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Acronyms

ACM The Association of Caribbean Media Workers
ACP Africa Caribbean Pacific
APP Agriculture Policy Programme
ASTI Agricultural Science Technology and Innovation
AVRDC The World Vegetable Center (Taiwan)
BSD Black Sigatoka Disease
BADMC Barbados Agricultural Development and Marketing Corporation
CAFAN Caribbean Farmers Network
CAPE Caribbean Advanced Proficiency Examination
CARDI Caribbean Agricultural Research and Development Institute
CARIFORUM Caribbean Forum
CDB Caribbean Development Bank
CFC Common Fund for Commodities
CLAYUCA The Latin American and Caribbean Acronyms Consortium for the Support of Cassava Research and Development
CDB Caribbean Development Bank
CFC Common Fund for Commodities
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(Cayman Islands)
MSc  Master of Science
MTP  Medium Term Plan
OECs  Organisation of Eastern Caribbean States
R&D  Research and Development
RADA  Rural Agricultural Development Authority (Jamaica)
SFC  Sugarcane Feeds Centre
Texas A&M  Texas Agricultural and Mechanical University
TIS  Technology Information System
US  United States
US$  United States Dollar
UWI  The University of the West Indies
XC$  Eastern Caribbean Dollar
Overview

Forty years of research and development

CARDI celebrated 40 years on December 5th, 2014; it was established on December 5, 1974, with the signatures of ministers with responsibility for agriculture, of the then 12 existing members of CARICOM. It replaced the Regional Research Centre (RRC), which was located within the Imperial College of Tropical Agriculture (ICTA) and subsequently, the University of the West Indies (UWI). The establishment of CARDI was in response to the governments of the Region desire for equal emphasis to be placed on food commodities along with that being given, to those traditionally for export. Even in those years, governments were conscious of the need for the Region to enhance food production for nutrition security.

During 2014, in celebration of 40 years of ‘Improving lives through agricultural research,’ CARDI hosted a series of stakeholder engagement open days across the Region.

In his 40th anniversary message, Executive Director, Dr. Arlington Chesney said, “on behalf of the directors, management and staff, I commit CARDI to continue to work assiduously for the modernisation and revitalisation of the sector in the Region.”

But after 40 years, where and how can CARDI advance and improve. Dr. Chesney mused that “the Institute must continue its transition from research and development to research for development. This implies that its work must impact on the livelihoods of persons in the rural and agricultural communities, endeavour to develop technologies and processes that would allow for adoption and/or adaptation and/or scaling up, work with Member States to ensure that CARDI retains a motivated and devoted workforce and work with its shareholders, clients and strategic partners so as to consolidate its position as the preferred Regional Research for Development Institute.”
Three strategic areas

The strategic framework, that has informed CARDI’s activities and functions during the last two medium term periods, continued to be relevant and valid for the Medium Term Plan (MTP), 2014-2016. This strategic framework is defined by three Strategic Axes. Strategic Axis 1 is the principal framework for conducting CARDI’s business and delivering on its mandate. It is concerned with the deployment of science, technology and innovation to contribute to the Region’s food and nutrition security and optimisation of the use and conservation of the natural resources. Strategic Axis 2 offers the platform for “working together” and the promotion of CARDI as the preferred agricultural research for development institution in CARICOM. Strategic Axis 3 seeks to mobilise the requisite resources and enhance the management of these resources.

1.0 Developing Sustainable Agri Business Industries

Strategic Axis

1. The Development of Sustainable Industries
   - Community development - crops and livestock
   - Germplasm
   - Emerging issues
   - Protected agriculture
   - Biotechnology development
   - Promotion of science, technology and innovation
   - Technical systems and services
   - Invasive species management
   - Climate change for agriculture development
   - Soil management
   - Water management

2. The Development of Strategic Linkages
   - Regional R&D strategies
   - Relationships with key institutions and partners
   - Membership base of CARDI
   - Branding CARDI as the preferred R&D institution in CARICOM

3. Institutional Strengthening
   - Aggressively mobilise external resources
   - Build the capacity of CARDI staff, its partners and stakeholders
   - Mobilise and leverage human and physical resources, as the conduit for attaining and efficiently utilising the resources.
1.1 Providing quality planting material to boost productivity and reduce product loss

The Region’s high and increasing food import bill is cause for concern, given the economic challenges faced with the decline in revenues due to loss of market share for traditional commodities. In addition, increasing consumption of processed imported foods has resulted in an increase in obesity and other lifestyle diseases. The imperative for the Region is to grow and consume more local foods which will provide economic and social benefits. During the year, CARDI continued with its efforts to provide high yielding planting material to develop domestic production for primary consumption and value added products, by focusing on improving productivity in key crops, sweet potato and other root crops, corn and livestock (sheep and goat).

Sweet potato

Research was concentrated in Antigua and Barbuda, St. Lucia and Barbados via the CARICOM/Japan Sweet potato project entitled, ‘Increasing sweet potato production for value added processing in selected CARICOM countries,’ which started in October 2012 and was completed in September 2014. The project’s objective was to increase production of specific sweet potato varieties that are suitable for processing in the three countries.

In Antigua and Barbuda, weaning and hardening facilities were refurbished and expanded and plantlets for selected processing varieties (Lovers Name, Beauregard), were received from St Vincent and the Grenadines. The distribution of vines of the selected varieties are being delivered to farmers.

Sweet potato work was also done in Grenada, where CARDI has been striving to boost production by introducing new varieties. Between 2012 and 2104, trials were carried out to compare imported varieties against popular local varieties. Two varieties from The World Vegetable Center (AVDRC) were the best performers in terms of tuber yield and tuber number. These varieties were also accepted in consumer taste tests.

