75th

Annual Report

of the

Coconut Industry Board

for year ended December 31, 2016

MISSION

To promote the interest of the Jamaican coconut industry and its stakeholders, by encouraging and facilitating the efficient production of coconuts, providing ongoing research support, developing marketing opportunities, locally and globally, and administering regulations for the purchase, sale, exportation and importation of coconut products and substitutes, in order to develop a profitable and sustainable industry.

VISION

To lead, facilitate and co-ordinate a vibrant and efficient coconut industry which will improve the socio-economic conditions of the coconut growers, processors, traders and other stakeholders who rely on the crop for a livelihood.

Presented to
The Minister of Industry, Commerce, Agriculture and Fisheries
in pursuance of Section 27(1)
of the Coconut Industry Control Act

COMPOSITION OF BOARD FOR YEAR 2016

MEMBERS

Nominated: From 1/1/2016 - 31/3/2016

Mr. L. S. Green - Chairman

Mrs. S. Gayle Morris Mr. J. S. Joyles Prof. W. McLaughlin

Effective 31/3/2016

Mr. C. Gentles - Chairman

Mr. H. Davis Dr. C. Douglas Mr. H. Gentles

Elected: Mr. S. Black

Mrs. S. Ennis Mr. G. E. Marsh

Hon. F. M. Phipps, Q.C., O.J. Hon. A. A. Pottinger, C.D.

OFFICERS

General Manager: Miss Y. E. Burns

Corporate Secretary: Mrs. A. J. Chung-Campbell

Bankers: National Commercial Bank Jamaica Limited

Auditors: PriceWaterhouseCoopers

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THE COCONUT INDUSTRY BOARD

INTRODUCTION

The Coconut Industry Board was established under the Coconut Industry Control Act, Cap. 62, enacted in 1945 and consists of nine members, four of whom including the Chairman, are appointed by the Minister of Agriculture and Fisheries. The remaining five are elected by registered coconut growers and must themselves be registered coconut growers or the attorneys for such registered coconut growers or the managing directors or managers of companies which are registered coconut growers.

The Board promotes the interests and efficiency of the coconut industry, encourages the production of coconuts and regulates the purchase, sale and exportation of coconuts as well as the importation of coconut products and substitutes.

Allied functions are:

- (a) Keeping Government informed on the state of the industry and advising Government when any action is necessary.
- (b) Arranging for the issuing of licences to manufacturers of coconut products.
- (c) Arranging insurance of coconut trees against damage by windstorm.
- (d) Assisting growers to market their crop.
- (e) Carrying out research on the agricultural problems of the industry and advising growers on their agricultural problems.

The industry offers a wide range of employment for technical and skilled personnel.

THE COCONUT INDUSTRY BOARD CALENDAR YEAR 2016

BOARD MEMBERSHIP

On March 31, 2016, the Minister of Industry, Commerce, Agriculture and Fisheries accepted the resignations of nominated members Mr. L. S. Green, Mr. J. S. Joyles, Prof. W. McLaughlin and Mrs. S. Gayle Morris.

The Minister appointed Messrs. Christopher Gentles – Chairman, Hugh Gentles, Homer Davis and Dr. Charles Douglas for the period March 31, 2016 to March 30, 2019.

There were two vacancies among the elected members of the Board in Year 2016, as Mr. Stephen Black of St. Thomas and the Hon. Frank M. Phipps, Q.C., O.J., of St. Mary, the growers' representatives, who automatically retired, were re-elected unopposed.

There were 31 Board and Committee meetings during the year and attendance of members was as follows:

ATTENDANCE

| | Possible | A | Actual | |
|-------------------------------|----------|--------------|-----------|---------------|
| | | Board | Committee | |
| Mr. L. S. Green | 9 | 4 | 4 | 1 |
| Mr. S. Black | 23 | 15 | 6 | 2 |
| Mr. J. S. Joyles | 6 | 4 | 1 | 1 |
| Mr. G. E. Marsh | 31 | 21 | 10 | |
| Prof. W. McLaughlin | 6 | 5 | 1 | - |
| Hon. F. M. Phipps, Q.C., O.J. | 28 | 21 | 6 | 1 |
| Hon. A. A. Pottinger, C.D. | 26 | 21 | 4 | 1 |
| Mrs. S. Ennis | 25 | 20 | 3 | 2 |
| Mrs. S. Gayle Morris | 5 | 4 | - | 1 |
| Mr. C. Gentles | 29 | 12 | 16 | 1 |
| Mr. H. Davis | 14 | 8 | 5 | 1 |
| Dr. C. Douglas | 16 | 11 | 5 | (7 4) |
| Mr. H. Gentles | 15 | 9 | 5 | 1 |
| | | | | |

2. PROFILE OF THE LOCAL COCONUT INDUSTRY

The number of hectares in coconuts at 31 December, 2016 was calculated as 16,077 (31/12/15 - 15,989); the number of hectares in bearing coconuts at the same date was calculated as 14,892 (31/12/15 - 14,287).

At 31 December 2016, the total population of coconut trees was calculated as 3,568,760 (31/12/15 - 3,549,588). Of this number 3,309,930 were seven years old and over (31/12/15 - 3,254,258) and should have been in full bearing, but due to weather conditions and faulty agronomic practices, some of the plants were not bearing.

The number of farmers registered with the Board was as follows:

| <u>Year</u> | No. of Farmers |
|-------------|----------------|
| 2016 | 664 |
| 2015 | 697 |
| 2014 | 780 |
| 2013 | 891 |
| 2012 | 832 |

The majority of coconut farms was smaller than 10 hectares; coconut is essentially a small holder's crop.

3. PRODUCTION AND DISPOSAL

(i) <u>Production</u>

Coconut production during the year was calculated as 100.1 million nuts (Year 2015 adjusted due to drought conditions – 99.2 million nuts). The value of the Year 2016 production at the average price paid by the Board for Maypan and Malayan Dwarf jelly coconuts during the year, (\$47.00 per nut) was \$4.71 billion.

Coconut production during the year was again adversely affected by lack of fertilizer, improper agronomic practices and additional deaths of bearing coconut trees from lethal yellowing and other diseases.

(ii) <u>Disposal</u>

The major portion of the Year 2016 production was disposed of through bottlers of jelly coconut water, the Coconut Industry Board, higglers, producers of coconut oil and supermarkets.

The portion of the crop which was disposed of to and through the channels of the Board during Year 2016 and the four preceding years, was as follows:

| | 77 | N | U | T | S | |
|---------------|-----------------------------|--------------|--------------|--------------|--------------|----------------------|
| | <u>2016</u> ' <u>000</u> | 2015 '000 | 2014 '000 | 2013 '000 | 2012 '000 | <u>TOTAL</u> '000 |
| St. Andrew | 1 | 1 | 4 | 12 | | 18 |
| St. Elizabeth | 136 | 103 | 105 | 113 | 191 | 648 |
| St. Thomas | 45 | 137 | 121 | 77 | 125 | 505 |
| Portland | 56 | 54 | 68 | 73 | 90 | 341 |
| St. Mary | 456 | 651 | 874 | 852 | 717 | 3,550 |
| St. Catherine | 322 | 135 | 49 | | 6 | 512 |
| | 1,016 | 1,081 | 1,221 | 1,127 | 1,129 | 5,574 |

4. THE COCONUT SHOP

The Board purchased 848,548 coconuts at a cost of \$41,219,069 during the year (852,896 at a cost of \$34,574,142 in Year 2015), for sale in its Coconut Shop at 18 Waterloo Road, Kingston 10.

This shop continued to be a significant market for the purchase/sale of growers' coconuts.

EXPORT

During the year, the Board exported seed coconuts to Florida in the United States of America.

The total number of seed coconuts exported during Year 2016 was 33,000 at a F.O.B. value of US\$108,500.

Export of seed coconuts during the five years ended 31 December, 2016, was as follows:

| Year | Number Exported | F.O.B. Value (US\$) | |
|------|--------------------|------------------------|--|
| 2016 | 33,000 | 108,500 | |
| 2015 | 47,850 | 149,100 | |
| 2014 | 52,200 | 169,050 | |
| 2013 | 21,000 | 64,600 | |
| 2012 | 30,000 | 95,500 | |
| | 184.050 | 586,750 | |

6. DISTRIBUTION OF SEEDLINGS

Distribution of coconut seedlings was as follows:

| | <u>2016</u> | <u>2015</u> |
|---|-------------|-------------|
| Old Planting Programme | 18,029 | 29,524 |
| New Planting Programme | 15,113 | 20,774 |
| Sales | 2,422 | 3,530 |
| Donations and Field Experiments | 946 | 1,844 |
| Replanting - the Board's Seed Gardens | - | 394 |
| Agricultural Shows | 375 | 530 |
| Lethal Yellowing Tree Felling Programme | 30 | 102 |
| and the state of the | 36,915 | 56,698 |

The Board discontinued emasculation and pollination activities at its Esher Seed Garden to produce adequate Malayan Dwarf seedlings for its growers.

At the Board's hybrid seed garden in Barton Isles, St. Elizabeth, a total of 164,770 seednuts was produced in Year 2016 (Year 2015 -121,160).

In addition, the Board continued to encourage farmers to plant coconut seedlings under the two planting programmes. Under the Old Planting Programme, weed control grant and fertilizer for 80% of the seedlings planted, the percentage which is expected to survive, are given free of cost to qualified farmers.

The old programme covers St. Thomas, Portland, St. Mary, St. Ann and St. Catherine, the traditional coconut growing areas.

Planting under the New Planting Programme which covers the non-traditional coconut growing areas, the western region of the island, also continued during the year.

To qualify under the programmes, a farmer must be registered with the Board and must have land which can accommodate at least 125 coconut seedlings. The demand for seedlings exceeded the supply in Year 2016.

A total of 33,142 coconut seedlings at a cost of \$9.5M, fertilizer and weed grant valued at \$3.8M were distributed to coconut farmers under the two planting programmes.

7. WINDSTORM INSURANCE FUND

(i) Liability

The Fund continued to indemnify coconut growers against loss of bearing coconut trees to windstorm.

The liability for windstorm insurance damage during Year 2016 was \$73,284,347 (Year 2015 - \$71,056,179); the maximum coverage per tree remained at \$1,000.

The finances of the Windstorm Insurance Fund are kept separately from the funds of the Board and are treated as Trustee Funds.

(ii) Automatic Insurance and Voting Rights

Coconut growers are again being reminded that they can earn automatic insurance and voting rights for the election of Board members, on coconuts sold to the Coconut Industry Board and licensed coconut dealers, including bottlers of coconut water, provided the sales are reported to the Board. We are reminding coconut growers that it is in their interest to ensure that all coconuts sold by them to the other entities, are reported to the Board.

Automatic insurance is earned at the rate of J\$65 for each 110 dry or jelly coconuts sold to the entities mentioned above.

(iii) Contractual Insurance

Registered coconut growers can purchase contractual insurance from the Board for their properties whether or not they supply coconuts to the Board or to licensed coconut dealers.

This information is always given during the Annual Meeting of Coconut Growers and in spite of this, growers continue to express dissatisfaction after a hurricane, if they do not receive benefits.

An appeal is again being made to coconut growers to make provision for insuring their coconut trees against windstorm damage, from the sale of coconuts, either by purchasing insurance or by selling their coconuts to licensed coconut dealers or the Board to earn automatic insurance. However, the amount of insurance coverage a grower is likely to earn by way of automatic insurance alone, will never be adequate.

RESEARCH

The Research Department continues to work towards maintenance and improvement of the coconut industry in Jamaica, through constant monitoring and review of prevailing cultural practices, available germplasm and disease control interventions.

Botany/Plant Breeding

The Botanist/Plant Breeder continued the search for high yielding, disease resistant varieties of coconut during Year 2016.

The following activities continued during the year:

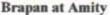
(a) Monitoring of the Brazil Green Dwarf and its Hybrids (Brapan and Maybraz) for their potential to increase Local Coconut Production: Fruit and Bunch Return data were collected during the year, in order to compare the newer hybrids with the Maypan. Table 1 shows the details.

Table 1 Fruit & Bunch Return at New Hybrid Experiments Mean Nuts/Bunch

| Variety | Amity | Holland | |
|---|-------|---------|--|
| Brazil Green Dwarf. x Panama Tall 1 | 13.2 | 10.3 | |
| Malayan Yellow Dwarf x Brazil Green Dwarf 2 | 10.9 | 10.8 | |
| Malayan Green Dwarf x Panama Tall 3 | 9.1 | 9.1 | |

Figure 1 Pictorial Representation of Hybrids at Amity New Hybrid Experiment







Maypan at Amity

¹ Brapan

² Maybraz

³ Maypan



Maybraz at Amity

(b) Monitoring of the Brazil Green Dwarf and Fifteen other Varieties introduced from the Ivory Coast, Africa, in 2009 for their potential to Local Coconut Production: Seven thousand five hundred (7,500) seednuts were received from the genebank in the Ivory Coast in 2009. These were planted in three variety collections and have since come into bearing. A total of 615 seednuts has been reaped to date from nine (9) of the fifteen (15) varieties and set in local nurseries, in order to increase the respective local populations. Of these, 210 seedlings were obtained and set in one Observation Plot so far.

| | | Plantain Garden | | |
|------------------------|--------|-----------------|-------------------|------------------------|
| Variety | Symbol | Number Alive | Number Planted | Percentage Survival |
| Aromatic Green Dwarf | AROD | 21 | 30 | 70.0 |
| Bay Bay Tall | BAYT | 27 | 27 | 100.0 |
| Brazil Green Dwarf | BGD | 33 | 46 | 71.7 |
| Catigan Green Dwarf | CATD | 28 | 28 | 100.0 |
| Gazelle Peninsula Tall | GPT | 14 | 27 | 51.9 |
| Kinabalan Green Dwarf | KIND | 24 | 31 | 77.4 |
| Laccadives Micro Tall | LMT | 18 | 26 | 69.2 |
| Palu Tall | PUT | 3 | 15 | 20.0 |
| Philipog Green Dwarf | PILD | 11 | 31 | 35.4 |
| Tacunan Green Dwarf | TACD | 21 | 23 | 91.3 |
| Tagnanan Tall | TAGT | 12 | 26 | 46.2 |
| Tahitian Red Dwarf | TRD | 25 | 26 | 96.2 |
| Tenga Tall | TGT | 17 | 24 | 70.8 |
| Ternate Brown Dwarf | TBD | 20 | 26 | 76.9 |
| Thailand Green Dwarf | THD | 29 | 32 | 90.6 |
| Overall | | 303 | 418 | 72.5 |

(c) Monitoring of the Varieties introduced from the Ivory Coast, Africa in 2012 for their potential to Local Coconut Production: In 2012, a total of two thousand (2,000) seednuts representing three varieties was imported from the genebank at the National Centre for Scientific Research (CNRA) (Station Marc Delorme) in Ivory Coast, Africa. The consignment comprised five hundred (500) seednuts each of the Tagnanan Tall and Madang Brown Dwarf (first time introductions) as well as one thousand (1,000) seednuts of the Malayan Red Dwarf. Funding for this exercise was provided under the Common Fund for Commodities (CFC) Project. A total of 361 seedlings was obtained (246 Tagnanan Tall, 61 Madang Brown Dwarf and 54 Malayan Red Dwarf) and these were planted at Plantain Garden and Spring Garden Field Stations. Immature Vegetative Data were collected, as displayed in Table 3.

Table 3 Immature Vegetative Data for IC 2012 Plots at Plantain Garden & Spring Garden

| | Variety | Symbol | Number Alive | Plant Height (cm) | Mean Girth Above Soil Level (cm) | Mean Number of Leaves |
|-----------------------|-----------------------|--------|-----------------|------------------------|---|-----------------------------|
| A. Plantain Garden | Tagnanan Tall | TAGT | 56 | 199 [Range 70-317] | 45 [Range 27-99] | 7 [Range 3-12] |
| | Madang Brown Dwarf | MBD | 12 | 184 [Range 137-302] | 41 [Range 23-87] | 7 [Range 4-12] |
| В. | | | | 382 | 57 | 8 |
| Spring Garden | Tagnanan Tall | TAGT | 19 | [Range 78-600] | [Range 10-114] | [Range 3-11] |
| | Malayan Red Dwarf | MRD | 5 | 350 [Range 299-423] | 69 [Range 30-91] | 11 [Range 10- 12] |

(d) <u>Introduced Varieties not previously tested in Jamaica</u>: The Board received 101 coconut seeds of a Tall variety as a gift from the Government of Thailand. These seeds were set at Barton Isles, St. Elizabeth, of which 73 germinated. These were planted in three field genebanks in order to assess their resistance/susceptibility to lethal yellowing disease, and a few were planted at the Hope Botanical Gardens in St. Andrew.

