation is uncertain.



AUDIT OFFICE
63 HIGH STREET
KINGSTON
GEORGETOWN
GUYANA

STATEMENT OF FINANCIAL POSITION

DECEMBER 31, 2015

With comparative figures for 2014
(Expressed in Guyana Dollars)

| | <u>Notes</u> | <u>2015</u> <u>\$</u> | <u>2014</u> <u>\$</u> |
|---|--------------|--------------------------|--------------------------|
| Property, plant and equipment | 9 (a) | <u>130,061,652</u> | <u>91,395,808</u> |
| Current assets | | | |
| Inventories | 7 | 9,975,132 | 3,475,230 |
| Accounts receivable and prepayments | 8 | 231,852,399 | 305,954,994 |
| Government of Guyana and related entities | 12 | 979,814,712 | 979,912,632 |
| Cash and deposits | 6 | <u>2,217,439,405</u> | <u>1,384,534,738</u> |
| Total current assets | | <u>3,439,081,648</u> | <u>2,673,877,594</u> |
| Total assets | | <u>3,569,143,300</u> | <u>2,765,273,402</u> |
| Equity and Liabilities | | | |
| Capital Contribution and Reserve | | | |
| Capital contribution | 10 | 202,798,444 | 202,798,444 |
| Government of Guyana - Grant | 11 | 41,674,236 | 41,674,236 |
| Accumulated earnings | | <u>427,174,774</u> | <u>358,835,993</u> |
| | | <u>671,647,454</u> | <u>603,308,673</u> |
| Current Liabilities | | | |
| Government of Guyana and related entities | 12 | 2,889,909,614 | 2,155,010,966 |
| Accounts payable and accruals | 13 | 7,298,152 | 2,357,733 |
| Bank balance | | <u>288,080</u> | <u>4,596,030</u> |
| Total current liabilities | | <u>2,897,495,846</u> | <u>2,161,964,729</u> |
| Total equity and liabilities | | <u>3,569,143,300</u> | <u>2,765,273,402</u> |


Director


Director

The accompanying notes form an integral part of these financial statements.

STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME

FOR THE YEAR ENDED DECEMBER 31, 2015

With comparative figures for 2014

(Expressed in Guyana Dollars)

| | <u>Notes</u> | 2015 \$ | 2014 \$ |
|--|--------------|--------------------|--------------------|
| Revenue | | | |
| Sales commission | | 716,886,270 | 714,336,181 |
| Other income | 15 | 135,882,114 | 127,277,419 |
| | | <u>852,768,384</u> | <u>841,613,600</u> |
| Operating expense | | | |
| Administrative, finance and audit | 14 | 152,281,219 | 135,442,601 |
| Grading, marketing, research and extension | 14 | 476,652,897 | 449,390,804 |
| Other operating expenses | 14 | 155,495,487 | 67,498,327 |
| | | <u>784,429,603</u> | <u>652,331,732</u> |
| Profit for the year | | <u>68,338,781</u> | <u>189,281,868</u> |

The accompanying notes form an integral part of these financial statements.

STATEMENT OF CHANGES IN EQUITY

FOR THE YEAR ENDED DECEMBER 31, 2015

With comparative for 2014

(Expressed in Guyana Dollars)

| | Capital Contribution \$ | Government Grant \$ | Accumulated Earnings \$ | Total \$ |
|-------------------------------------|-------------------------------|---------------------------|-------------------------------|--------------------|
| Year Ended December 31, 2015 | | | | |
| Balance as at Beginning of year | 202,798,444 | 41,674,236 | 358,835,993 | 603,308,673 |
| Profit for the year | - | - | 68,338,781 | 68,338,781 |
| Balance as at end of year | <u>202,798,444</u> | <u>41,674,236</u> | <u>427,174,774</u> | <u>671,647,454</u> |
| Year Ended December 31, 2014 | | | | |
| Balance as at Beginning of year | 202,798,444 | 41,674,236 | 169,554,125 | 414,026,805 |
| Profit for the year | - | - | 189,281,868 | 189,281,868 |
| Balance as at end of year | <u>202,798,444</u> | <u>41,674,236</u> | <u>358,835,993</u> | <u>603,308,673</u> |

The accompanying notes form an integral part of these financial statements.

STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED DECEMBER 31, 2015

With comparative figures for 2014

(Expressed in Guyana Dollars)

| | 2015 | 2014 |
|--|----------------------|----------------------|
| | \$ | \$ |
| OPERATING ACTIVITIES | | |
| Profit for the year | 68,338,781 | 189,281,868 |
| Adjustment for : | | |
| Disposal of assets | - | 7,435 |
| Depreciation | 10,619,946 | 8,871,959 |
| | <u>78,958,727</u> | <u>198,161,262</u> |
| Operating income before working capital changes | 78,958,727 | 198,161,262 |
| (Increase) decrease in inventories | (6,499,902) | 8,339,620 |
| Decrease (increase) in accounts receivable and prepayments | 74,102,595 | (150,454,111) |
| Increase in Government of Guyana and related entities balances | 734,996,568 | 415,498,056 |
| Increase (decrease) in accounts payable and accruals | 4,940,419 | (292,626) |
| | <u>886,498,407</u> | <u>471,252,201</u> |
| Net cash inflow from operating activities | 886,498,407 | 471,252,201 |
| INVESTING ACTIVITIES | | |
| Acquisition of plant and equipment | (49,285,790) | (24,887,507) |
| | <u>(49,285,790)</u> | <u>(24,887,507)</u> |
| Net cash outflow from investing activities | (49,285,790) | (24,887,507) |
| Net movement in cash and cash equivalents | 837,212,617 | 446,364,694 |
| Cash and cash equivalents at beginning of the year | 1,379,938,708 | 933,574,014 |
| | <u>2,217,151,325</u> | <u>1,379,938,708</u> |
| Cash and cash equivalents at end of the year | 2,217,151,325 | 1,379,938,708 |
| Cash and cash equivalents comprise of: | | |
| Cash and deposits | 2,217,439,405 | 1,384,534,738 |
| Bank balance | (288,080) | (4,596,030) |
| | <u>2,217,151,325</u> | <u>1,379,938,708</u> |

The accompanying notes form an integral part of these financial statements.

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

1. Incorporation and activities

(a) Incorporation

The Board is a state owned enterprise incorporated under Act No. 15: Guyana Rice Development Board Act .

(b) Principal Activity

The principal activity of the Board is to facilitate the export of rice from Guyana.

2. New Standards , amendments and interpretation adopted

Annual improvements to the IFRS's 2010 - 2012 cycle and annual improvements to the IFRS's 2011-2013 Cycle in accordance with the International Financial Reporting Standards which were adopted in the current financial year are; IFRS 8 *Operating segments* , IFRS 13 *Fair Value Measurement*, IAS 16 & IAS 38 *Property, Plant and Equipment & Intangible assets* and IAS 24 *Related party disclosure*.

In addition, amendments to: IAS 19 *Defined benefit plan: Employee contributions*, IAS 32 *Offsetting Financial Assets and Financial Liabilities* and IAS 36 *Impairment of assets* were adopted in the current financial year.

The adoption of these amendments did not have any material effect on the Board's financial statements.

New Standards , amendments and interpretation not yet adopted

A number of new standards, amendments to standards and interpretations are effective for annual periods beginning on or after January 1, 2015, and have not been applied in preparing these financial statements. None of these are expected to have a significant effect on the financial statements.

3. Statement of compliance and basis of preparation

The financial statements are prepared in Guyana Dollars in accordance with International Financial Reporting Standards (IFRS). They have been prepared under the historical cost convention as modified by the valuation of financial assets available for sale and financial assets at fair value through profit or loss.

The preparation of these financial statements in conformity with IFRS requires management to make estimates and assumptions that affect the reported amount of assets, liabilities, contingent assets and contingent liabilities at the date of the financial statements and income and expenses during the period. Actual results could differ from these estimates. Areas involving critical accounting estimate or a higher degree of judgement are identified in note 5.

The financial statements were authorised for issue by the Board of Directors on August 11, 2016.

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

4. Significant accounting policies

(a) Property, plant and equipment

Property, plant and equipment are stated generally at historical cost, except for those measured at fair value, when they are tested for impairment. Historical cost includes expenditure directly attributable to the acquisition of the items.

Property, plant and equipment is tested for impairment whenever there is objective evidence that the carrying amount of the asset may exceed its recoverable amount. Any resulting impairment loss is recognised immediately in the statement of profit or loss and other comprehensive income.

Subsequent costs are included in the asset's carrying value or recognised as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Board and the cost of the item can be measured reliably. The carrying amount of replaced parts are derecognised. All repairs and maintenance are charged to the statement of profit or loss and other comprehensive income during the financial period in which they are incurred.

Depreciation of property, plant and equipment is provided for over the estimated useful lives of the respective assets using the straight-line method.

The following annual depreciation rates are applicable for the respective asset categories:

| | |
|--------------------------------|-----------|
| Land | Nil |
| Buildings | 2% |
| Plant, machinery and equipment | 10% - 20% |
| Motor vehicles | 25% |
| Work in progress | Nil |

The gain or loss arising on disposal or retirement of an item of property, plant and equipment is determined as the difference between the sales proceeds and the carrying amount of the asset and is recognised in the statement of profit or loss and other comprehensive income.

(b) Financial instruments

Financial instruments include cash resources, Government of Guyana and related entities, trade receivables and prepayment, bank balance, accounts payable and accruals. The particular recognition and measurement methods adopted are disclosed in the individual policy statements associated with each item.

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

4. Significant accounting policies (continued)

(c) Inventories

Inventories are valued at the lower of cost and net realisable value with cost being determined on the First in First Out (FIFO) basis.

(d) Cash and cash equivalents

For the purpose of the cash flow statement, cash and cash equivalents comprise cash in hand, deposit held on call with banks and other bank balances.

(e) Foreign Currencies

Transactions involving foreign currencies are translated at the exchange rate ruling at the dates of these transactions. At the statement of financial position date, assets and liabilities denominated in foreign currencies are translated into Guyana dollars at the exchange rate ruling at that date. Gains and losses resulting from the settlement of transactions and from the translated monetary assets and liabilities denominated in foreign currencies, are recognised in the statement of profit or loss and other comprehensive income.

(f) Revenue Recognition

Revenue from sales and services are recognised upon performance of services or delivery of products and customer acceptance.

(g) Trade Receivables

Trade receivables are carried at original invoice value less a provision made for doubtful debts based on a review of all outstanding amounts at year end. Bad debts are written off when identified.

(h) Taxation

Under the Guyana Rice Development Board Act No. 15 of 1994 section (iv) paragraph 32 (1) the Board is exempted from the payment of Corporation and Property Taxes.

(i) Provisions

Provisions are recognised when the Board has a present legal or constructive obligation as a result of past events, it is probable that an outflow embodying economic benefits will be required to settle the obligation, and a reliable estimate of the amount of the obligation can be made.

(j) Leases

Lease in which a significant portion of the risks and rewards of ownership are retained by the lessor are classified as operating leases. Payments made under operating leases are charged to the statement of profit or loss and other comprehensive income on a straight-line basis over the period of the lease. All leasing arrangement to which the Board is a party are considered operating lease.

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

5. Critical accounting judgements and key sources of estimation uncertainty

In the application of the Board's accounting policies, which are described in note 4, the directors are required to make judgements, estimates and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised if the revision affects only that period or in the period of the revision and future periods if the revision affects both current and future periods.

Key sources of estimation uncertainty

The following are the key assumptions concerning the future, and other key sources of estimation uncertainty at the statement of financial position date, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities in the financial statements.

(i) Trade and other receivables

On a regular basis, management reviews trade and other receivables to assess impairment. Based on information available as to the likely impairment in cash flows, decisions are taken in determining appropriate provisions to be made for bad and doubtful debts.

