

**NATIONAL  
ORGANIC AGRICULTURE  
ENHANCEMENT PROJECT**

Prepared by  
**THE NATIONAL ORGANIC AGRICULTURE STEERING  
COMMITTEE**

**JUNE 2005**

## **THE NATIONAL ORGANIC AGRICULTURE STEERING COMMITTEE**

Dr. Dwight E. Robinson – Chairman

Anieta Banton – Consumer Affairs Commission

Carla Bucknor - Ministry of Agriculture, Research & Development

Stanley R. Dodd – Rural Agricultural Development Authority

Carol Johnston Miller – Ministry of Agriculture, Economic Planning Division

Dr. Joseph Lindsay – Ministry of Agriculture

Tracy Ann Logan – Jamaica Organic Agriculture Movement

Glynn O. Watson – Rural Agricultural Development Authority

## **COLLABORATING ORGANIZATIONS**

BSJ – Bureau of Standards Jamaica

CAC – Consumer Affairs Commission

CARDI – Caribbean Agriculture Research and Development Institute

CASE – College of Agriculture, Science and Education

4H – Jamaica 4H Movement

JAMPRO – Jamaica Promotions Corporation

JAS – Jamaica Agricultural Society

JOAM – Jamaica Organic Agriculture Movement

MOA – Ministry of Agriculture

MLE – Ministry of Land and the Environment

NCU – Northern Caribbean University

NLA – National Land Agency

RADA - Rural Agriculture Development Authority

UWI – The University of the West Indies

## *Table of Contents*

Introduction	1
Project Goal	1
Objectives	1
Project Approach	2
Organization and Management	2
Project Beneficiaries and Output	3
Budget	4
Implementation Schedule	4
Organizational Chart	6
<b>ACTIVITY 1: Establishment of a NOAP Secretariat</b>	<b>7</b>
▪ Objective	7
▪ Justification	7
▪ Approach	7
▪ Coordinators	7
▪ Implementation Schedule	7
▪ Budget	8
▪ Outputs	8
<b>ACTIVITY 2: National Policy on Organic Agriculture</b>	<b>9</b>
▪ Objective	9
▪ Justification	9
▪ Approach	9
▪ Coordinators	10
▪ Implementation Schedule	10
▪ Budget	10
▪ Outputs	10
<b>ACTIVITY 3 - Sensitization and training</b>	<b>11</b>
▪ Objective	11
▪ Justification	11
▪ Approach	11
▪ Coordinators	11

▪ Implementation Schedule	12
▪ Budget	12
▪ Outputs	13
<b>ACTIVITY 4 - Preparation and dissemination of literature</b>	<b>14</b>
▪ Objective	14
▪ Justification	14
▪ Approach	14
▪ Coordinators	14
▪ Implementation Schedule	14
▪ Budget	15
▪ Outputs	15
<b>ACTIVITY 5 - Development of an organic seed production programme</b>	<b>16</b>
▪ Objective	16
▪ Justification	16
▪ Approach	16
▪ Coordinators	16
▪ Implementation Schedule	16
▪ Budget	17
▪ Outputs	17
<b>ACTIVITY 6 - Research &amp; development in organic agriculture</b>	<b>18</b>
▪ Objective	18
▪ Justification	18
▪ Approach	18
▪ Coordinators	19
▪ Implementation Schedule	19
▪ Budget	20
▪ Outputs	20
<b>ACTIVITY 7 - Facilitating organic certification</b>	<b>21</b>
▪ Objective	21
▪ Justification	21
▪ Approach	21
▪ Coordinators	21
▪ Implementation Schedule	22
▪ Budget	22

▪ Outputs	22
<b>ACTIVITY 8 - Identification of land to be dedicated to organic agriculture</b>	<b>23</b>
▪ Objective	23
▪ Justification	23
▪ Approach	23
▪ Coordinators	23
▪ Implementation Schedule	24
▪ Budget	24
▪ Outputs	24

# NATIONAL ORGANIC AGRICULTURE ENHANCEMENT PROJECT

## **Introduction**

Organic agriculture has been the fastest growing sector of the agriculture industry over the last 10 years with worldwide sales of certified organic products in excess of US\$30 billion. The sector continues to grow at a rate of 20 – 30 % per annum with the organic vegetable sector growing by as much as 80% per annum. With increased awareness about the benefits of organic agriculture to environment and human health, this growth is expected to continue over the next ten years.