Immature Vegetative Data were collected on seedlings planted at all five locations. The results are illustrated in the following Table 4.

Table 4 Immature Vegetative Data for Thailand Tall Seedlings Planted at all Sites

| Location | No. Planted | No. Alive | Mean Plant Height (cm) | Mean Girth at Soil Level (cm) | Mean No. of Leaves |
|---|----------------|--------------|---------------------------|-------------------------------------|-----------------------|
| Hope Royal Botanic Gardens, St. Andrew | 10 | 6 | 173 [Range 55-258] | 26 [Range 12-49] | 6 [Range 3-8] |
| Esher Seed Garden, St. Mary | 10 | 6 | 243 [Range 152-366] | 46 [Range 28-76] | 9 [Range 8-11] |
| Spring Garden Field Station, Portland | 20 | 15 | 270 [Range 98-382] | 34 [Range 10-53] | 7 [Range 4-9] |
| Holding of Fettig at Wilmington, St. Thomas | 20 | 13 | 175 [Range 144-221] | 52 [Range 29-68] | 6 [Range 4-9] |
| Holding of Parker at Brompton, St. Elizabeth | 10 | 9 | 169 [Range 102-315] | 35 [Range 18-64] | 5 [Range 4-9] |
| OVERALL | 70 | 49 | 206 [Range 55-382] | 39 [Range 10-76] | 7 [Range 3-9] |

- (e) Replication of Coconut Germplasm at the Field Genebank in Plantain Garden, St. Thomas: The coconut is described as a recalcitrant crop, meaning that the seednuts cannot be held for long periods of time without germination. Germplasm conservation is best carried out therefore in field genebanks, which need to be renewed by replication at intervals of about fifteen to twenty years. This was last carried out in the mid-nineties at the (now defunct) Field Genebank at Fair Prospect, with the progeny planted at Plantain Garden. Replication at Plantain Garden is now due, especially with the threat of lethal yellowing disease at this site. This exercise has commenced, with sib-pollination of the tall varieties and self-pollination of the dwarf varieties. A number of new field genebanks will be established from the progeny obtained.
- (f) <u>Assessment of Seednut and Seedling Production in the Board's Nurseries</u>: In 2016 a total of 151,340 seednuts was set in the nurseries and a total of 37,248 seedlings was obtained.

PINK COCONUT WATER - AMELIORATION OF ITS OCCURRENCE

Background

The appearance of pink coloration in coconut water sold by the Board at the Coconut Shop has been a problem since last year. Literature research was conducted in order to give insight into the factors contributing to its occurrence and their elimination [Fig. 2].

The decision was taken to eliminate from the collection pool those varieties having a high concentration of polyphenol oxidase (PPO). Investigation led to the identification of cultivars with pink husks in the tender nut as prime candidates.

Experiment conducted

Coconut water from palms bearing nuts with pink colour in the husks of the tender nuts was tested for likelihood of pink coloration upon storage. Tender nuts from bunches seven and eight from a total of eight palms with this feature and three palms without were sampled. Coconut water samples were also collected from bunch nine on three palms with this feature and one palm without. All samples were frozen, thawed and held in the refrigerator for at least three days. The colour of the water was observed. Tender nuts from bunch nine⁴ from three palms with this feature and one palm without were also sampled. All samples were frozen, thawed and held in the refrigerator for at least three days. No pink coloration was observed on any of the 35 samples tested. The experiment continues.

Anecdotal evidence suggests that the coloration only occurs when water from both types of coconut are mixed, rather than kept separate. This hypothesis is the next to be tested. In the meanwhile, efforts have been made to exclude the coconuts having pink husks from coconut water processing, and this has resulted in significant decline in reports of pink coconut water.

⁴ These are the coconuts from which water is usually extracted. They were selected from the heap of coconuts brought to the jelly house for processing.

Figure 2 Literature regarding Pink Coconut Water

Cord 2007, 23 (2)67

Control of pink discoloration in coconut water

B. Garcia1, D. B. Masa2, M.J. Rodriguez3 and R. Rolle4

Abstract

The pink discoloration in coconut water is a result of the initial enzymatic action of polyphenol oxidase (PPO) on the phenolic substrates which are naturally present in the product. Activity of the enzyme is further enhanced by metal contamination such as copper and exposure of the product to high temperature during its processing and storage.

The optimum copper concentration to initiate pinking in coconut water was established at 3.96 x 10-04 mM. The PPO level was also shown to vary among coconut varieties and ages. When subjected to optimum conditions for enzymatic activity, the water from younger nuts (7-8 months old) went pink while mature nuts (9-10 months old) showed no discoloration. Application of food-grade resins to remove the phenolic substrates in coconut water was deemed as a possible solution to prevent the discoloration. Further testing in this area needs to be done.

Key words: Coconut water, Discoloration, Polyphenol oxidase.

- 1 Science Research Specialist, Product Development Department, Philippine Coconut Authority, Diliman, Quezon City, Philippines
- 2 Department Manager II, Product Development Department, Philippine Coconut Authority, Diliman, Quezon City, Philippines, dina_masa04@yahoo.com
- 3 Division Chief III, Virology-Biochemistry Division, Albay Research Center, Philippine Coconut Authority, Guinobatan, Albay, Philippines
- 4 Agricultural and Food Engineering Technologies Service, Food and Agriculture Organization

Plant Pathology and Molecular Biology

<u>Lethal Yellowing Disease</u>: Lethal yellowing (LY) continues to be a devastating disease that affects coconut and more than 35 other palm species in the Americas. In Jamaica, LY disease remains active in the major coconut growing areas and continues to threaten the viability of the local coconut industry. The disease is destroying varieties and hybrids grown locally.

To date, lethal yellowing has destroyed millions of coconut palms in the Caribbean and Latin America. Many varieties and hybrids are susceptible to the disease. Research efforts focus on assessing the only resistant group of plants called 'Special' Malayan Dwarf Yellows. The disease is destroying trees in some areas in east Portland and efforts have been made to curtail the spread of the disease.

Achievements (2016)

Research and experience over the years have taught us how the disease can be reduced in affected areas. Reduction of the disease in these areas increases the income to the small coconut grower and provides incentive for expanding the coconut population. The planting scheme used by the growers will minimize or increase diseased trees in the lethal yellowing affected areas.

- LY management strategies to reduce spread of the disease were promoted. These
 are:
 - Planting several varieties and hybrids in one place (Figure 1)
 - · Removal of infected trees immediately
 - · Replacement of infected trees immediately
 - Removal of alternate/alternative hosts
 - Planting other susceptible palms as indicator plants in fields and around the boundary of fields

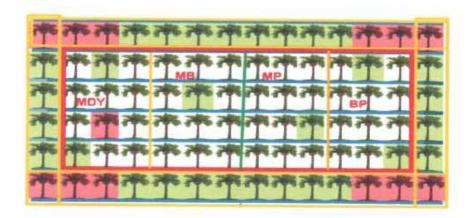


Figure 1 Multivarietal plantings with MDY (Malayan Dwarf Yellow), MB (Maybraz), MP (Maypan) and BP (Brapan)

1. Production of 'Special' Malayan Dwarf Yellows (F1) at Barton Isles, St. Elizabeth

The 'true to type' Malayan Dwarf Yellows at Barton Isles, St. Elizabeth, produced 1,187 seednuts to date. Seven hundred and one (701) seedlings representing 59% were germinated in nursery. Ninety six percent (96%) of the seedlings were distributed to farmers.

- Approximately two hundred and forty seven (247) 'Special' Malayan Dwarf Yellows were monitored in 2016 and none of these plants has succumbed to the LY disease.
- An experimental plot (exposing the 'Special' Malayan Dwarf plants to the lethal yellowing disease) was established at the Hon. Frank M. Phipps' farm in Union, St. Mary in 2012.

The experiment consists of 15 'Special' Malayan Dwarfs and 15 Malayan Dwarf Greens. The plants have not succumbed to the lethal yellowing disease to date.

 The experimental plots with the 'Special' Malayan Dwarf Yellows at Amity Hall, St. Thomas were monitored for pests and diseases in 2016 and found to be pest and disease free. The experimental plots with the 'Special' Malayan Dwarf Yellows at Rural Hill, Portland were monitored for pests and diseases in 2016 and found to be pest and disease free.

Ambrosia Beetle: On February 13, 2012, the Plant Pathologist identified Ambrosia beetle in Hayes, Clarendon. Two species were identified as *Xyleborus ferrugineus* and *Xyleborus volvulus*.

The Ambrosia beetle infestation in coconut trees damages the immature nuts (jellies), dry nuts (mature nuts) and the trunks. The beetle does not eat the trunk, dry nuts or jellies for survival. It uses these as media for the cultivation of fungal symbionts.

In the first case found in Hayes, Clarendon, the beetle seemed to be living in nutritional symbiosis with *Fusarium sp.* This fungus was isolated in the laboratory at Coconut Industry Board.

RESEARCH ACTIVITIES ON AMBROSIA BEETLE

- Continued identification of fungi Fusarium sp and Nectria sp. associated with coconut trunk and infested dry nuts, respectively.
- 2. The Ambrosia beetle was observed in thirteen areas in 2015. However, the spread of the beetle was successfully curtailed in 2016 in the following areas:

| St. Mary | <u>Portland</u> | St. Thomas | Other Parishes |
|--|-----------------------------------|-------------------------------|-------------------------------------|
| Pemberton Valley Orange River Highgate Crescent Harmony Hall | Lennox Rose Garden Hopewell | Nutts River Bachelors Hall | Hayes, Clarendon Ramble, Hanover |

- Seminars on the Ambrosia beetle were conducted in areas in St. Mary, St.Thomas, St. Catherine, Portland, St. Elizabeth and Hanover by the Plant Pathologist, Dr. Wayne Myrie. Brochures were distributed to farmers in affected and nonaffected areas and posters were placed at strategic locations.
- Successful implementation of the control measures listed above in the Ambrosia beetle infested areas which contributed to the decrease of the Ambrosia beetle infestation in all the affected areas.

Increase Ambrosia and/or other Bark Beetle in the Nurseries of the Forestry Department: The Plant Pathologist was requested by the Plant Health Officer of the Forestry Department to visit the nurseries of the Forestry Department to identify bark beetle activities, collect samples and recommend control strategies. The bark beetle was observed in the Honduran Mahogany and West Indian Mahogany. The beetle was most prevalent in the Honduran Mahogany. The Cedar seedlings were not affected by the beetle.

Plant Protection Manual for Coconut Production in Jamaica: The Plant Protection Manual for coconut production in Jamaica was reviewed and finalized. The manual consisting of 32 pages was written by the Plant Pathologist on the 'Maladies' affecting coconut production in Jamaica. The manual provide the necessary information on the risk of maladies of coconut palms and how those risks can be minimized for successful production of coconuts.

<u>Tropicsafe – The 2020 Horizon Funding</u>: A consortium of scientists applied under the 2014-2020 Horizon 2020 - research and innovation framework programme for funding of research on insect-borne prokaryotic-associated diseases in tropical and subtropical perennial crops. The proposal of the consortium was selected from among thirteen other proposals for funding by the EU. Jamaica (CIB) was granted 110, 000 Euros. We are in the final phase before project inception.

The project "Coconut Industry Development for the Caribbean"

- Upgrading of the Nursery: The Shade House was installed at the nursery in Spring Garden, Portland.
- Allocation for Integrated Pest Management (IPM) experiments: Approximately
 US\$40,000 was recently committed to Jamaica from the project to implement IPM on three
 selected farms in the coconut growing areas.
- The Roadmap for the Coconut Project: The road map was submitted to the International Trade Center (ITC) and Caribbean Agricultural Research and Development Institute (CARDI) and we await the visit of personnel from ITC for discussions on further implementation of project activities.
- 4. Seminar/workshop on coconut niche products workshop in Port of Spain, Trinidad and Tobago, December 14-16, 2016: Three farmers from Jamaica were invited by CARDI/ITC to attend a seminar/workshop in Port of Spain, Trinidad, to make PowerPoint presentations on coconut oil, coconut water and other coconut products. The ability to prepare and give a PowerPoint presentation on the topics mentioned above was the main criterion for farmers' selection. The Jamaican farmers were among other farmers from the region who were trained in the making of coconut oil, extraction and bottling of coconut water and the making of other products from the coconut.
- 5. Jamaica assisted in the assessment of regional research and laboratory facilities (including Tissue Culture Laboratories).
- Jamaica organized a 2-day Regional workshop for Field Technicians on May 24-25, 2016.
- 7. Jamaica assisted in coconut mapping and characterization exercise.

Other Coconut Diseases

Identification of the cause of deaths in the African Talls: Fifteen coconut trees of African origin at Spring Garden were suspected to be infected with the lethal yellowing disease. However, molecular examinations of the samples detected no lethal yellowing phytoplasma in the tissues and having ruled out other diseases, it is now reasonable to assume that the trees were severely affected by the drought. External symptoms were premature nut fall, falling of most of the nuts, the death of the inflorescences, drying and drooping of some of the leaves. The trees looked unhealthy. The internal tissues showed no necrosis, however, sap flows were minimal.

<u>Identification of the cause of nut fall at Esher, St. Mary</u>: The trees were affected by the fungal pathogen *Phytophthora sp.* The Dwarfs were not self-pollinating because they are not 'true Dwarfs', resulting in the necessity for insect and sib-pollination.

The Molecular Laboratory

The use of PCRs to determine the presence of lethal yellowing Phytoplasma: Fifteen samples were collected from Lecky farm, Rodney Hall, Rose Garden, Foster farm and Hart Hill. Their 'DNAs' were extracted using Doyle and Doyle (1991) procedures. The samples were analyzed using PCRs (Polymerase Chain Reaction). Some samples from Rodney Hall tested positive for lethal yellowing phytoplasma (lethal yellowing disease) (Figure 10). Samples from Spring Garden tested negative for the disease pathogen. The 'Special' Malayan Dwarf tested negative for the disease and the population remains lethal yellowing disease free.

Agronomy/Crop Physiology

The Agronomist/Crop Physiologist focused on research aimed at improving germination among seednuts and by extension, an increase in production of saleable planting material.

During 2016, several activities were undertaken, some were the continuation of experiments started in previous years, and others were new projects. In addition, some activities undertaken did not give conclusive results, due to external factors such as environmental conditions. For this annual review, a summary of research projects established in 2016, and results obtained on other experiments commencing in previous years are presented.

Over the years, the Coconut Industry Board has been faced with the very low germination percentages, and has undertaken several experiments to mitigate its effects on the industry. Results from experiments have shown that germination, under favourable conditions can increase to as much as 80%. In 2015 a series of experiments was done addressing the factors that caused poor germination. Based on this information, other experiments were done.

One such experiment was to determine germination time, rate, homogeneity, and synchrony among the three popular varieties (Brapan, Maypan and Malayan Green Dwarf) produced by the Board. The experiment sought to determine each variety's contribution to coconut diversity. This is considered a critical area in crop physiology as it helps "to predict the degree of success of an individual variety based on the capacity of the harvested seed to spread the germination through time" (over many generations).

This experiment was therefore designed to determine what percentages of those with early germination would be more likely to survive the threat with which it is faced compared to the intermediate or late growers. Another objective was to determine if germination time and rate will impact the quality and fruitfulness in future generations. To date, a great percentage of seednuts was considered late germinators, with a smaller number being intermediate. Also, the germination capacity in this experiment was 63% and 87% for Malayan Green Dwarf and Brapan, respectively. Germination capacity refers to the number of seednuts producing at least one leaf plus those which germinated but did not emit any leaf.

Approximately 100 of these seedlings were planted in the field to address the second objective relating to quality and fruitfulness in future generations. Data will be collected over the next four to six years.

Other observations included percentage mortality between germination and emergence, protrusion of shoot from the side or bottom of the seednut in the bed, mean time to complete germination and the coefficient of uniformity. Seedlings were also classified as early, intermediate or late germinators. A repeat of this experiment will be done in 2017.

Barton Isles' Soil Restoration

The farm sits on six different types of soil, all of which range from slightly acidic to very strongly acidic, except one which is mildly alkaline. An acidic soil results in the unavailability of phosphates to the plants, which like any other crop, is of significant importance to the development of coconuts.

Coconuts require soils with pH 5.5-7.5. Soil maintenance and implementation of sound agronomic practices is essential for healthy palms and high yields. Steps were taken to apply lime at different periods over the past five years to help to counteract the natural acidic effects of the soil. Another factor contributing to the perennial problem of low production is the lack of topsoil as well as very low soil porosity. Porosity allows for the availability of water around the roots of the plants, improved absorption of nutrients and improved root development, all of which help to maintain a good soil structure. In an effort to remedy the problem, coconut fibre, lime and ash were spread throughout one section of the farm (Pond Pasture: February– March 2015) and subsequently incorporated into the soil.