(ii) Useful lives of plant and equipment

The residual values and useful lives of plant and equipment are reviewed at each reporting date and estimates made of the values expected to be obtained from disposal of the asset at the end of their useful lives and the expected period over which the assets are expected to be available for use. Judgements are also made of costs to be capitalised.

(iii) Impairment of assets

Where there are indicators that an asset may be impaired, the Board is required to estimate the asset's recoverable amount. Recoverable amount is the greater of value in use and fair value less costs to sell. Determining the value in use requires the Board to estimate expected future cash flows associated with the assets and a suitable discount rate in order to calculate present value. No impairment of non-financial assets have been recorded for the year ended December 31, 2015.

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

| 6. Cash and deposits | 2015 \$ | 2014 \$ |
|---|----------------------|----------------------|
| Cash in hand | 1,308,200 | 32,281,795 |
| Cash at bank | 2,203,549,652 | 1,339,746,837 |
| Term deposit (average interest 0.6 % per annum) | <u>12,581,553</u> | <u>12,506,106</u> |
| | <u>2,217,439,405</u> | <u>1,384,534,738</u> |

Included in Cash and deposits are amounts totalling G\$6,900,191 relating to funds held by the Board on behalf of the Government of Guyana for the execution of the Moco Moco project and the Agriculture Development and Support Service project. There is a corresponding liability of this amount included in Government of Guyana and related entities.

| 7. Inventories | 2015 \$ | 2014 \$ |
|----------------|------------------|------------------|
| Stores | 4,244,444 | 2,756,930 |
| Fertilisers | <u>5,730,688</u> | <u>718,300</u> |
| | <u>9,975,132</u> | <u>3,475,230</u> |

| 8. Accounts receivable and prepayments | 2015 \$ | 2014 \$ |
|--|----------------------|----------------------|
| Trade receivables | 354,040,477 | 346,898,185 |
| Sundry receivables | 185,189,618 | 163,452,157 |
| Prepayments | <u>1,869,317</u> | <u>1,655,035</u> |
| | 541,099,412 | 512,005,377 |
| Less Provision for impairment | <u>(309,247,013)</u> | <u>(206,050,383)</u> |
| | <u>231,852,399</u> | <u>305,954,994</u> |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015
(Expressed in Guyana Dollars)

9. Property, Plant and Equipment

| (a) Cost | Land and Building ₨ | Plant, Machinery & Equipment ₨ | Motor Vehicle ₨ | Work in progress ₨ | Total ₨ |
|---------------------------------|------------------------|-----------------------------------|--------------------|-----------------------|-------------|
| At January 1, 2015 | 54,852,169 | 98,768,085 | 53,449,617 | 12,456,800 | 219,526,671 |
| Additions | - | 22,271,133 | 12,095,242 | 14,919,415 | 49,285,790 |
| At December 31, 2015 | 54,852,169 | 121,039,218 | 65,544,859 | 27,376,215 | 268,812,461 |
| Accumulated Depreciation | | | | | |
| At January 1, 2015 | 15,904,873 | 64,287,941 | 47,938,049 | - | 128,130,863 |
| Charges for the year | 1,084,044 | 7,447,978 | 2,087,924 | - | 10,619,946 |
| At December 31, 2015 | 16,988,917 | 71,735,919 | 50,025,973 | - | 138,750,809 |
| Net Book Value | | | | | |
| At December 31, 2015 | 37,863,252 | 49,303,299 | 15,518,886 | 27,376,215 | 130,061,652 |

| Cost | Land and Building ₨ | Plant, Machinery & Equipment ₨ | Motor Vehicle ₨ | Work in-progress ₨ | Total ₨ |
|---------------------------------|------------------------|-----------------------------------|--------------------|-----------------------|-------------|
| At January 1, 2014 | 54,852,169 | 91,017,546 | 47,620,256 | 7,719,467 | 201,209,438 |
| Additions | - | 12,806,750 | 7,343,424 | 4,737,333 | 24,887,507 |
| Disposals | - | (5,056,211) | (1,514,063) | - | (6,570,274) |
| At December 31, 2014 | 54,852,169 | 98,768,085 | 53,449,617 | 12,456,800 | 219,526,671 |
| Accumulated Depreciation | | | | | |
| At January 1, 2014 | 14,820,829 | 63,508,158 | 47,492,756 | - | 125,821,743 |
| Charges for the year | 1,084,044 | 5,828,559 | 1,959,356 | - | 8,871,959 |
| Disposals | - | (5,048,776) | (1,514,063) | - | (6,562,839) |
| At December 31, 2014 | 15,904,873 | 64,287,941 | 47,938,049 | - | 128,130,863 |
| Net Book Value | | | | | |
| At December 31, 2014 | 38,947,296 | 34,480,144 | 5,511,568 | 12,456,800 | 91,395,808 |

- (b) The Guyana Rice Development Board has not obtained title to all land and buildings vested in it from Guyana Rice Export Board and National Padi and Rice Grading Centre and transfers from National Agricultural Research Institute and Mahaica, Mahaicony, Abary. Agricultural Development Authority - Onverwagt. The value of properties included in these financial statements for which title was not obtained amounts to \$43,979,679.

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

| | 2015 \$ | 2014 \$ |
|---|------------------------|------------------------|
| 10. Capital Contribution | | |
| This Represents : | | |
| (a) The value of net assets taken over by the Guyana Rice Development Board at January 2, 1995 on the dissolution of the National Padi & Rice Grading Centre (NPRGC) and the Guyana Rice Export Board (GREB). | 137,472,973 | 137,472,973 |
| (b) Adjustment of the net liabilities relating to the GREB Revolving Fund | 38,674,345 | 38,674,345 |
| (c) The valuation of tangible fixed assets taken over by the Guyana Rice Development Board during 1995 from National Agricultural Research Institute - Burma and Mahaica, Mahaicony, Abary, Agricultural Development Authority- Onverwagt | 26,651,126 | 26,651,126 |
| | <u>202,798,444</u> | <u>202,798,444</u> |
| | 2015 \$ | 2014 \$ |
| 11. Government of Guyana Grant | <u>41,674,236</u> | <u>41,674,236</u> |
| | 2015 \$ | 2014 \$ |
| 12. Government of Guyana and related entities | | |
| Ministry of Finance Levy Account | 3,371,668 | 3,469,588 |
| Government of Guyana- Demurrage cost (note i) | 471,226,044 | 471,226,044 |
| Government of Guyana- Other (note ii) | (2,889,909,614) | (2,155,010,966) |
| Guyana Sugar Corporation (note iii) | 505,217,000 | 505,217,000 |
| Mards Rice Milling Complex | 30,028,266 | 30,028,266 |
| | <u>(1,880,066,636)</u> | <u>(1,145,070,068)</u> |
| Less Provision for impairment | (30,028,266) | (30,028,266) |
| | <u>(1,910,094,902)</u> | <u>(1,175,098,334)</u> |
| Included In: | | |
| Current Assets | 979,814,712 | 979,912,632 |
| Current Liabilities | (2,889,909,614) | (2,155,010,966) |
| | <u>(1,910,094,902)</u> | <u>(1,175,098,334)</u> |

(i) Government of Guyana- Demurrage cost

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

12. Government of Guyana and related entities

(i) Government of Guyana- Demurrage cost, continued

The Guyana Rice Development Board has contended that the demurrage cost is incurred at the port of destination, and therefore the Board should not be liable for such cost.

All demurrage cost previously incurred has been absorbed by the Government of Guyana, and the Board is currently in discussion with the Government of Guyana for a settlement of the amount of \$471,226,044.

(ii) Government of Guyana- Other

This amount represents unutilised advances received from the Government of Guyana for rice shipment to Venezuela and Panama and the sale of fertilisers on behalf of the Government of Guyana.

(iii) Guyana Sugar Corporation

This amount represents fertilisers sold by the Guyana Rice Development Board to Guyana Sugar Corporation. To date, this amount has not been settled. The Board is currently in discussion with the Management of Guyana Sugar Corporation for the settlement of this amount.

| | 2015 | 2014 |
|--|------------------|------------------|
| 13. Accounts payable and accruals | ₹ | ₹ |
| Sundry payable and accruals | <u>7,298,152</u> | <u>2,357,733</u> |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015

(Expressed in Guyana Dollars)

| | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 |
|------------------------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|
| | ₹ | ₹ | ₹ | ₹ | ₹ | ₹ |
| 14. Operating expense | | | | | | |
| Advertising | 4,502,859 | 4,966,195 | 14,122 | 425,000 | - | 48,720 |
| Audit, Consultancy and Legal Fees | 3,140,225 | 4,926,685 | 467,375 | - | - | - |
| Board and Committee | - | - | - | - | 2,338,850 | 2,685,015 |
| Contribution to Community | - | - | 63,480 | 38,600 | 16,643,474 | 37,130,102 |
| Depreciation | 4,584,976 | 3,637,358 | 5,345,523 | 4,787,300 | 689,452 | 447,301 |
| Electricity | 5,844,733 | 6,238,549 | 1,918,997 | 1,465,776 | 453,285 | - |
| Employment Cost | 102,172,846 | 87,713,907 | 337,265,637 | 305,582,131 | 13,021,194 | 9,313,354 |
| Entertainment and Travel | 1,786,730 | 3,122,035 | 4,509,247 | 1,538,412 | - | - |
| Bank Charges | - | - | - | - | 1,264,294 | 2,282,741 |
| Insurance | 819,540 | 800,588 | 760,774 | 843,248 | - | - |
| Licenses and Fitness | 37,500 | 38,500 | 365,340 | 57,460 | - | - |
| Materials and Supplies | 3,847,741 | 3,599,038 | 51,131,665 | 57,499,048 | 959,683 | 344,084 |
| Newspaper/ Magazine / subscription | 3,755,080 | 4,217,303 | 357,840 | 292,064 | - | - |
| Printing | 1,575,100 | 988,853 | 103,420 | 47,560 | - | - |
| Rates and Taxes | 1,754,157 | - | 273,566 | 262,348 | - | - |
| Repairs and Maintenance | 5,976,720 | 3,925,995 | 26,326,654 | 25,252,189 | 4,006,516 | 168,056 |
| Security | - | - | 268,000 | 285,000 | - | - |
| Seminar/Conference /Exhibition | 3,201,149 | 1,959,549 | 2,105,780 | 62,500 | 44,747 | 22,272 |
| Shipping Expense | - | - | 8,458,230 | 6,720,191 | - | - |
| Balance c/f | 142,999,356 | 126,134,555 | 439,735,650 | 405,158,827 | 39,421,495 | 52,441,645 |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015

(Expressed in Guyana Dollars)

| | 2015 \$ | 2014 \$ | 2015 \$ | 2014 \$ | 2015 \$ | 2014 \$ |
|---|---------------------------------|-------------|--|-------------|-------------------------|------------|
| | Administrative, Finance & Audit | | Grading, Marketing, Research & Extension | | Other Operating Expense | |
| 14. Operating expense | | | | | | |
| Balance b/f | 142,999,356 | 126,134,555 | 439,735,650 | 405,158,827 | 39,421,495 | 52,441,645 |
| Sundries | 2,427,264 | 2,094,079 | 1,848,585 | 2,319,930 | 202,950 | 10,855 |
| Telephone Expense | 5,057,751 | 4,311,236 | 1,387,276 | 2,211,509 | 1,220,338 | 911,049 |
| Transportation and Vehicle Expense | 1,716,848 | 2,875,731 | 10,596,622 | 11,832,925 | 114,780 | - |
| Weeding Dam Trench | 59,000 | 27,000 | 1,930,082 | 1,253,690 | 24,000 | - |
| Stocking Loading/ Weighting | - | - | 495,400 | 125,100 | 187,900 | - |
| Grading Fees | - | - | 696,682 | - | - | - |
| Infrastructure Work | - | - | - | 448,000 | - | - |
| Cleaning and supply of Seed Padi | - | - | 3,715,295 | 2,852,043 | 1,503,112 | - |
| Broadcasting - Air/Manual | - | - | 2,495,275 | 2,812,100 | - | - |
| Drainage and Irrigation | - | - | - | 8,173,118 | - | - |
| Ploughing and Roughing | - | - | 6,095,500 | 6,797,775 | - | - |
| Agriculture Development & Support Service Project | - | - | 7,454 | 7,440 | - | - |
| Bagging | - | - | 342,120 | - | 100,940 | - |
| Latin American Fund for Irrigated Rice | - | - | - | - | 8,951,000 | 10,627,071 |
| Paddy bug management | 21,000 | - | 1,568,456 | - | - | - |
| Provision for impairment | - | - | - | - | 103,196,630 | 627,490 |
| Printing | - | - | 1,369,600 | 1,056,030 | - | - |
| Other expenses | - | - | 2,313,720 | 816,708 | - | 2,350,217 |
| Bursary Award | - | - | - | - | 564,342 | 490,000 |
| Farmers Field School | - | - | 2,055,180 | 3,525,609 | 8,000 | - |
| | 152,281,219 | 135,442,601 | 476,652,897 | 449,390,804 | 155,495,487 | 67,498,327 |