Since 1990, there have been attempts to formalize the organic agriculture sector in Jamaica. Through the efforts of the Jamaica Organic Agriculture Movement, the foundation has been laid for the development of a local organic sector. Steps have been taken to sensitize producers and consumers about the principles and benefits of organic agriculture, local standards were developed, local organic inspectors trained and a local certification programme launched. At the moment there are four internationally certified organic farms on the island and there continues to be requests from the international market for certified organic products from Jamaica.

Realizing the environmental and economic benefits to be derived from the development of an organic agriculture sector in Jamaica, the Ministry of Agriculture has given support to the development of the sector and in 2004 launched an initiative to enhance the development of the local organic sector. This project seeks to contribute to the effort by identifying the pillars for the development of a quality organic agriculture sector in Jamaica and through an interdisciplinary and interagency approach, work towards the building and strengthening of these pillars.

## **Project Goal**

To facilitate the enhanced development of a sustainable organic agriculture sector in Jamaica.

## **Objectives**

The objectives of the project are to:

1. Establish of a secretariat to support and implement the National Organic Agriculture Programme (NOAP)
2. Develop a policy document and supporting legislation for the organic agriculture sector
3. Sensitize and train of stakeholders and representatives of different interest groups in the principles and techniques of organic agriculture
4. Develop an organic seed production programme
5. Establish linkages to provide and support research and development in organic agriculture
6. Prepare and disseminate information relevant to organic agriculture
7. Facilitate international and local organic certification
8. Identify lands to be dedicated to organic agriculture

### **Project Approach:**

The approach for this project will be to identify the activities that have already taken place towards the development of the local organic agriculture sector and seek to build on or strengthen these activities. This will be done by working closely with the Jamaica Organic Agriculture Movement and other agencies that have an interest in or have contributed to the development of the sector. Priority areas will be identified and plans developed and executed to enhance these areas. The project will be divided into distinct and discrete activities, which can be executed independently of each other. Personnel and/or agencies with the skills specific to each area will be invited to participate in the development and execution of relevant areas with all activities being monitored and supervised by the National Organic Agriculture Steering Committee (NOASC).

### **Organization and Management**

The monitoring of the organic agriculture programme will be done by the NOASC, which consists of representatives from JOAM, RADA, MOA, JAMPRO, JAS, CAC and the 4H Club. The committee will meet bimonthly or as the need arises. A secretariat will be established in the Ministry of Agriculture (MOA) to support the activities associated with the national organic agriculture project. The secretariat will be manned by a coordinator who will focus on the activities of the project. Sub-committees will be established as necessary to undertake specific

tasks. A member of the NOASC or the organic agriculture support unit will be a member of each committee to facilitate feedback and to expedite project implementation. The sub-committees will meet as often as necessary in order to complete the tasks for which the sub-committee was established.

### **Project Beneficiaries and Outputs**

The expected project beneficiaries are organic farmers, extension officers, marketers and other technicians who will be trained. The trained farmers will receive the technical assistance necessary for establishing or strengthening their organic production systems. Other beneficiaries are community groups, schools, women farmers, consumers and other interest groups who will benefit from training in organic farming methods. The project has been divided into 8 deliverables/major activities. This is a convenient way of sub-dividing the programme into discrete activities, which can be done separately although they contribute to the proper management of the project components. The expected outputs are as follows.

- A functional National Organic Agriculture Programme Secretariat
- Draft policy document for organic agriculture
- National organic standards
- Recommendations for legislation concerning the regulation and monitoring of the organic agriculture industry in Jamaica.
- Increased awareness of the public to the availability of organic products
- Trainers, teachers and farmers trained in the principles, development and management of organic production and processing systems
- Students equipped to work in and contribute products to be sold in the local and international markets
- Internationally trained organic inspectors
- Organic Agriculture Handbooks and Organic Standards printed
- Brochures and fact sheets printed
- Primary seed production sites established
- Farmers trained in the production of seed and planting material
- Seed and planting material quality production manual produced
- Increased knowledge on organic agriculture, with emphasis on tropical agroecosystems
- Demonstration plots of organic production systems under varying agroecological conditions



- Short-list of farms producing according to organic standards
- 12 newly certified organic farms
- At least 50 ha of additional land made available to organic farmers for organic agriculture production

## Budget

The project is estimated to cost \$30,325,840 over three years. The Ministry of Agriculture is providing \$20,000,000. The remainder of the budget will be financed by donor funding and/or collaborating institutions. A summary of the budget is presented below. Additional detail is presented in the budget of each activity.