One year later, the Board began to see differences in production in the treated area, and results are believed to be a combination of soil restoration project (incorporation of lime, ash, fertilizer and shredded coconut husk into the soil), the plants being allowed to self-pollinate, and the change of fertilizer from 12-4-28 to 11-22-22 (based on results obtained from soil tests).

Best Practices Manual

A best practices manual for the nursery production was prepared during the period. Information is being provided on the selection of mother palms, pollen source, production of hybrid varieties, harvest and selection of seednuts, and finally the establishment of a nursery and caring for the seedlings.

Coconut Tissue Culture

The Board in collaboration with the University of the West Indies (UWI) continues to establish protocols for the culture of elite germplasm.

The project has two main objectives: the development of a reliable embryo culture protocol for the culture of extracted embryos into mature plants and the development of a somatic embryogenesis protocol to enable the rapid multiplication of a desired cultivar.

Embryos placed in culture during period displayed varying germination rates - maximum 80% germination. Germinated embryos were kept in embryo culture or used to produce explants for callus culture.

Rooting was improved using 200uM-2mM NAA. The samples were pulsed in this auxin treatment then cultured as normal. Eighty three percent (83%) of these plants produced strong rooting systems in four months, reducing the time needed to produce mature plants for hardening. Eleven plants rooted in this fashion were ready to be hardened after five to eight months in culture.

Plants from these rooting studies were better adapted to hardening, with improved survival rate from 33% to 55%.

Results for Year 2016

Seven seedlings were planted in the fields for trials in December 2016 in the parishes of St. Mary, St. Thomas and Portland. Data collection continues on these seedlings.

- Nineteen plants were hardened, fifteen of these plants are still alive, survival rate 80%
- · Fifteen embryos were initiated into embryo culture
- Callus Culture
- Fifty embryos were initiated in callus culture using 2,4D and picloram

ADVISORY

Throughout Year 2016, the Advisory Department continued its annual mandate to effectively achieve the goals of the Research Department. The Advisory Officers worked relentlessly to communicate information as well as offer technical support and act as a liaison between the Coconut Industry Board and new and existing coconut growers islandwide and to the public.

The lethal yellowing (LY) sensitization programme continued and was used as a means of informing and educating growers and other individuals of the spread of LY disease and measures that can be employed to restrict its spread. Officers of the department were also very active in assisting growers to remove and burn more than 3,407 diseased trees and also providing growers with seedlings for replacement.

During Year 2016, islandwide public awareness, education and outreach activities continued in areas of the island where LY disease was active. These were accomplished mainly by conducting regular farm visits, field days, staging of displays at agricultural shows and various commodity boards' expositions and other group assemblies. These initiatives were achieved by the use of different forms of communication, including multimedia presentations, displays, 4-H Achievement Days, brochures, practical demonstrations and individual discussions.

More than 3,827 regular farm visits were made to new, existing and potential growers in order to provide technical assistance, support and to circulate relevant information. The growers' problems and concerns were addressed individually or in groups, depending on the nature of the concerns and number of individuals with similar issues. More serious concerns or information/data gathered from farmers were likewise passed on to the Research Department for further investigations.

The Advisory Department was involved in the identification of Bark Beetle infested areas in St. Mary, Portland and Clarendon and collection of specimens so as to provide treatment for the trees.

Members of the International Trade Centre (ITC) visited the property of a coconut grower in St. Mary to view a coconut water processing plant. They held several seminars with coconut growers.

In order to improve and extend coconut production in Jamaica, the Advisory Department distributed over 30,493 seedlings to growers in Year 2016.

Other Advisory Activities

 Field Days were conducted in the following areas: Hectors River in Portland, Wilmington in St. Thomas, Linstead in St. Catherine and Russell Pen in St. Mary.

- Displays mounted at events islandwide included:
 - Agricultural shows held at Denbigh in Clarendon, Hague in Trelawny, St. Mary Agricultural Show
 - ✓ Health Fair Church of St. John the Evangelist, St. Andrew
- · Participation in the following:
 - ✓ Jamaica Agricultural Society (JAS) Branch meetings held in Hectors River, Portland, Annual General Meeting in Denbigh, Clarendon
 - ✓ RADA Farmers' meeting in Linstead, St. Catherine
 - ✓ Tour of St. Mary Coconut Processors with CARDI/ICT
- · Field trip to 18 Waterloo Road by students from Desiree's Summer Camp

10. REMUNERATION

- (i) The total remuneration of the three most senior executives for the Year 2016 was \$17,390,993.
- (ii) The total fees paid to the Chairman and the other Directors (Board Members) during the year, was \$3,071,860 and the total fees paid to non-directors for attending committee meetings of the Board during the year was \$46,370; these fees are in accordance with the guidelines established by the Public Enterprises Division of the Ministry of Finance and the Public Service and were approved by our portfolio Minister.

FINANCE

Audited financial statements for the Board and the Windstorm Insurance Fund, for the year ended December 31, 2016, are attached.

12. ACKNOWLEDGEMENT

The Board gratefully acknowledges the assistance provided by the following persons and local and overseas institutions: the Minister of Agriculture and Fisheries and the officers of that Ministry, the Molecular Biology Unit at the University of the West Indies (U.W.I.), the Common Fund for Commodities (C.F.C.), the Food and Agriculture Organisation (F.A.O.) of the United Nations, Rothamsted Experimental Station in the United Kingdom, the Centre for International Agronomic Research and Development (CIRAD), the International Coconut Genetic Resources Network/the International Plant Genetic Resources Institute (COGENT/IPGRI), Centro de Investigacion Científica de Yucatan (CICY) - Mexico, the Escuela Agricola Panamericana (Zamorano) - Honduras, and the University of Florida.

The Board expresses thanks to coconut growers for their support and to the staff of the Board for their dedication to duty.

By Order of the Board Christopher Gentles Chairman



Financial Statements 31 December 2016

Coconut Industry Board Index 31 December 2016

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Independent auditor's report

To the Members of Coconut Industry Board

Report on the audit of the financial statements

Our opinion

In our opinion, the financial statements give a true and fair view of the financial position of Coconut Industry Board (the Board) as at 31 December 2016, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards.

What we have audited

The Board's financial statements comprise:

- the statement of financial position as at 31 December 2016;
- · the statement of comprehensive income for the year then ended;
- · the statement of changes in equity for the year then ended;
- · the statement of cash flows for the year then ended; and
- the notes to the financial statements, which include a summary of significant accounting policies.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (ISAs). Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independence

We are independent of the Board in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants (IESBA Code). We have fulfilled our other ethical responsibilities in accordance with the IESBA Code.

Responsibilities of management for the financial statements

Management is responsible for the preparation and fair presentation of the 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.

In preparing the financial statements, management is responsible for assessing the Board's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Board or to cease operations, or has no realistic alternative but to do so.



Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to
 fraud or error, design and perform audit procedures responsive to those risks, and obtain audit
 evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not
 detecting a material misstatement resulting from fraud is higher than for one resulting from error,
 as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override
 of internal control.
- Obtain an understanding of internal control relevant to the audit 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 Board's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting
 and, based on the audit evidence obtained, whether a material uncertainty exists related to events
 or conditions that may cast significant doubt on the Board's ability to continue as a going concern.
 If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's
 report to the related disclosures in the financial statements or, if such disclosures are inadequate,
 to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of
 our auditor's report. However, future events or conditions may cause the Board to cease to
 continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the
 disclosures, and whether the financial statements represent the underlying transactions and events
 in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Chartered Accountants 26 July 2017

Kingston, Jamaica

Coconut Industry Board
Statement of Comprehensive Income
Year ended 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| | Note | 2016 \$'000 | 2015 \$'000 |
|--|-------|----------------|----------------|
| Revenue | | 138,625 | 132,548 |
| Direct expenses | | (92,774) | (83,181) |
| Gross Profit | | 45,851 | 49,367 |
| Other operating income | 5 | 60,131 | 55,742 |
| Distribution expenses | | (1,255) | (1,279) |
| Research and extension expenses | | (54,865) | (56,119) |
| Administration expenses - | | | |
| Movement in retirement benefit obligations | | (31,400) | (30,600) |
| Other | | (105,422) | (94,770) |
| Other operating expenses | | (31,241) | (30,218) |
| Operating Deficit | | (118,201) | (107,877) |
| Share of profits of associated company, net of taxes | 9 | 276,970 | 182,567 |
| Net Surplus | | 158,769 | 74,690 |
| Other Comprehensive Income | | | |
| Item that will not be reclassified to profit or loss - | | | |
| Re-measurement of post-employment benefit obligations | | 94,300 | 14,500 |
| Item that may be subsequently reclassified to profit or loss - | | | |
| Fair value adjustments to available-for-sale financial assets | | 3,208 | 1,231 |
| Share of other comprehensive income of associates accounted for the equity method | using | 10,867 | 20,913 |
| Total Comprehensive Income for the Year | | 267,144 | 111,334 |

Coconut Industry Board Statement of Financial Position

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| | Note | 2016 \$'000 | 2015 \$'000 |
|----------------------------------|------|----------------|----------------|
| Non-Current Assets | | | |
| Property, plant and equipment | 8 | 65,376 | 61,134 |
| Investment in associated company | 9 | 2,906,798 | 3,146,809 |
| Investments | 10 | 90,660 | 111,104 |
| Loans receivable | 11 | 368,909 | 1,293 |
| Deferred expenditure | 12 | 6,115 | 4,470 |
| | | 3,437,858 | 3,324,810 |
| Current Assets | | | |
| Inventories | 13 | 2,672 | 3,182 |
| Biological assets | 14 | 20,594 | 20,777 |
| Receivables | 15 | 42,171 | 32,902 |
| Short-term investments | 10 | 749,448 | 655,621 |
| Coconut Windstorm Insurance Fund | | - | 793 |
| Cash at bank and in hand | 16 | 7,508 | 14,922 |
| | | 822,393 | 728,197 |
| Current Liabilities | | | |
| Payables | 17 | 11,595 | 11,125 |
| Coconut Windstorm Insurance Fund | | 11,716 | |
| | | 23,311 | 11,125 |
| Net Current Assets | | 799,082 | 717,072 |
| | | 4,236,940 | 4,041,882 |

Coconut Industry Board
Statement of Financial Position (Continued)

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| | Note | 2016 \$'000 | 2015 \$'000 | |
|----------------------------|------|--|----------------|--|
| Capital and Reserves | | | | |
| Capital surplus | 18 | 605,216 | 647,111 | |
| Capital fund | 19 | 428,472 | 317,135 | |
| Fair value reserve | 20 | 8,892 | 8,664 | |
| Staff contingency fund | 21 | 67,527 | 34,776 | |
| Coconut replanting fund | 22 | 236,164 | 227,515 | |
| Reserves | 23 | 2,761,469 | 2,605,981 | |
| Total Capital and Reserves | | 4,107,740 | 3,841,182 | |
| Non-Current Liability | | | | |
| Post-employment benefits | 24 | 129,200 | 200,700 | |
| | | 4,236,940 | 4,041,882 | |
| | | ATTENDED TO SERVICE STATE OF THE SERVICE STATE OF T | | |

Approved for Issue by the Board of Directors on July 25, 2017 and signed on its behalf by:

Director Director Granville Marsh

Coconut Industry Board
Statement of Changes in Equity
Year ended 31 December 2016
(expressed in Jamaican dollars unless otherwise indicated)

| | Note | Capital Surplus | Capital Fund | Fair Value Reserve | Staff Contingency Fund | Coconut Replanting Fund | Reserves | Total |
|---|--------|--------------------|-----------------|-----------------------|------------------------------|-------------------------------|-----------|-----------|
| | 238504 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 |
| Balance at 31 December 2014 | | 648,913 | 292,258 | 8,661 | 41,851 | 212,148 | 2,526,821 | 3,730,652 |
| Net surplus for the year | | * | | | | | 74,690 | 74,690 |
| Other comprehensive income - | | | | | | | | |
| Fair value adjustments to available-for-sale financial assets | | | | 3 | 929 | 296 | 3 | 1,231 |
| Remeasurement of post-employment benefits | | | | | | | 14,500 | 14,500 |
| Other reserves | | (1,802) | 1.2 | | | - | 22,715 | 20,913 |
| Transactions with owners | | | | | (804) | | | (804) |
| otal comprehensive income | | (1,802) | | 3 | 125 | 296 | 111,908 | 110,530 |
| ransfer to capital fund | 19 | | 24,877 | | | | (24,877) | |
| ransfer to staff contingency fund | 21 | - | * | | (7,200) | - | 7,200 | |
| ransfer to coconut replanting fund | 22 | | | | | 15,071 | (15,071) | |
| alance at 31 December 2015 | | 647,111 | 317,135 | 8,664 | 34,776 | 227,515 | 2,605,981 | 3,841,182 |
| let surplus for the year | | | | | | | 158,769 | 158,769 |
| Other comprehensive income - | | | | | | | | |
| Fair value adjustments to available-for-sale financial assets | | | | 228 | 2,632 | 348 | | 3,208 |
| Remeasurement of post-employment benefits | | | | | | | 94,300 | 94,300 |
| Other reserves | | (41,895) | | | | | 52,762 | 10,867 |
| Transactions with owners | | | | | | • | (586) | (586) |
| otal comprehensive income | | (41,895) | | 228 | 2,632 | 348 | 305,245 | 266,558 |
| ransfer to capital fund | 19 | | 111,337 | | | | (111,337) | |
| ransfer from staff contingency fund | 21 | | - | | 30,119 | | (30,119) | - |
| ransfer to coconut replanting fund | 22 | | | | | 8,300 | (8,300) | |
| Salance at 31 December 2016 | | 605,216 | 428,472 | 8,892 | 67,527 | 236,163 | 2,761,470 | 4,107,740 |

Coconut Industry Board Statement of Cash Flows

Year ended 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| | Note | 2016 \$'000 | 2015 \$'000 |
|--|------|----------------|----------------|
| Cash Flows from Operating Activities | | | |
| Net surplus | | 158,769 | 74,690 |
| Adjusted for: | | | |
| Share of profits from associated company | | (276,970) | (182,567) |
| Depreciation | 8 | 12,808 | 10,661 |
| Gain on disposal of property, plant and equipment | | (2,564) | (2,054) |
| Write off of deferred expenditure | 12 | 884 | 2,618 |
| Interest income | 5 | (26,636) | (31,648) |
| Post-employment benefits | | 22,800 | 22,300 |
| Foreign exchange gain | 5 | 30,628 | 21,660 |
| | | (80,281) | (84,340) |
| Changes in operating assets and liabilities - | | | |
| Receivables | | (9,269) | (7,140) |
| Inventories | | (510) | (80) |
| Biological assets | | (183) | (7,215) |
| Coconut Windstorm Insurance Fund | | 12,509 | (2,886) |
| Payables | | 470 | 695 |
| Cash (used in)/provided by operating activities | | (77,264) | (100,966) |
| Cash Flows from Investing Activities | | | |
| Loans receivable | | (367,616) | 527 |
| Purchase of property, plant and equipment | 8 | (17,086) | (14,402) |
| Proceeds from disposal of property, plant and equipment | | 2,600 | 3,581 |
| Proceeds from disposal of investments | | 20,444 | 87,650 |
| Deferred expenditure | 12 | (2,529) | (234) |
| Dividend received | | 527,848 | 155,250 |
| Interest received | | 26,636 | 31,648 |
| Cash provided by investing activities | | 190,297 | 264,020 |
| Effect of exchange rate changes on cash and cash equivalents | | (26,620) | (18,828) |
| Increase in cash and cash equivalents | | 86,413 | 144,226 |
| Cash and cash equivalents at beginning of year | | 670,543 | 526,317 |
| Cash and Cash Equivalents at End of Year | | 756,956 | 670,543 |
| Comprising: | | | |
| Cash at bank and in hand | 16 | 7,508 | 14,922 |
| Short-term investments | 10 | 749,448 | 655,621 |
| | | 756,956 | 670,543 |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

1. Identification and Principal Activities

The Coconut Industry Board ("The Board") is a body corporate established under the Coconut Industry Control Act, 1945. The Board consists of nine members, four of whom are appointed by the Minister of Agriculture and Fisheries; the remaining five are elected by registered coconut growers and must themselves be registered coconut growers or the attorneys for such registered coconut growers, or the managing directors or managers of companies which are registered coconut growers.

The main functions of the Board are:

- (a) Keeping Government informed on the state of the industry and advising on any action that is necessary;
- (b) Assisting growers to market their crop;
- (c) Conducting research on the agricultural problems of the industry;
- (d) Advising growers on their agricultural problems.

The Board's registered office is located at 18 Waterloo Road, Kingston 10.

The Board is also responsible for the management of the Coconut Windstorm Insurance Fund which, at year end, has net assets of \$198,239,000 (2015 - \$186,476,000).