NOTES TO THE FINANCIAL STATEMENTS

DECEMBER 31, 2015

(Expressed in Guyana Dollars)

| 15. Other Income | 2015 | 2014 |
|-------------------------|--------------------|--------------------|
| | <u>\$</u> | <u>\$</u> |
| Seed padi sales | 69,761,385 | 75,978,316 |
| Grading fees | 122,494 | 149,565 |
| Interest income | 3,442,461 | 3,543,842 |
| Commercial padi sales | 18,329,248 | 18,782,243 |
| Mill licence | 6,700,000 | 6,410,000 |
| Export license | 6,000,000 | 4,500,000 |
| Gain on exchange | 25,891,016 | 12,037,411 |
| Other | 4,348,610 | 4,672,578 |
| By-product sales | 1,286,900 | 1,203,464 |
| | <u>135,882,114</u> | <u>127,277,419</u> |

| 16. Profit for the year | 2015 | 2014 |
|--------------------------------|-------------------|--------------------|
| | <u>\$</u> | <u>\$</u> |
| | <u>68,338,781</u> | <u>189,281,868</u> |

Profit for the year is shown after charging the following :

| | | |
|-----------------------------|------------|-----------|
| Auditors' remuneration | 1,650,000 | 1,650,000 |
| Directors fees and expenses | 2,338,850 | 2,685,015 |
| Depreciation | 10,619,946 | 8,871,959 |

| 17. Director Fees | 2015 | 2014 |
|--|------------------|------------------|
| | <u>\$</u> | <u>\$</u> |
| Fees paid to Director are as follows : | | |
| Chairman | 137,500 | 150,000 |
| Other Directors | 1,200,000 | 1,200,000 |
| Secretary | 110,000 | 120,000 |
| | <u>1,447,500</u> | <u>1,470,000</u> |

18. Key Management Personnel

During the year 9 (2014 -7) key management personnel received the following benefits :

| | 2015 | 2014 |
|-------------------------|-------------------|-------------------|
| | <u>\$</u> | <u>\$</u> |
| Salary | 35,574,518 | 33,410,400 |
| Entertainment Allowance | 1,200,000 | 1,200,000 |
| Travelling Allowance | 600,000 | 600,000 |
| Telephone Allowance | 572,000 | 732,000 |
| Vacation Allowance | 2,964,543 | 2,784,200 |
| Others | 1,380,000 | 1,260,000 |
| | <u>42,291,061</u> | <u>39,986,600</u> |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015
(Expressed in Guyana Dollars)

19. Financial risk management

Introduction and overview

The Board has exposure to the following risks from its use of financial instruments:

- Credit risk
- Liquidity risk
- Foreign currency risk
- Interest rate
- Price risk

This note presents information about the Board's exposure to each of the above risks, the Board's objectives, policies and processes for measuring and managing such risks. The Directors of the Guyana Rice Development Board have overall responsibility for the establishment and oversight of the entity's risk management framework.

(a) Credit risk

Credit risk refers to the risk that a customer or counterparty will default on its contractual obligations resulting in financial loss to the Board.

The Board faces credit risk in respect of its trade and other receivables. However, this risk is controlled by close monitoring of these balances by the Board. The maximum credit risk faced by the Board is the balance reflected in the financial statements.

| | 2015 | 2014 |
|---|--------------------|--------------------|
| | ₹ | ₹ |
| Past due but not impaired | 231,852,399 | 305,954,994 |
| <u>Ageing of trade and other receivables which were past due but not impaired</u> | | |
| 31-60 days | 11,592,620 | 15,297,750 |
| 61-90 days | 23,185,240 | 130,595,499 |
| 91-120 days | 197,074,539 | 160,061,745 |
| | <u>231,852,399</u> | <u>305,954,994</u> |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015

(Expressed in Guyana Dollars)

19. Financial risk management, continued

(b) Liquidity risk

Liquidity risk is the risk that the Board will encounter difficulty in raising funds to meet its commitments associated with financial instruments.

The Board manages its liquidity risk by maintaining an appropriate level of resources in liquid or near liquid form.

The following table shows the distribution of assets and liabilities by maturity:

| | Maturity | | | | | Total |
|---|-------------------|---------------|-----------|--------------|----|---------------|
| | December 31, 2015 | | | | | |
| | Within one year | Over one year | 3-5 years | over 5 years | | |
| Assets | | | | | | |
| on demand | \$ | \$ | \$ | \$ | \$ | |
| Accounts receivables | 229,983,082 | - | - | - | - | 229,983,082 |
| Prepayments | 1,869,317 | - | - | - | - | 1,869,317 |
| Government of Guyana and related entities | 979,814,712 | - | - | - | - | 979,814,712 |
| Cash and deposits | 2,217,439,405 | - | - | - | - | 2,217,439,405 |
| | 3,429,106,516 | - | - | - | - | 3,429,106,516 |
| Liabilities | | | | | | |
| Government of Guyana and related entities | 2,889,909,614 | - | - | - | - | 2,889,909,614 |
| Accounts payable and accruals | 7,298,152 | - | - | - | - | 7,298,152 |
| Bank balance | 288,080 | - | - | - | - | 288,080 |
| | 2,897,495,846 | - | - | - | - | 2,897,495,846 |
| Liquidity Gap | 531,610,670 | - | - | - | - | 531,610,670 |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015

(Expressed in Guyana Dollars)

19. Financial risk management, continued

(b) Liquidity risk

| | Maturing December 31, 2014 | | | | | Total |
|---|-------------------------------|-----------|-----------|--------------|----------|----------------------|
| | Within one year | 1-2 years | 3-5 years | over 5 years | | |
| | \$ | \$ | \$ | \$ | \$ | |
| Assets | | | | | | |
| Accounts receivables | 304,299,959 | - | - | - | - | 304,299,959 |
| Prepayments | 1,655,035 | - | - | - | - | 1,655,035 |
| Government of Guyana and related entities | 979,912,632 | - | - | - | - | 979,912,632 |
| Cash and deposits | 1,384,534,738 | - | - | - | - | 1,384,534,738 |
| | <u>2,670,402,364</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>2,670,402,364</u> |
| Liabilities | | | | | | |
| Government of Guyana and related entities | 2,155,010,966 | - | - | - | - | 2,155,010,966 |
| Accounts payable and accruals | 2,357,733 | - | - | - | - | 2,357,733 |
| Bank balance | 4,596,030 | - | - | - | - | 4,596,030 |
| | <u>2,161,964,729</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>2,161,964,729</u> |
| Liquidity Gap | <u>508,437,635</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>508,437,635</u> |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015
(Expressed in Guyana Dollars)

19. Financial risk management, continued

(c) Foreign currency risk

The Board is exposed to foreign currency risk through its holding of financial instruments denominated in the following foreign currency as follows:

| | 2015 ₺ | 2014 ₺ |
|--|---------------|-------------|
| Assets | | |
| United States Dollars at the equivalent of G\$ | 1,557,969,871 | 735,777,305 |

The Board's exposure to foreign exchange risk is limited by the denomination of the underlying transaction in stable foreign currencies.

As at year end, if the Guyana Dollar had weakened/strengthened by 1% against the United States Dollars, with all other variables held constant, the profit for the year would have been G\$15,579,699 higher / lower (2014- G\$7,357,773 higher / lower).

(d) Interest rate risk

As of the year end, the Board's exposure to interest rate risk is as follows:

| | 2015 | | | |
|--|------------------------|---------------------------|-------------------------|----------------------|
| | Fixed interest rate | Floating interest rate | Non-interest bearing | Total |
| | ₺ | ₺ | ₺ | ₺ |
| Financial assets | | | | |
| Accounts receivables | - | - | 229,983,082 | 229,983,082 |
| Prepayments | - | - | 1,869,317 | 1,869,317 |
| Government of Guyana and related entities | - | - | 979,814,712 | 979,814,712 |
| Cash and deposits (average interest of 0.6% per annum) | 13,631,980 | 1,557,969,871 | 645,837,554 | 2,217,439,405 |
| | <u>13,631,980</u> | <u>1,557,969,871</u> | <u>1,857,504,665</u> | <u>3,429,106,516</u> |
| Financial liabilities | | | | |
| Government of Guyana and related entities | - | - | 2,889,909,614 | 2,889,909,614 |
| Accounts payable and accruals | - | - | 7,298,152 | 7,298,152 |
| Bank balance | - | - | 288,080 | 288,080 |

NOTES TO THE FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2015
(Expressed in Guyana Dollars)

19. Financial risk management, continued

(d) Interest rate risk

| | 2014 | | | |
|---|---------------------|------------------------|----------------------|----------------------|
| | Fixed interest rate | Floating interest rate | Non-interest bearing | Total |
| | ₳ | ₳ | ₳ | ₳ |
| Financial assets | | | | |
| Accounts receivables | - | - | 304,299,959 | 304,299,959 |
| Prepayments | - | - | 1,655,035 | 1,655,035 |
| Government of Guyana and related entities | - | - | 979,912,632 | 979,912,632 |
| Cash and deposits | 13,552,931 | 735,777,305 | 635,204,502 | 1,384,534,738 |
| | <u>13,552,931</u> | <u>735,777,305</u> | <u>1,921,072,128</u> | <u>2,670,402,364</u> |
| Financial liabilities | | | | |
| Government of Guyana and related entities | - | - | 2,155,010,966 | 2,155,010,966 |
| Accounts payable and accruals | - | - | 2,357,733 | 2,357,733 |
| Bank balance | - | - | 4,596,030 | 4,596,030 |
| | <u>-</u> | <u>-</u> | <u>2,161,964,729</u> | <u>2,161,964,729</u> |

(e) Price risk

Price risk is the risk that the value of financial instrument will fluctuate as a result of changes in market prices whether those changes are caused by factors specific to the individual security of its issuer or factors affecting securities traded in the market. The Board is a governmental organisation and does not trade in equity investments.

Management continually identifies and put mechanisms in place in order to minimise this risk.

20. Contingencies

In the ordinary course of business the Board is involved in legal proceedings. Management does not believe that the outcome of these proceedings, in aggregate, will have a material adverse effect on the Board's results of operations and accordingly, no provision for contingencies is necessary.