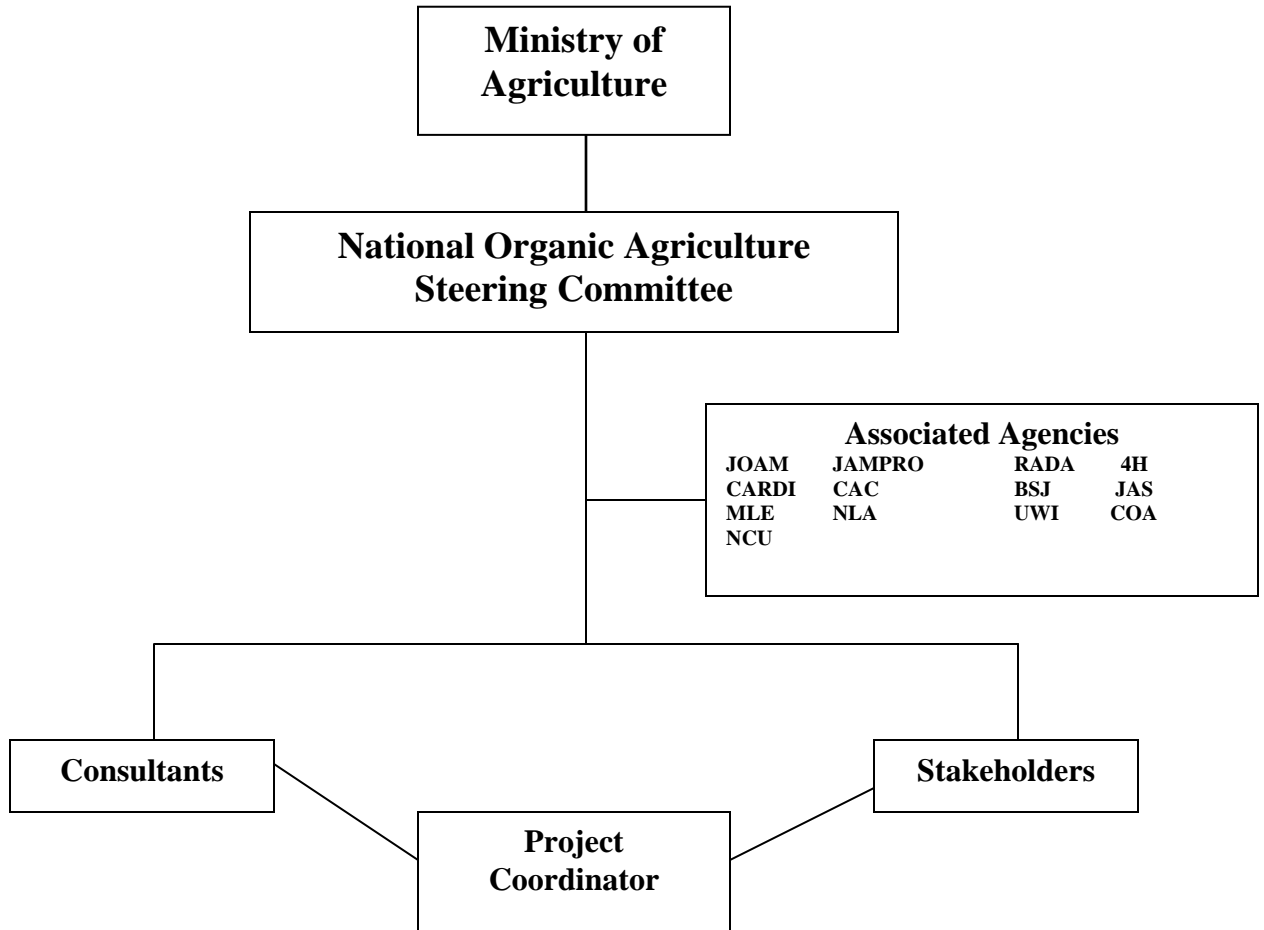
Activity	Budgeted Cost (\$J)						
	Year I		Year II		Year III		Total
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Establish of a secretariat	876,600	180,000	636,600	-	636,600	-	2,329,800
National policy on organic agriculture	20,000	-	40,000	-	40,000	-	100,000
Sensitization and training	1,947,200	951,200	715,600	192,400	645,200	48,400	4,500,000
Prepare and disseminate information	680,000	150,000	-	-	-	-	830,000
Organic seed production programme	3,082,000	880,000	-	840,400	-	660,000	5,462,000
Research and development	2,419,000	1,966,400	704,000	1,705,800	532,000	1,397,800	8,725,000
International and local organic certification	3,628,000	278,000	1,708,000	180,000	1,288,000	40,000	7,122,000
Lands for organic agriculture	340,480	916,160	-	-	-	-	1,256,640
<b>Total</b>	<b>12,993,280</b>	<b>5,321,760</b>	<b>3,804,200</b>	<b>2,918,600</b>	<b>3,141,800</b>	<b>2,146,200</b>	<b>30,325,840</b>