On 28 December 1995, the Board was granted tax exempt status, effective 1 January 1971.

2. Significant Accounting Policies

The principal accounting policies applied in the preparation of these financial statements are set out below. These policies have been consistently applied to all the years presented, unless otherwise stated.

(a) Basis of preparation

These financial statements have been prepared in accordance with International Financial Reporting Standards (IFRS), and have been prepared under the historical cost convention as modified by the revaluation of certain financial assets.

The preparation of financial statements in conformity with IFRS requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Board's accounting policies. Although these estimates are based on management's best knowledge of current events and actions, actual results could differ from those estimates. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the financial statements, are disclosed in Note 4.

New and amended standards and interpretations effective in the current year

Certain amendments and clarifications to existing standards have been published that became effective during the current financial year. The Board has assessed the relevance of all such new amendments and clarifications and has put into effect the following, which are immediately relevant to its operations.

Notes to the Financial Statements 31 December 2016 (expressed in Jamaican dollars unless otherwise indicated)

- 2. Significant Accounting Policies (Continued)
 - (a) Basis of preparation (continued)

New and amended standards and interpretations effective in the current year (continued)

- Amendments to IAS 16, Property, plant and equipment' and IAS 38, Intangible assets', on depreciation and amortisation, (effective for annual periods beginning on or after 1 January 2016). These amendments clarify that the use of revenue-based methods to calculate the depreciation of an asset is not appropriate because revenue generated by an activity that includes the use of an asset generally reflects factors other than the consumption of the economic benefits embodied in the asset. It was also clarified that revenue is generally presumed to be an inappropriate basis for measuring the consumption of the economic benefits embodied in an intangible asset. These amendments did not have any impact on the Board's financial statements.
- Amendments to IAS 27, 'Separate financial statements' on equity accounting (effective for annual
 periods beginning on or after 1 January 2016). These amendment will allow entities to use the equity
 method in their separate financial statements to measure investments in subsidiaries, joint ventures and
 associates. These amendments did not have any impact on the Board's financial statements.
- Amendments to IAS 1, 'Presentation of financial statements' disclosure Initiative (effective for
 annual periods beginning on or after 1 January 2016). The amendments to IAS 1 Presentation of Financial
 Statements are made in the context of the IASB's Disclosure Initiative, which explores how financial
 statement disclosures can be improved. The amendments provide clarifications on a number of issues,
 including: materiality; disaggregation and subtotals; notes; disclosure of accounting policies; and OCI
 arising from investments accounted for under the equity method. These amendment did not have any
 significant impact on the Board's financial statements.
- Annual Improvements 2014, (effective for annual periods beginning on or after 1 January 2016). These amendments impact the following standards. IFRS 5 was amended to clarify that change in the manner of disposal (reclassification from "held for sale" to "held for distribution" or vice versa) does not constitute a change to a plan of sale or distribution, and does not have to be accounted for as such. The amendment to IFRS 7 adds guidance to help management determine whether the terms of an arrangement to service a financial asset which has been transferred constitute continuing involvement, for the purposes of disclosures required by IFRS 7. The amendment to IAS 19 clarifies that for post-employment benefit obligations, the decisions regarding discount rate, existence of deep market in high-quality corporate bonds, or which government bonds to use as a basis, should be based on the currency that the liabilities are denominated in, and not the country where they arise. The adoption of these amendments did not have any significant impact on the Board's financial statements.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

- 2. Significant Accounting Policies (Continued)
 - (a) Basis of preparation (continued)

Standards, amendments and interpretations to existing standards that are not yet effective and have not been early adopted by the Board

At the date of authorisation of these financial statements a number of new standards and amendments to standards are effective for annual periods beginning after 1 January 2017, and have not been applied in preparing these financial statements. None of these is expected to have a significant effect on the financial statements of the Board, except the following set out below:

- Amendments to IAS 7, Statement of cash flows on disclosure initiative (effective for annual periods beginning on or after 1 January 2017). In January 2016, the IASB published amendments to IAS 7 to improve information about an entity's financing activities. These amendments are as part of the IASB initiative to improve presentation and disclosure in financial reports. The amendments require disclosure of information enabling users to evaluate changes in liabilities arising from financing activities including both cash and non-cash changes. The future adoption of these amendments will result in additional disclosure in the financial statements.
- IFRS 9, 'Financial Instruments', (effective for annual periods beginning on or after 1 January 2018). This standard will replace IAS 39, 'Financial Instruments: Recognition and Measurement'. IFRS 9 addresses classification and measurement of financial assets and replaces the multiple classification and measurement models in IAS 39 with a single model that has only two classification categories: amortised cost and fair value. Classification of debt instruments under IFRS 9 is driven by the entity's business model for managing the financial assets and the contractual characteristics of the financial assets. All equity instruments are measured at fair value under IFRS 9. IFRS 9 removes also the requirement to separate embedded derivatives from financial asset hosts. It requires a hybrid contract to be classified in its entirety at either amortised cost or fair value. For financial liabilities, IFRS 9 retains most of the IAS 39 requirements, including amortised cost accounting for most financial liabilities and the requirement to separate embedded derivatives. The main change is where the fair value option is taken for financial liabilities, the part of a fair value change due to an entity's own credit risk is recorded in other comprehensive income rather than in profit or loss, unless this creates an accounting mismatch. Certain aspects of IFRS 9 are still under development and have not been finalised. The Board does not expect any significant impact from adoption of IFRS 9.
- IFRS 15, 'Revenue from Contracts with Customers', (effective for the periods beginning on or after 1 January 2018). The new standard introduces the core principle that revenue must be recognised when the goods or services are transferred to the customer, at the transaction price. Any bundled goods or services that are distinct must be separately recognised, and any discounts or rebates on the contract price must generally be allocated to the separate elements. When the consideration varies for any reason, minimum amounts must be recognised if they are not at significant risk of reversal. Costs incurred to secure contracts with customers have to be capitalised and amortised over the period when the benefits of the contract are consumed. The Board is currently assessing the impact of future adoption of the new standard on its financial statements.
- Amendment to IFRS 15, 'Revenue from contracts with customers' (effective for accounting periods beginning on or after 1 January 2018). These amendments comprise clarifications of the guidance on identifying performance obligations, accounting for licences of intellectual property and the principal versus agent assessment (gross versus net revenue presentation). The IASB has also included additional practical expedients related to transition to the new revenue standard.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

- 2. Significant Accounting Policies (Continued)
 - (a) Basis of preparation (continued)

Standards, amendments and interpretations to existing standards that are not yet effective and have not been early adopted by the Board (continued)

- IFRS 16, 'Leases', (effective for annual periods beginning on or after 1 January 2019). In January 2016, the IASB published IFRS 16 which replaces the current guidance in IAS 17. Under IAS 17, lessees were required to make a distinction between a finance lease (on balance sheet) and an operating lease (off balance sheet). IFRS 16 now requires lessees to recognise a lease liability reflecting future lease payments and a 'right-of use asset' for virtually all lease contracts. There is an optional exemption for lessees for certain short-term leases and leases of low-value assets. The Board is assessing the impact of future adoption of the amendments on its financial statements.
- IFRIC 22,' Foreign currency transactions and advance consideration' (effective for annual periods
 beginning on or after 1 January 2018) This IFRIC addresses foreign currency transactions or parts of
 transactions where there is consideration that is denominated or priced in a foreign currency. The
 interpretation provides guidance for when a single payment/receipt is made as well as for situations where
 multiple payments/receipts are made. The guidance aims to reduce diversity in practice. The Board is
 assessing the impact of future adoption of this interpretation on its financial statements.

There are no other IFRS or IFRIC interpretations that are not yet effective that would be expected to have a material impact on the Board.

(b) Foreign currency translation

Functional and presentation currency

Items included in the financial statements are measured using the currency of the primary economic environment in which the entity operates ('the functional currency'). The financial statements are presented in Jamaican dollars, which is the functional and presentation currency.

Transactions and balances

Foreign currency transactions are accounted for at the exchange rates prevailing at the dates of the transactions. At year end, monetary assets and liabilities denominated in foreign currency are translated using the closing exchange rate. Exchange differences arising from the settlement of transactions at rates different from those at the dates of the transactions and unrealised foreign exchange differences on unsettled foreign currency monetary assets and liabilities are recognised in the statement of comprehensive income.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(c) Property, plant and equipment

Property, plant and equipment are recorded at historical cost less accumulated depreciation. Depreciation is calculated on the straight line basis at such rates as will write off the carrying value of the assets over the period of their expected useful lives, which are as follows:

Freehold buildings
Research library stock and
furniture, fixtures, equipment and fence improvement
Motor vehicles

40 years

5 - 10 years 5 years

Land is not depreciated.

Gains and losses on disposal of property, plant and equipment are determined by reference to their carrying amount and are taken into account in determining operating results.

Repairs and maintenance expenditure is charged to the statement of comprehensive income during the financial period in which it is incurred. The cost of major renovations is included in the carrying amount of the asset when it is probable that future economic benefits in excess of the originally assessed standard of performance of the existing asset will flow to the Board. Major renovations are depreciated over the remaining useful life of the related asset.

(d) Impairment of non-current assets

Property, plant and equipment and other non-current assets are reviewed for impairment losses whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the carrying amount of the asset exceeds its recoverable amount, which is the greater of the asset's net selling price and the value in use. For the purpose of assessing impairment, assets are grouped at the lowest level for which there are separately identifiable cash flows.

(e) Investment in associates

An associate is an entity over which the Board has significant influence but not control, generally accompanying a shareholding of between 20% and 50% of the voting rights. The Board's share of its associates' post-acquisition profits or losses is recognised in the income statement, and its share of post-acquisition movements in reserves is recognised in other reserves. The cumulative post-acquisition movements are adjusted against the carrying amount of the investment. When the Board's share of losses in an associate equals or exceeds its interest in the associate, including any other unsecured receivables, the Board does not recognise further losses, unless it has incurred obligations or made payments on behalf of the associate.

Investments in associates are accounted for using the equity method of accounting, and are initially recognised at cost.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(f) Financial instruments

A financial instrument is any contract that gives rise to both a financial asset in one entity and a financial liability or equity in another entity.

Financial assets

The Board's financial assets comprise investment securities, loans receivable, trade and other receivables, cash and short term investments, and balances due from related parties.

Available-for-sale

Available-for-sale financial assets are non-derivatives that are either designated in this category or not classified in any of the other categories.

Investment securities

The Board classifies its investment securities as available-for-sale. Management determines the classification of its investments at the time of the purchase and re-evaluates such designation on a regular basis.

Purchases and sales of investments are recognised on the trade date - the date that the Board commits to purchase or sell the asset. Investments are derecognised when the rights to receive cash flows from the investments have expired or have been transferred and the Board has transferred substantially all risks and rewards of ownership.

Investments are initially recognised at fair value plus transaction costs and are subsequently carried at fair value.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(f) Financial instruments (continued)

Changes in the fair value of monetary securities denominated in a foreign currency and classified as available-for-sale are analysed between translation differences resulting from changes in amortised cost of the security and other changes in the carrying amount of the security. The translation differences are recognised in the net surplus and other comprehensive income. Other changes in the fair value of both monetary and non-monetary securities classified as available-for-sale are recognised in equity.

When securities classified as available-for-sale are sold or impaired, the fair value adjustments accumulated in the fair value reserve are included in the statement of comprehensive income as 'gains and losses on maturity and disposal of available-for-sale investment'. Interest on available-for-sale securities, calculated using the effective interest method, is recognised in the statement of comprehensive income.

The Board assesses at each year end whether there is objective evidence that a financial asset or a group of financial assets is impaired. A financial asset is considered impaired if its carrying amount exceeds its estimated recoverable amount. The recoverable amount of a financial asset carried at fair value is the present value of expected future cash flows discounted at the current market rate for a similar financial asset.

Loans and receivables

Trade and other receivables

Trade and other receivables are classified as loans and receivables and are carried at original invoice value less provision made for impairment of these receivables based on a review of all outstanding amounts at the year end. A provision for impairment of trade receivables is established when there is objective evidence that the Board will not be able to collect all amounts due according to the original terms of receivables. The amount of the provision is the difference between the carrying amount and the recoverable amount, the recoverable amount being the present value of expected cash flows, discounted at the original effective interest rate.

Financial liabilities

The Board's financial liabilities are initially measured at fair value, net of transactions costs and are subsequently measured at amortised cost using the effective interest method. At year end, financial liabilities comprised payables and amounts due to the Coconut Windstorm Insurance Fund.

Pavables

These amounts represent liabilities for unpaid involces at year end and are carried at cost, which is deemed to approximate amortised cost.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(g) Deferred expenditure

Expenditure incurred on seed garden projects is accumulated until the seed garden starts generating income, after which it is written off, as the revenue to which it relates is earned. The period for, and the corresponding rate of, the write off is as follows:

| Year 5 | 25% |
|--------|-----|
| Year 6 | 30% |
| Year 7 | 45% |

(h) Inventories

Inventories are stated at the lower of cost and net realisable value, cost being determined on the average cost basis. Net realisable value is the estimate of selling price in the ordinary course of business, less the cost of selling expenses.

(i) Biological assets

Biological assets represent seeds in nurseries and seed gardens and are stated at cost as no reliable measure for determining fair value has been identified. Cost is determined as the accumulated cost of germination.

(j) Cash and cash equivalents

Cash and cash equivalents are carried in the statement of financial position at cost, and comprise cash at bank and in hand, and short term investments.

(k) Post employment benefits

Pension plan benefits

The scheme is generally funded through payments to trustee-administered funds as determined by periodic actuarial calculations. A defined benefit plan is a pension plan that defines an amount of pension benefit to be provided, usually as a function of one or more factors such as age, years of service or compensation.

The asset or liability recognised in the statement of financial position in respect of defined benefit pension plans is the present value of the defined benefit obligation at year end minus the fair value of plan assets. Any asset resulting from this calculation is limited to the present value of available refunds and reductions in future contributions to the fund. The defined benefit obligation is calculated annually by independent actuaries using the Projected Unit Credit Method. The present value of the defined benefit obligation is determined by estimating future cash outflows using interest rates on Government securities which have terms to maturity approximating the terms of the related liability.

Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to other comprehensive income in the period in which they arise.

Past-service costs are recognised immediately in profit or loss.

Other post-employment benefits

The Board provides other post-employment benefits from a supplemental account. This account is funded by investment income arising from investments that have been allocated to this account. The method of accounting and the frequency of valuations are similar to the pension plan benefits described above.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(I) Income recognition

Revenue

Revenue comprises the fair value of the consideration received or receivable for the sale of goods in the ordinary course of the Board's activities. Revenue is shown net of General Consumption Tax, returns, rebates and discounts and after eliminating sales within the Board.

Sales are recognised when the Board sells a product to the customer. Retail sales are usually by cash only. The Board sells coconut seedlings, coconuts and coconut-based products such as coconut water, oil and pastries.

Interest income

Interest income is recognised in the statement of comprehensive income on a time-proportion basis using the effective interest method.

Dividend income

Dividend income in the statement of comprehensive income is recognised when the right to receive payment is established.

3. Financial Risk Management

The Board's activities expose it to a variety of financial risks: market risk (including currency risk, fair value interest rate risk, cash flow interest rate risk and price risk), credit risk and liquidity risk. The Board's overall financial risk management efforts seek to minimise potential adverse effects on the Board's financial performance arising mainly from market risk.

The Board's risk management policies are designed to identify and analyse these risks, to set appropriate risk limits and controls, and to monitor the risks and adherence to limits by means of reliable and up-to-date information systems. The Board periodically reviews its risk management policies and systems to reflect changes in markets, products and emerging best practice.

The members of the Board are ultimately responsible for the establishment and oversight of the risk management framework. The Board has established a Finance Committee for managing and monitoring financial risks, as well as to manage the Board's assets and liabilities and the overall financial structure. The Finance Committee is also primarily responsible for the funding and liquidity risks of the Board.

There has been no change to the Board's exposure to financial risk or the manner in which such risks are managed.

(a) Market risk

The Board experiences exposure to market risk, which is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risks mainly arise from changes in foreign currency exchange rates and interest rates. Market risk is monitored by the Board which reviews the price movement of financial assets.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Market risk (continued)

Currency risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates.

The Board is exposed to foreign exchange risk arising from various currency exposures, primarily with respect to the US dollar. Foreign exchange risk arises primarily from the Board's cash and investments holdings.

The Board manages its foreign exchange risk by closely monitoring currency positions and seeking to maximise foreign currency earnings.