GRDB STAFF

1. MONTHLY STAFF

a) Region 2

Table 29

| Department | Name of Employee | Designation |
|-----------------|--------------------|---------------------------------|
| Quality Control | Deoram Prahald | Regional Superintendent |
| | Ronsard Boodhram | Grading Officer |
| | Sanjay Singh | Grading Officer |
| | Oveta Kalpoo | Grading Officer |
| | Nearajh Ramadar | Technical Assistant |
| | Kara Ramnauth | Technical Assistant |
| | Ramkumar Seurattan | Grading Officer |
| | Shabeena Rahman | Technical Assistant |
| | Balkarran Beharry | Grading Officer |
| | Kevin Joseph | Grading Officer |
| Extension | Davendra Singh | District Rice Extension Officer |
| | Gaydayal Ramnauth | District Rice Extension Officer |
| | Tamesh Ramnauth | District Rice Extension Officer |
| | Nimron Bahadur | Extension Officer |
| | Sophia Boston | District Rice Extension Officer |
| | Chris Cooblall | District Rice Extension Officer |
| | Shevon Gravesande | Crop Extension Officer |
| | Linden Cambridge | Crop Extension Officer |
| Administrative | Ashwini Mohabir | Typist/Clerk |
| | Sant Ramlakhan | Security Guard |
| | Russel Grosvenor | Security Guard |
| | Chidanand Das | Driver |
| | | |

b) Region 3

Table 30

| Department | Name of Employee | Designation |
|-----------------|----------------------|---------------------------------|
| Quality Control | Pooran Seeraj | Regional Superintendent |
| | Donett Adams | Grading Officer |
| | Leelawattie Manohar | Grading Officer |
| | Uancy Chichester | Grading Officer |
| | Tawana Patrick | Grading Officer |
| | Surendra Jairam | Technical Assistant |
| Extension | Deodram Garbarran | District Rice Extension Officer |
| | Preemraj Persaud | Crop Extension Assistant |
| | Christine Evans | Crop Extension Officer |
| Administrative | Ravendra Arjune | Driver |
| | Rudolph Adams | Security Guard |
| | Bhagwandat Seemangal | Security Guard |
| | Nivrita Seetaram | Typist/Clerk |
| | | |

GRDB STAFF

1. MONTHLY STAFF CON'T

c) Region 4

Table 31

| Department | Name | Designation |
|--------------------|------------------------|--------------------------------|
| Administrative | Nizam Hassan | General Manager |
| | Madanlall Ramraj | Deputy General Manager |
| | Somwattie Singh | Confidential Secretary |
| | Julia Chunoo | Administrative Coordinator |
| | Nashree Singh | Human Resource Assistant |
| | Janesa Marcus | Confidential Secretary |
| | Vejailatchmi Benimadho | Project Assistant |
| | Yvette Richards | Security Guard |
| | Ramgeet Singh | Security Guard |
| | Marcia Oxford | Security Guard |
| | Carletta Slowe | Office Attendant |
| | Daveanand Ram | Security Guard |
| | Pulmattie Dyal | Office Attendant |
| | Sylvester Jairam | Office Assistant |
| | Deodat Puranram | Driver |
| | Dwayne Daly | Driver |
| | Thakurdai Gopaul | Procurement Officer |
| | Colin Watson | Shipping and Logistics Officer |
| | Savita Lillah | Research Assistant |
| | Ilhaam Sugrim | Mechanical Engineer |
| Devendra Pal Singh | ITEC Expert | |
| Accounts | Peter Ramcharran | Accountant |
| | Errol Chester | Assistant Accountant |
| | Abigail Constantine | Assistant Accountant |
| | Carol Mendez | Senior Accounts Clerk |
| | Prabhawattie Victorino | Accounts Clerk |
| | Keshwanand Seetaram | Accounts Clerk |
| | Devika Singh | Cashier |
| | Padmanie Sahadeo | Accounts Secretary |
| Ariel Norton | Data Entry Clerk | |

GRDB STAFF

1. MONTHLY STAFF CON'T

c) Region 4 Con't

| Department | Name | Designation |
|------------------------|------------------------|--|
| Audit | Tyrone Shiwpersaud | Internal Auditor |
| | Rayan Fung | Audit Clerk |
| Marketing | Gloria Chester | Marketing Assistant |
| | Barabra Hochan | Research Assistant |
| | Ramkaran Sitaram | Clerk |
| | Jermaine Stewart | Clerk |
| | Soma Devi Pooran | Typist/Clerk |
| | Nekita Tang | Secretary |
| Quality Control | Allison Peters | Quality Control Manager |
| | Marsha Hohenkirk | Research Assistant |
| | Shemeka Reece | Research Assistant |
| | Heather Edwards | Research Assistant |
| | Charles Hope | Regional Supervisor |
| | Michelle Emanuel | Grading Officer |
| | Ezekiel Jacobs | Technical Assistant |
| | Jamal Harris | Technical Assistant |
| | Paul Harry | Grading Officer |
| | Trevonne Wright | Grading Officer |
| | Seon Johnson | Technical Assistant |
| | Analisha Jodhan | Secretary |
| | Roderick Somrah | Technical Assistant |
| | Colwyn Torrington | Grading Officer |
| | Omadevi Lakheram | Grading Officer |
| | Cordel Roberts | Technical Assistant |
| | Taneisha Bain | Grading Officer |
| Althea Melville | Crop Extension Officer | |
| Information Technology | Davin Panday | IT Officer |
| | Arvindo Singh | IT Technician |
| Post Harvest | Dhirendranath Singh | Post Harvest Researcher |
| | Narita Singh | Food Safety and Quality Assurance Researcher |
| | | |

GRDB STAFF

1. MONTHLY STAFF CON'T

d) Region 5

Table 32

| Department | Name | Designations |
|------------------|--------------------|---|
| Quality Control | Errol Joseph | Regional Supervisor |
| | Wanella La Rose | Trainee Regional Supervisor |
| | Beverly Joseph | Grading Officer |
| | Yonette Hawker | Technical Assistant |
| | Abdool DaSilva | Technical Assistant |
| | Dwayne London | Grading Officer |
| | Maywattie Mandai | Technical Assistant |
| | Darren Vanderstoop | Grading Officer |
| Extension | Kuldip Ragnauth | Extension Manager |
| | Bissessar Persaud | Deputy to the Extension Manager and Head of Regions 4&5 |
| | Rishal Ramsarran | District Rice Extension Officer |
| | Satish Sookram | District Rice Extension Officer |
| | Quacie Wilson | District Rice Extension Officer |
| | Delon McKenzie | District Rice Extension Officer |
| | Rosmery Jaikaran | Typist/Clerk |
| | Alan Basil | Extension Officer |
| | Toetaram Ganesh | District Rice Extension Officer |
| | Leyland Sonny | Crop Extension Officer |
| | Kevil Chester | Crop Extension Officer |
| | Administrative | Satanand Narain |
| Vishnudatt Singh | | Driver |
| Kowsilla Singh | | Typist/Clerk |
| Sunil Rahman | | Operator/Driver |
| Steven Veeren | | Operator/Driver |
| Jainanan Singh | | Welder |
| Renaldo Puran | | Mechanical Engineer |
| Accounts | Marai Payman | Senior Accounts Clerk |
| | Gangadai Dindyal | Accounts Clerk |
| | Owen Thorman | Accounts Clerk |
| | Jason Nunes | Stores Clerk |
| | Feona Alfred | Accounts Clerk |
| | Tumeshwar Singh | Accounts Clerk |
| | | |

GRDB STAFF

1. MONTHLY STAFF CON'T

d) Region 5 Cont't

Table 32

| Department | Name | Designations |
|-----------------|---------------------|---------------------------------|
| Farm Operation | Jaddonauth Persaud | Farm Manager |
| | Hemant Benimadhoo | Research Technician |
| | Satrohan Persaud | Research Technician |
| | Naitram Persaud | Research Technician |
| | Fazal Khan | Research Technician |
| | Tariku Punch | Research Technician |
| Entomology | Viviane Baharally | Entomologist |
| | Kadeem Jacobs | Research Assistant |
| | Beesham Bharat | Research Assistant |
| | Chandrawatie Sukdeo | Typist/Clerk |
| | Leyland Sonny | Research Assistant |
| Plant Breeding | MahendraPersaud | Chief Scientist/Head of Station |
| | Violey Henry | Research Assistant |
| | Elijah Adams | Research Technician |
| | Jairam Persaud | Research Technician |
| | Jasmine Thompson | Laboratory Technician |
| | Shevon Abel Shapre | Research Technician |
| | Jamal Europe | Research Technician |
| | Sheneza Massiah | Research Technician |
| | Nandram Gobind | Research Assistant |
| | Dindyal Jagdeo | Technical Assistant |
| Danata McGowan | Research Assistant | |
| Plant Pathology | Rajendra Persaud | Plant Pathologist |
| | Deroy Gilead | Research Assistant |
| | Jomaine Sharpe | Technical Assistant |
| Agronomy | Ghansham Payman | Agronomist |
| | Shanna Crawford | Agronomist |
| | Tyrone English | Research Assistant |
| | Miranda Welch | Research Assistant |
| | Miranda Henry | Research Assistant |
| | Munindra Seeraj | Research Assistant |
| | Latoya Jack | Technical Assistant |
| | Suresh Hardat | Technical Assistant |
| | | |

GRDB STAFF

1. MONTHLY STAFF CON'T

e) Region 6

Table 33

| Department | Name | Designation |
|-----------------|------------------------|---------------------------------|
| Quality Control | Dahasrat Narain | Regional Superintendent |
| | Lubert Walcott | Grading Officer |
| | Arleen Munroe | Grading Officer |
| | Keyron Greaves | Technical Assistant |
| | Iome Vanderstoop | Grading Officer |
| | Steve Lyte | Grading Officer |
| Extension | Phillip Jainarine | District Rice Extension Officer |
| | Permeshwar Ramcharitar | Field Officer |
| | Marcel Harvey | District Rice Extension Officer |
| | Sanjiv Sawh | Agricultural Engineer |
| | Nijele Jainarain | District Rice Extension Officer |
| | Kelvin Chinapa | District Rice Extension Officer |
| | Phibian Joseph | Crop Extension Officer |
| Administrative | Celice Paul | Typist/ Clerk |
| | Richard Ramdial | Driver |

f) Region 9 – Moco Moco

Table 34

| Department | Name | Designation |
|----------------|-----------------|---|
| Administrative | Wilfred McInroy | Hinterland Rice & Beans Project Coordinator |

GRDB STAFF 1. MONTHLY STAFF CON'T

g) Permanent Weekly Employees

Table 35

| Region | Name | Designation |
|----------|-----------------------|------------------|
| Region 2 | Myrtelle Mark | Office Attendant |
| Region 3 | Yvette Cottam | Office Attendant |
| Region 4 | Bhola Nauth Baijnauth | Handyman |
| Region 5 | Ganeshree Ramsukh | Office Attendant |
| | Marlyn Roberts | Office Attendant |
| Region 6 | Edna Adams | Office Attendant |
| | Karran Permeshwar | Security Guard |
| | Anand | Security Guard |
| | Kennedy Jagnarine | Security Guard |
| | Cupchan Ghansham | Handyman |
| | Bivendra Budhu | Labourer |
| | Jitendra Rambarran | Labourer |

h) Weekly Employees

Table 36

| Department | Name | Designation |
|-----------------|-------------------|-------------|
| Agronomy | Om Singh | Labourer |
| | Leon Simon | Labourer |
| | Delon Byess | Labourer |
| | Shemroy Sharpe | Labourer |
| | Ronald Jaigobin | Labourer |
| Plant Pathology | Chidanand Deolall | Labourer |
| | Haimaria Mohan | Labourer |
| | Burnett Donzel | Labourer |
| | | |
| Entomology | Jamall Jones | Labourer |
| | Mahindra Persaud | Labourer |
| | Linda Mc pherson | Labourer |
| | | |
| | | |