## Implementation Schedule

The activities of the programme have been arranged for convenience and functionality into eight activities with specific tasks associated in meeting the activity objectives. A summary of the implementation schedule is presented below. Detailed implementation schedules of each activity are presented in sections dedicated to each activity.

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Establish a secretariat												
Develop policy document and supporting legislation												
Sensitize and train stakeholders and representatives of different interest groups												
Develop an organic seed production programme												
Establish linkages to provide and support research and development												
Prepare and disseminate information relevant to organic agriculture												
Facilitate international and local organic certification												
Identify lands to be dedicated to organic agriculture												

# Organizational Chart



**ACTIVITY 1**  
Establishment of a NOAP Secretariat

**Objective:** To provide administrative support for the National Organic Agriculture Steering Committee.

**Justification:** The National Organic Agriculture Steering Committee was appointed by the Ministry of Agriculture to develop and guide the enhancement project for the local organic agriculture sector. This committee consists of representatives from different organizations who sit on the committee voluntarily. While the members may develop and monitor a national organic agriculture programme, they will need the support of a secretariat to assist in the process. Implementation of activities developed under the project could not be the responsibility of the committee and would need to be overseen by a secretariat.

**Approach:** The secretariat will be established within the Ministry of Agriculture and could be accommodated in facilities already committed to the Jamaica Organic Agriculture Movement. Existing equipment owned by JOAM will be made available to the secretariat; however, additional equipment will have to be acquired. Personnel will be hired to man the operation.

**Coordinators:** NOASC, MOA, JOAM

**Implementation Schedule**

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Develop TOR and workplan for secretariat.												
Identify personnel and equipment needs												
Acquire equipment												
Advertise, interview and hire administrator												
Train staff												

## Budget

Activity	Budgeted Cost (\$J)						Total
	Year I		Year II		Year III		
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Administrator's salary	516,600	-	516,600	-	516,600	-	1,549,800
Office Equipment	240,000	180,000	-	-	-	-	420,000
Stationary & Office Supplies	120,000	-	120,000	-	120,000	-	360,000
<b>Total</b>	<b>876,600</b>	<b>180,000</b>	<b>636,600</b>	<b>-</b>	<b>636,600</b>	<b>-</b>	<b>2,329,800</b>

## Outputs

The following output is expected from this activity:

- A functional secretariat

## ACTIVITY 2

### National Policy on Organic Agriculture

**Objective:** To develop a national policy for organic agriculture and the requisite legislation for regulating and monitoring the organic agriculture sector.