The table below summarises the Board's exposure to foreign currency exchange rate risk at year end.

| | Jamaican | US\$ | Total |
|----------------------------------|----------|---|--------------|
| | J\$'000 | J\$'000 | J\$'000 |
| | | 2016 | |
| Financial Assets | | | |
| Non-current investments | | 38,634 | 38,634 |
| Loans receivable | 890 | 368,019 | 368,909 |
| Receivables | 4,067 | | 4,067 |
| Short-term investments | 198,380 | 603,094 | 801,474 |
| Cash at bank and in hand | 5,749 | 1,759 | 7,508 |
| Total financial assets | 209,086 | 1,011,506 | 1,220,592 |
| Financial Liabilities | | | |
| Payables | 11,595 | | 11,595 |
| Coconut Windstorm Insurance Fund | 11,716 | - | 11,716 |
| Total financial liabilities | 23,311 | | 23,311 |
| Net financial position | 185,775 | 1,011,506 | 1,197,281 |
| | | 100000000000000000000000000000000000000 | CHARLES INC. |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Market risk (continued)

Currency risk (continued)

| Jamaican J\$'000 | US\$ J\$'000 | Total J\$'000 |
|---------------------|--|---|
| | 2015 | |
| | | |
| 21,196 | 89,908 | 111,104 |
| 1,293 | | 1,293 |
| 1,943 | | 1,943 |
| 793 | | 793 |
| 221,438 | 434,183 | 655,621 |
| 7,320 | 7,602 | 14,922 |
| 253,983 | 531,693 | 785,676 |
| 53885 | | |
| 11,125 | | 11,125 |
| 11,125 | | 11,125 |
| 242,858 | 531,693 | 774,551 |
| | 21,196 1,293 1,943 793 221,438 7,320 253,983 | J\$'000 J\$'000 2015 2015 21,196 89,908 1,293 - 1,943 - 793 - 221,438 434,183 7,320 7,602 253,983 531,693 11,125 - 11,125 - |

Foreign currency sensitivity

The sensitivity analysis represents outstanding foreign currency denominated monetary items and adjusts their translation at the year-end for changes in foreign currency rates. The change in currency rate below represents management's assessment of the possible change in foreign exchange rates. The sensitivity of the net surplus is attributable to the Board's cash and cash equivalents and investments.

If at 31 December 2016, the Jamaican dollar strengthened/weakened by 1 %/(6%) (2015 – 1 %(8%) against the US dollar, with all other variables held constant, net surplus would have (decreased)/increased by approximately (\$10,115,000)/\$60,690,000 (2015 – (\$5,317,000)/\$42,535,000). The percentage represents management's assessment of the possible range of changes in the rate of exchange to the US dollar.

Interest rate risk

Interest rate risk is the risk that the value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates.

Fixed interest rate instruments expose the Board to fair value interest risk on its financial assets. Floating rate instruments expose the Board to cash flow interest risk. The Board's interest rate risk policy requires it to manage interest rate risk by maintaining a balanced investment portfolio.

Notes to the Financial Statements
31 December 2016
(expressed in Jamaican dollars unless other

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Market risk (continued)

Interest rate risk (continued)

The following table summarises the Board's exposure to interest rate risk on its financial assets. It includes the Board's financial instruments at carrying amounts, categorised by the earlier of contractual repricing or maturity dates. The Board has no interest bearing liabilities.

| | Within 1 Month \$'000 | 1 to 3 Months \$'000 | 3 to 12 Months \$'000 | 1 to 5 Years \$'000 | Over 5 Years \$'000 | Interest Bearing \$'000 | Total \$'000 |
|----------------------------------|-----------------------------|----------------------------|-----------------------------|---------------------------|---------------------------|---------------------------------------|-----------------|
| | | | | 2016 | | | |
| Non-current investments | | | | 38,634 | | 1.5 | 38,634 |
| Loans receivable | | | | 368,325 | 584 | | 368,909 |
| Receivables | | | | | | 4,067 | 4,067 |
| Short-term investments | 518,129 | 228,965 | 51,788 | - | | 2,592 | 801,474 |
| Cash at bank and in hand | - | - | | | | 7,508 | 7,508 |
| Total financial assets | 518,129 | 228,965 | 51,788 | 406,959 | 584 | 14,167 | 1,220,592 |
| | Within 1 Month \$'000 | 1 to 3 Months \$'000 | 3 to 12 Months \$'000 | 1 to 5 Years \$'000 | Over 5 Years \$'000 | Non- Interest Bearing \$'000 | Total \$'000 |
| | | | | 2015 | | | |
| Non-current investments | | | 61,316 | 49,788 | | | 111,104 |
| Loans receivable | | | | 553 | 740 | | 1,293 |
| Receivables Coconut Windstorm | | | • | | • | 1,943 | 1,943 |
| Insurance Fund | 1.55 | | • | 17 | | 793 | 793 |
| Short-term investments | 346,203 | 280,989 | 27,629 | | 0.00 | 800 | 655,621 |
| Cash at bank and in hand | | - | | - | - | 14,922 | 14,922 |
| Total financial assets | 346,203 | 280,989 | 88,945 | 50,341 | 740 | 18,458 | 785,676 |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Market risk (continued)

Interest rate risk (continued)

Interest rate sensitivity

The following table indicates the sensitivity to a reasonably possible change in interest rates, with all other variables held constant, on the Board's net surplus and equity.

The sensitivity of the profit or loss is the effect of the assumed changes in interest rates on net income based on the floating rate non-trading financial assets and financial liabilities. The sensitivity of equity is calculated by revaluing fixed rate available-for-sale financial assets for the effects of the assumed changes in interest rates. The correlation of variables will have a significant effect in determining the ultimate impact on market risk, but to demonstrate the impact due to changes in variable, variables had to be on an individual basis. It should be noted that movements in these variables are non-linear.

| | Effect on Net Surplus | Effect on Equity | Effect on Net Surplus | Effect on Equity 2015 |
|--|--------------------------|---------------------|--------------------------|-----------------------------|
| United States dollar: | 2016 \$'000 | 2016 \$'000 | 2015 \$'000 | \$'000 |
| Change in basis points: | | | | |
| -100% (2015: -100%) | | 427 | • | 682 |
| +50% (2015: +100%) | | (854) | | (1,038) |
| | Effect on Net Surplus | Effect on Equity | Effect on Net Surplus | Effect on Equity |
| | 2016 | 2016 | 2015 | 2015 |
| Jamaican dollar: | \$'000 | \$'000 | \$'000 | \$'000 |
| Change in basis points: -100% (2015: -150%) | (50) | 21 | (50) | 29 |
| +100% (2015: +100%) | 50 | (23) | 125 | (23) |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Market risk (continued)

Interest rate risk (continued)

The following tables summarises the weighted average interest rate on the Board's financial assets.

| | Jamaica | US\$ |
|--------------------------|---------|------|
| | % | % |
| | 2016 | |
| Non-current investments | | 5.94 |
| Loans receivable | 7.00 | 3.00 |
| Short-term investments | 5.60 | 1.79 |
| Cash at bank and in hand | 0.75 | 0.15 |
| | 2015 | 5 |
| Non-current investments | 7.63 | 5.32 |
| Loans receivable | 7.00 | - |
| Short-term investments | 6.07 | 2.02 |
| Cash at bank and in hand | 0.75 | 0.15 |

(b) Credit risk

The Board takes on exposure to credit risk, which is the risk that its counterparties will cause a financial loss for the Board by failing to discharge their contractual obligations. Credit exposures arise principally from the Board's investment activities. The Board structures the levels of credit risk it undertakes by placing limits on the amount of risk accepted in relation to a single counterparty.

The Board establishes an allowance for impairment that represents its estimate of incurred losses in respect of investments, loans and receivables. The Board addresses impairment assessment in two areas: individually assessed allowances and collectively assessed allowances.

The Board limits its exposure to credit risk by investing mainly in liquid securities, with counterparties that have high credit quality and Government of Jamaica securities. Accordingly, management does not expect any counterparty to fail to meet its obligations. At year end, all investment securities are either held directly with the Government of Jamaica or secured by instruments issued by the Government of Jamaica.

Notes to the Financial Statements

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(b) Credit risk (continued)

Maximum exposure to credit risk:

| Allian exposure to oreal risks | 2016 | 2015 |
|----------------------------------|-----------|---------|
| | \$'000 | \$'000 |
| Investment securities- | | |
| Non-current investments | 38,634 | 111,104 |
| Short-term investments | 801,474 | 655,621 |
| Loans receivable | 368,909 | 1,293 |
| Receivables | 4,067 | 1,943 |
| Coconut Windstorm Insurance Fund | • | 793 |
| Cash at bank and in hand | 7,508 | 14,922 |
| | 1,220,592 | 785,676 |

(c) Liquidity risk

Liquidity risk is the risk that the Board is unable to meet its payment obligations associated with its financial liabilities when they fall due. Prudent liquidity risk management implies maintaining sufficient cash and marketable securities, the availability of funding through an adequate amount of committed credit facilities and the ability to close out market positions. Liquidity risk is not usually significant for the Board.

Liquidity risk management process

The Board's liquidity management process includes:

- Monitoring future cash flows and liquidity on a daily basis. This incorporates an assessment of expected
 cash flows and the availability of high grade collateral which could be used to secure funding if required;
- (ii) Maintaining a portfolio of highly marketable and diverse assets that can easily be liquidated as protection against any unforeseen interruption to cash flows and
- (iii) Optimising cash returns on investments.

Financial liabilities and assets held for managing liquidity risk

Financial liabilities are due within three months. The Board has sufficient financial assets to cover financial liabilities that arise in the course of normal operations.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(d) Capital management

The Board's objectives when managing capital are to safeguard the Board's ability to continue as a going concern in order to conduct research on the agricultural problems in the industry and to provide assistance to coconut growers to market their crops. There were no changes to the Board's approach to capital management during the year.

(e) Fair value estimation

Fair value is the amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties in an arm's length transaction.

The carrying values of loans receivable, receivables less impairment provision, short-term investments, balances with Coconut Windstorm Insurance Fund and payables are assumed to approximate their fair values due to the short-term maturity of these instruments.

The Board's available for sale investments are measured at fair value subsequent to initial recognition, and are classified as Level 2 fair value instruments. Level 2 fair value measurements are those derived from inputs other than quoted prices that are observable for the instrument, either directly (i.e., as prices) or indirectly (i.e., derived from prices). Indicative prices are obtained from regular, publicly available quotes by reputable dealers and brokers; and

There were no transfers between levels during the year, and there are no Level 3 instruments.

4. Critical Accounting Judgements and Key Sources of Estimation Uncertainty

Judgements and estimates are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

(a) Critical judgements in applying the Board's accounting policies

In the process of applying the Board's accounting policies, management has made no judgements which it believes presents a significant risk of material misstatement to the amounts recognised in the financial statements.

(b) Key sources of estimation uncertainty

The Board makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are discussed below.

Post-employment benefits

The cost of these benefits and the present value of the future obligations depend on a number of factors that are determined by actuaries using a number of assumptions. The assumptions used in determining the net periodic cost or income for retirement benefits include the expected long-term rate of return on the relevant plan assets, the discount rate, and, in the case of health benefits, the expected rate of increase in health costs. Any changes in these assumptions will impact the net periodic cost or income recorded for retirement benefits and may affect planned funding of the pension plan. The expected return on plan assets assumption is determined on a uniform basis, considering long-term historical returns, asset allocation and future estimates of long-term investment returns.

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| 5. | Other Operating Income | | |
|----|--|----------------|----------------|
| | | 2016 \$'000 | 2015 \$'000 |
| | Interest income | 26,636 | 31,648 |
| | Miscellaneous income | 2,867 | 2,434 |
| | Foreign exchange gain | 30,628 | 21,660 |
| | | 60,131 | 55,742 |
| 6. | Expenses by Nature | | |
| | Total direct, administration and other operating expenses: | | |
| | | 2016 \$'000 | 2015 \$'000 |
| | Auditor's remuneration | | |
| | Current year | 2,189 | 1,391 |
| | Prior year under accrual | 610 | |
| | Cost of inventories recognised as expense | 92,576 | 83,031 |
| | Cost of nursery and seeds garden operation | 16,750 | 8,804 |
| | Depreciation (Note 8) | 12,808 | 10,661 |
| | Field works experiment | 2,042 | 1,806 |
| | Insurance | 549 | 1,041 |
| | Lethal yellowing research costs | 335 | 538 |
| | Motor vehicle expenses | 19,748 | 21,498 |
| | Repairs and maintenance | 8,360 | 7,917 |
| | Seedling planting programme | 15,781 | 23,331 |
| | Special projects | 2,446 | 2,022 |
| | Staff costs (Note 7) | 111,842 | 110,115 |
| | Subsidy on seedlings | 385 | 513 |
| | Telephone, postage and telegram | 1,533 | 1,332 |
| | Travelling | 7,109 | 5,767 |
| | Utilities | 5,268 | 5,885 |
| | Other expenses | 16,626 | 10,514 |
| | | 316,957 | 296,166 |

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

7. Staff Costs

| | 2016 \$'000 | 2015 \$'000 |
|-------------------------------------|----------------|----------------|
| Wages and salaries | 66,791 | 63,823 |
| Statutory contributions | 5,479 | 5,401 |
| Pension costs (Note 24) | 15,500 | 15,500 |
| Other retirement benefits (Note 24) | 15,900 | 15,100 |
| Other | 8,172 | 10,291 |
| | 111,842 | 110,115 |
| | | |

8. Property, Plant and Equipment

| | 2016 | | | | | | | |
|----------------------------|------------------|--------|------------------------------|--------------------------------------|-------------------|-------------------------|----------------------|---------|
| | Freehold Land | | Research Library Stock | Furniture Fixtures & Equipment | Motor Vehicles | Irrigation Equipment | Fence Improvement | Total |
| | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 |
| Cost - | | | | | | | | |
| At 1 January 2016 | 7,121 | 21,536 | 1,116 | 32,054 | 71,854 | 2,087 | 164 | 135,932 |
| Additions | | 446 | | 812 | 14,894 | 934 | | 17,086 |
| Disposals | | | | (817) | (6,605) | | | (7,422) |
| At 31 December 2016 | 7,121 | 21,982 | 1,116 | 32,049 | 80,143 | 3,021 | 164 | 145,596 |
| Accumulated Depreciation - | | | | | | | | |
| At 1 January 2016 | | 6,414 | 1,082 | 24,696 | 40,648 | 1,857 | 101 | 74,798 |
| Charge for the year | | 552 | 9 | 1,697 | 10,550 | | | 12,808 |
| Relieved on disposals | | | | (781) | (6,605) | | 2 | (7,386) |
| At 31 December 2016 | | 6,966 | 1,091 | 25,612 | 44,593 | 1,857 | 101 | 80,220 |
| Net Book Value - | | | | | | | | |
| At 31 December 2016 | 7,121 | 15,016 | 25 | 6,437 | 35,550 | 1,164 | 63 | 65,376 |

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

8. Property, Plant and Equipment (Continued)

| | | 2015 | | | | | | | |
|----|-------------------------------|--------------|-----------------------|------------------------------|--------------------------------------|-------------------|-------------------------|----------------------|--|
| | | | Freehold Buildings | Research Library Stock | Furniture Fixtures & Equipment | Motor Vehicles | Irrigation Equipment | Fence Improvement | |
| | | \$'000 | \$'000 | \$'000 | \$,000 | \$'000 | \$'000 | \$'000 | \$'000 |
| | Cost - | | | | | | | | |
| | At 1 January 2015 | 7,121 | 21,536 | 1,116 | 33,149 | 65,864 | 2,087 | 164 | 131,037 |
| | Additions | | | | 1,047 | 13,355 | | | 14,402 |
| | Disposals | - | | - | (2,142) | (7,365) | | | (9,507 |
| | At 31 December 2015 | 7,121 | 21,536 | 1,116 | 32,054 | 71,854 | 2,087 | 164 | 135,932 |
| | Accumulated Depreciation - | 2 | | | | | | | |
| | At 1 January 2015 | | 5,865 | 1,070 | 23,061 | 40,163 | 1,857 | 101 | 72,117 |
| | Charge for the year | | 549 | 12 | 2,250 | 7,850 | | | 10,661 |
| | Relieved on disposals | | | | (615) | (7,365) | | | (7,980) |
| | At 31 December 2015 | | 6,414 | 1,082 | 24,696 | 40,648 | 1,857 | 101 | 74,798 |
| | Net Book Value - | | | | | | | | CONTRACTOR OF THE PARTY OF THE |
| | At 31 December 2015 | 7,121 | 15,122 | 34 | 7,358 | 31,206 | 230 | 63 | 61,134 |
|). | Investment in Associ | ated Com | pany | | | | | | |
| | | | | | | | | 2016 | 2015 |
| | A MINA POR A TANKAR A TANKAR | | | | | | | \$'000 | \$'000 |
| | At the beginning | | ar | | | | 3,14 | 16,809 3 | ,098,579 |
| | Share of profits | | | | | | 27 | 76,970 | 182,567 |
| | Dividends recei | 250 | | | | | (5) | 27,848) | (155,250) |
| | Movement in at | her reserve | es (i) | | | | | 0,867 | 20,913 |
| | At end of year | | | | | | 2,90 | 06,798 3 | 146,809 |
| | (i) Movement in other | reserves i | s broken de | own as follo | ows: | | | | |
| | | | | | | | | 2016 | 2015 |
| | Re-measuremen | at of peat o | | | | | | \$'000 | \$'000 |
| | benefit ob | ligations | | • | | | 5 | 2,762 | 22,715 |
| | | or sale inve | | | | | (4 | 1,895) | (1,802) |
| | | | | | | | 1 | 0,867 | 20,913 |
| | | | | | | | | | The state of the s |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

9. Investment in Associated Company (Continued)

Seprod Limited has share capital consisting solely of ordinary shares, these are held directly by the Board; the Company is incorporated and domiciled in Jamaica and is listed on the Jamaica Stock Exchange. The carrying values of this investment in associates and the values indicated by prices quoted on the Jamaica Stock Exchange ("JSE Indicative Value") as at 31 December were as follows:

| | 2016 \$'000 | 2015 \$'000 |
|--|----------------|----------------|
| Seprod Limited - | | |
| 163,420,345 (2015 - 163,420,345) stock units | 4,869,926 | 3,359,922 |

This investment represents 31.65% of the issued share capital of Seprod Limited. There are no contingent liabilities relating to the Board's interest in Seprod Limited.