Cassava

Cassava is seen as the commodity which has the potential to replace imports of wheat and corn. In addition, there are opportunities to replace other inputs used by manufacturers. This was the case in Jamaica, where CARDI, in collaboration with Diageo/Red Stripe, embarked on a project titled “Project Grow”, to produce enough locally grown cassava to replace 30% of the imported ingredient, high maltose syrup, in Red Stripe beer, with cassava starches.

The project had two components which involved CARDI:

- Establish 12 ha of cassava planting material. It was estimated that 1 ha of cassava (12,100 plants) would generate sufficient planting material for 15 ha of cassava production.
- Build capacity through technical assistance and training of stakeholders in best practices for cassava cultivation.

The training intervention was designed to utilise a farmer participatory methodology (field and classroom sessions). This approach comprised a modular programme of best practices in the areas of treatment of planting material, land preparation, crop management,
CARDI showed that the use of improved cassava varieties and simple agronomic practices, can triple yields from 12-15,000 kg/ha to 30-50,000 kg/ha.

Apart from its role in the project with Diageo/Red Stripe, CARDI Jamaica activities continued to support national priorities and current initiatives. During the year, CARDI continued to monitor the six project demonstration sites set up in the latter part of The Common Fund for Commodities (CFC) project.

The development of a competitive cassava industry in Barbados is high on the agriculture agenda in that country. There are number of benefits to be derived: food security by reducing dependence on imported wheat and corn, foreign exchange savings, availability of more nutritious foods to counteract the growth of life style diseases, production of value added products (flour, mash and chips for animal feed) and resulting employment opportunities.

The national plan calls for 4,000 ha of cassava cultivation, with an increased production of 25,000 to 35,000 kg/ha from the current levels of 8,000 to 15,000 kg/ha, which is uneconomical.

CARDI Barbados has taken up the mantle to help achieve increased productivity of this crop. The strategy used included the maintenance of a cassava field germplasm bank, which supplied clean planting material for multiplication in the CARDI’s field propagation nursery. The output from this nursery supplied quality planting materials to stakeholders (farmers, plantations, Ministry of Agriculture, etc.).

In 2014, on-farm trials were conducted at four plantations with irrigation capacity (Foursquare, Gale’s, Redland and The Barbados Agricultural Development and Marketing Corporation (BADMC)),

The training component was further enhanced by the adoption of the community-based Diageo Learning for Life programme, which was coordinated by CARDI professionals. The training initiative, which lasted for 9 weeks, gave the trainees exposure to the areas of training identified by the project. The Diageo Learning for Life programme was aligned to Jamaica’s National Training Certification Institute’s Level 1 programme in agriculture, geared specifically to cassava cultivation.

To further supplement capacity building a group dynamics approach was embarked upon, which also proved of utmost importance. This novel approach involved CARDI engaging the farmers weekly on the Project Grow farm, in sessions along a social intervention perspective. The main emphasis of the team building interventions was to expose the farmers in areas that support the agri-production environment including conflict resolution, stages of group formation, effective communication, team expectations and values, building synergy and problem solving techniques.

CARDI was recognised by Diageo/Red Stripe’s President of Supply for, the “level of technical support that was par excellence to what was seen throughout many countries before.” In extending his congratulations to the Jamaica team, CARDI Executive Director, Dr. Arlington Chesney said that “they have contributed to a breakthrough in the relationship between the large and well-established commercial sector with focused, result driven agricultural research”.

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CARDI is continually seeking to provide new varieties which have the characteristics to boost productivity, reduce post-harvest losses and adapt to changing climatic conditions. CARDI St Vincent and the Grenadines was at the forefront of these efforts and introduced 50 genotypes from the Pacific. These were micro-propagated in the tissue culture laboratory, at Orange Hill St. Vincent. The micro propagated planting material was then distributed to about 25 farmers for cultivation.

A review of the genotypes across farms and zones showed that the CE/IND/24 (IND 512), BL/SM/80 (Alafua) and the BL/SM/83 (Samoana), gave the highest yields, (1.5 – 2.0 kg corm weight).

Banana and Plantain

Black Sigatoka Disease (BSD) has been the scourge of the banana and plantain industries in several countries in the Region. Despite its decline, due to loss of market share in external markets, especially the European Union (EU), banana is still important to the economies of several Organisation of Eastern Caribbean States (OECS) countries and combating this disease is essential to the stakeholders. CARDI, with financial assistance from the Caribbean Development Bank (CDB), embarked on a project entitled, 'Development of an Integrated Disease Management Programme for Black Sigatoka Disease (BSD),' which aims to develop a sustainable and enhanced framework for the management of BSD.

CARDI selected FHIA hybrids using the following criteria: tolerance to BSD; consistently good performers in previous international and regional evaluations and recorded acceptance for eating and cooking quality within the Caribbean region.

This material was received by the tissue culture laboratory at Orange Hill, St. Vincent and the Grenadines where it was multiplied and cultivated 0.4 to 0.8 ha of cassava using CARDI recommended good agricultural practices. The planting material included recently introduced varieties BRA 383, CM 3306-4 and Mcol 22, along with locally available popular cultivars – White Stem White Root and Red Stem White Root. CARDI provided cassava planting material from the institute’s multiplication nursery at Graeme Hall.