**Justification:** Organic agriculture has the potential to increase trade, facilitate environmental protection and biodiversity, assist in poverty eradication, and contribute to food security. The Government has a responsibility to oversee and promote the development of organic agriculture as an alternative to conventional agricultural methods in light of the environmental and health benefits to be obtained and the prospects for earning foreign exchange through niche marketing. Since the organic agriculture sub-sector is an emerging one, it is necessary to develop a national policy and the requisite legislation to regulate and monitor the farms, products and inputs to ensure that the sub-sector is operating at acceptable levels and can compete with international standards. This is crucial since the sub-sector will be operating alongside conventional agriculture where the practices and modes of operation tend to conflict and any relaxation of the standards necessary for organic agriculture could jeopardize export and local markets.

**Approach:** A draft organic agriculture policy document and the recommendations for requisite legislation will be prepared after:

- a) reviewing existing agricultural policies;
- b) examining organic policies of other countries;
- c) examining JOAM organic standards and other standards within and outside the Caribbean region;
- d) having consultations with farmers, agriculturalists, extension officers, researchers, input suppliers, marketers, and other industry stakeholders;
- e) reviewing existing legislation and making recommendations for new legislation to regulate and monitor the organic agriculture sector which will include:
  - i) making recommendations for the incorporation of national standards for the organic agriculture sector, using the JOAM organic standards as a guide;
  - ii) developing regulations concerning the certification process for organic farms, produce and inputs;

- iii) developing regulations concerning the inspection procedures and the minimum training and qualifications of organic inspectors to attain certification; and
- iv) developing regulations concerning the branding and labeling of organic produce and the trade in organic goods for the domestic and export markets. The draft document will be circulated to various interest groups and stakeholders for comments before the development of a Green Paper for submission to Parliament.

**Coordinator:** The Economic Planning Division of the Ministry of Agriculture

### Implementation Schedule

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Review of existing policy and standards												
Consultation with stakeholders												
Draft Policy Document												
Recommendations – legislation for organic agriculture												

### Budget

Activity	Budgeted Cost (\$J)						
	Year I		Year II		Year III		Total
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Draft Policy document	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Legislation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Printing/copying	20,000	-	40,000	-	40,000	-	
<b>Total</b>	<b>20,000</b>	<b>-</b>	<b>40,000</b>	<b>-</b>	<b>40,000</b>	<b>-</b>	<b>100,000</b>

### Outputs

The following outputs are expected from this activity:

- The preparation of a draft policy document for organic agriculture
- National organic standards
- Recommendations for legislation concerning the regulation and monitoring of organic agriculture in Jamaica.

### ACTIVITY 3

#### **Sensitization and training**

**Objective:** To provide training at different levels for stakeholders in the organic agriculture sector and sensitize the public to the benefits of the organic product.

**Justification:** The organic agriculture sector is the fastest growing worldwide and as such, the Jamaican government has decided to invest into the further development of the local organic agriculture industry. However, one limitation to this very timely project is the lack of knowledge and true understanding of the concept and principles of organic agriculture by the key players and foundation builders. It is imperative that the decision makers, trainers, teachers and students are equipped with the technical knowledge that is essential to build a sound foundation for the development of the local organic industry. In addition, the public needs to be sensitized to this relatively new product, as this will facilitate, sound decision making in the buying and consumption of the products. This activity seeks to increase the awareness of the public and other stakeholders to the philosophy that is organic agriculture.

**Approach:** The sensitization of stakeholders will be conducted at different levels. A general sensitization program will be conducted for the public while a more detailed programme will be held for technocrats, extension officers, and students and teachers of agriculture science. The mass media and community meetings will be used in the sensitization programme while workshops and seminars will be used for the more intensive training programmes. A special training programme will be held for individuals who wish to participate in the sector as certified organic inspectors.

**Coordinators:** MOA/RADA/JOAM



## Implementation Schedule

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Identify trainers/facilitators	■	■	■									
Development of training programmes	■	■	■	■								
Development of training material		■	■	■								
<b>Sensitization of the public:</b>												
• Mass media – press releases, radio interviews, talk show			■	■	■	■	■	■	■	■	■	■
• Community meetings				■	■	■	■	■	■	■	■	■
<b>Training:</b>												
• Technocrats		■										
• Extension officers		■	■	■								
• Agricultural science students			■	■	■	■	■	■	■	■	■	■
• Agricultural teachers			■	■	■	■	■	■	■	■	■	■
• Organic inspectors		■			■							