Summarised financial information for associate

Set out below is the summarised information for Seprod Limited which is accounted for using the equity method.

Summarised statement of financial position

| | 2016 | 2015 |
|-------------------------|-------------|-------------|
| | \$'000 | \$'000 |
| Current assets | 7,362,980 | 6,420,288 |
| Non-current assets | 10,063,326 | 9,085,470 |
| | 17,426,306 | 15,505,758 |
| Current liabilities | (6,660,515) | (3,516,447) |
| Non-current liabilities | (1,580,493) | (2,045,595) |
| | (8,241,008) | (5,562,042) |
| Net Asset | 9,185,298 | 9,943,716 |
| | | |

Notes to the Financial Statements 31 December 2016 (expressed in Jamaican dollars unless otherwise indicated)

9. Investment in Associated Company (Continued)

Summarised statement of comprehensive income

| | 2016 | 2015 |
|--|--------------|--------------|
| | \$'000 | \$'000 |
| Revenue | 15,781,917 | 13,777,863 |
| Other income | 1,051,619 | 760,629 |
| | 16,833,536 | 14,538,492 |
| Direct expenses | (12,291,448) | (11,114,536) |
| Selling, administrative and other operating expenses | (2,981,533) | (2,529,844) |
| Operating Profit | 1,560,555 | 894,112 |
| Finance costs | (374,631) | (290,054) |
| Profit before Taxation | 1,185,924 | 604,058 |
| Taxation | (310,715) | (281,317) |
| Net Profit | 875,209 | 322,741 |
| Other comprehensive income | 34,340 | 320,241 |
| Total Comprehensive Income | 909,549 | 642,982 |
| Reconciliation of summarised financial information | | |
| | 2016 | 2015 |
| | \$'000 | \$'000 |
| Opening net assets | | |
| 1 January | 9,943,716 | 9,791,313 |
| Profit for the period | 875,209 | 322,741 |
| Other comprehensive income | 34,340 | 320,241 |
| Dividends paid | (1,667,967) | (490,579) |
| Closing net assets | 9,185,298 | 9,943,716 |
| Carrying value - interest in associate - 31.65% | 2,906,768 | 3,146,809 |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| 10. Investments | | |
|----------------------------------|---------|---------|
| | 2016 | 2015 |
| | \$'000 | \$'000 |
| Non-current assets - | | |
| Government of Jamaica securities | 25,874 | 59,226 |
| Corporate bonds | 64,786 | 51,878 |
| | 90,660 | 111,104 |
| Current assets - | | |
| Reverse repurchase agreements | 749,448 | 655,621 |
| | 840,108 | 766,725 |
| | | |

- (a) Interest receivable on investments amounted to \$2,591,000 (2015 \$3,239,000). The effective weighted average interest rates on investments are 5.63% (2015 7.63%) and 2.04% (2015 5.32%) on Jamaican dollar and United States dollar investments respectively.
- (b) Investments have been allocated as follows:

| Coconut Replanting Fund (Note 22) 227,081 219,630 Staff Contingency Fund (Note 21) 167,799 154,990 Coconut Industry Board 124,102 89,040 | | 2016 \$'000 | 2015 \$'000 |
|--|-----------------------------------|----------------|----------------|
| Staff Contingency Fund (Note 21) 167,799 154,99 Coconut Industry Board 124,102 89,04 | Capital Fund (Note 19) | 321,126 | 303,056 |
| Coconut Industry Board 124,102 89,043 | Coconut Replanting Fund (Note 22) | 227,081 | 219,636 |
| 55,51 | Staff Contingency Fund (Note 21) | 167,799 | 154,991 |
| 840,108 766,729 | Coconut Industry Board | 124,102 | 89,042 |
| | | 840,108 | 766,725 |

(c) Short-term investments

Short-term investments comprise Government of Jamaica Local Registered Stock held under participation agreements/reverse repurchase agreements which mature in less than 90 days. Due to the short-term nature of the instruments, they are regarded as cash equivalents for the purposes of the statement of cash flows. Interest receivable on short term investments amounted to \$2,109,000 (2015 - \$2,186,000).

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

10. Investments (Continued)

(c) Short-term investments (continued)

Short-term investments have been allocated as follows:

| ~ | - ** - 1 | | |
|-----|----------|-----|----|
| 1 | T18 2 | -11 | na |
| ∪a, | pital | | |

| | 2016 \$'000 | 2015 \$'000 |
|--|----------------|----------------|
| Barita Investments Limited | 118,688 | 116,880 |
| First Caribbean International Bank Jamaica Limited | 11,348 | 18,594 |
| Jamaica Money Market Brokers Limited | 77,130 | 71,347 |
| NCB Capital Markets Limited | 113,315 | 95,260 |
| Interest receivable | 645 | 957 |
| THE COLUMN TO TH | 321,126 | 303,038 |
| Coconut Replanting Fund | 2016 | 2015 |
| | \$'000 | \$'000 |
| Barita Investments Limited | 35,679 | 34,203 |
| Proven Wealth Limited | 1,979 | 3,364 |
| Jamaica Money Market Brokers Limited | 109,788 | 93,543 |
| NCB Capital Markets Limited | 72,919 | 35,064 |
| Scotia Investments Limited | 3,517 | 2,246 |
| First Caribbean International Securities Limited | 2,337 | 1,911 |
| Interest receivable | 862 | 980 |
| | 227,081 | 171,311 |
| Staff Contingency Fund | | |
| | 2016 \$'000 | 2015 \$'000 |
| Barita Investments Limited | 34,371 | 44,734 |
| Proven Wealth Limited | 9,859 | 9,428 |
| Jamaica Money Market Brokers Limited | 3,561 | 3,470 |
| NCB Capital Markets Limited | 88,733 | 54,202 |
| Scotia Investments Limited | 2,422 | 2,328 |
| First Caribbean International Securities Limited | 2,193 | 2,117 |
| Interest receivable | 786 | 1,082 |
| | 141,925 | 117,361 |
| | | |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

10. Investments (Continued)

11. L

(c) Short-term investments (continued)

| Coconut Industry Board | | |
|--------------------------------------|----------------|----------------|
| Cocond industry Board | 2016 \$'000 | 2015 \$'000 |
| Barita Investments Limited | | 800 |
| Jamaica Money Market Brokers Limited | 13,344 | 12,355 |
| NCB Capital Markets Limited | 97,699 | 50,535 |
| Interest receivable | 299 | 221 |
| | 111,342 | 63,911 |
| Total short-term investments | 801,474 | 655,621 |
| Loans Receivable | | |
| Loans were disbursed from: | | |
| | 2016 \$'000 | 2015 \$'000 |
| The Board's working capital | | |
| (i) Related party loan | 368,018 | |
| (ii) Computer revolving loan | 307 | 553 |
| Capital Fund | 584_ | 740 |
| | 368,909 | 1,293 |

- (i) On 22 November 2016, the Board lent US\$2,886,855 to Seprod Limited, an associated company. The principal is repayable at the maturity date, 28 November 2018. The loan attracts an interest rate of 3% per annum, which is payable quarterly.
- (ii) The Board holds first lien on mortgage loans made to employees. The balance is repayable up to the time of retirement. The weighted average interest rate is 7%.

12. Deferred Expenditure

Comprising expenditure incurred on seed garden projects:

| | 2016 \$'000 | 2015 \$'000 |
|---|----------------|----------------|
| Balance as at the beginning of the year | 4,470 | 6,854 |
| Additions during the year | 2,529 | 234 |
| Write-offs during the year | (884) | (2,618) |
| Balance as at the end of the year | 6,115 | 4,470 |

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| 13. Inventories | | |
|--|----------------|----------------|
| | 2016 \$'000 | 2015 \$'000 |
| Bags, pesticides, weedicides and miscellaneous items | 2,672 | 3,182 |
| 14. Biological Assets | | |
| | 2016 \$'000 | 2015 \$'000 |
| Seeds in nurseries | 20,594 | 20,777 |
| 15. Receivables | | |
| | 2016 \$'000 | 2015 \$'000 |
| Withholding tax | 34,693 | 28,795 |
| GCT recoverable | 1,195 | 1,195 |
| Prepayments | 2,217 | 968 |
| Staff loans | 791 | 346 |
| Other | 3,275 | 1,598 |
| | 42,171 | 32,902 |
| 16. Cash at Bank and in Hand | | |
| | 2016 \$'000 | 2015 \$'000 |
| Cash at bank | 7,384 | 14,766 |
| Petty cash | 124 | 156 |
| | 7,508 | 14,922 |
| 17. Payables | | |
| | 2016 \$'000 | 2015 \$'000 |
| Accruals | 7,514 | 6,324 |
| Other | 4,081 | 4,801 |
| | 11,595 | 11,125 |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

18. Capital Surplus

| | 2016 \$'000 | 2015 \$'000 |
|---|----------------|----------------|
| Capital distribution received | 6,158 | 6,158 |
| Coconut Lethal Yellowing Fund | 702 | 702 |
| Copra Production Acceleration Fund | 3,750 | 3,750 |
| Donation of equipment | 1,790 | 1,790 |
| Donation of motor vehicle | 5 | 5 |
| Gain on disposal of stock units | 14,018 | 14,018 |
| Share of reserves of associated company | 578,790 | 620,685 |
| Surplus on disposal of premises | 3_ | 3_ |
| | 605,216 | 647,111 |

19. Capital Fund

(a) Effective 1 January 1993, a Capital Fund was established by the Board for the purpose of holding proceeds from the sale of shares and income from capital distributions. The income arising from investments allocated to the Capital Fund, less any authorised expenditure is transferred to this account on an annual basis.

This balance is represented by:

| | 2016 \$'000 | 2015 \$'000 |
|--|----------------|----------------|
| Non-current investment | | 18 |
| Short term investments (Note 10) | 321,126 | 303,038 |
| | 321,126 | 303,056 |
| Investment in associate | 94,799 | 3,554 |
| Loans receivable (Note 11) | 584 | 740 |
| Receivables - | | |
| Withholding tax recoverable | 11,963 | 9,785 |
| | 428,472 | 317,135 |
| (b) Transfer from income and expenditure account | | |
| | 2016 \$'000 | 2015 \$'000 |
| Interest and investment income | 32,439 | 24,877 |
| Add: Authorised income | 78,898 | |
| | 111,337 | 24,877 |
| | | |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

20. Fair Value Reserve

| | 2016 \$'000 | 2015 \$'000 |
|--------------------------------|----------------|----------------|
| Balance at beginning of year | 8,664 | 8,661 |
| Unrealised gain on investments | 228_ | 3 |
| Balance at end of year | 8,892 | 8,664 |

21. Staff Contingency Fund

(a) This fund was established in 1996 with money the Board received from a surplus, determined by qualified actuary, in the Seprod et al pension scheme, to which the Coconut Industry Board and its employees have been contributors from its inception. The fund which was originally intended to be used to supplement the pension of a specified category of Board's employees was renamed to reflect its true purpose of providing assistance to staff in certain circumstances. Income arising from investment of this fund, less any authorised expenditure, is transferred to this account on an annual basis.

| | \$'000 | \$'000 |
|---|----------------|----------------|
| Non-current investment | 25,874 | 37,630 |
| Short term investments (Note 10) | 141,925 | 117,361 |
| | 167,799 | 154,991 |
| Receivables - | | |
| Withholding tax recoverable | 11,130 | 9,285 |
| Supplementary Fund - Pension and health benefits | 38,698 | 24,500 |
| | 217,627 | 188,776 |
| Less: Post-employment benefits | (150,100) | (154,000) |
| | 67,527 | 34,776 |
| (b) Transfer from income and expenditure account | | |
| | 2016 \$'000 | 2015 \$'000 |
| Interest and investment income | 9,643 | 11,219 |
| Less: | | |
| (Decrease)/increase in post-employment benefit obligation | (13,900) | 15,100 |
| Authorised expenditure | 34,376 | (33,519) |
| | 30,119 | (7,200) |
| | | |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

22. Coconut Replanting Fund

(a) This fund was established in 2003 for the purpose of ensuring that adequate financing will be available for coconut replanting programmes which are crucial to the survival of the local coconut industry. Income arising from the investments allocated to this fund less authorised expenditure, which includes amounts expended for coconut seedlings, fertilizer and weed control grants to farmers participating in the programmes, is credited to this account.

| This balance is represented by: | | |
|--|---------|---------|
| | 2016 | 2015 |
| | \$'000 | \$'000 |
| Non-current investment | | 48,325 |
| Short term investments (Note 10) | 227,081 | 171,311 |
| | 227,081 | 219,636 |
| Receivables - | | |
| Withholding tax recoverable | 9,083 | 7,879 |
| | 236,164 | 227,515 |
| (b) Transfer to income and expenditure account | | |
| | 2016 | 2015 |
| | \$'000 | \$'000 |
| Interest and investment income | 16,621 | 15,071 |
| Less: Authorised expenditure | (8,321) | |
| | 8,300 | 15,071 |
| | | |

23. Reserve

(a) The reserve account include general reserves of \$20,000 (2015:\$20,000). These balances below represents the surplus on operations of the Coconut Industry Clearing House, which was transferred to the Coconut Industry Board in 1945.

| (b) Accumulated surplus is represented a | as fo | llows: |
|--|-------|--------|
|--|-------|--------|

| | \$'000 | \$'000 |
|--------------------|-----------|-----------|
| The Board | 159,852 | 65,235 |
| Associated company | 2,601,617 | 2,540,746 |
| | 2,761,469 | 2,605,981 |
| | | |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

24. Post-employment Benefits

| | 2016 | 2015 |
|---|-----------|-----------|
| | \$'000 | \$'000 |
| Amounts recognised in the statement of financial position - | | |
| Pension plan benefits | 20,900 | (46,700) |
| Other post-employment obligation | (150,100) | (154,000) |
| | (129,200) | (200,700) |
| Amounts recognised in profit or loss - | | |
| Pension plan benefits | 15,500 | 15,500 |
| Other post-employment benefits | 15,900 | 15,100 |
| Amounts recognised in other comprehensive income - | | |
| Pension plan benefits | (80,400) | (29,600) |
| Other postemployment benefits | (13,900) | 15,100 |
| | | |

Pension plan benefits

The Board participates in the Seprod et al Scheme, a benefit based pension scheme operated by Seprod Limited and approved organisations. The scheme provides benefits to members based on average earnings for the final 2 years of service. Employees are required to contribute 5% of pensionable salary; the Board makes contributions at rates recommended by independent actuaries, which is currently set at 5% of pensionable salary. The scheme is valued by independent actuaries annually using the Projected Unit Credit Method. The latest actuarial valuation was carried out as at 31 December 2016.