Initial results have been very promising. At the Open Day, CARDI showed off the impressive yields obtained from improved varieties. Even though crops were harvested 5-6 months after planting, yields of 20,000 kg/ha were generally achieved. However, CARDI Country Representative, Dr. Cyril Roberts, emphasised that although improved varieties will impact positively on productivity, farmers must incorporate the use of proven technologies, to maximise their yields. According to Dr. Roberts, the adoption of simple agronomic practices can increase yields from the current levels to 30,000 to 50,000 kg/ha.

Corn

CARDI Grenada imported 11 new corn varieties from International Maize and Wheat Improvement Center (CIMMYT) and tested them in field trials at two separate locations, the CARDI Field Station at Calvigny and the Mirabeau Propagating Station. Out of the 11 varieties tested, four new open pollinated high yielding varieties, which might be suitable for production in Grenada, were identified. On-farm validations will be carried out before recommendations are made.

Dasheen

In countries like St. Vincent and the Grenadines and Dominica, dasheen is an important commercial crop which is traded regionally and internationally. There is also a high level of domestic consumption.
1.2 Supporting seed production in Belize

CARDI Belize has been instrumental in the establishment of a community seed production facility for the Nim La Ha Chutamil Cooperative, Silver Creek Village, Toledo district. At a handing over ceremony on March 28, Cooperative members received from CARDI the much needed start up equipment for the production of high quality seeds. Funded under the Food and Agriculture Organization (FAO) Seeds for Development project, farmers from the Toledo district can now utilise the thrashing/shelling, drying and storage equipment, which is owned and operated by the cooperative for producing seeds. Presently, the facility only processes corn and beans but there are plans to expand it to rice processing. Prior to the handing over of the equipment, farmers received training on seed production, condition and storage of seeds. Stock seeds of selected varieties of corn and beans were also supplied to farmers for commercial seed production. Speaking at the handing over ceremony, CARDI Belize Country Representative, Anil Sinha, encouraged the farmers to make good use of the equipment and the training they received at the initial stages of the project. Also on hand at the official handing over of the equipment was Chief Agricultural Officer, Roberto Harrison, who commended the initiative.

1.3 Revitalizing St Lucia’s hot pepper industry

Hot pepper remains an important commodity grown in the Region and using the value chain approach, CARDI continues to provide support to revitalising the industry. A project in St. Lucia was jointly funded by Inter-American Institute for Cooperation on Agriculture (IICA) and CARDI with the objective:

- To facilitate increased hot pepper productivity and coordinate increased hot pepper production thereby contributing to revitalizing of viable hot pepper industries in St. Lucia.

Four extension officers of the Ministry of Agriculture and twenty-six hot pepper farmers attended a workshop which addressed issues of the importance of planting quality seeds and healthy seedlings, drainage, irrigation, land preparation techniques for a sustainable crop yield and critical management practices at transplanting.

1.4 Improving small ruminant production

The development of a small ruminant industry (sheep and goat) in the Region is of high priority, given the high level of imports of mutton and goat meat, US$48.3 million in 2014. Efforts are being continued across the Region to address this issue. CARDI’s research and development efforts were focused on increasing the production and productivity of the sector, improving the marketability of the products through appropriate post-harvest systems and building the capacity of a range of stakeholders across the respective value chains.

The sheep and goat populations in Trinidad and Tobago and Jamaica were boosted by the importation of improved breeding stock from...
CARDI Trinidad and Tobago developed a six-module training programme, specifically targeting small ruminant farmers. The six modules are: introduction to small ruminant production, tropical forage production and utilisation, animal production and health, value addition, food safety management systems and value chain development.

In addition to helping attract new entrants into the small ruminants industry, current stakeholders are also being supported. Another project implemented during the year focused on small ruminant producer groups in Jamaica and Trinidad and Tobago, with the objective of improving the productivity and quality of meat (raw and processed) and the volume and value of the marketable off-take of small ruminants, in the targeted countries. A related objective was to enhance the income and food security of small scale mutton and chevron farmers, attaining, by the end of the project, an additional 25% of the local demand for small ruminant meat in Jamaica and Trinidad and Tobago; thereby promoting domestic production/consumption and encouraging import substitution of meat products.

CARDI Barbados has been at the forefront of promoting mulberry (Morus spp) shrub as an alternative indigenous feeding source. Research conducted demonstrated that cuttings propagated by partial scarring or by the complete removal of the bark, when compared to the straight cut method, resulted in better sprouting. Results also revealed that semi hard cuttings displayed more vigorous growth than the soft and hard ones. Mulberry is a highly nutritious forage with the crude protein content varying between 15-20% depending on the variety, age of the plant and growing conditions.

Forage banks were established in Jamaica (Hounslow Goat and Sheep Demonstration and Training Centre) and in Trinidad (Centeno Livestock Station) for a range of species, Trichantera gigantea, Brachiaria arrecta, Brachiaria hybrid cv Mulato II, Morus spp and Leucaena leacocephala. Forage Sorghum and King Grass were established for use as demonstration plots for technology transfer and as a source of feed.

Another training activity developed jointly by CARDI Jamaica and HEART/NTA, was a training curriculum on small ruminant production and management for livestock and extension officers and selected veterinary technicians. At the end of the 12-week training, all participants were awarded a Level 3 certification and 15 of the successful graduates were selected as trainers to transfer small ruminant production and management information to producers.

Another training activity developed jointly by CARDI and IICA has been introducing prototypes for improved housing of goats in Grenada.

The United States of America. Trinidad and Tobago received over 130 head of Katahdin and Dorper Sheep as well as Anglo Nubian, Alpine and Sanaan goat breeds. Jamaica was only able to obtain 55 head of sheep but is working towards increasing the number. In Trinidad, the animals were handed over to the Ministry of Food Production’s Centeno Livestock Station where, after undergoing the mandatory quarantine procedures, they were bred and their offspring distributed to local farmers. This activity was funded under the CARDI coordinated CFC Small Ruminant Project.