GRDB STAFF

1. MONTHLY STAFF CON'T

h) Weekly Employees Con't

| Department | Name | Designation |
|-----------------|---------------------|-------------|
| Plant Breeding | Simon James | Labourer |
| | Ramnauth Balram | Labourer |
| | Wilson Sherwin | Labourer |
| | Terrence Hermerding | Labourer |
| | Latchman Roopdeo | Labourer |
| | Nicola Roberts | Labourer |
| | Yvette Wilson | Labourer |
| | Isa Shepherd | Labourer |
| | Niketah Williams | Labourer |
| | Allison Romain | Labourer |
| | Sherriann Dowden | Labourer |
| | Ken Gonsalves | Labourer |
| | Gopaul Jhangai | Labourer |
| | Roushana Hermerding | Labourer |
| | Yonnette Gordon | Labourer |
| Lindo Shunburne | Labourer | |
| Khemraj Singh | Labourer | |
| Farm Operation | Loakanuth Jagnarine | Labourer |
| | Deochand Gildhari | Labourer |
| | Ambika Harripersaud | Labourer |
| | Climax Williams | Labourer |
| | Wendy Fordyce | Labourer |
| | Annabelle Da Silva | Labourer |
| | Claudelle Gordon | Labourer |
| | Umadat Singh | Labourer |
| | Travis Da Silva | Labourer |
| | Lavi Longe | Labourer |
| | Suruj Singh | Labourer |
| | Carletta Fordyce | Labourer |
| | Kelwin Hutson | Labourer |
| | Wendell Crawford | Labourer |
| Patryce Downer | Labourer | |

GRDB STAFF

1. MONTHLY STAFF CON'T

h) Weekly Employees Con't

| Department | Name | Designation |
|------------------|--------------------|------------------|
| Administrative | Malchand | Labourer |
| | Ganeshree Ramsukh | Labourer |
| | Jainarine Mohan | Carpenter |
| | Young Patricia | Labourer |
| | Chandradat Hardat | Security |
| | Mohamed Shamshaad | Security |
| | Winston Fraser | Security |
| | Shounect Singh | Security |
| | Mohamed Raheme | Security |
| | Cheryl Inniss | Security |
| | Loretta Inniss | Security |
| | Roy Persaud | Security |
| | Jacob Achama | Security |
| | Lakeram Persaud | Labourer |
| | Orien Tappin | Labourer |
| | Marlyn Roberts | Labourer |
| | Kempton Archibald | Labourer |
| | Seeram Brijnauth | Labourer |
| | Immanchal Sipaul | Tractor Operator |
| | Mahalia Carmichael | Labourer |
| | Ramsood Premnauth | Security |
| | Tyrone Alexander | Labourer |
| | Randy Ramdat | Labourer |
| Khemraj | Labourer | |
| Moonasar Persaud | Security | |

LICENCED MILLS 2015

a) Region 2

Table 37

| Name of Miller | Address |
|--|---------------------------------|
| Caricom Rice Mill Ltd. | Anna Regina, Essequibo Coast |
| Old Mac (Guyana) inc. | Fairfield, Essequibo Coast |
| Arnold Sankar | Airy Hall, Essequibo |
| Golden Fleece Rice Investment | Golden Fleece, Essequibo Coast |
| Wazeer Hussein | Dry Shore, Essequibo Coast |
| Sea Rice Caribbean Inc. | Paradise, Essequibo Coast |
| Sea Rice Caribbean Inc. | Vilvoorden, Essequibo Coast |
| Imam Bacchus & Sons | Affiance, Essequibo Coast |
| Deonarine Rice Milling | Evergreen, Essequibo Coast |
| Dharanpaul Persaud & Son (Vincent Persaud) | Bounty Hall, Essequibo Coast |
| Ramlakhan & Sons | Ex-mount, Essequibo |
| Kayman Sankar & Co. Ltd. | Hampton Court, Essequibo |
| Roopan Ramotar Investment | Land of Plenty, Essequibo Coast |

b) Region 3

Table 38

| Name of Miller | Address |
|---|-------------------------------|
| Two Brothers Corp | Vergenoegen E.B.E |
| Mohan & Hansraj Persaud (M&H Rice Milling) | Greenwich Park, E.B.E. |
| Goed Fortuin Rice Mill (Jeetlall Ramraj) | Goed Fortuin W.C.D. |
| Abdool Hakh & Sons | Harlem W.C.D. |
| Elizabeth Nandlall | 29 Hague Front, W.C.D. |
| Chand's Rice Milling Complex | La Bagatelle Leguan Essequibo |
| Fiuze Khan | Leguan Essequibo Island |
| Ojha Rice Milling Complex | 1&2 Blenheim Leguan |
| Lachmie & Rajiv Doobay Rice Milling Complex | Doorn Haag Leguan |
| Rahaman Badshaw | Maryville Leguan |
| Leguan Rice Milling Inc. | Blenheim Leguan |
| Bhagwandeem Tularam & Sons | La Bagatelle Leguan |
| Rumzeight Rice Processors Inc. | Rumzeight West Coast Demerara |
| | |

LICENCED MILLS 2015

c) Region 3

Table 39

| Name of Miller | Address |
|--|--|
| A.C. Hakh & Sons | Golden Grove W.C.D. |
| A.C Hakh & Sons | Cane Grove Mahaica E.C.D. |
| Rayaadul Hakh Rice Industry | Strangroen Mahaicony E.C.D |
| Planters Hall Rice Mill (Boodram & Dhanlall Sooklall) | Planters Hall Mahaicony E.C.D. |
| Sukhlal Rice Industry (Deonarine Sukhlal) | De Hoop Mahaica E.C.D |
| Sukhlal Rice Industry (Deonarine Sukhlal) | Doorn Park Mahaicony |
| Fairfield Rice Inv. | Fairfield Mahaicony, E.C.D. |
| Guyana Stockfeed Inc. | Farm E.B.D. |
| Tecnomills Guyana Inc. | 76 Block DD Eccles Industrial Estate E.B.D |
| Chaitram Ramroop's Rice Milling | Dundee Mahaicony, East Coast Demerara |
| Saj Rice Group Inc. | Burma Mahaicony E.C.D |
| Guya .P. Ramotar | De Kendren Mahaicony E.C.D. |
| Greenfield Rice Investment Inc. | Esau & Jacob Branch Road Mahaicony E.C.D |
| Daad Rice Mill (Abdul Sahim Rahim) | Bush Lot Village, W.C.B. |
| Balram & Kheman Ractoo (B& K Ractoo Rice Milling Company) | De Kendren |
| Buddy's Rice Milling Complex | Spooner Mahaicony |

LICENCED MILLS 2015

d) Region 6

Table 40

| Name of Miller | Address |
|---|--|
| Tota Budhram | No. No. 64 Village Corentyne Berbice |
| Rayaadul Hakh Rice Industry | Black Bush Polder Berbice |
| T & R Karran (Don Robin Rice Mill Inc.) | Don Robin Village Corentyne Berbice |
| Nand Persaud & Company Limited | No. 36 Village Corentyne Berbice |
| Harnarine Lakhram | No. 69 Village Corentyne Berbice |
| Ramcoomar Ramdeo (Hemraj Rice Mill) | Bush Lot Village Corentyne Berbice |
| Ancient County Rice Investment Inc. | Lot 34 Tarlogie Farm Corentyne Berbice |
| Khemharshan Babulal & Sons Rice Est. | No. 45 Village Corentyne Berbice |
| Amazonia Rice Investment Inc. | Johanna North Black Bush Polder |
| Afzal Haniff | No. 63 Village Corentyne Berbice |
| Corentyne Rice Inc. | No. 70 Village Corentyne Berbice |
| Krishndat Persaud | No.57 Village Corentyne Berbice |
| Thakurdial Tulshi | No. 49 Village Corentyne Berbice |
| P&T Tulshi | No. 47 Village Corentyne Berbice |
| Mahendra Singh | No. 68 Village Corentyne Berbice |

e) Region 9

Table 41

| Name of Miller | Address |
|----------------|------------------|
| Santa Fe Inc. | 52km/Lethem Road |
| | |

RICE STATISTICS 1970-2015

Table 42 Rice Statistics 1970-2015

| Year | Hectare | Paddy | Yield | Rice Equiv | Quantity | Value |
|------|-----------|------------|-----------|------------|-------------------|----------------|
| | Harvested | Production | Tonnes/ha | Tonnes | Exported (TONNES) | G\$ & US\$ |
| 1970 | 119,182 | 222,469 | 1.8 | 144,605 | 59,347 | 18,047 |
| 1971 | 94,551 | 187,535 | 1.9 | 121,989 | 67,515 | 21,334 |
| 1972 | 79,462 | 147,130 | 1.8 | 95,639 | 69,949 | 25,251 |
| 1973 | 92,821 | 152,360 | 1.6 | 99,034 | 47,814 | 25,005 |
| 1974 | 105,741 | 255,886 | 2.4 | 165,657 | 50,827 | 49,025 |
| 1975 | 108,486 | 297,099 | 2.7 | 172,259 | 82,035 | 84,937 |
| 1976 | 84,027 | 172,904 | 2.0 | 103,754 | 70,681 | 73,594 |
| 1977 | 130,528 | 358,290 | 2.7 | 214,972 | 65,855 | 66,812 |
| 1978 | 114,846 | 308,207 | 2.6 | 184,985 | 104,761 | 95,983 |
| 1979 | 90,227 | 240,556 | 2.6 | 144,328 | 84,080 | 80,814 |
| 1980 | 95,991 | 281,846 | 2.9 | 169,107 | 81,008 | 87,491 |
| 1981 | 89,053 | 276,006 | 3.0 | 165,604 | 78,010 | 110,009 |
| 1982 | 95,280 | 302,671 | 3.1 | 181,603 | 35,676 | 60,767 |
| 1983 | 75,807 | 246,064 | 3.2 | 147,639 | 41,715 | 64,933 |
| 1984 | 92,987 | 299,628 | 3.2 | 179,785 | 47,498 | 80,945 |
| 1985 | 77,777 | 260,207 | 3.3 | 156,124 | 29,339 | 56,594 |
| 1986 | 83,977 | 293,073 | 3.4 | 171,044 | 38,634 | 57,234 |
| 1987 | 75,146 | 243,398 | 3.2 | 145,879 | 68,987 | 157,128 |
| 1988 | 74,223 | 226,862 | 3.0 | 132,281 | 55,926 | 139,165 |
| 1989 | 68,544 | 237,183 | 3.4 | 142,310 | 40,575 | 367,427 |
| 1990 | 51,368 | 155,740 | 3.0 | 93,444 | 50,943 | 513,220 |
| 1991 | 76,209 | 251,321 | 3.3 | 150,783 | 54,047 | US\$17,202,635 |
| 1992 | 77,327 | 286,000 | 3.7 | 171,000 | 115,102 | US\$35,000,135 |
| 1993 | 98,061 | 336,207 | 3.4 | 201,702 | 124,089 | US\$33,045,227 |
| 1994 | 97,660 | 378,432 | 3.8 | 233,111 | 182,585 | US\$55,547,061 |
| 1995 | 132,344 | 525,500 | 3.4 | 315,301 | 200,336 | US\$76,397,522 |
| 1996 | 135,436 | 543,437 | 4.0 | 332,542 | 262,265 | US\$93,716,748 |
| 1997 | 142,782 | 568,186 | 3.9 | 340,911 | 285,051 | US\$84,224,971 |
| 1998 | 129,469 | 522,907 | 4.0 | 339,890 | 249,755 | US\$73,259,786 |
| 1999 | 147,071 | 562,260 | 3.8 | 365,469 | 251,519 | US\$71,035,677 |
| 2000 | 115,872 | 448,740 | 3.8 | 291,967 | 207,638 | US\$51,790,072 |
| 2001 | 124,565 | 495,862 | 3.9 | 322,310 | 209,042 | US\$50,061,834 |
| 2002 | 107,902 | 443,654 | 4.1 | 288,375 | 193,416 | US\$45,463,590 |