The amounts recognised in the statement of financial position were determined as follows:

| | 2016 \$'000 | 2015 \$'000 |
|--|----------------|----------------|
| Fair value of plan assets | (336,400) | (280,700) |
| Present value of funded obligations | 315,500 | 327,400 |
| (Asset)/liability in the statement of financial position | (20,900) | 46,700 |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

24. Post-employment Benefits (Continued)

Pension plan benefits (continued)

The amounts recognised in the statement of comprehensive income were as follows:

| | 2016 \$'000 | 2015 \$'000 |
|--|----------------|----------------|
| Current service cost | 10,600 | 8,600 |
| Interest cost | 28,500 | 27,500 |
| Interest income on plan assets | (23,600) | (20,600) |
| Included in staff costs (Note 7) | 15,500 | 15,500 |
| The movement in the defined benefit asset during the year was as follows: | | |
| | 2016 \$'000 | 2015 \$'000 |
| At beginning of year | 46,700 | 63,400 |
| Amounts recognised in profit or loss in the statement of comprehensive income | 15,500 | 15,500 |
| Amounts recognised in other comprehensive income | (80,400) | (29,600) |
| Contributions paid | (2,700) | (2,600) |
| Liability at end of year | (20,900) | 46,700 |
| The movement in the fair value of plan assets during the year was as follows | s: | |
| | 2016 \$'000 | 2015 \$'000 |
| At beginning of year | 280,700 | 220,200 |
| Interest income on plan assets | 23,600 | 20,600 |
| Re-measurement recognised on obligation | 38,300 | 45,800 |
| Contributions | 7,500 | 7,300 |
| Benefits paid | (13,700) | (13,200) |
| At end of year | 336,400 | 280,700 |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

24. Post-employment Benefits (Continued)

Pension plan benefits (continued)

The movement in the present value of the defined benefit obligation during the year was as follows:

| | 2016 \$'000 | 2015 \$'000 |
|------------------------------------|----------------|----------------|
| At beginning of year | 327,400 | 283,600 |
| Current service cost | 13,300 | 11,300 |
| Interest cost | 28,500 | 27,500 |
| Re-measurement gains on obligation | (42,100) | 16,100 |
| Benefits paid | (13,700) | (13,200) |
| Voluntary contribution | 2,100 | 2,100 |
| At end of year | 315,500 | 327,400 |
| | | |

As at the last valuation date, 31 December 2016, the present value of the defined benefit obligation was comprised of approximately \$220,100,000 relating to active employees, \$95,400,000 relating to members in retirement.

Expected contributions to the plan for the year ended 31 December 2017 amount to approximately \$1,461,000.

The distribution of plan assets was as follows:

| | 2016 | 2015 |
|----------------------------------|-------|------|
| | % | % |
| Quoted equities | 32.9 | 38.3 |
| Real estate | 7.4 | 10.9 |
| Government of Jamaica securities | 29.8 | 35.9 |
| Repurchase agreements | 11.8 | - |
| Promissory notes | 5.9 | |
| Corporate bonds | 4.6 | 5.9 |
| Other | | 9.0 |
| | 100.0 | 100 |
| | | |

Notes to the Financial Statements
31 December 2016
(expressed in Jamaican dollars unless otherwise indicated)

24. Post-employment Benefits (Continued)

Pension plan benefits (continued)

The sensitivity of the defined benefit obligation to changes in the weighted principal assumptions is:

| | Impact on Po | Impact on Post-employment obligations | | |
|-------------------------|-------------------------|---------------------------------------|---------------------------|--|
| | Change in Assumption | Increase in Assumption | Decrease in Assumption | |
| | | \$'000 | \$'000 | |
| Discount rate | 1% | (31,300) | 38,400 | |
| Future salary increases | 1% | 8,100 | (7,400) | |
| Pension increase | 1% | 29,300 | (30,400) | |

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions the same method (present value of the defined benefit obligation calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the pension liability recognised within the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis did not change compared to the previous period.

Other post-employment benefits

In addition to pension benefits described above, the Board provides supplementary pension benefits and retiree medical insurance benefits. The Board decided, on 27 February 2001, that members employed prior to 1995 who retire with at least 15 years of service with the Board, will receive benefits calculated as 2% x annual salary at retirement x service with the Board (subject to a maximum of two-thirds of the employee's final annual salary), less the annual pension payable from the Seprod Fund. The method of accounting and the frequency of valuations are similar to those used for the defined benefit pension scheme described above. The liability recognised in the statement of financial position was determined as follows:

| Present value of unfunded obligations | 150,100 | 154,000 |
|---------------------------------------|----------------|----------------|
| | 2016 \$'000 | 2015 \$'000 |
| | 0040 | 2045 |

The Board has earmarked certain investments for the purpose of funding the obligation arising from these benefits. These investments are allocated to the Staff Contingency Fund as disclosed in Notes 10 and 21 of the financial statements.

Notes to the Financial Statements
31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

24. Post-employment Benefits (Continued)

Other post-employment benefits (continued)

The movement in the present value of the defined benefit obligation during the year was as follows:

| | 2016 \$'000 | 2015 \$'000 |
|--|------------------------|----------------|
| At beginning of year | 154,000 | 129,500 |
| Current service cost | 2,800 | 2,700 |
| Interest cost | 13,100 | 12,300 |
| Past service cost | | 100 |
| Benefits paid | (5,900) | (5,700) |
| Re-measurement recognised on obligation | (13,900) | 15,100 |
| At end of year | 150,100 | 154,000 |
| The amounts recognised in the statement of comprehensive | income are as follows: | |
| | 2016 \$'000 | 2015 \$'000 |
| Current service cost | 2,800 | 2,700 |
| Interest cost | 13,100 | 12,300 |
| Past service cost | | 100 |
| Included in staff costs (Note 7) | 15,900 | 15,100 |

As at the last valuation date, 31 December 2016, the present value of the defined benefit obligation was comprised of approximately \$366,000,000 relating to active employees, \$122,500,000 relating to members in retirement.

The effects of a 1% movement in the post-employment health care cost were as follows:

| | Impact on Post-employment obligations | | |
|-------------------------|---------------------------------------|---------------------------|---------------------------|
| | Change in Assumption | Increase in Assumption | Decrease in Assumption |
| | | \$'000 | \$'000 |
| Discount rate | 1% | 8,600 | (3,500) |
| Future salary increases | 1% | 400 | (400) |
| Medical cost increase | 1% | 9,500 | (8,600) |

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

24. Post-employment Benefits (Continued)

Other post-employment benefits (continued)

Principal actuarial assumptions used in valuing post-employment benefits

The principal actuarial assumptions used were as follows:

| Future pension increases Medical cost trend rate | 8.50% | 7.50% |
|---|-------|-------|
| Future salary increases | 2.50% | 3.50% |
| | 6.00% | 5.00% |
| Discount rate | 9.00% | 8.50% |
| | 2016 | 2015 |

Risks associated with pension plans and post-employment plans

Through its defined benefit pension plans and post-employment medical plans, the Board is exposed to a number of risks, the most significant of which are detailed below:

Asset volatility

The plan liabilities are calculated using a discount rate set with reference to Government of Jamaica bond yields; if plan assets underperform this yield, this will create a deficit.

As the plan matures, the Board intends to reduce the level of investment risk by investing more in assets that better match the liabilities. The Government bonds represent investments in Government of Jamaica securities.

The Board believes that due to the long-term nature of the plan liabilities, a level of continuing equity investment is an appropriate element of the Board's long term strategy to manage the plans efficiently. See below for more details on the Board's asset-liability matching strategy.

Changes in bond yields

A decrease in Government of Jamaica bond yields will increase plan liabilities, although this will be partially offset by an increase in the value of the plans' bond holdings.

Inflation risk

Higher inflation will lead to higher liabilities. The majority of the plan's assets are either unaffected by fixed interest bonds, meaning that an increase in inflation will reduce the surplus or create a deficit.

Life expectancy

The majority of the plan's obligations are to provide benefits for the life of the member, so increases in life expectancy will result in an increase in the plan's liabilities. This is particularly significant, where inflationary increases result in higher sensitivity to changes in life expectancy.

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

24. Post-employment Benefits (Continued)

Risks associated with pension plans and post-employment plans (continued)

The responsibility for the management of the assets of the Fund is vested in the Board of Trustees and NCB Insurance Company Limited representatives who are the fund and investment managers. They ensure that the investment positions are managed within an asset-liability matching (ALM) framework that has been developed to achieve long-term investments that are in line with the obligations under the pension fund. Within this framework, the Fund's ALM objective is to match assets to the pension obligations by investing in long-term fixed interest securities with maturities that match the benefit payments as they fall due. The Fund actively monitors how the duration and the expected yield of the investments are matching the expected cash outflows arising from the pension obligations. The Fund has not changed the processes used to manage its risks from previous periods. The Fund does not use derivatives to manage its risk. Investments are well diversified, such that the failure of any single investment would not have a material impact on the overall level of assets. A large portion of assets in 2016 consists of bonds, equities and real estate.

Funding levels are monitored on an annual basis and the current agreed contribution rate is 5% of pensionable salaries. The next triennial valuation is due to be completed as at 31 August 2017. The Company considers that the contribution rates set at the last valuation date to be sufficient to prevent a deficit and that regular contributions, which are based on service costs, will not increase significantly.

The weighted average duration of the defined benefit obligation is 13 years for the pension fund and 13 years for the post-employment medical benefits.

25. Related Party Balances and Transactions

(a) Year-end balances arising from transactions with related parties:

| | 2016 \$'000 | 2015 \$'000 |
|----------------------------------|----------------|----------------|
| Loans receivable - | | |
| Directors | 490 | 569 |
| Receivables - | | |
| Coconut Windstorm Insurance Fund | | 793 |
| Payables - | | |
| Coconut Windstorm Insurance Fund | 11,716 | - |

The loan amounting to \$490,000 is to be repaid by deductions of \$50,000 from the payment for each delivery of coconut oil to the Board. The loan is interest free.

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| Rela | ated Party Balances and Transactions (Continued) | | |
|------|---|----------------|------------------|
| The | following transactions were carried out with related parties: | | |
| (b) | Purchases of goods/services: | | |
| | | 2016 \$'000 | 2015 \$'000 |
| | Purchases of goods - | 3 000 | \$ 000 |
| | Directors | 35,367 | 35,420 |
| | | | |
| | Insurance expense - | | |
| | Coconut Windstorm Insurance Fund | 817 | 768 |
| (c) | Sales of services: | | |
| (0) | | 2016 \$'000 | 2015 \$'000 |
| | Cess income - | | COMMUNICATION OF |
| | Seprod Limited (Associated company) | 6,575 | 5,611 |
| (d) | Other transactions: | | |
| | | 2016 \$'000 | 2015 \$'000 |
| | Dividends received - | | |
| | Seprod Limited (Associated company) | 527,848 | 155,250 |
| (e) | Key management compensation: | | |
| | | 2016 \$'000 | 2015 \$'000 |
| | Salaries and other short-term employee benefits | 17,391 | 16,483 |
| | Statutory contributions | 1,062 | 1,031 |
| | Pension benefits | 686 | 639 |
| | | 19,139 | 18,153 |
| | Directors' emoluments – | | |
| | Fees | 3,072 | 1,991 |
| | | | 1,001 |



Independent auditor's report

To the Members of Coconut Windstorm Insurance Fund

Report on the audit of the financial statements

Our opinion

In our opinion, the financial statements give a true and fair view of the financial position, of Coconut Windstorm Insurance Fund (the Fund) as at 31 December 2016, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards.

What we have audited

The Fund's financial statements comprise:

- the statement of financial position as at 31 December 2016;
- the statement of comprehensive income for the year then ended;
- · the statement of cash flows for the year then ended; and
- the notes to the financial statements, which include a summary of significant accounting policies.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (ISAs). Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independence

We are independent of the Fund in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants (IESBA Code). We have fulfilled our other ethical responsibilities in accordance with the IESBA Code.

Responsibilities of management for the financial statements

Management is responsible for the preparation and fair presentation of the 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.

In preparing the financial statements, management is responsible for assessing the Fund's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Fund or to cease operations, or has no realistic alternative but to do so.



Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit 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 Fund's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Fund's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Fund to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the
 disclosures, and whether the financial statements represent the underlying transactions and events
 in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Chartered Accountants

26 July 2017 Kingston, Jamaica

Coconut Industry Board Coconut Windstorm Insurance Fund

Statement of Comprehensive Income

Year ended 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| | 2016 \$'000 | 2015 \$'000 |
|---|----------------|----------------|
| Income | | |
| Contractual insurance premiums | 3,233 | 3,207 |
| Interest | 9,026 | 10,337 |
| | 12,259 | 13,544 |
| Expenditure | | |
| Audit fees | 220 | 155 |
| Telephone, postage and telegrams | 80 | 74 |
| Salaries and management fees | 100 | 100 |
| Stationery and general expenses | 96 | 94 |
| | 496 | 423 |
| Net Surplus, being Total Comprehensive Income | 11,763 | 13,121 |
| Accumulated fund at beginning of year | 186,476 | 173,355 |
| Accumulated Fund | 198,239 | 186,476 |

Coconut Windstorm Insurance Fund

Statement of Financial Position

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| | Note | 2016 \$'000 | 2015 \$'000 |
|------------------------|------|----------------|----------------|
| Current Assets | | | |
| Sundry debtors | 4 | 13,317 | 10,971 |
| Short term investments | 6 | 173,109 | 174,929 |
| Coconut Industry Board | | 11,715 | - |
| Cash at bank | | 99 | 1,370 |
| | | 198,240 | 187,270 |
| Current Liabilities | | | |
| Payables | | 1 | 1 |
| Coconut Industry Board | | | 793 |
| Net Current Assets | | 198,239 | 186,476 |
| Accumulated Fund | | 198,239 | 186,476 |

Approved for issue by the Board of Directors on July 25, 2017 and signed on its behalf by:

Granville Marsh Director

Christopher Gentles

Director

Coconut Industry Board Coconut Windstorm Insurance Fund

Statement of Cash Flows

Year ended 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

| | 2010 | 2045 |
|---|----------------|----------------|
| | 2016 \$'000 | 2015 \$'000 |
| Cash Flows from Operating Activities | | 7:3030 |
| Net surplus | 11,763 | 13,121 |
| Adjusted for: | | |
| Interest income | (9,025) | (10,337) |
| | 2,738 | 2,784 |
| Changes in operating assets and liabilities | | |
| Sundry debtors | (2,346) | (2,532) |
| Provided (to)/by Coconut Industry Board | (12,508) | 2,886 |
| Net cash (used in)/provided by operating activities | (12,116) | 3,138 |
| Cash Flows from Investing Activities | | |
| Interest received | 9,025 | 10,337 |
| Cash provided by investing activities | 9,025 | 10,337 |
| (Decrease)/Increase in cash and cash equivalents | (3,091) | 13,475 |
| Cash and cash equivalents at beginning of year | 176,299_ | 162,824 |
| Cash and Cash Equivalents at End of Year | 173,208 | 176,299 |
| Comprising: | | |
| Cash at bank and in hand | 99 | 1,370 |
| Short-term investments | 173,109 | 174,929 |
| | 173,208 | 176,299 |
| | | |

Coconut Windstorm Insurance Fund

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

1. General

The Coconut Windstorm Insurance Fund ("The Fund") was established pursuant to the Coconut Insurance Act, for the operation by the Coconut Industry Board ("The Board") of a scheme for the automatic insurance and contractual insurance of coconut trees against the risk of windstorm damage. Provisions relating to qualification for, and determination and payment of benefits are contained in the Coconut Windstorm Insurance Regulations, 1949.

All moneys forming part of the fund are to be invested, in such manner as the Board may decide, in public securities of Jamaica or of any Commonwealth country, or in any securities which are lawful for the investment of trustee funds, or placed on deposit in such bank or banks as the Board may direct.

The Board may effect such reinsurance in respect of the whole or any part of the potential liability incurred by the Fund at such rates and upon such conditions as it thinks fit.

2. Significant Accounting Policies

The principle accounting policies applied in the preparation of these financial statements are set out below. These policies have been consistently applied to all the years presented, unless otherwise stated.

(a) Basis of preparation

These financial statements have been prepared in accordance with International Financial Reporting Standards (IFRSs), and have been prepared under the historical cost convention as modified by the revaluation of certain financial assets.

The preparation of financial statements in conformity with IFRSs requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Board's accounting policies. Although these estimates are based on management's best knowledge of current events and actions, actual results could differ from those estimates. At 31 December 2016, in the opinion of the Board, there are no significant estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities of the fund within the next year.

Standards, interpretations and amendments to published standards effective in the current year. At the date of authorisation of these financial statements, certain new and amended standards and interpretations to existing standards have been published that became effective during the current financial year. The Board has assessed the relevance of all such new standards, interpretations and amendments and has determined that none are relevant to the Fund's operations.

Coconut Windstorm Insurance Fund

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(a) Basis of preparation (continued)

Standards, interpretations and amendments to published standards that are not yet effective. The Board has concluded that the following standards which are published but not yet effective, are relevant to the Fund's operations, and will impact the Fund's accounting policies and financial disclosures as discussed below. These pronouncements are effective for annual periods beginning on or after the dates noted, and will be applied by the Fund as of those dates, unless otherwise noted.