## Budget

Activity	Budgeted Cost (\$J)						
	Year I		Year II		Year III		Total
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Trainer/facilitator fees	435,600	145,200	145,200	48,400	145,200	48,400	968,000
Fees for development of training programme	-	160,000	-	-	-	-	160,000
Development of training material	480,000	70,000	-	-	-	-	550,000
Training of Organic inspectors	750,000	400,000	500,000	100,000	500,000	-	2,250,000
Hosting of workshops	281,600	176,000	70,400	44,000	-	-	572,000
<b>Total</b>	<b>1,947,200</b>	<b>951,200</b>	<b>715,600</b>	<b>192,400</b>	<b>645,200</b>	<b>48,400</b>	<b>4,500,000</b>

## **Outputs**

The following outputs are expected from this activity:

- Increased awareness of the public to the availability of organic products
- Trained trainers and teachers
- Students who are equipped to work in and contribute products to be sold in the local and international markets
- Internationally trained organic inspectors

## ACTIVITY 4

### Preparation and dissemination of literature

**Objective:** To prepare and disseminate literature on different aspects of organic agriculture

**Justification:** Knowledge of the principles and techniques of organic agriculture is an essential component of developing a quality organic agriculture sector. An integral part of any programme aimed at increasing knowledge is the acquisition and/or production of literature related to the subject. Since there is an inadequate supply of literature available that is specifically tailored to the needs of the Jamaican stakeholders, it is necessary to produce such literature.

**Approach:** A vast quantity of literature and information exists on the principles and techniques of organic agriculture. The Jamaica Organic Agriculture Movement has a lot of this information captured in and Organic Farming Handbook and the JOAM standards document. Both these documents will be reviewed, updated and published for dissemination if deemed adequate. Other sources of information will also be reviewed and relevant information compiled along with extracts from the JOAM handbook and standards to prepare booklets, fact sheets and brochures containing information on specific components of organic agriculture.

**Coordinators:** CAC, JOAM, RADA

#### Implementation Schedule

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Review existing literature on organic agriculture												
Determine information needs												
Identify and contract consultant												
Update existing literature												
Prepare new literature												
Publish/print new literature												
Disseminate literature												

## Budget

Activity	Budgeted Cost (\$J)						Total
	Year I		Year II		Year III		
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Consultancy fees	80,000	-	-	-	-	-	80,000
Printing of Literature	600,000	150,000	-	-	-	-	750,000
<b>Total</b>	<b>680,000</b>	<b>150,000</b>	-	-	-	-	<b>830,000</b>

## Outputs

The following outputs are expected from this activity:

- 500 Handbooks printed
- 500 Organic Standards printed
- 1000 copies of brochures and fact sheets printed.

## ACTIVITY 5

### Development of an organic seed production programme

**Objective:**

- To provide a source of quality seed and other planting material for the organic farming sector.

**Justification:**

- There is a dearth of local organic planting material needed to fuel increased organic farming production. It is expected that local production of organic seeds and other organic inputs will provide easy and affordable access to organic planting material and will encourage farmers to produce their own inputs thus supporting backward linkages for the farming sector. The farming community will also benefit from the knowledge gained in producing their own inputs.

**Approach:**

- Set up primary production sites
- Training of farmers in the production of seed and planting material
- Establish a seed and planting material quality production manual
- Superimpose research activities on seed production programme

**Coordinators:**

- Research and Development Division, Ministry of Agriculture through:
  - Orange River Research Station
  - Montpelier Research Station
  - Bodles Research Station, Top Mountain Sub Station

**Implementation Schedule**

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. Select Site												
2. Procure inputs												
3. Source seeds												
4. Establish seed production sites(7)												
5. Procure and store seeds												

## Budget

Activity	Budgeted Cost (\$J)						
	Year I		Year II		Year III		Total
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Coordinator	-	480,000	-	480,000	-	480,000	1,440,000
Procurement of equipment	2,800,000	-	-	-	-	-	2,800,000
Purchase of seeds	32,000	-	-	-	-	-	32,000
Establishment of seed production sites	250,000	250,000	-	200,000	-	-	700,000
Maintenance of seed production sites	-	150,000	-	160,000	-	180,000	490,000
<b>Total</b>	<b>3,082,000</b>	<b>880,000</b>	<b>-</b>	<b>840,400</b>	<b>-</b>	<b>660,000</b>	<b>5,462,000</b>

## Outputs

The following outputs are expected from this activity:

- Primary production sites established
- Farmers trained in the production of seed and planting material
- Seed and planting material quality production manual produced

## ACTIVITY 6

### Research & development in organic agriculture

**Objective:** To increase the knowledge base in organic production systems in Jamaica. Specifically, research investigations will seek to assess organic vegetable production systems in relation to (i) soil chemical, physical and biological parameters, (ii) pest and natural enemy complexes, and (iii) crop productivity.