A significant amount of resources from CARDI’s small ruminants programme has been dedicated to training and capacity building of stakeholders across the value chain. As part of the expansion of the small ruminant industry in Jamaica, displaced sugar cane workers along with other small farmers in proximity of sugar estates, were re-orientated towards employment in small ruminant production, through a structured training programme. The training exercise was divided into three modules, with 26 sessions held in the designated areas; over 1,200 small ruminant producers participated. Trainees were exposed to new and practical applications in areas of leather craft and cheese, soap and lotion making. Some 18 sets of information products were developed and distributed to participants over the duration of the training exercise. Over 50% of the participants were registered with Human Employment and Resource Training Trust/National Training Agency (HEART/NTA) for Level 1 Certification in Sheep and Goat Management, with all others being awarded a certificate of participation.

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CARDI, Caribbean Regional Fisheries Mechanism (CRFM) and Technical Centre for Agricultural and Rural Cooperation (CTA) together with other partners hosted a workshop on, ‘Improving Climate Change Resilience
in the Small Ruminants and Fisheries Industries in the Caribbean,’ during the 2014 Caribbean Week of Agriculture (CWA). The workshop provided evidence-based options for policy analysis, policy process development and policy implementation, aimed at the sustainable development of the respective industries. These options not only originated from the research that CARDI, CRFM and partners have conducted over the last few years on these issues, but was also derived from practical, successful approaches that are currently in operation and which can provide useful information to guide the policy process. The workshop highlighted that, without adequate policy mechanisms to sustain research work, much of the scientific gains derived from actions to improve small ruminants and fisheries resources, will dissipate with time. Policy options for the industry were presented to the CARICOM Ministers of Agriculture.

CARDI Grenada was also involved in small ruminant development. Ten farmers were supplied with materials for goat housing upgrade.

1.5 Fostering value chain development to increase competitiveness

The CARDI/CTA funded project, ‘Developing Capacity to Analyse and Strengthen Root and Tuber Value Chains in the Caribbean Region for Improved Food Security,’ which commenced in 2013, came to an end in 2014 with a regional workshop held in Trinidad. This project had as its objective, ‘to contribute to improved value chains for roots and tubers and their processed products, leading to increased domestic consumption of these products and where possible, additional exports that will increase farmer income and promote food security’. It was implemented in six countries: Barbados, Dominica, Jamaica, St Kitts and Nevis, St Vincent and the Grenadines, Trinidad and Tobago.

The expected results achieved were:
1. Improved capacity of value chain actors in selected countries to analyse chains for roots and tubers (cassava, yam and sweet potato), in order to identify ways in which constraints can be overcome and chain efficiency can be improved.
2. A practical methodology that can be used throughout the region.
3. Value chain stakeholders throughout the region fully aware of the methodology and the ways in which it can be used to assess root and tuber value chains.

In each of the six countries, a value chain project was developed and the methodology was applied via workshops and stakeholder surveys.

The value chain projects were:
1. Yellow yam in Jamaica
2. Cassava bread in Dominica
3. Cassava flour in Barbados
4. Sweet potato chips in St. Kitts and Nevis
5. Sweet potato (fresh) in St. Vincent and the Grenadines
6. Cassava bread in Trinidad and Tobago

One important output of the project is, ‘Guide to analysing and strengthening root and tuber value chains in the Caribbean’ (CARDI 2014).

The capacity of women in agro-processing were strengthened under several CARDI led projects.
2.0 Partnerships for Development

Guyana’s Ambassador to Belgium and the European Community, Dr. Patrick Ignatius Gomes, paid a courtesy call to Executive Director, Dr. Arlington Chesney at CARDI Headquaters, Trinidad and Tobago.

2.1 Partnerships and interactions

A key programme of CARDI is forging relationships with key institutions and partners. During 2014, partnerships were developed, maintained and strengthened. These included several initiatives with Institutes such as Food and Agriculture Organisation of the United Nations (FAO), Inter-American Institute for Cooperation on Agriculture (IICA), Ministry of Food Production (Trinidad and Tobago), Sugarcane Feeds Centre (SFC) and the University of the West Indies (UWI).

A major initiative in 2014 dealt with implementing a sensitisation workshop on, ‘The threat of Tropical 4 Race by Fusarium oxysporum f. sp. cubense – Fusarium Wilt (Panama Disease) of Bananas and Plantains,’ which was held at UWI, St Augustine Campus, Trinidad and Tobago, in April 2014. This was followed by a 5 day regional workshop, in May 2014, on the ‘Prevention and Diagnostic of Fusarium Wilt (Panama Disease) of Bananas and Plantains caused by Fusarium oxysporum f. sp. cubense – Tropical Race’. This was also held in Trinidad and was a collaborative initiative between CARDI, FAO and UWI.

A delegation of cassava experts from Latin American and Caribbean Consortium for Support for Research and Development of Cassava (CLAYUCA) and Chinese Academy of Tropical Agricultural Sciences (CATAS) visited Jamaica and Cuba during July. The purposes of the visit were to better understand the local cassava value chains, share information from their research efforts on cassava and explore opportunities for collaboration.