- IFRS 9, 'Financial instruments', addresses the classification, measurement and recognition of financial assets and financial liabilities. The complete version of IFRS 9 was issued in July 2016. It replaces the guidance in IAS 39 that relates to the classification and measurement of financial instruments, IFRS 9 retains but simplifies the mixed measurement model and establishes three primary measurement categories for financial assets: amortised cost, fair value through other comprehensive income (OCI) and fair value through profit or loss. The basis of classification depends on the entity's business model and the contractual cash flow characteristics of the financial asset. Investments in equity instruments are required to be measured at fair value through profit or loss with the irrevocable option at inception to present changes in fair value in OCI not recycling. There is now a new expected credit losses model that replaces the incurred loss impairment model used in IAS 39. For financial liabilities there were no changes to classification and measurement except for the recognition of changes in own credit risk in other comprehensive income, for liabilities designated at fair value through profit or loss. IFRS 9 relaxes the requirements for hedge effectiveness by replacing the bright line hedge effectiveness tests. It requires an economic relationship between the hedged item and hedging instrument and for the 'hedged ratio' to be the same as the one management actually use for risk management purposes. Contemporaneous documentation is still required but is different to that currently prepared under IAS 39. The standard is effective for accounting periods beginning on or after 1 January 2018. Early adoption is permitted. The Board is yet to assess IFRS 9's full impact on the Fund.
- IFRS 15, 'Revenue from contracts with customers' deals with revenue recognition and establishes principles for reporting useful information to users of financial statements about the nature, amount, timing and uncertainty of revenue and cash flows arising from an entity's contracts with customers. Revenue is recognised when a customer obtains control of a good or service and thus has the ability to direct the use and obtain the benefits from the good or service. The standard replaces IAS 18 'Revenue' and IAS 11 'Construction contracts' and related interpretations. The standard is effective for annual periods beginning on or after 1 January 2017 and earlier application is permitted. The Board is in the process of assessing the impact of IFRS 15 on the Fund.

Coconut Windstorm Insurance Fund

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(b) Foreign currency translation

Functional and presentation currency

Items included in the financial statements are measured using the currency of the primary economic environment in which the entity operates ('the functional currency'). The financial statements are presented in Jamaican dollars, which is the functional and presentation currency.

Transactions and balances

Foreign currency transactions are accounted for at the exchange rates prevailing at the dates of the transactions. At year end, monetary assets and liabilities denominated in foreign currency are translated using the closing exchange rate. Exchange differences arising from the settlement of transactions at rates different from those at the dates of the transactions and unrealised foreign exchange differences on unsettled foreign currency monetary assets and liabilities are recognised in the statement of comprehensive income.

(c) Financial instruments

A financial instrument is any contract that gives rise to both a financial asset in one entity and a financial liability or equity in another entity.

Financial assets

The Fund's financial assets comprise cash and short term investments, and balances due from Coconut Industry Board.

Investment securities

The Fund's investment securities are classified as available-for-sale. The Board's management determines the classification of its investments at the time of purchase and re-evaluates such designation on a regular basis.

Available-for-sale financial assets are non-derivatives that are either designated in this category or not classified in any of the other categories. Purchases and sales of investments are recognised on the trade date - the date that the Fund commits to purchase or sell the asset. Investments are derecognised when the rights to receive cash flows from the investments have expired or have been transferred and the Fund has transferred substantially all risks and rewards of ownership.

Investments are initially recognised at fair value plus transaction costs and are subsequently carried at fair value.

Coconut Windstorm Insurance Fund

Notes to the Financial Statements

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(c) Financial instruments (continued)

Changes in the fair value of monetary securities denominated in a foreign currency and classified as availablefor-sale are analysed between translation differences resulting from changes in amortised cost of the security and other changes in the carrying amount of the security. The translation differences are recognised in the net surplus and other comprehensive income. Other changes in the fair value of both monetary and nonmonetary securities classified as available-for-sale are recognised in equity.

When securities classified as available-for-sale are sold or impaired, the fair value adjustments accumulated in the fair value reserve are included in the statement of comprehensive income as 'gains and losses on maturity and disposal of available-for-sale investment'. Interest on available-for-sale securities, calculated using the effective interest method, is recognised in the statement of comprehensive income.

The Board assesses for the Fund at each year end whether there is objective evidence that a financial asset or a group of financial assets is impaired. A financial asset is considered impaired if its carrying amount exceeds its estimated recoverable amount. The recoverable amount of a financial asset carried at fair value is the present value of expected future cash flows discounted at the current market rate for a similar financial asset.

Loans and receivables

Trade and other receivables

Trade and other receivables are classified as loans and receivables and are carried at original invoice value less provision made for impairment of these receivables based on a review of all outstanding amounts at the year end. A provision for impairment of trade receivables is established when there is objective evidence that the Fund will not be able to collect all amounts due according to the original terms of receivables. The amount of the provision is the difference between the carrying amount and the recoverable amount, the recoverable amount being the present value of expected cash flows, discounted at the original effective interest rate.

Cash at bank

Cash at bank is carried at cost and classified as loans and receivables.

Financial liabilities

The Fund's financial liabilities are initially measured at fair value, net of transactions costs and are subsequently measured at amortised cost using the effective interest method. At year end, there were no financial liabilities. Financial liabilities in the prior year comprised amounts due to Coconut Industry Board.

(d) Income recognition

Income comprises the fair value of the consideration received or receivable for the provision of services in the ordinary course of the Fund's activities. Income is shown net of General Consumption Tax.

Coconut Windstorm Insurance Fund

Notes to the Financial Statements

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

2. Significant Accounting Policies (Continued)

(d) Income recognition (continued)

Contractual Insurance Premiums

Contractual Insurance premiums written are recognised on a pro-rated basis over the life of the policies written.

Interest income

Interest income is recognized in the income statement on a time-proportion basis using the effective interest method

3. Financial Risk Management

The Fund's activities expose it to a variety of financial risks: market risk (including currency risk, fair value interest rate risk, cash flow interest rate risk and price risk), credit risk and liquidity risk, which is managed by the Board. The Board's overall financial risk management efforts seek to minimise potential adverse effects on the Fund's financial performance arising mainly from market risk.

The Board's risk management policies are designed to identify and analyse these risks, to set appropriate risk limits and controls, and to monitor the risks and adherence to limits by means of reliable and up-to-date information systems. The Board periodically reviews its risk management policies and systems to reflect changes in markets, products and emerging best practice.

The members of the Board are ultimately responsible for the establishment and oversight of the risk management framework. The Board has established a Finance Committee for managing and monitoring financial risks, as well as to manage the Board's and the Fund's assets and liabilities and the overall financial structure. The Finance Committee is also primarily responsible for the funding and liquidity risks of the Board.

There has been no change to the Fund's exposure to financial risk or the manner in which such risks are managed.

(a) Market risk

The Fund experiences exposure to market risk, which is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risks mainly arise from changes in foreign currency exchange rates and interest rates. Market risk is monitored by the Board which reviews the price movement of financial assets.

Currency risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates.

The Fund is exposed to foreign exchange risk arising from US dollar investments. The Fund manages its foreign exchange risk by closely monitoring currency positions and seeking to maximise foreign currency earnings. The Fund exposure to foreign currency exchange rate risk at year end was \$18,452,000 (2015 - Nil).

Coconut Windstorm Insurance Fund

Notes to the Financial Statements 31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Market risk (continued)

Foreign currency sensitivity

The sensitivity analysis represents outstanding foreign currency denominated monetary items and adjusts their translation at the year-end for changes in foreign currency rates. The change in currency rate below represents management's assessment of the possible change in foreign exchange rates. The sensitivity of the net surplus is attributable to the Board's cash and cash equivalents and investments.

If at 31 December 2016, the Jamaican dollar strengthened/weakened by 1 %/(6%) (2015 – 1%(8%) against the US dollar, with all other variables held constant, net surplus would have (decreased)/increased by approximately (\$185,000)/\$1,110,000 (2015 – Nil). The percentage represents management's assessment of the possible range of changes in the rate of exchange to the US dollar.

Interest rate risk

Interest rate risk is the risk that the value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates.

Fixed interest rate instruments expose the Fund to fair value interest risk on its financial assets. Floating rate instruments expose the Board to cash flow interest risk. The Board's interest rate risk policy requires it to manage interest rate risk by maintaining a balanced investment portfolio for the Fund.

There is no significant exposure to interest rate risk on short-term investments, as these investments have a short term to maturity and are constantly re-invested at current market rates.

(b) Credit risk

The Fund takes on exposure to credit risk, which is the risk that its counterparties will cause a financial loss for the Fund by failing to discharge their contractual obligations. Credit exposures arise principally from the Fund's investment activities. The Board structures the levels of credit risk it undertakes for the Fund by placing limits on the amount of risk accepted in relation to a single counterparty.

The Board establishes an allowance for impairment that represents its estimate of incurred losses in respect of investments, loans and receivables. The Board addresses impairment assessment in two areas: individually assessed allowances and collectively assessed allowances.

The Board limits the exposure of the Fund to credit risk by investing mainly in liquid securities, with counterparties that have high credit quality and Government of Jamaica securities. Accordingly, management does not expect any counterparty to fail to meet its obligations.

(c) Liquidity risk

Liquidity risk is the risk that the Fund is unable to meet its payment obligations associated with its financial liabilities when they fall due. Prudent liquidity risk management implies maintaining sufficient cash and marketable securities, the availability of funding through an adequate amount of committed credit facilities and the ability to close out market positions. Liquidity risk is not usually significant for the Fund, except in instances of natural disasters affecting insured trees.

Coconut Windstorm Insurance Fund

Notes to the Financial Statements

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(c) Liquidity risk (continued)

Liquidity risk management process

The Board's liquidity management process for the Fund includes:

- Monitoring future cash flows and liquidity on a daily basis. This incorporates an assessment of expected cash flows and the availability of high grade collateral which could be used to secure funding if required;
- Maintaining a portfolio of highly marketable and diverse assets that can easily be liquidated as protection against any unforeseen interruption to cash flows and;
- (iii) Optimising cash returns on investments.

Due to the nature of its activities, the Fund has no significant levels of financial liabilities and has significant financial assets to cover such financial liabilities that do arise in the course of normal operations.

(d) Capital management

The Board's objectives when managing capital for the Fund are to safeguard the Fund's ability to continue as a going concern in order to maintain sufficient surplus to cover potential windstorm damage to insured trees (Note 5).

(e) Fair value estimation

Fair value is the amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties in an arm's length transaction.

The carrying values of cash at bank, short-term investments, due to/due from Coconut Industry Board and payables are assumed to approximate their fair values due to the short-term maturity of these instruments.

4. Sundry Debtors

| \$'000 | |
|--------|--------|
| | 10,971 |
| 2016 | \$'000 |

5. Contingent Liabilities

During the year, the potential liability of the Fund for coconut windstorm damage was \$73,284,000 (2015 - \$71,056,000).

Coconut Windstorm Insurance Fund

Notes to the Financial Statements

31 December 2016

(expressed in Jamaican dollars unless otherwise indicated)

6. Short-term Investments

| | Cost | | Interest receivable | | To | tal |
|-----------------------|----------------|----------------|---------------------|----------------|----------------|----------------|
| | 2016 \$'000 | 2015 \$'000 | 2016 \$'000 | 2015 \$'000 | 2016 \$'000 | 2015 \$'000 |
| Government securities | 172,592 | 174,118 | 517 | 811 | 173,109 | 174,929 |

These investments are reverse repurchase agreements which mature in less than 90 days, and are regarded as cash equivalents.

7. Related Party Transactions

(a) Year-end balances arising from transactions with related parties

| | 2016 \$'000 | 2015 \$'000 |
|------------------------|----------------|----------------|
| Receivables - | | |
| Coconut Industry Board | 11,716 | |
| Payables - | | |
| Coconut Industry Board | | 793 |
| (b) Sales of services | | |
| | 2016 \$'000 | 2015 \$'000 |
| Premium income - | | |
| Coconut Industry Board | 817 | 768 |
| Directors | 2,416 | 2,439 |
| | 3,233 | 3,207 |

COCONUT PRODUCTION & CONSUMPTION

PRODUCTION

| | 2016 | | 2015 | |
|---|-------------------------------|---------------------------|-------------------------------|-----------------------------|
| | 1,000 Nuts | <u>%</u> | 1,000 Nuts | <u>%</u> |
| Parish | | | | |
| St. Thomas | 45 | 4.5 | 135 | 12.7 |
| Portland | 56 | 5.6 | 53 | 4.9 |
| St. Mary | 456 | 45.2 | 649 | 60.7 |
| St. Catherine | 318 | 31.6 | 133 | 12.4 |
| St. Elizabeth | 131 | 13.0 | 98 | 9.2 |
| Others | 1,007 | 0.1 100.0 | 1,069 | 0.1 100.0 |
| Dry & Water Coconuts (est.) | 98,158 99,165 | | 79,708 80,777 | |
| CONSUMPTION | | | | |
| Seed Coconuts - Local Seed Coconuts - Export Dry and Water Coconuts | 122 33 99,010 99,165 | 0.1 - 99.9 100.0 | 173 46 80,558 80,777 | 0.2 0.1 99.7 100.0 |

TABLE II

DISPOSAL OF COCONUTS DELIVERED BY GROWERS

| | 2016 <u>Units</u> | Adjusted 2015 Units |
|---|----------------------|---------------------------|
| Exported as seed | 303 | 418 |
| Used locally for seed, jelly coconuts, etc. | 15,206 | 28,815 |
| | 15,509 | 29,233 |

TABLE III

UNITS OF COCONUTS DELIVERED BY GROWERS IN 2016

| | | | | Gro | wers | Units Delivered | |
|--------------------------------|----------------|-----|-------|-----|-------|------------------------|-------|
| Units of Coconuts In Groups of | | | No. | % | No. | % | |
| | 1 and up to 20 | | | 32 | 39.6 | 257 | 1.7 |
| Over | | 44 | 50 | 13 | 16.1 | 373 | 2.4 |
| " | 50 | a | 100 | 15 | 18.5 | 1,070 | 6.9 |
| *** | 100 | | 200 | 9 | 11.1 | 1,306 | 8.4 |
| .11 | 200 | ** | 500 | 7 | 8.6 | 1,962 | 12.6 |
| | 500 | *** | 1,000 | 3 | 3.7 | 2,207 | 14.2 |
| " | 1,00 | 0 " | 5,000 | 1 | 1.2 | 1,221 | 7.9 |
| .11 | 5,00 | 0 | | 1 | 1.2 | 7,113 | 45.9 |
| | | | | 81 | 100.0 | 15,509 | 100.0 |

Note

One unit = 110 nuts

TABLE IV

SEE ITEM 12 - REMUNERATION

DIRECTORS' COMPENSATION - 2016

| Name | Position of Director | Fees | Motor Vehicle Upkeep/ Travelling or Value of Assignment of Motor Vehicle | Honoraria | All Other Compensations including Non- cash Benefits as Applicable | Total |
|----------------------------|-------------------------|--------------|--|-----------|--|--------------|
| Day of the second | | \$ | \$ | \$ | S | S |
| Christopher Gentles | Board Chairman | 382,500 | 92,322.00 | | 80,000 | 554,822.00 |
| Leonard Green* | Board Chairman | 90,500 | 90,104.00 | | 30,000 | 210,604.00 |
| Shelley-Ann Gayle Morris* | Board Member | 30,000 | 13,664.00 | | | 43,664.00 |
| Hugh Gentles | Board Member | 112,050 | 93,906.00 | | | 205,956.00 |
| James Joyles* | Board Member | 33,500 | 13,664.00 | | | 47,164.00 |
| Granville Marsh | Board Member | 228,300 | 80,706.00 | | | 309,006.00 |
| Wayne McLaughlin* | Board Member | 43,500 | 17,080.00 | | | 60,580.00 |
| Frank Phipps | Board Member | 215,600 | 85,318.00 | | | 300,918.00 |
| Alaric Pottinger | Board Member | 197,600 | 154,665.80 | | | 352,265.80 |
| Stephen Black | Board Member | 152,500 | 72,237.20 | | | 224,737.20 |
| Homer Davis | Board Member | 99,000 | 140,248.00 | | | 239,248.00 |
| Charles Douglas | Board Member | 140,850 | 56,196.00 | | | 197,046.00 |
| Sandra Ennis | Board Member | 186,600 | 139,249.00 | | | 325,849.00 |
| | 1,912,500 | 1,049,360.00 | | 110,000 | 3,071,860.00 | |
| Raymond Mattis (Govt.Rep.) | 7,000 | 39,370.00 | | 2000 | 46,370.00 | |
| | | 1,919,500 | 1,088,730.00 | | 110,000 | 3,118,230.00 |

^{*}These members served from January 1, 2016 to March 31, 2016