RICE STATISTICS 1970-2015

Table 42 Rice Statistics 1970-2015 Con't

| Year | Hectare | Paddy | Yield | Rice Equiv | Quantity | Value |
|------|------------|------------|-----------|------------|-------------------|-------------------|
| | Harvested | Production | Tonnes/ha | Tonnes | Exported (TONNES) | G\$ & US\$ |
| 2004 | 115,742 | 500,911 | 4.3 | 325,592 | 243,093 | US\$55,066,513 |
| 2005 | 106,645 | 420,365 | 3.9 | 273,237 | 182,175 | US\$46,172,149 |
| 2006 | 102,934 | 472,363 | 4.6 | 307,036 | 204,577 | US\$ 54,622,550 |
| 2007 | 105,865 | 458,653 | 4.3 | 298,125 | 269,436 | US \$ 75,251,465 |
| 2008 | 119,792 | 507,036 | 4.2 | 329,574 | 196,233 | US \$ 118,032,803 |
| 2009 | 124,820 | 553,522 | 4.4 | 359,789 | 260,815 | US \$ 114,120,324 |
| 2010 | 131,412 | 556,193 | 4.2 | 361,525 | 336,313 | US \$154,622,744 |
| 2011 | 140,674 | 619,198 | 4.4 | 402,479 | 305,382 | US\$ 173,239,721 |
| 2012 | 143,386 | 649,320 | 4.5 | 422,058 | 334,140 | US \$196,226,960 |
| 2013 | 164,808 | 823,930 | 5.0 | 535,555 | 394,988 | US \$239,826,389 |
| 2014 | 185,021 | 977,289 | 5.3 | 635,238 | 501,208 | US \$249,512,110 |
| 2015 | 190,789.56 | 1,058,129 | 5.5 | 687,784 | 537,334 | US\$220,768,340 |

Table 43: Comparison of Yearly Products (2002-2015)

| Month | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| January | 17,237 | 8,709 | 22,641 | 10,426 | 7,361 | 24,026 | 11,578 | 9,635 | 36,137 | 18,413 | 25,620 | 26,032 | 14,491 | 33,688 |
| February | 13,271 | 8,416 | 13,295 | 15,582 | 10,427 | 11,518 | 5,694 | 21,200 | 18,790 | 11,076 | 12,161 | 12,324 | 13,354 | 25,060 |
| March | 13,401 | 11,444 | 16,911 | 11,487 | 9,254 | 32,189 | 5,274 | 14,333 | 15,204 | 9,416 | 11,847 | 16,020 | 23,313 | 29,537 |
| April | 20,738 | 13,382 | 20,931 | 16,189 | 17,127 | 22,644 | 21,421 | 13,732 | 20,651 | 15,931 | 21,363 | 17,148 | 42,754 | 75,181 |
| May | 13,160 | 13,032 | 32,666 | 17,911 | 20,751 | 28,674 | 25,008 | 34,632 | 35,328 | 67,188 | 32,468 | 26,296 | 42,587 | 57,530 |
| June | 18,172 | 25,426 | 28,314 | 18,261 | 14,746 | 26,868 | 21,361 | 30,746 | 31,125 | 45,922 | 40,216 | 44,463 | 49,500 | 55,898 |
| July | 15,593 | 20,674 | 20,229 | 13,086 | 20,706 | 16,204 | 19,334 | 22,757 | 35,299 | 17,039 | 30,162 | 57,396 | 44,629 | 34,029 |
| August | 15,378 | 20,277 | 13,102 | 10,149 | 16,708 | 18,573 | 9,091 | 20,742 | 19,691 | 5,988 | 22,398 | 35,744 | 51,304 | 35,608 |
| September | 11,775 | 9,716 | 20,656 | 13,052 | 21,851 | 15,861 | 20,264 | 15,955 | 17,925 | 6,200 | 23,158 | 32,534 | 52,459 | 42,648 |
| October | 24,541 | 26,160 | 17,973 | 22,566 | 18,509 | 25,386 | 20,551 | 24,476 | 33,127 | 24,018 | 46,121 | 51,086 | 77,837 | 48,269 |
| November | 18,736 | 21,748 | 21,752 | 20,629 | 26,265 | 25,168 | 24,527 | 30,955 | 40,796 | 56,560 | 35,569 | 29,200 | 39,194 | 59,729 |
| December | 11,413 | 21,448 | 14,622 | 12,837 | 20,872 | 22,325 | 12,130 | 21,653 | 32,240 | 27,631 | 33,058 | 46,746 | 49,786 | 40,157 |
| TOTAL | 193,415 | 200,432 | 243,092 | 182,175 | 204,577 | 269,436 | 196,233 | 260,815 | 336,313 | 305,382 | 334,141 | 394,989 | 501,208 | 537,334 |
| | | | | | | | | | | | | | | |

EXPORTS ACCORDING TO PRODUCTS 2014 – 2015

Table 44: Exports According to Products 2014 – 2015

| PRODUCT | 2014 | | 2015 | |
|-------------------|-------------------|--------------------|-------------------|--------------------|
| | QUANTITY (TONNES) | % OF TOTAL EXPORTS | QUANTITY (TONNES) | % OF TOTAL EXPORTS |
| BRAN | 15,684 | 3.00 | 17,968 | 3.00 |
| C.P.B PK | 17 | 0.00 | 23 | 0.00 |
| C.P.B RICE | 1,506 | 0.30 | 203 | 0.03 |
| CARGO BKN | 11,406 | 2.30 | 13,557 | 3.00 |
| CARGO RICE | 63,207 | 12.50 | 102,795 | 19.00 |
| DAMAGED RICE | 86 | 0.00 | 90 | 0.00 |
| PADDY | 181,364 | 36.20 | 171,796 | 32.00 |
| PARBOILED BROKEN | 1,552 | 0.30 | 1,205 | 0.22 |
| PARBOILED RICE | 21,400 | 4.30 | 24,003 | 4.50 |
| PET FOODS | | | 50 | 0.04 |
| PET RICE | 1,570 | 0.30 | 1,846 | 0.34 |
| PKG CARGO RICE | | | 7 | 0.00 |
| PKG PB BKN | 1 | 0.00 | | |
| PKG PB RIC | 7,116 | 1.40 | 6,738 | 1.30 |
| PKG PET RICE | 28 | 0.00 | 65 | 0.00 |
| PKG REJ PB RICE | 44 | 0.00 | 5 | 0.00 |
| PKG W.RICE | 642 | 0.10 | 693 | 0.13 |
| REJ PB RIC | 560 | 0.10 | 1,464 | 0.30 |
| RICE HUSK | | | 5 | 0.00 |
| WHITE BROKEN | 33,688 | 7.00 | 31,881 | 6.00 |
| WHITE RICE | 160,041 | 32.00 | 161,993 | 30.00 |
| BROKEN RICE | 503 | 0.10 | | |
| CHIPS | 678 | 0.10 | 655 | 0.12 |
| PKG BROKEN RICE | 5 | 0.00 | | |
| REJECT WHITE RICE | 48 | 0.00 | | |
| SEED PADDY | 62 | 0.00 | 105 | 0.02 |
| DISCOLOURED RICE | | | 187 | 0.03 |
| TOTAL | 501,208 | 100.00 | 537,334 | 100 |
| | | | | |

EXPORTS ACCORDING TO DESTINATION 2014 – 2015

Table 45: Exports According to Destination 2014 – 2015

| Country | 2014 | Exports Percentage (%) | 2015 | Exports Percentage (%) |
|-----------------------|----------------|------------------------|----------------|------------------------|
| CARICOM | | | | |
| Antigua | 1,100 | 0.22 | 812 | 0.15 |
| Barbados | 2,435 | 0.48 | 2,763 | 0.5 |
| Belize | 1,451 | 0.28 | 101 | 0.02 |
| Dominica | 971 | 0.20 | 1,249 | 0.23 |
| Grenada | 1,754 | 0.34 | 1,777 | 0.34 |
| Jamaica | 50,264 | 10.02 | 47,913 | 8.9 |
| St. Kitts | 389 | 0.07 | 343 | 0.07 |
| St. Lucia | 611 | 0.12 | 715 | 0.13 |
| St. Vincent | 3,574 | 0.71 | 4,076 | 0.8 |
| Suriname | 1,558 | 0.31 | 1,181 | 0.23 |
| Trinidad | 24,328 | 4.85 | 24,926 | 4.63 |
| Sub-Total | 88,435 | 17.60 | 85,856 | 16.00 |
| European Union | | | | |
| Belgium | 12,036 | 2.40 | 10,992 | 2 |
| France | 0 | 0 | 6,886 | 1.28 |
| French Guiana | 573 | 0.10 | 633 | 0.1 |
| Greece | 0 | 0 | 3,500 | 0.6 |
| Germany | 10 | 0 | | |
| Guadeloupe | 1,399 | 0.30 | 1,512 | 0.3 |
| Holland | 25,470 | 5.08 | 20,808 | 3.87 |
| Italy | 655 | 0.13 | 70,233 | 13 |
| Lithuania | 0 | 0 | 93 | 0.01 |
| Martinique | 1,120 | 0.22 | 1,269 | 0.2 |
| Poland | 151 | 0.03 | 1,518 | 0.28 |
| Portugal | 41,479 | 8.30 | 89,373 | 16.6 |
| Spain | 0 | 0 | 3,700 | 0.68 |
| United Kingdom | 18,779 | 3.74 | 21,939 | 4.08 |
| Sub-Total | 101,672 | 20.30 | 232,456 | 43.00 |

EXPORTS ACCORDING TO DESTINATION 2014 – 2015

Table 45: Exports According to Destination 2014 – 2015 Con't

| Country | 2014 | Exports Percentage (%) | 2015 | Exports Percentage (%) |
|----------------------|----------------|------------------------|----------------|------------------------|
| North America | | | | |
| Canada | 0 | 0 | 123 | 0 |
| USA | 2,514 | 0.51 | 6,316 | 1 |
| Sub-Total | 2,514 | 0.51 | 6,439 | 1.00 |
| Latin America | | | | |
| Brazil | 12,173 | 2.43 | 16,681 | 3.1 |
| Chile | 892 | 0.18 | 325 | 0.06 |
| Colombia | 2,525 | 0.51 | 4,987 | 0.92 |
| Guatemala | 0 | 0 | 2,696 | 0.5 |
| Costa Rica | 149 | 0.03 | | |
| Dominican Republic | 28 | 0 | | |
| Haiti | 10,350 | 2.07 | 34,679 | 7 |
| Nicaragua | 35,170 | 7.02 | 36,244 | 6.7 |
| Panama | 59,279 | 11.83 | 35,155 | 6.5 |
| Honduras | 0 | 0 | 977 | 0.2 |
| Peru | 0 | 0 | 150 | 0.02 |
| Venezuela | 187,995 | 37.51 | 80,639 | 15 |
| Curacao | 0 | 0 | 25 | 0 |
| Sub-Total | 308,561 | 61.58 | 212,558 | 40.00 |
| West Africa | | | | |
| Ghana | 25 | 0.01 | 25 | 0.00 |
| Sub-Total | 25 | 0.01 | 25 | 0.00 |
| TOTAL | 501,208 | 100.00% | 537,334 | 100 |