The delegation members were:

- Bernardo Ospina, Executive Director, Corporation CLAYUCA
- Wenquan Wang, Professor, Institute of Tropical Biosciences & Biotechnology
- Zhiqiang Xia, Assistant professor, Institute of Tropical Biosciences & Biotechnology, CATAS, Haikou, Hainan, PR China.
- Guanghua Liu, Professor of Agronomy, Director of Yunnan Institute for Tropical and Subtropical Cash Crops (ITSCC), Baoshan county, Yunnan, P R China.
In March, CARDI hosted visiting post graduate students and their supervisors from two prestigious US universities, University of Florida and Texas A & M. The students and professors were visiting Trinidad and Tobago as part of a project entitled ‘Teaching locally, engaging globally: Increasing knowledge of the international dimensions of climate change, food security and childhood obesity’. The visitors were exposed to CARDI’s work through presentations by staff members.

2.2 Intra ACP Agriculture Policy Programme APP

The APP was launched in Trinidad and Tobago in June 2014. This programme is more than a project, but an opportunity to build partnerships for development of agriculture in CARIFORUM. This Euro 8.6 million 4-year project, is funded under the 10th EDF. It comprises of three interrelated components, all designed to improve food and nutrition security and alleviate poverty: Component 1: Regional policy and strategy, Component 2: Technology, transfer and adoption and Component 3: Linking markets to enterprises.

Implementation is built on partnerships, through a contribution agreement signed between IICA and EU, which subsequently includes the engagement of Implementing Partners CARDI, IICA and CCS. CARDI is leading the implementation of Component 2, whilst the Caribbean Community Secretariat (CCS) and IICA are responsible for effecting Components 1 and 3 respectively. Prior to the launch, a round table conversation was held between the strategic partners. This conversation highlighted that the key beneficiary groups will be women and youth, discussed the potential of stronger regional cooperation with the Dominican Republic, which has much to offer in agricultural innovation, outlined the goals to nurture and grow a new generation of agriculturalists and agripreneurs and emphasised the need for climate smart farming initiatives. The beneficiary countries are Antigua and Barbuda, Bahamas, Barbados, Belize, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, St. Kitts and Nevis, Saint Lucia, St. Vincent and the Grenadines, Suriname and Trinidad and Tobago.

2.3 Engaging youth in agriculture

Ricardo Nugent, from the William Knibb Memorial High School, in Jamaica, was awarded the CARDI prize for the best CSEC Agricultural Science (Double Award, DA) student for 2014. The CARDI award was established in 2007, in collaboration with Caribbean Examinations Council (CXC), to honour the top achieving agricultural student in the Region at the CSEC level. For a student to be eligible he/she must receive a Grade 1 in Agricultural Science (DA) and a minimum of Grade 2 in Mathematics and English A and a grade 1 or 2 in another technical or general CSEC subject. When presenting the award to Ricardo, Dr. Arlington Chesney, CARDI Executive Director, said that the award was a means of stimulating, encouraging and promoting the involvement of youth in the sector.

CARDI, in an effort to attract and retain youth to the sector, has been part of a team working with CXC to develop the CAPE syllabus for Agricultural Science. Agricultural Science is now one of five new subjects being offered by CXC at the CAPE level.
3.0 Improving Agricultural Capacity Among Stakeholders

3.1 Enhancing the capabilities of CARDI staff

On April 2014, IICA and the Secretariat of Agriculture in Mexico signed an agreement to train 150 technical personnel from the Caribbean in priority areas for agricultural development of the Region. Six courses were offered in Mexico during the summer of 2014 in the following areas: (1) Sheep production, (2) Soil and water conservation, (3) Protected agriculture, (4) Rural tourism, (5) Plant pathology techniques and (6) Family farming. CARDI personnel attending the training were Ansari Hosein (Trinidad and Tobago), Albert Fearon (Jamaica), Bradbury Browne (Antigua and Barbuda), Rohan Smith (Jamaica), Emmanuel George (St Lucia), Dorian Etienne (Dominica) and Martin Lindo (Belize).

CARDI extends its heartfelt thanks to the Government of Mexico and to IICA for this very valuable training opportunity.

3.2 Web based training of farmers in risk management

The farmer training modules for risk management, developed by CARDI for Caribbean Farmers Network (CaFAN), were uploaded on the FARM-D website. FARM-D is an initiative of International Fund for Agricultural Development (IFAD) and the World Bank. The funding for the modules was provided by World Bank as part of the EU/ACP All Agricultural Commodities Programme. The CARDI team was led by Soil Scientist, Dr. Leslie Simpson. Other members were Entomologist Dionne Clarke and UWI Food Safety Specialist Dr. Gail Bacchus-Taylor. Post-harvest Scientist, Ronald Pilgrim assisted the team. There are three modules 1) Managing Weather/Climate Risks, 2) Pest and Disease Risks and 3) Food Safety Risks.
4.0 Outreach and Promotion

The newest member of CARDI is the Cayman Islands. The Minister of Planning, Lands, Agriculture, Housing and Infrastructure (MPLAHI), the Honourable Kurt Tibbetts, invited CARDI to participate in the 47th Grand Cayman Agricultural Show. This annual event showcases the sector’s contribution to the island’s economy and is a joint effort of MPLAHI, Cayman Islands Agricultural Society and the Cayman Islands Department of Agriculture. CARDI’s booth sought to welcome the Cayman Islands to the CARDI family, while exposing patrons to areas of the CARDI work programme that were relevant to the needs of the Cayman Islands.