**Justification:** Over the years much of the information on the benefits of organic agriculture have been anecdotal and many studies investigating the factors responsible for the reported benefits have examined the production system by discrete components, with very little emphasis on studying the entire system. While these studies have been useful for understanding the role of various organic inputs on crop productivity and soil health, examining the system in its entirety will not only allow for interactions at different levels but may also further elucidate underlying mechanisms of the benefits that are frequently reported. As a means of filling the existing gaps in knowledge on organic agriculture, this research and development component takes a holistic approach to studying an organic vegetable production system. Because of the dearth of information on organic production systems in tropical climates, these studies will assist not only in advancing the development of organic agriculture production in Jamaica but also the wider Caribbean Region.

**Approach:** Eight farms will be selected from a range of agroecological zones throughout the island. On each farm, plots of mixed vegetable crops (pumpkin, tomato, cabbage, callaloo, hot pepper, herbs) will be established and the impact of various combinations of organic methods (crop rotations, compost, plant composition and mulches) evaluated in relation to (i) soil chemical, physical and biological parameters, (ii) pest and natural enemy composition and abundance, and (iii) crop productivity. Organic livestock production and their integration with an organic crop production system will also be investigated. Study plots will serve to demonstrate organic production systems at training workshops and seminars and facilitate activity five, which focuses on the production and dissemination of literature/information on the principles and techniques of organic agriculture.

**Coordinators:**

Caribbean Agricultural Research and Development Institute (CARDI); Ministry of Agriculture (MINAG), University of the West Indies (UWI), Jamaica Organic Agriculture Movement (JOAM), farmers.

**Implementation Schedule**

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Activity 1</b>												
Selection of experimental sites and crops												
Development of experimental design and identification of methodologies to measure parameters												
Establishment of experimental plots.												
Monitoring of experimental plot with respect to soil parameters, pest and natural enemy complexes, and crop and livestock productivity												
<b>Activity 2</b>												
Demonstration of organic production system - field days, workshops and seminars												
Development of publications (reports, templates for factsheets and posters)												

Note: dashed line denotes that the activity will not be continuously conducted



## Budget

Activity	Budgeted Cost (\$J)						
	Year I		Year II		Year III		Total
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Professional/ administrative costs	-	1,226,400	-	1,129,800	-	1,069,800	3,426,000
Establishment of research plots	-	160,000	-	-	-	-	160,000
Procurement of equipment	1,675,000	-	-	-	-	-	1,657,000
Maintenance of research plots	480,000	120,000	480,000	120,000	480,000	120,000	1,800,000
Data collection and collation	72,000	280,000	72,000	280,000	12,000	32,000	748,000
Transportation	-	180,000	-	120,000	-	120,000	420,000
Analytical costs	192,000	-	96,000	-	-	-	288,000
Demonstration and training	-	-	56,000	56,000	40,000	56,000	208,000
<b>Total</b>	<b>2,419,000</b>	<b>1,966,400</b>	<b>704,000</b>	<b>1,705,800</b>	<b>532,000</b>	<b>1,397,800</b>	<b>8,725,000</b>

## Outputs

The following outputs are expected from proposed activities:

- Increased knowledge on organic agriculture, with emphasis on tropical agroecosystems, in particular the benefits and factors responsible.
- Demonstration plots of organic production systems under varying agroecological conditions.
- Farmers and stakeholders trained in the practices and benefits of organic production.

## ACTIVITY 7

### Facilitating organic certification

**Objective:** To facilitate the improvement and inspection of organic farms and certification of at least 12 organic farms.