AVERAGE RICE EXPORTS PRICE 2005-2014

Table 46: Average Rice Exports Price 2005-2014

| REGION | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|
| CARICOM | | | | | | | | | | | |
| CARGO RICE | 364 | 260 | 283 | 623 | 443 | 407 | 536 | 558 | 549 | 519 | 347 |
| CARGO BKN | 105 | 110 | - | 295 | 210 | 267 | 395 | 379 | 328 | 270 | 343 |
| PKG CARGO RICE | - | - | - | - | - | - | - | - | - | - | 740 |
| WHITE RICE | 275 | 295 | 347 | 688 | 532 | 513 | 693 | 667 | 768 | 519 | 418 |
| WHITE PKG. RICE | 352 | 390 | 594 | 763 | 512 | 611 | 713 | 730 | 707 | 665 | 597 |
| WHITE BKN | 180 | 175 | 178 | 426 | 316 | 369 | 392 | 363 | 393 | 329 | 286 |
| C.P.B PK RICE | - | - | - | - | - | - | - | - | 777 | 885 | 623 |
| C.P.B RICE | 290 | 310 | 285 | 945 | 608 | 655 | 710 | 668 | 814 | 747 | - |
| C.P.B. BKN | 104 | 120 | 110 | 190 | 295 | 267 | 255 | - | - | - | - |
| PARB RICE | 399 | 400 | 425 | 824 | 716 | 624 | 785 | 773 | 763 | 716 | 672 |
| PARB PKG. RICE | 468 | 475 | 638 | 851 | 756 | 689 | 807 | 822 | 687 | 665 | 698 |
| PKG PARB BKN | - | - | - | - | - | - | - | - | 416 | 366 | - |
| PARB BKN | 162 | 165 | 164 | 354 | 253 | 267 | 352 | 418 | 510 | 362 | 416 |
| PKG REJ PARB RICE | - | - | - | - | - | - | - | - | 438 | 632 | 211 |
| REJ. PB RICE | 170 | 178 | 195 | - | 294 | 326 | 316 | 383 | 425 | 410 | 342 |
| BRAN | 62 | 63 | 45 | 118 | 96 | 120 | 105 | 97 | 87 | 68 | 73 |
| PKG PET RICE | - | - | - | - | - | - | - | - | 616 | 553 | 523 |
| PET RICE | - | - | 190 | - | 250 | 339 | 384 | 445 | 407 | 382 | 344 |
| PADDY | - | - | - | - | - | - | - | - | 520 | 350 | 330 |
| SEED PADDY | - | - | - | - | - | - | - | - | - | - | 481 |
| PET FOODS | - | - | - | - | - | - | - | - | 94 | - | 250 |
| PKG DAMAGED RICE | - | - | - | - | - | - | - | - | 426 | - | - |
| DAMAGED RICE | - | - | - | - | - | - | - | - | 437 | 385 | 359 |
| RICE HUSK | - | - | - | - | - | - | - | - | - | - | 55 |
| DISCOLOURED RICE | - | - | - | - | - | - | - | - | - | - | 250 |
| EUROPEAN UNION | | | | | | | | | | | |
| CARGO PB BKN | 110 | 110 | 110 | - | - | - | - | - | - | - | - |
| PARB. BKN | 110 | 110 | 110 | 295 | 207 | 207 | 200 | 305 | 345 | - | - |
| REJ. PB RICE | - | - | 158 | - | - | - | - | - | - | - | - |
| CARGO RICE | 240 | 260 | 262 | 600 | 409 | 434 | 510 | 567 | 514 | 466 | 383 |
| CARGO BKN | - | 142 | 148 | 265 | 250 | 265 | 306 | 385 | 298 | 318 | 286 |
| WHITE RICE | - | - | 320 | 530 | 447 | 486 | 485 | - | - | 618 | 377 |
| WHITE BKN | 160 | 160 | 168 | 425 | 241 | 246 | 342 | 332 | 305 | 282 | 265 |
| C.P.B RICE | 244 | 306 | 261 | 480 | 440 | 446 | - | - | - | - | - |

AVERAGE RICE EXPORTS PRICE 2005-2014

Table 46: Average Rice Exports Price 2005-2014 Con't

| REGION | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| PARB. RICE | - | - | 400 | - | 550 | 650 | 764 | - | 809 | 670 | - |
| BRAN | - | - | - | - | - | - | - | - | 99 | 82 | 101 |
| PADDY | - | - | - | - | - | - | - | - | - | - | 281 |
| LATIN AMERICA | | | | | | | | | | | |
| CARGO BKN | - | 110 | - | - | - | - | - | - | - | 240 | - |
| WHITE RICE | 273 | 295 | 308 | 703 | 510 | 700 | 750 | 800 | 634 | 640 | 560 |
| WHITE BKN | 174 | 160 | 166 | 435 | 276 | 246 | - | 463 | 410 | 263 | 260 |
| PARB. RICE | - | - | 373 | - | 590 | 590 | - | - | - | 723 | 638 |
| PADDY | - | - | - | - | 348 | 420 | 470 | 520 | 417 | 470 | 411 |
| PET RICE | - | - | 194 | 600 | - | - | - | - | - | - | - |
| CHIPS | - | - | 190 | - | - | - | - | 565 | - | 280 | 280 |
| CARGO RICE | 233 | 265 | 280 | 510 | 400 | - | - | - | 540 | 260 | 200 |
| PARB PKG RICE | - | - | 462 | - | 681 | 670 | - | - | - | - | 669 |
| PARB RICE FLOUR | - | - | 353 | - | - | - | - | - | - | - | - |
| DIS. WHT RICE | - | - | 230 | - | - | - | - | - | - | - | - |
| WHT RICE FLOUR | - | - | 353 | - | - | - | - | - | - | - | - |
| C.P.B. RICE | - | - | - | 480 | - | - | - | - | - | - | - |
| WHT PKG RICE | - | - | - | - | 502 | - | - | - | - | - | 504 |
| STOCKFEED | - | - | - | - | 320 | - | - | - | - | - | - |
| BRAN | - | - | - | - | 100 | 65 | - | 100 | 88 | 75 | 95 |
| NORTH AMERICA | | | | | | | | | | | |
| CARGO BKN | - | - | - | - | - | - | - | - | - | - | 232 |
| C.P.B RICE | - | - | - | - | - | - | - | - | - | - | 656 |
| WHITE RICE | - | - | - | - | - | - | - | - | - | - | 491 |
| WHITE BKN | - | - | - | - | - | - | - | - | - | - | 304 |
| WHT PKG RICE | - | - | - | - | - | - | - | - | - | - | 458 |
| PARB. RICE | - | - | - | - | - | - | - | - | - | - | 674 |
| CARGO RICE | - | - | - | - | - | - | - | - | - | - | 658 |
| PARB PKG RICE | - | - | - | - | - | - | - | - | - | - | 654 |
| WEST AFRICA | | | | | | | | | | | |
| WHITE RICE | - | - | - | - | - | - | - | - | - | - | 360 |
| | | | | | | | | | | | |

FIRST CROP 2015

Table 47: First Crop 2015

| REGION / ZONE | Hectare | | | | Paddy Production | | Rice Equiv. | Yield | Yield | % |
|-----------------------|---------------|------------------|------------------|------------------|-------------------|----------------|----------------|--------------|------------|--------------|
| | Target | Prepared | Sown | Harvested | Bags | M/T | M/T | (Bags/Ha) | (Tons/Ha) | Harvested |
| REGION 2 | | | | | | | | | | |
| Essequibo | 14,966 | 15,261.50 | 15,261.50 | 15,158.70 | 1,430,284 | 90,853 | 59,054 | 94.4 | 6.0 | 99.3 |
| Sub-Total | 14,966 | 15,261.50 | 15,261.50 | 15,158.70 | 1,430,284 | 90,853 | 59,054 | 94.4 | 6.0 | 99.3 |
| REGION 3 | | | | | | | | | | |
| Wakenaam | 1,306 | 1,342.90 | 1,342.90 | 1,327.10 | 91,275 | 5,798 | 3,769 | 68.8 | 4.4 | 98.8 |
| Leguan | 1,823 | 1,834.40 | 1,834.40 | 1,834.40 | 127,016 | 8,068 | 5,244 | 69.2 | 4.4 | 100.0 |
| Hamburg | 119 | 124.60 | 124.60 | 124.60 | 9,696 | 616 | 400 | 77.8 | 4.9 | 100.0 |
| Hogg Island | 101 | 93.10 | 93.10 | 89.00 | 5,647 | 359 | 233 | 63.4 | 4.0 | 95.6 |
| West Demerara | 5,500 | 5,530.40 | 5,527.50 | 5,527.50 | 465,648 | 29,578 | 19,226 | 84.2 | 5.4 | 100.0 |
| Sub-Total | 8,849 | 8,925.40 | 8,922.50 | 8,902.60 | 699,282.00 | 44,419 | 28,872 | 78.5 | 5.0 | 99.8 |
| REGION 4 | | | | | | | | | | |
| Baiboo/ Cane Grove | 2,486 | 2,527.10 | 2,503.60 | 2,503.60 | 278,280 | 17,677 | 11,490 | 111.2 | 7.1 | 100.0 |
| Golden Grove/ Mahaica | 1,045 | 1,041.20 | 1,041.20 | 1,040.80 | 113,124 | 7,186 | 4,671 | 108.7 | 6.9 | 100.0 |
| Sub-Total | 3,531 | 3,568.30 | 3,544.80 | 3,544.40 | 391,404 | 24,862 | 16,161 | 110.4 | 7.0 | 100.0 |
| REGION 5 | | | | | | | | | | |
| Mahaica/ Mahaicony | 13,178 | 12,429.10 | 11,836.40 | 11,769.20 | 1,104,660 | 70,169 | 45,610 | 93.9 | 6.0 | 99.4 |
| Mahaicony/ Abary | 10,210 | 12,091.40 | 11,910.00 | 11,823.80 | 1,051,380 | 66,785 | 43,410 | 88.9 | 5.6 | 99.3 |
| West Berbice | 19,061 | 19,646.30 | 19,646.30 | 19,598.30 | 1,754,724.5 | 111,462 | 72,450 | 89.5 | 5.7 | 99.8 |
| Sub Total | 42,449 | 44,166.80 | 43,392.70 | 43,191.30 | 3,910,765 | 248,415 | 161,470 | 90.5 | 5.8 | 99.5 |
| REGION 6 | | | | | | | | | | |
| Frontlands | 16,768 | 17,267.00 | 17,712.50 | 17,684.20 | 1,528,800 | 97,111 | 63,122 | 86.5 | 5.5 | 99.8 |
| Black Bush Polder | 8,166 | 8,166.00 | 8,166.00 | 8,165.90 | 766,460 | 48,686 | 31,646 | 93.9 | 6.0 | 100.0 |
| Sub-Total | 24,934 | 25,433.00 | 25,878.50 | 25,850.10 | 2,295,260 | 145,797 | 94,768 | 88.8 | 5.6 | 99.9 |
| REGION 9 | | | | | | | | | | |
| Santa Fe | 400 | 628.3 | 628.3 | 628 | 93,120 | 5,915 | 3,845 | 148.3 | 9.4 | 100.0 |
| Lethem | 8.1 | 0 | 0.00 | - | - | 0 | 0 | 0 | 0 | 0 |
| Sub Total | 408.1 | 628.3 | 628.30 | 628.00 | 93120.00 | 5915.06 | 3844.79 | 148.3 | 9.4 | 100.0 |
| Total | 95,137 | 97,983 | 97,628 | 97,275.10 | 8,820,115 | 560,261 | 364,170 | 90.7 | 5.8 | 99.6 |