The main areas of focus were: protected agriculture, hot pepper, roots and tubers and small ruminants. Special features of the exhibits included: an overview of CARDI (videos, poster invitations to our website, YouTube videos and Facebook page), protected agriculture (structures/designs, products, non-soil media and automated fertigation) and value added roots and tuber products and hot pepper (CARDI produced quality seeds of market preferred varieties and taste sampling of Moruga Red mash along with giveaway packets of Moruga Red seeds). Visitors to the booth included Governor of the Cayman Islands, Ms. Helen Kilpatrick, Minister Kurt Tibbetts, Director of Agriculture, Mr. Adrian Estwick, Past President and Director, Cayman Islands Agricultural Society, Mr. Errol Walter, Assistant Director (Agricultural Services), Mr. Brian Crichlow and the Chief Executive Officer of The Rural Agricultural Development Authority (RADA) in Jamaica. CARDI was represented by Dionne Clarke-Harris (Jamaica) and Joan Petersen (Trinidad). The Agricultural Show took place on March 5, at the Stacy Walter Agriculture Pavilion, Grand Cayman, Cayman Islands.

The Association of Caribbean Media Workers (ACM) network is our link to access the traditional media across the Region. This mutually beneficial partnership permitted CARDI access to several regional media houses, which published and aired several newsworthy pieces on agriculture.

The 4th Regional Media Awards for Excellence in Agricultural Reporting prize giving ceremony, was held on October 8, during the official Opening Ceremony for the 13th Caribbean Week of Agriculture, in Suriname. The competition was sponsored by IICA and CARDI and the theme was ‘Cooperation, Food and Nutrition Security Achievement’. Khamal Georges, Senior Journalist at the Guardian Media Group in Trinidad and Tobago, won...
the Best Television Story category. Khamal’s piece, ‘The impact of local government on communities,’ tells the story of 81-year-old farmer from the San Juan Regional Corporation. For the third year running, Antigua based journalist, Desmond Brown, won the Best Print Category. Desmond’s piece, ‘Fishing communities will face warmer, acid oceans,’ explores the impact of ocean acidification, as a result of climate change on the regional fishing industry. The Youth category was won by Trinidadian post graduate student Kevonne Kerr. Kevonne, an MSc student persuing sustainable energy development at the University of Calgary, penned a monologue entitled ‘Uniting the Region through cooperation’. In her piece, Kevonne questions the state of food and nutrition security in the Region and proffers some suggestions for individuals to adopt, so that the Region can become more food secure.

**Dasheen Project Video**

CARDI St Vincent and the Grenadines, in collaboration with the Ministry of Agriculture communications and extension units, produced a video on the dasheen project. The video covered the project over the 3½ year implementation period in St Vincent. It gives details and describes the basis for and how the project was conceptualised, the introduction and multiplication of the 50 Taro genotypes, the validation on station and on farms and the selection of genotypes based on yield, quality, marketability and taste.

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**5.0 Resource Mobilisation**

The reporting year (2014) represented the beginning of the medium term 2014 – 2016 and realised a resource mobilisation effort with a sizeable total sum of XC$23,749,092. This amount is linked to 13 projects being embarked on, with resources being drawn from four donor agencies. The bulk of resources came from the European Union via indirect means and relied heavily on building partnerships with hemispheric and internal institutions. The resource mobilisation success was mainly in the areas of roots and tubers (cassava), coconuts and hot pepper, with the bulk of the projects taking place in the OECS, as well as in Trinidad and Tobago. Twelve of the 13 projects for the period have been completed, with only one project remaining in progress; this is within the project duration completion date.
6.0 Statement of Revenue and Expenditure

The unaudited financial statements for the year ending 31st December 2014, are shown in this section. Comparatives for the year to 31st December 2013 are also presented. All figures are in Eastern Caribbean Dollars, CARDI’s reporting currency.

Revenue from member governments are stated at the full contribution as required by accounting standards. Amounts not collected are shown as receivables in the statement of financial position. The amount of XC$2.0M, of the scheduled XC$7.7M in Member contributions, was not collected in 2014.

The statement shows a surplus of XC$2.8M for the year, almost all was attributable to external resource activity. Core had a small surplus of XC$26,324.
6.1 Statement of financial position

The statement of financial position shows CARDI’s net assets as at December 2014 being valued at XC$7.7M. This was comprised of non-current assets of XC$2.2M and net current assets of XC$5.5M. It should be noted that part of these assets belong to external donors, particularly in the form of cash held for projects. The total debt due to staff stood at XC$676,594 and relates to arrears of salary following the 2002 to 2004 negotiated increase, which was concluded in 2007. Accounts payable and accrued liabilities include outstanding rent to UWI in the amount of XC$906,622.59.
### Non-Current Assets

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leasehold properties</td>
<td>378,000</td>
<td>397,895</td>
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<tr>
<td>Buildings</td>
<td>657,550</td>
<td>677,887</td>
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<tr>
<td>Equipment</td>
<td>871,132</td>
<td>776,049</td>
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<tr>
<td>Motor vehicles</td>
<td>193,216</td>
<td>257,621</td>
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<tr>
<td>Biological assets - livestock</td>
<td>52,819</td>
<td>70,425</td>
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<tr>
<td></td>
<td>2,152,737</td>
<td>2,181,877</td>
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### Current Assets

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>2014</th>
<th>2013</th>
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<tbody>
<tr>
<td>Cash</td>
<td>2,624,604</td>
<td>2,451,333</td>
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<tr>
<td>Fixed deposits</td>
<td>497,182</td>
<td>478,060</td>
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<tr>
<td>Accounts receivable</td>
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<tr>
<td>Member governments net</td>
<td>5,043,208</td>
<td>3,893,908</td>
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<tr>
<td>Other</td>
<td>503,808</td>
<td>503,465</td>
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<tr>
<td></td>
<td>8,760,226</td>
<td>7,421,644</td>
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</table>