**Justification:** There continues to be an increase in the demand for organic products on the local and international markets. However, many Jamaican farmers are unable to take advantage of the opportunity presented by these markets because their production systems are not certified organic. In many instances, farmers who claim to be producing organically are not in full compliance with organic standards. This activity is needed to assist selected farmers with compliance to organic standards with an aim of eventually attaining organic certification.

**Approach:** Attempts will be made to identify farmers in each parish who are practicing organic farmers or who are involved in some aspects of organic agriculture. This will be done with the assistance of the Ministry of Agriculture, The Jamaica Organic Agriculture Movement, the Rural Agriculture Development Authority and the Jamaica Agricultural Society. Information will be ascertained on farming practices of these farms and based on this information, farms in each parish will be short-listed and organic inspectors, acting as consultants, assigned to these farms to determine their status with respect to organic agriculture. Farmers that are deemed ready for inspection will be advised and guided through the application process. Farms that require minor adjustment in their production system will be assisted in achieving compliance before being assisted through the certification process. All farms involved will be assisted in improving their organic farming practices. This may involve support in mechanizing some aspects of their operation.

**Coordinators:** JOAM, MOA, RADA, JAS, Farmers

## Implementation Schedule

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Identify practicing organic farms												
Select farms for intervention and initiate intervention												
Assist with compliance to organic standards												
Provide support to improve practices												
Initiate application for certification												

## Budget

Activity	Budgeted Cost (\$J)						
	Year I		Year II		Year III		Total
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Identification of farms	-	78,000	-	-	-	-	78,000
Fees for inspectors serving as consultants	840,000	140,000	420,000	140,000	-	-	1,540,000
Purchase of equipment and materials	1,500,000	-	-	-	-	-	1,500,000
Certification Fees (subsidy)	1,288,000	40,000	1,288,000	40,000	1,288,000	40,000	3,984,000
<b>Total</b>	<b>3,628,000</b>	<b>278,000</b>	<b>1,708,000</b>	<b>180,000</b>	<b>1,288,000</b>	<b>40,000</b>	<b>7,102,000</b>

## Outputs

The following outputs are expected from this activity:

- Short-listing of farms producing according to organic standards
- Assignment of inspectors as consultants to short-listed farms
- Inspection of farms by certified organic inspectors
- 12 newly certified organic farms

## ACTIVITY 8

### **Identification of land to be dedicated to organic agriculture**

**Objective:** To identify agricultural lands owned by the state or large corporations for leasing to organic farmers.

**Justification:** It is a fact that most of the Jamaican farmers who have been practicing different aspects of organic agriculture do not have access to adequate areas of lands best suited for agriculture. Many farmers consider this to be the limiting factor in their effort to increase organic production. In many instances, the small parcels of land that some of our farmers have access to are surrounded by lands that are not under organic management. As a result, the high probability of contamination makes it difficult to obtain organic certification for production on such lands. To increase the level of organic production and the integrity of organic production systems, it is necessary to have relatively large areas of land placed under organic management.

**Approach:** Parcels of land suitable for organic agriculture that are not being utilized will be identified at different locations in each Parish. Ownership of these lands will be determined and the owner or representing agency contacted to negotiate a lease agreement that would make the land available to organic farmers for organic production.

**Coordinators:** Ministry of Agriculture, Ministry of Land and the Environment, National Land Agency

## Implementation Schedule

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Identify public and private holding suitable for organic agriculture												
Investigate documentation re ownership												
Contact commissioner of lands re Government holdings												
Contact land owners re private holdings												
Make contact with land owner and negotiate lease												

## Budget

Activity	Budgeted Cost (\$J)						
	Year I		Year II		Year III		Total
	MOAPF	Other	MOAPF	Other	MOAPF	Other	
Costs associated with land identification	-	196,000	-	-	-	-	196,000
Cost associated with investigating ownership	-	140,000	-	-	-	-	140,000
Fees for members of negotiating team	280,000	560,000	-	-	-	-	840,000
Travel cost for negotiating team	60,480	20,160	-	-	-	-	80,640
<b>Total</b>	<b>340,480</b>	<b>916,160</b>	-	-	-	-	<b>1,256,640</b>

## Outputs

- At least 50 ha of additional land made available to organic farmers for organic agriculture production