SECOND CROP 2015

Table 48: Second Crop 2015

| REGION / ZONE | Hectare | | | | Paddy Production | | Rice Equiv. | Yield | Yield | % |
|----------------------|------------------|------------------|------------------|------------------|-------------------|----------------|----------------|--------------|------------|--------------|
| | Target | Prepared | Sown | Harvested | Bags | M/T | M/T | (Bags/Ha) | (Tons/Ha) | Harvested |
| REGION 2 | | | | | | | | | | |
| Essequibo | 15,331.10 | 15,296.70 | 15,296.70 | 15,296.70 | 1,269,509 | 80,640 | 52,416 | 83.0 | 5.3 | 100.0 |
| Sub-Total | 15,331.10 | 15,296.70 | 15,296.70 | 15,296.70 | 1,269,509 | 80,640 | 52,416 | 83.0 | 5.3 | 100.0 |
| REGION 3 | | | | | | | | | | |
| Wakenaam | 1,342.90 | 1,127.90 | 1,127.90 | 1,127.90 | 79,628 | 5,058 | 3,288 | 70.6 | 4.5 | 100.0 |
| Leguan | 1,834.40 | 1,850.20 | 1,850.20 | 1,850.20 | 137,100 | 8,709 | 5,661 | 74.1 | 4.7 | 100.0 |
| Hamburg | 124.60 | 124.70 | 124.70 | 124.60 | 10,164 | 646 | 420 | 81.6 | 5.2 | 99.9 |
| Hogg Island | 93.10 | 30.40 | 30.40 | 30.26 | 1,500 | 95 | 62 | 49.6 | 3.1 | 99.5 |
| West Demerara | 5,527.50 | 5,506.00 | 5,506.00 | 5,506.00 | 432,140 | 27,450 | 17,842 | 78.5 | 5.0 | 100.0 |
| Sub-Total | 8,922.50 | 8,639.20 | 8,639.20 | 8,638.96 | 660,532.00 | 41,958 | 27,272 | 76.5 | 4.9 | 100.0 |
| REGION 4 | | | | | | | | | | |
| Baiboo/Cane Grove | 2,503.60 | 2,540.50 | 2,429.20 | 2415.7 | 232713 | 14,782 | 9,608 | 96.3 | 6.1 | 99.4 |
| Golden Grove/Mahaica | 1,041.20 | 1,068.80 | 1,068.80 | 1060.7 | 100870 | 6,407 | 4,165 | 95.1 | 6.0 | 99.2 |
| Sub-Total | 3,544.80 | 3,609.30 | 3,498.00 | 3,476.40 | 333,583 | 21,189 | 13,773 | 96.0 | 6.1 | 99.4 |
| REGION 5 | | | | | | | | | | |
| Mahaica/Mahaicony | 11,836.40 | 12,194.30 | 10,704.40 | 10684.5 | 895840 | 56,905 | 36,988 | 83.8 | 5.3 | 99.8 |
| Mahaicony/Abary | 11,910.00 | 11,510.00 | 11,491.00 | 11483.6 | 959020 | 60,918 | 39,597 | 83.5 | 5.3 | 99.9 |
| West Berbice | 19,646.30 | 20,000.00 | 19,510.50 | 19,476.10 | 1,649,964.0 | 104,807 | 68,125 | 84.7 | 5.4 | 99.8 |
| Sub Total | 43,392.70 | 43,704.30 | 41,705.90 | 41,644.20 | 3,504,824 | 222,629 | 144,709 | 84.2 | 5.3 | 99.9 |
| REGION 6 | | | | | | | | | | |
| Frontlands | 17,712.50 | 16,000.00 | 16251.8 | 16,251.80 | 1,367,038 | 86,835 | 56,443 | 84.1 | 5.3 | 100.0 |
| Black Bush Polder | 8,166.00 | 8,153.80 | 8153.8 | 8,153.80 | 694,830 | 44,136 | 28,689 | 85.2 | 5.4 | 100.0 |
| Sub-Total | 25,878.50 | 24,153.80 | 24,405.60 | 24,405.60 | 2,061,868 | 130,972 | 85,132 | 84.5 | 5.4 | 100.0 |
| REGION 9 | | | | | | | | | | |
| Santa Fe | 628.3 | 80.9 | 52.6 | 52.6 | 7,540 | 479 | 311 | 143.3 | 9.1 | 100.0 |
| Lethem | 0.00 | | | - | - | 0 | 0 | 0 | 0 | 0 |
| Sub Total | 628.30 | 80.9 | 52.60 | 52.60 | 7540.00 | 478.95 | 311.32 | 143.3 | 9.1 | 100.0 |
| Total | 97,698 | 95,484 | 93,598 | 93,514.46 | 7,837,856 | 497,867 | 323,614 | 83.8 | 5.3 | 99.9 |

HARVESTING PRODUCTION 2015

Table 49: Harvesting Production 2015

| REGION / ZONE | Hectare | | | | Paddy Production | | Rice Equiv. | Yield | Yield | % |
|-----------------------|----------------|------------------|------------------|-------------------|---------------------|------------------|----------------|--------------|------------|--------------|
| | Target | Prepared | Sown | Harvested | Bags | M/T | M/T | (Bags/Ha) | (Tons/Ha) | Harvested |
| REGION 2 | | | | | | | | | | |
| Essequibo | 30,297 | 30,558 | 30,558 | 30,455 | 2,699,793 | 171,493 | 111,471 | 88.6 | 5.6 | 99.7 |
| Sub-Total | 30,297 | 30,558.20 | 30,558.20 | 30,455.40 | 2,699,793 | 171,493 | 111,471 | 88.6 | 5.6 | 99.7 |
| REGION 3 | | | | | | | | | | |
| Wakenaam | 2,649 | 2,471 | 2,471 | 2,455 | 170,903 | 10,856 | 7,056 | 69.6 | 4.4 | 99.4 |
| Leguan | 3,657 | 3,685 | 3,685 | 3,685 | 264,116 | 16,777 | 10,905 | 71.7 | 4.6 | 100.0 |
| Hamburg | 244 | 249 | 249 | 249 | 19,860 | 1,262 | 820 | 79.7 | 5.1 | 100.0 |
| Hogg Island | 194 | 124 | 124 | 119 | 7,147 | 454 | 295 | 59.9 | 3.8 | 96.6 |
| West Demerara | 11,028 | 11,036 | 11,034 | 11,034 | 897,788 | 57,028 | 37,068 | 81.4 | 5.2 | 100.0 |
| Sub-Total | 17,772 | 17,564.60 | 17,561.70 | 17,541.56 | 1,359,814.00 | 86,377 | 56,145 | 77.5 | 4.9 | 99.9 |
| REGION 4 | | | | | | | | | | |
| Baiboo/ Cane Grove | 4,990 | 5,068 | 4,933 | 4,919 | 510,993 | 32,459 | 21,098 | 103.9 | 6.6 | 99.7 |
| Golden Grove/ Mahaica | 2,086 | 2,110 | 2,110 | 2,102 | 213,994 | 13,593 | 8,836 | 101.8 | 6.5 | 99.6 |
| Sub-Total | 7,076 | 7,177.60 | 7,042.80 | 7,020.80 | 724,987 | 46,052 | 29,934 | 103.3 | 6.6 | 99.7 |
| REGION 5 | | | | | | | | | | |
| Mahaica/ Mahaicony | 25,014 | 24,623 | 22,541 | 22,454 | 2,000,500 | 127,074 | 82,598 | 89.1 | 5.7 | 99.6 |
| Mahaicony/ Abary | 22,120 | 23,601 | 23,401 | 23,307 | 2,010,400 | 127,702 | 83,007 | 86.3 | 5.5 | 99.6 |
| West Berbice | 38,707 | 39,646 | 39,157 | 39,074 | 3,404,689 | 216,269 | 140,575 | 87.1 | 5.5 | 99.8 |
| Sub Total | 85,842 | 87,871.10 | 85,098.60 | 84,835.50 | 7,415,589 | 471,045 | 306,179 | 87.4 | 5.6 | 99.7 |
| REGION 6 | | | | | | | | | | |
| Frontlands | 34,481 | 33,267 | 33,964 | 33,936 | 2,895,838 | 183,946 | 119,565 | 85.3 | 5.4 | 99.9 |
| Black Bush Polder | 16,332 | 16,320 | 16,320 | 16,320 | 1,461,290 | 92,822 | 60,335 | 89.5 | 5.7 | 100.0 |
| Sub-Total | 50,813 | 49,586.80 | 50,284.10 | 50,255.70 | 4,357,128 | 276,769 | 179,900 | 86.7 | 5.5 | 99.9 |
| REGION 9 | | | | | | | | | | |
| Santa Fe | 1028.3 | 709.2 | 680.9 | 680.6 | 100660 | 6,394 | 4,156 | 147.9 | 9.4 | 100.0 |
| Lethem | 8.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub Total | 1036.4 | 709.2 | 680.90 | 680.60 | 100660.00 | 6394.01 | 4156.11 | 147.9 | 9.4 | 100.0 |
| Total | 192,835 | 193,468 | 191,226 | 190,789.56 | 16,657,971 | 1,058,129 | 687,784 | 87.3 | 5.5 | 99.8 |

PADDY PRICES 2002-2015

Table 50: Paddy Prices 2002-2015

| Year | First Crop | | | | | Second Crop | | | | |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Extra A | A | B | C | Substandard | Extra A | A | B | C | Substandard |
| 2000 | 1,300 | 1,250 | 1,200 | 1,150 | 900/1,000 | 1,300 | 1,250 | 1,200 | 1,150 | 900/100 |
| 2001 | 1,300 | 1,200 | 1,100 | 1,000 | 600/900 | 1,300 | 1,200 | 1,100 | 1,000 | 900 |
| 2002 | 1,400 | 1,300 | 1,300 | 1,200 | 1,000 | 1,400 | 1,300 | 1,300 | 1,300 | 1,000 |
| 2003 | 1,350 | 1,300 | 1,200 | 1,100 | 900 | 1,400 | 1,350 | 1,350 | 1,350 | 600/1,000 |
| 2004 | 1,400 | 1,350 | 1,350 | 1,350 | 600/1,000 | 1,500 | 1,500 | 1,500 | 1,500 | 600/1,000 |
| 2005 | | 1,500 | 1,500 | 1,500 | 1000 | | 1,700 | 1,700 | 1,700 | 1,000 |
| 2006 | 2,000 | 1,800 | 1,750 | 1,600 | 1,000/1,400 | 1,800 | 1,700 | 1,600 | 1,500 | 1,000/1,400 |
| 2007 | 1,900 | 1,800 | 1,750 | 1,700 | 1,000/1,500 | 2,300 | 2,100 | 2,100 | 2,100 | 1,500/1,700 |
| 2008 | 5,500 | 5,000 | 4,000 | 4,000 | 3,000/4,000 | 4,500 | 4,000 | 4,000 | 4,000 | 3,000/4,000 |
| 2009 | 3,000-5,000 | 3,000-5,000 | 3,000-5,000 | 3,000-5,000 | 2000 | 2,200-2,500 | 2,200-2,500 | 2,200-2,500 | 2,200-2,500 | 1200 |
| 2010 | 3,100-3,500 | 3,000-3,500 | 3,200-3,600 | 3,100-3,600 | 2,700/3,500 | 2,500-3,500 | 2,400-3,500 | 2,300-3,500 | 2,200-3,300 | 2,000/2,900 |
| 2011 | 3,900-4,400 | 3,800-4,300 | 3,600-4,200 | 3,500-4,000 | 3,400-3,800 | 4,100-4,700 | 4,100-4,400 | 3,800-4,486 | 3,600-4,421 | 3,500/4,000 |
| 2012 | 4,200-4,500 | 4,000-4,200 | 3,900-4,000 | 3,800-3,900 | 3,400-3,800 | 4,100-4,300 | 4,000-4,200 | 3,800-4,000 | 3,700-3,800 | 3,600-3,800 |
| 2013 | 3,600-4000 | 3,576-3,900 | 3,511-3,800 | 3,446-3,800 | 2,500 | 3,511-4,100 | 3,446-4,000 | 3,446-3,900 | 3,446-3,800 | 3,000 |
| 2014 | 3,300-3,425 | 3,175-3,300 | 3,050-3,175 | 2,925-3050 | 2,775-2,925 | 3,125-3,225 | 2,931-3,125 | 2,850-2,931 | 2,732-2850 | 2,575-2,732 |
| 2015 | 2,500-3,300 | 2,400-3,200 | 2,400-3,000 | 2,200-3,000 | 2,000-2,800 | 1,600-2,400 | 1,500-2,300 | 1,500-2,200 | 1,500-2,100 | 1,500-2,000 |
| | | | | | | | | | | |



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