### Total Assets

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Current Liabilities</td>
<td>10,912,963</td>
<td>9,603,521</td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>3,206,726</td>
<td>4,633,524</td>
</tr>
<tr>
<td>Total</td>
<td>14,119,689</td>
<td>14,237,045</td>
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### Pre-paid Expenses

<table>
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<tr>
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<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Long-term Liabilities</td>
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<td>119,565</td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>0</td>
<td>73,472</td>
</tr>
<tr>
<td>Accounts payable &amp; accrued liabilities</td>
<td>1,115,226</td>
<td>1,787,576</td>
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<tr>
<td>Due to employees</td>
<td>676,594</td>
<td>712,501</td>
</tr>
<tr>
<td>Current portion of long-term liabilities</td>
<td>926,093</td>
<td>840,974</td>
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<tr>
<td>Deferred revenue</td>
<td>488,813</td>
<td>1,219,001</td>
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<tr>
<td></td>
<td>3,206,726</td>
<td>4,633,524</td>
</tr>
<tr>
<td>NET TOTAL LIABILITIES</td>
<td>3,206,726</td>
<td>4,753,089</td>
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<tr>
<td>---------------------------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>ACCUMULATED FUND</td>
<td>7,706,237</td>
<td>4,850,432</td>
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<tr>
<td>TOTAL LIABILITY &amp; FUND</td>
<td>10,912,963</td>
<td>9,603,521</td>
</tr>
</tbody>
</table>

### 7.0 CARDI Publications 2014


8.0 Staff and Organisation

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANGUILLA</td>
<td></td>
</tr>
<tr>
<td>Robin, Gregory Dr</td>
<td>Agronomist/CARDI Representative</td>
</tr>
<tr>
<td>Technical staff</td>
<td></td>
</tr>
<tr>
<td>Batchelor, Delvin</td>
<td>Technical Assistant - Officer in Charge Antigua unit</td>
</tr>
<tr>
<td>Browne, Bradbury</td>
<td>Technical Assistant</td>
</tr>
<tr>
<td>Bowman, Donnet</td>
<td>Administrative Assistant</td>
</tr>
<tr>
<td>Josiah, Carrol</td>
<td>Laboratory Assistant</td>
</tr>
<tr>
<td>BARBADOS</td>
<td></td>
</tr>
<tr>
<td>Roberts, Cyril Dr</td>
<td>Biotechnologist Breeder/CARDI Representative</td>
</tr>
<tr>
<td>Technical staff</td>
<td></td>
</tr>
<tr>
<td>Rest, Paul</td>
<td>Field Assistant</td>
</tr>
<tr>
<td>Niles, Marcia</td>
<td>Administrative Assistant</td>
</tr>
<tr>
<td>Wathe, Jennifer</td>
<td>Laboratory Assistant</td>
</tr>
<tr>
<td>BELIZE</td>
<td></td>
</tr>
<tr>
<td>Sinha, Anil</td>
<td>Agronomist/CARDI Representative</td>
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<tr>
<td>Technical staff</td>
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</tr>
<tr>
<td>Garcia, Angel</td>
<td>General Farm Worker</td>
</tr>
<tr>
<td>Lindo, Martin</td>
<td>Technician</td>
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</tbody>
</table>

https://www.igi-global.com/chapter/protected-agriculture/118026
Paul C L*, Devers-Ramkisson A and Erskine-Jones D*. 2014. Capacity development methodology and achievements in CFC-funded projects on protected agriculture and roots & tubers in the Caribbean. St Augustine, Trinidad and Tobago: Caribbean Agricultural Research and Development Institute

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<td>Technician</td>
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8.0 Staff and Organisation

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<td>Technical Assistant - Officer in Charge Antigua unit</td>
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<td>General Farm Worker</td>
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<td>Lindo, Martin</td>
<td>Technician</td>
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<tr>
<td>Name</td>
<td>Title</td>
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<td>--------------------</td>
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<tr>
<td>Reyos, Hector</td>
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<tr>
<td>Reynolds, Tenehia</td>
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<td>Robateau, Leroy</td>
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<td>Tub, Cornelio</td>
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<td>Vanegas, Ambrocio</td>
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<td><strong>DOMINICA</strong></td>
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<td>Technical staff</td>
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<tr>
<td>Augustus, Dionne</td>
<td>Administrative Assistant</td>
</tr>
<tr>
<td>Etienne, Dorian</td>
<td>Technician - responsible for administration</td>
</tr>
<tr>
<td><strong>GRENADA</strong></td>
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<tr>
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<tr>
<td>Iwara, Badeso</td>
<td>Driver</td>
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<td><strong>JAMAICA</strong></td>
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<td>Clarke-Harris, Donnie</td>
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<td>Farrow, Albert</td>
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<td>Simpson, Leslie Dr</td>
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<td>Davis, Wistome</td>
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<td>Gordon-Sangster, Andrea</td>
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<tr>
<td><strong>MONTISERRAT</strong></td>
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<td>Jones, Denise</td>
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<tr>
<td>Taylor, Morris</td>
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<tr>
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<tr>
<td><strong>ST KITTS AND NEVIS</strong></td>
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<tr>
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<td>Haddaway, Robert</td>
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<td><strong>ST LUCIA</strong></td>
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<tr>
<td>Pugh, Ronald</td>
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<tr>
<td>Emmanuel, George</td>
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</tr>
<tr>
<td>O'Brien, Sharon</td>
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<tr>
<td>Thomas, Jacob</td>
<td>Field Assistant</td>
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<tr>
<td><strong>ST VINCENT</strong></td>
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</tr>
</tbody>
</table>
Professional staff
Robin, Gregory Dr
Agronomist/CARDI Representative

Technical staff
Joseph, Rose Marie
Technician
Recander, Samuel
Administrative Assistant

TRINIDAD & TOBAGO
Professional staff
Lawrence, Sinti Dr
Entomologist/Head - Trinidad & Tobago Unit (until April)
Blair-Thomas, Marcia
Livestock Science/Head - Trinidad & Tobago Unit (Apr-Jun)
Hossein, Ansari
Livestock Science/Ag Head Trinidad & Tobago Unit (from June)
Adams, Herman
Plant Breeder
Minott, Annika
Crop Protection
Piggott, Adanna
Crop Protection/Officer in Charge, Tobago

Technical staff
Ali, Nazir
Field Assistant
Ferguson, Angela
Administrative Secretary
Leith, Hendrickson
Administrative Assistant
Quashie, Selby
Technician
Bedasie, Simon
Agronomist
Dyer, Ronald
Group Dynamics Specialist

Project Consultants
Bedasie, Simon
Agronomist

TRINIDAD & TOBAGO
TRINIDAD & TOBAGO
Professional staff
Malcolm, Margo
Head - Institutional Capacity Building Unit
Mohammed, Aziz
Value Chain and Marketing Specialist
Morris, Opal
Librarian
Nens, Curtis
Head - Finance Unit
Paul, Compton
Head - Project Implementation Unit
Petersen, Joan
Scientist (Technical Services)
Ramkissoon, Suresh
Accountant
Shah, Fajaz
Head - Commercial Unit
Wilson, Maurice
Head, Resource Mobilisation, Monitoring and Evaluation Unit

Technological staff
Achong, Sean
Graduate Assistant
Abraham-King, Shelley
Accounting Assistant
Alvarez, Tristan
Graduate Assistant
Baptiste, Marva
Senior Accounting Assistant
Bassant, Ramsaran
Senior Information Assistant
Besai, Denise
Graduate Assistant
Butler, Sharmine
Mail Cleaner
Brathwaiti, Latche
IT Coordinator
Dalby-Vire, Cyndi-Anne
Administrative Secretary
Duchonne, Raquel
Receptionist
Dookie-Hamil, Rajdaye
Junior Accounting Assistant
Flumming, Kistian
Graduate Assistant
Hudson, Rachel
Secretary
Jack, Heidi
Graduate Assistant
Jones, Marcus
Statistician
Kallos, Leslie-Ann
Snr. Accounting Assistant
Kassie, Armanda
Receptionist
McDavid, Timothy
Graduate Assistant
Moo, Simon
Graduate Assistant

HEADQUARTERS
Professional staff
Cohen, Ari, Dr
Executive Director
Ashcroft, Francis
Manager - Technical Services
Gibson, Allister
Senior Project Officer
Gibson, Norman
Manager ASTU/Scientific Officer (Livestock)
Lauckner, Bruce
Head Strategic Alliances/ Biometrician
Malauri, Debra
Executive Assistant

Malcolm, Margo
Head - Institutional Capacity Building Unit
Mohammed, Aziz
Value Chain and Marketing Specialist
Morris, Opal
Librarian
Nens, Curtis
Head - Finance Unit
Paul, Compton
Head - Project Implementation Unit
Petersen, Joan
Scientist (Technical Services)
Ramkissoon, Suresh
Accountant
Shah, Fajaz
Head - Commercial Unit
Wilson, Maurice
Head, Resource Mobilisation, Monitoring and Evaluation Unit

Technological staff
Achong, Sean
Graduate Assistant
Abraham-King, Shelley
Accounting Assistant
Alvarez, Tristan
Graduate Assistant
Baptiste, Marva
Senior Accounting Assistant
Bassant, Ramsaran
Senior Information Assistant
Besai, Denise
Graduate Assistant
Butler, Sharmine
Mail Cleaner
Brathwaiti, Latche
IT Coordinator
Dalby-Vire, Cyndi-Anne
Administrative Secretary
Duchonne, Raquel
Receptionist
Dookie-Hamil, Rajdaye
Junior Accounting Assistant
Flumming, Kistian
Graduate Assistant
Hudson, Rachel
Secretary
Jack, Heidi
Graduate Assistant
Jones, Marcus
Statistician
Kallos, Leslie-Ann
Snr. Accounting Assistant
Kassie, Armanda
Receptionist
McDavid, Timothy
Graduate Assistant
Moo, Simon
Graduate Assistant
Ramroop, Raveena
Redhead, Margaret
Roberts, Kurt
Stephen, Melissa
Wallace, Malcolm

Accounting Assistant
Senior Administrative Secretary
Senior Production Assistant
Desktop Publisher
Information Assistant
Graduate Assistant

Project Consultants
DeGannes, Anthony
Eversley, Brent
Fortune, Mario
Gurupersad, Sonja
Jones, Sharon
Rampersad, Richard

Protected Agriculture
Technician
Technical Coordinator
Agribusiness (from July)
Plant Pathologist (from July)
IICA/CARDI projects

Caribbean Agricultural Research and Development Institute
"Improving Lives through Agricultural Research"
Frederic Hardy Building
The University of the West Indies,
St. Augustine Campus, St. Augustine, Trinidad and Tobago
Email: infocentre@cardi.org;
Website: www.cardi.org;
Fax: 1.868.645.1208; Tel: 1.868.645.1205/8120

Website: www.cardi.org